APPENDIX C

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

PART 11

ANALYTICAL REPORTS

82743

240-50067-1

83966

240-22756-1

(Note—To be provided on disc only)

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ANALYTICAL RESULTS FOR:

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

PROJECT SITE: RAVENNA AAP

DOD CONTRACT #: W912QR-10-D-24

TASK ORDER #: 0010

SDG: 82743

PREPARED: January 10, 2011

TOTAL # OF PAGES IN THIS DOCUMENT: 1515

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

APPROVED BY: _____
LABORATORY DIRECTOR

APPROVED BY: _____
QA OFFICER

APPROVED BY: _____
PROJECT MANAGER

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

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Case Narrative

Client: USACE - Louisville
Project: Ravenna AAP, Ravenna, OH
Sample Receipt Date: 12/03/2010
SDG #: 82743

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

The samples which required grinding and homogenization were first dried, ground via puck mill and homogenized prior to analysis.

Sample Analysis and Quality Control

PCB Analysis:

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

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

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

Analytical Run # 72476

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

The MS and MSD were analyzed on a sample from a different SDG.

Semi-volatile Analysis:

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

Client: USACE - Louisville
Project: Ravenna AAP, Ravenna, OH
Sample Receipt Date: 12/03/2010
SDG #: 82743

Semi-volatile Analysis Continued:

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

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

8270 Soil Analyses

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

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

Analytical run 72515

Samples 877664 and 877666 were analyzed at dilutions for compounds that exceeded the calibration range.

The Matrix Spike (MS) and the Matrix Spike Duplicate (MSD) were performed on a sample from another SDG. The data and the forms for these were included with this data package.

Volatile Organics Analysis:

The samples were analyzed using US EPA Method 8260. All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Client: USACE - Louisville
Project: Ravenna AAP, Ravenna, OH
Sample Receipt Date: 12/03/2010
SDG #: 82743

Volatile Organics Analysis Continued:

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

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

Detailed reports were provided for the 8260 data for all detected compounds, as well as, for those compounds manually integrated (if applicable). Compounds not reported on the form 1's were either not detected or did not meet identification criteria so they were reported as non-detects.

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

8260 Soil Analyses

Analytical Run # 72301

Level 8 was not used for chloromethane and chloroethane on the initial calibration curve (PS120210) due to loss in linearity. These compounds were not detected above the Level 7 concentration in the associated samples. Level 1 was reanalyzed due to purge/prep error and the reanalyzed point was used (CALW1R). The first ICV was not used because chloroethane had a high recovery and methylene chloride had a low recovery. Another ICV was analyzed that had acceptable recoveries for all target compounds (LCS-ICV1). A number of compounds were calibrated using linear regression.

CCV1 had a high recovery outside specified criteria for chloroethane on a linear regression curve (>20% Drift). This compound was not detected in the associated samples so it was not flagged.

CCV3 had high recoveries outside specified criteria for chloroethane and bromomethane on linear regression curves (>20% Drift). These compounds were not detected in the associated samples so it was not flagged.

Client: USACE - Louisville
Project: Ravenna AAP, Ravenna, OH
Sample Receipt Date: 12/03/2010
SDG #: 82743

Volatile Organics Analysis Continued:

The Matrix Spike (MS) and the Matrix Spike Duplicate (MSD) for sample # 877669 had a high recovery for chloroethane. This compound was not detected in the parent sample so it was not flagged.

The Laboratory Control Sample (LCS) had a high recovery for chloroethane. This compound was not detected in the associated samples so it was not flagged.

Metals Analysis:

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

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

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

ICP Metals Analysis

Analytical Run # 72492

Antimony and vanadium were detected above the Limit of Detection (LOD) in the calibration blank (ICB # 883618) that was analyzed prior to the sample analysis. There were no affected sample results bracketed by this calibration blank.

Aluminum, calcium, chromium, iron and magnesium were detected above the LOD in the calibration blank (ICB # 884209) that was analyzed prior to the sample analysis. There were no affected sample results bracketed by this calibration blank.

The Continuing Calibration Verification (CCV # 883629) failed for silver and barium, CCV (# 883657) failed for silver, and CCV (# 883661) failed for silver, aluminum, calcium, cadmium and copper. All associated sample results were reanalyzed for these elements.

Client: USACE - Louisville
Project: Ravenna AAP, Ravenna, OH
Sample Receipt Date: 12/03/2010
SDG #: 82743

Metals Analysis Continued:

Barium, calcium, manganese and thallium were detected above the LOD in the calibration blank (CCB # 883630). The results for barium and manganese in the associated samples were all greater than 10 times the amount present in the blank; therefore, the sample results were reported and "B" qualified for these two elements. The associated samples were reanalyzed for calcium and thallium.

Barium, calcium, chromium, magnesium, manganese, selenium, antimony and vanadium were detected above the LOD in the calibration blank (CCB # 883658). The associated sample results greater than ten times the amount present in the blank were reported and qualified with a "B" flag for barium, chromium, magnesium, manganese and vanadium; otherwise, they were reanalyzed. All associated samples were reanalyzed for selenium and antimony.

Barium, chromium and thallium were detected above the LOD in the calibration blank (CCB # 883662), but all of the associated sample results were greater than 10 times the amount present in the blank for barium and chromium; therefore, the sample results were reported and "B" qualified for these two elements. All associated sample results for thallium were less than the LOD; therefore, they were reported without qualification.

Barium and nickel were detected above the LOD in the calibration blank (CCB # 884220), but there were no associated sample results reported for these analytes.

Silver, barium, beryllium, calcium, chromium, nickel and vanadium were detected above the LOD in the calibration blank (CCB # 884223). All of the associated sample results were greater than 10 times the amount present in the blank for calcium; therefore, the results were reported and qualified with a "B" flag for this element. All of the associated sample results were less than LOD for silver; therefore, the results were reported without qualification for this element. There were no associated sample results reported for barium, beryllium, chromium, nickel and vanadium.

Antimony was detected above the LOD, and aluminum, barium, calcium, chromium, iron, magnesium, manganese, vanadium and silver were detected above ½ of the RL in the Method Blank (MBS # 881107). The results for these elements in the associated samples were all greater than 10 times the MBS results, except for the antimony results which were less than the LOD. The sample data was not qualified because of the MBS contamination.

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

Client: USACE - Louisville
Project: Ravenna AAP, Ravenna, OH
Sample Receipt Date: 12/03/2010
SDG #: 82743

Metals Analysis Continued:

The Serial Dilution (L), # 883655, failed (>10% RPD) for arsenic and lead, and Serial Dilution number 884799 failed for aluminum, beryllium, calcium, cadmium, copper, magnesium and antimony. Two Post Digestion Spikes were analyzed. The first PDSS (# 883659) was analyzed with an acceptable recovery for arsenic and a failing recovery for lead. The second PDSS (# 884804) was analyzed with acceptable recoveries for aluminum, beryllium, calcium, cadmium, copper, magnesium and antimony. Those elements with acceptable PDSS recoveries were reported without qualification in the parent sample. The elements with failing recoveries were qualified with an "M" flag in the parent sample.

The Matrix Spike (MSS) and/or Matrix Spike Duplicate (MSDS) for sample number 877664 failed for lead, aluminum, beryllium, calcium, cadmium, copper, magnesium chromium, cobalt, iron, manganese, nickel, vanadium, zinc, antimony, thallium and silver. The Serial Dilution results for chromium, cobalt, iron, manganese, nickel, vanadium and zinc were acceptable and applicable; therefore, the PDSS results were invalid for these elements. These elements were reported without qualification in the parent sample. A PDSS (# 884804) was analyzed with acceptable recoveries for aluminum, beryllium, calcium, cadmium, copper, magnesium, antimony, thallium and silver; therefore, these elements were also reported without qualification in the parent sample.

The Duplicate (DUP) for sample number 877664 failed RPD limits for cadmium. The parent sample result for this element was qualified with a "Y" flag.

The DUP results were not applicable for silver and thallium because the parent sample (# 877664) results were less than 5 times the LOQ. An MSDS was analyzed to demonstrate precision, but the RPD limits were exceeded for both of these elements; therefore, they were qualified with a "Y" flag in the parent sample.

Analytical Run # 72493

The Serial Dilution number 882917 failed for sodium and potassium, but these elements were not applicable to the Serial Dilution test because the parent sample (# 877664) results were not greater than 5 times the LOQ. A PDSS (# 882920) was analyzed with acceptable recoveries for sodium and potassium; therefore, these elements were reported without qualification in the parent sample.

The MSS and MSDS failed for sodium and potassium. A PDSS (# 882920) was analyzed with acceptable recoveries for sodium and potassium; therefore, these elements were reported without qualification in the parent sample.

Sodium and potassium were detected above the LOD in the calibration blanks (CCB #'s 882919 and 882922), but all associated sample results were greater than 10 times the amount present in the blanks. The results for these two elements were reported and qualified with a "B" flag.

Client: USACE - Louisville
Project: Ravenna AAP, Ravenna, OH
Sample Receipt Date: 12/03/2010
SDG #: 82743

Metals Analysis Continued:

CVAA Mercury Analysis

Analytical Run # 72621

The Serial Dilution # 883513 failed for mercury, but this element was not applicable to the Serial Dilution test because the parent sample (# 877664) result was not greater than 5 times the LOQ. A PDSS (# 883514) was analyzed with an acceptable recovery for mercury; therefore, this element was reported without qualification in the parent sample.

The MSS failed for mercury. A PDSS (# 883514) was analyzed with an acceptable recovery for mercury; therefore, this element was reported without qualification in the parent sample.

The Duplicate (DUP) for sample # 877664 failed RPD limits for mercury. The parent sample result for this element was qualified with a "Y" flag.

Inorganic Analyses:

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

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

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

Hex chrome Analyses

Analytical Run # 72342

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

Client: USACE - Louisville
Project: Ravenna AAP, Ravenna, OH
Sample Receipt Date: 12/03/2010
SDG #: 82743

Inorganics Analysis Continued:

The Duplicate, Matrix Spikes (soluble and insoluble), and Post Digestion Spike for this run were performed on a sample from another SDG. The raw data and forms for these were included with this package.

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Data Qualifiers

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

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MANUAL INTEGRATION REASON CODES

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

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

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

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

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

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

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Sample Delivery Group

82743

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

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

CT Sample #	Folder #	Client Sample #	Sample Description	Matrix	Date Sampled	Date Received
877662	82743		DAASS-043-0001-SO	SOIL	12/02/2010	12/03/2010
877663	82743		DAASS-042-0001-SO	SOIL	12/02/2010	12/03/2010
877664	82743		DAASS-041-0001-SO	SOIL	12/02/2010	12/03/2010
877666	82743		DAASS-040-0001-SO	SOIL	12/02/2010	12/03/2010
877667	82743		DLASS-033-0001-SO	SOIL	12/02/2010	12/03/2010
877668	82743		DLASS-043-0001-SO	SOIL	12/02/2010	12/03/2010
877669	82743		DLASS-003-0001-SO	SOIL	12/02/2010	12/03/2010
877670	82743		DLASS-003-0002-SO	SOIL	12/02/2010	12/03/2010
877671	82743		DLASS-023-0001-SO	SOIL	12/02/2010	12/03/2010
877672	82743		DLASS-015-0001-SO	SOIL	12/02/2010	12/03/2010

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QC Batch Cross Reference Summary

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

Project Name:	RAVENNA
Project #:	W912QR-10-D-0024
Report Date:	12/29/2010
Date Received:	12/03/2010
SDG #:	82743

Inorganic Parameters

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
877662	Solids, Percent	SOIL		72267
877663	Solids, Percent	SOIL		72267
877664	Solids, Percent	SOIL		72416
877666	Solids, Percent	SOIL		72416
877667	Solids, Percent	SOIL		72267
877668	Solids, Percent	SOIL		72267
877669	Solids, Percent	SOIL		72267
877670	Solids, Percent	SOIL		72267
877671	Solids, Percent	SOIL		72267
877672	Solids, Percent	SOIL		72267

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
877664	Hexavalent Chromium-QSM Soil	SOIL	35712	72342
877666	Hexavalent Chromium-QSM Soil	SOIL	35712	72342

Metal Parameters

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
877664	ICP Metals QSM	SOIL	35793	72492
877666	ICP Metals QSM	SOIL	35793	72492
877664	ICP Metals QSM	SOIL	35793	72492
877666	ICP Metals QSM	SOIL	35793	72492
877664	ICP Metals QSM	SOIL	35793	72492
877666	ICP Metals QSM	SOIL	35793	72492
877664	ICP Metals QSM	SOIL	35793	72492
877666	ICP Metals QSM	SOIL	35793	72492
877664	ICP Metals QSM	SOIL	35793	72492
877666	ICP Metals QSM	SOIL	35793	72492
877664	ICP Metals QSM	SOIL	35793	72492

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Project Name: RAVENNA
Project #: W912QR-10-D-0024
SDG #: 82743

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
877664	Potassium QSM	SOIL	35793	72493
877666	Potassium QSM	SOIL	35793	72493

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
877664	Sodium QSM	SOIL	35793	72493
877666	Sodium QSM	SOIL	35793	72493

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
877664	Mercury QSM	SOIL	35845	72621
877666	Mercury QSM	SOIL	35845	72621

Organic Parameters

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
877662	VOC's by 8260 QSM	SOIL	35675	72301
877663	VOC's by 8260 QSM	SOIL	35675	72301
877667	VOC's by 8260 QSM	SOIL	35675	72301
877668	VOC's by 8260 QSM	SOIL	35675	72301
877669	VOC's by 8260 QSM	SOIL	35675	72301
877670	VOC's by 8260 QSM	SOIL	35675	72301
877671	VOC's by 8260 QSM	SOIL	35675	72301
877672	VOC's by 8260 QSM	SOIL	35675	72301

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
877664	SVOC 8270 QSM	SOIL	35715	72515
877666	SVOC 8270 QSM	SOIL	35715	72515
877664	SVOC 8270 QSM	SOIL	35715	72515
877666	SVOC 8270 QSM	SOIL	35715	72515

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
877664	PCB	SOIL	35714	72476
877666	PCB	SOIL	35714	72476

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
877664	Homogenization/Multi Incremental Prep	SOIL		72745
877666	Homogenization/Multi Incremental Prep	SOIL		72745

VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL SUMMARY
DOCUMENTS

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1A

VOLATILE ORGANICS ANALYSIS

Sample Description

DAASS-043-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	5.77 (g/mL)	CTL Sample ID:	877662
% Solids:	81.1	Date Received:	12/03/2010
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	12/07/2010 / 11:10
Analytical Method:	EPA 8260B	Analytical Prep Batch #	35675
Analytical Run #:	72301	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 10:26	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
71-55-6	1,1,1-Trichloroethane	11	U	11	21	53	53
79-34-5	1,1,2,2-Tetrachloroethane	6.4	U	6.4	21	53	53
79-00-5	1,1,2-Trichloroethane	8.5	U	8.5	21	53	53
75-34-3	1,1-Dichloroethane	12	U	12	21	53	53
75-35-4	1,1-Dichloroethene	17	U	17	21	53	56
106-93-4	1,2-Dibromoethane	11	U	11	21	53	53
107-06-2	1,2-Dichloroethane	13	U	13	21	53	53
78-87-5	1,2-Dichloropropane	7.5	U	7.5	21	53	53
78-93-3	2-Butanone	110	U	110	210	530	530
591-78-6	2-Hexanone	73	U	73	210	530	530
108-10-1	4-Methyl-2-pentanone	88	U	88	210	530	530
67-64-1	Acetone	67	U	67	530	1100	1100
71-43-2	Benzene	5.3	U	5.3	21	53	53
74-97-5	Bromochloromethane	8.5	U	8.5	21	53	53
75-27-4	Bromodichloromethane	9.6	U	9.6	21	53	53
75-25-2	Bromoform	6.4	U	6.4	21	53	53
74-83-9	Bromomethane	32	U	32	53	110	110
75-15-0	Carbon disulfide	16	U	16	43	110	110
56-23-5	Carbon tetrachloride	12	U	12	21	53	53
108-90-7	Chlorobenzene	8.5	U	8.5	21	53	53
75-00-3	Chloroethane	20	U	20	53	110	110
67-66-3	Chloroform	9.6	U	9.6	21	53	53
74-87-3	Chloromethane	27	U	27	53	110	110
156-59-2	cis-1,2-Dichloroethene	11	U	11	21	53	53

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1A

VOLATILE ORGANICS ANALYSIS

Sample Description

DAASS-043-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	5.77 (g/mL)	CTL Sample ID:	877662
% Solids:	81.1	Date Received:	12/03/2010
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	12/07/2010 / 11:10
Analytical Method:	EPA 8260B	Analytical Prep Batch #	35675
Analytical Run #:	72301	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 10:26	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
10061-01-5	cis-1,3-Dichloropropene	11	U	11	21	53	53
124-48-1	Dibromochloromethane	8.5	U	8.5	21	53	53
100-41-4	Ethylbenzene	9.2	J	8.5	21	53	53
1330-20-7	m & p-Xylene	26	J	19	43	110	110
75-09-2	Methylene chloride	43	U	43	53	110	140
95-47-6	o-Xylene	22	J	8.5	21	53	53
100-42-5	Styrene	6.4	U	6.4	21	53	53
127-18-4	Tetrachloroethene	8.5	U	8.5	21	53	53
108-88-3	Toluene	18	J	7.5	21	53	53
156-60-5	trans-1,2-Dichloroethene	12	U	12	21	53	53
10061-02-6	trans-1,3-Dichloropropene	7.5	U	7.5	53	110	110
79-01-6	Trichloroethene	11	U	11	21	53	53
75-69-4	Trichlorofluoromethane	14	U	14	53	110	110
75-01-4	Vinyl chloride	15	U	15	21	53	53

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VOLATILE ORGANICS ANALYSIS

Sample Description

DAASS-042-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	4.52 (g/mL)	CTL Sample ID:	877663
% Solids:	81.1	Date Received:	12/03/2010
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	12/07/2010 / 11:10
Analytical Method:	EPA 8260B	Analytical Prep Batch #	35675
Analytical Run #:	72301	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 18:50	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
71-55-6	1,1,1-Trichloroethane	14	U	14	27	68	68
79-34-5	1,1,2,2-Tetrachloroethane	8.2	U	8.2	27	68	68
79-00-5	1,1,2-Trichloroethane	11	U	11	27	68	68
75-34-3	1,1-Dichloroethane	15	U	15	27	68	68
75-35-4	1,1-Dichloroethene	22	U	22	27	68	71
106-93-4	1,2-Dibromoethane	14	U	14	27	68	68
107-06-2	1,2-Dichloroethane	16	U	16	27	68	68
78-87-5	1,2-Dichloropropane	9.5	U	9.5	27	68	68
78-93-3	2-Butanone	140	U	140	270	680	680
591-78-6	2-Hexanone	93	U	93	270	680	680
108-10-1	4-Methyl-2-pentanone	110	U	110	270	680	680
67-64-1	Acetone	86	U	86	680	1400	1400
71-43-2	Benzene	6.8	U	6.8	27	68	68
74-97-5	Bromochloromethane	11	U	11	27	68	68
75-27-4	Bromodichloromethane	12	U	12	27	68	68
75-25-2	Bromoform	8.2	U	8.2	27	68	68
74-83-9	Bromomethane	41	U	41	68	140	140
75-15-0	Carbon disulfide	20	U	20	55	140	140
56-23-5	Carbon tetrachloride	15	U	15	27	68	68
108-90-7	Chlorobenzene	11	U	11	27	68	68
75-00-3	Chloroethane	26	U	26	68	140	140
67-66-3	Chloroform	12	U	12	27	68	68
74-87-3	Chloromethane	34	U	34	68	140	140
156-59-2	cis-1,2-Dichloroethene	14	U	14	27	68	68

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VOLATILE ORGANICS ANALYSIS

Sample Description

DAASS-042-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	4.52 (g/mL)	CTL Sample ID:	877663
% Solids:	81.1	Date Received:	12/03/2010
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	12/07/2010 / 11:10
Analytical Method:	EPA 8260B	Analytical Prep Batch #	35675
Analytical Run #:	72301	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 18:50	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
10061-01-5	cis-1,3-Dichloropropene	14	U	14	27	68	68
124-48-1	Dibromochloromethane	11	U	11	27	68	68
100-41-4	Ethylbenzene	11	U	11	27	68	68
1330-20-7	m & p-Xylene	25	U	25	55	140	140
75-09-2	Methylene chloride	55	U	55	68	140	180
95-47-6	o-Xylene	12	J	11	27	68	68
100-42-5	Styrene	8.2	U	8.2	27	68	68
127-18-4	Tetrachloroethene	11	U	11	27	68	68
108-88-3	Toluene	13	J	9.5	27	68	68
156-60-5	trans-1,2-Dichloroethene	15	U	15	27	68	68
10061-02-6	trans-1,3-Dichloropropene	9.5	U	9.5	68	140	140
79-01-6	Trichloroethene	14	U	14	27	68	68
75-69-4	Trichlorofluoromethane	18	U	18	68	140	140
75-01-4	Vinyl chloride	19	U	19	27	68	68

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VOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-033-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	6.22 (g/mL)	CTL Sample ID:	877667
% Solids:	77.5	Date Received:	12/03/2010
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	12/07/2010 / 11:10
Analytical Method:	EPA 8260B	Analytical Prep Batch #	35675
Analytical Run #:	72301	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 11:04	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
71-55-6	1,1,1-Trichloroethane	10	U	10	21	52	52
79-34-5	1,1,2,2-Tetrachloroethane	6.2	U	6.2	21	52	52
79-00-5	1,1,2-Trichloroethane	8.3	U	8.3	21	52	52
75-34-3	1,1-Dichloroethane	11	U	11	21	52	52
75-35-4	1,1-Dichloroethene	17	U	17	21	52	54
106-93-4	1,2-Dibromoethane	10	U	10	21	52	52
107-06-2	1,2-Dichloroethane	12	U	12	21	52	52
78-87-5	1,2-Dichloropropane	7.3	U	7.3	21	52	52
78-93-3	2-Butanone	100	U	100	210	520	520
591-78-6	2-Hexanone	71	U	71	210	520	520
108-10-1	4-Methyl-2-pentanone	85	U	85	210	520	520
67-64-1	Acetone	65	U	65	520	1000	1000
71-43-2	Benzene	5.2	U	5.2	21	52	52
74-97-5	Bromochloromethane	8.3	U	8.3	21	52	52
75-27-4	Bromodichloromethane	9.3	U	9.3	21	52	52
75-25-2	Bromoform	6.2	U	6.2	21	52	52
74-83-9	Bromomethane	31	U	31	52	100	100
75-15-0	Carbon disulfide	16	U	16	41	100	100
56-23-5	Carbon tetrachloride	11	U	11	21	52	52
108-90-7	Chlorobenzene	8.3	U	8.3	21	52	52
75-00-3	Chloroethane	20	U	20	52	100	100
67-66-3	Chloroform	9.3	U	9.3	21	52	52
74-87-3	Chloromethane	26	U	26	52	100	100
156-59-2	cis-1,2-Dichloroethene	10	U	10	21	52	52

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VOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-033-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	6.22 (g/mL)	CTL Sample ID:	877667
% Solids:	77.5	Date Received:	12/03/2010
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	12/07/2010 / 11:10
Analytical Method:	EPA 8260B	Analytical Prep Batch #	35675
Analytical Run #:	72301	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 11:04	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
10061-01-5	cis-1,3-Dichloropropene	10	U	10	21	52	52
124-48-1	Dibromochloromethane	8.3	U	8.3	21	52	52
100-41-4	Ethylbenzene	8.3	U	8.3	21	52	52
1330-20-7	m & p-Xylene	19	U	19	41	100	100
75-09-2	Methylene chloride	41	U	41	52	100	130
95-47-6	o-Xylene	17	J	8.3	21	52	52
100-42-5	Styrene	6.2	U	6.2	21	52	52
127-18-4	Tetrachloroethene	8.3	U	8.3	21	52	52
108-88-3	Toluene	7.3	U	7.3	21	52	52
156-60-5	trans-1,2-Dichloroethene	11	U	11	21	52	52
10061-02-6	trans-1,3-Dichloropropene	7.3	U	7.3	52	100	100
79-01-6	Trichloroethene	10	U	10	21	52	52
75-69-4	Trichlorofluoromethane	13	U	13	52	100	100
75-01-4	Vinyl chloride	15	U	15	21	52	52

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VOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-043-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	6.68 (g/mL)	CTL Sample ID:	877668
% Solids:	88.7	Date Received:	12/03/2010
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	12/07/2010 / 11:10
Analytical Method:	EPA 8260B	Analytical Prep Batch #	35675
Analytical Run #:	72301	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 11:44	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
71-55-6	1,1,1-Trichloroethane	8.4	U	8.4	17	42	42
79-34-5	1,1,2,2-Tetrachloroethane	5.1	U	5.1	17	42	42
79-00-5	1,1,2-Trichloroethane	6.8	U	6.8	17	42	42
75-34-3	1,1-Dichloroethane	9.3	U	9.3	17	42	42
75-35-4	1,1-Dichloroethene	14	U	14	17	42	44
106-93-4	1,2-Dibromoethane	8.4	U	8.4	17	42	42
107-06-2	1,2-Dichloroethane	10	U	10	17	42	42
78-87-5	1,2-Dichloropropane	5.9	U	5.9	17	42	42
78-93-3	2-Butanone	84	U	84	170	420	420
591-78-6	2-Hexanone	57	U	57	170	420	420
108-10-1	4-Methyl-2-pentanone	69	U	69	170	420	420
67-64-1	Acetone	53	U	53	420	840	840
71-43-2	Benzene	4.2	U	4.2	17	42	42
74-97-5	Bromochloromethane	6.8	U	6.8	17	42	42
75-27-4	Bromodichloromethane	7.6	U	7.6	17	42	42
75-25-2	Bromoform	5.1	U	5.1	17	42	42
74-83-9	Bromomethane	25	U	25	42	84	84
75-15-0	Carbon disulfide	13	U	13	34	84	84
56-23-5	Carbon tetrachloride	9.3	U	9.3	17	42	42
108-90-7	Chlorobenzene	6.8	U	6.8	17	42	42
75-00-3	Chloroethane	16	U	16	42	84	84
67-66-3	Chloroform	7.6	U	7.6	17	42	42
74-87-3	Chloromethane	21	U	21	42	84	84
156-59-2	cis-1,2-Dichloroethene	8.4	U	8.4	17	42	42

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VOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-043-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	6.68 (g/mL)	CTL Sample ID:	877668
% Solids:	88.7	Date Received:	12/03/2010
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	12/07/2010 / 11:10
Analytical Method:	EPA 8260B	Analytical Prep Batch #	35675
Analytical Run #:	72301	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 11:44	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
10061-01-5	cis-1,3-Dichloropropene	8.4	U	8.4	17	42	42
124-48-1	Dibromochloromethane	6.8	U	6.8	17	42	42
100-41-4	Ethylbenzene	6.8	U	6.8	17	42	42
1330-20-7	m & p-Xylene	15	U	15	34	84	84
75-09-2	Methylene chloride	34	U	34	42	84	110
95-47-6	o-Xylene	6.8	U	6.8	17	42	42
100-42-5	Styrene	5.1	U	5.1	17	42	42
127-18-4	Tetrachloroethene	6.8	U	6.8	17	42	42
108-88-3	Toluene	5.9	U	5.9	17	42	42
156-60-5	trans-1,2-Dichloroethene	9.3	U	9.3	17	42	42
10061-02-6	trans-1,3-Dichloropropene	5.9	U	5.9	42	84	84
79-01-6	Trichloroethene	8.4	U	8.4	17	42	42
75-69-4	Trichlorofluoromethane	11	U	11	42	84	84
75-01-4	Vinyl chloride	12	U	12	17	42	42

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VOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-003-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	5.91 (g/mL)	CTL Sample ID:	877669
% Solids:	70.8	Date Received:	12/03/2010
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	12/07/2010 / 11:10
Analytical Method:	EPA 8260B	Analytical Prep Batch #	35675
Analytical Run #:	72301	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 12:22	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
71-55-6	1,1,1-Trichloroethane	12	U	12	24	60	60
79-34-5	1,1,2,2-Tetrachloroethane	7.2	U	7.2	24	60	60
79-00-5	1,1,2-Trichloroethane	9.6	U	9.6	24	60	60
75-34-3	1,1-Dichloroethane	13	U	13	24	60	60
75-35-4	1,1-Dichloroethene	19	U	19	24	60	62
106-93-4	1,2-Dibromoethane	12	U	12	24	60	60
107-06-2	1,2-Dichloroethane	14	U	14	24	60	60
78-87-5	1,2-Dichloropropane	8.4	U	8.4	24	60	60
78-93-3	2-Butanone	120	U	120	240	600	600
591-78-6	2-Hexanone	81	U	81	240	600	600
108-10-1	4-Methyl-2-pentanone	98	U	98	240	600	600
67-64-1	Acetone	75	U	75	600	1200	1200
71-43-2	Benzene	6.0	U	6.0	24	60	60
74-97-5	Bromochloromethane	9.6	U	9.6	24	60	60
75-27-4	Bromodichloromethane	11	U	11	24	60	60
75-25-2	Bromoform	7.2	U	7.2	24	60	60
74-83-9	Bromomethane	36	U	36	60	120	120
75-15-0	Carbon disulfide	18	U	18	48	120	120
56-23-5	Carbon tetrachloride	13	U	13	24	60	60
108-90-7	Chlorobenzene	9.6	U	9.6	24	60	60
75-00-3	Chloroethane	23	U	23	60	120	120
67-66-3	Chloroform	11	U	11	24	60	60
74-87-3	Chloromethane	30	U	30	60	120	120
156-59-2	cis-1,2-Dichloroethene	12	U	12	24	60	60

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VOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-003-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	5.91 (g/mL)	CTL Sample ID:	877669
% Solids:	70.8	Date Received:	12/03/2010
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	12/07/2010 / 11:10
Analytical Method:	EPA 8260B	Analytical Prep Batch #	35675
Analytical Run #:	72301	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 12:22	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
10061-01-5	cis-1,3-Dichloropropene	12	U	12	24	60	60
124-48-1	Dibromochloromethane	9.6	U	9.6	24	60	60
100-41-4	Ethylbenzene	9.6	U	9.6	24	60	60
1330-20-7	m & p-Xylene	22	U	22	48	120	120
75-09-2	Methylene chloride	48	U	48	60	120	160
95-47-6	o-Xylene	9.6	U	9.6	24	60	60
100-42-5	Styrene	7.2	U	7.2	24	60	60
127-18-4	Tetrachloroethene	9.6	U	9.6	24	60	60
108-88-3	Toluene	8.4	U	8.4	24	60	60
156-60-5	trans-1,2-Dichloroethene	13	U	13	24	60	60
10061-02-6	trans-1,3-Dichloropropene	8.4	U	8.4	60	120	120
79-01-6	Trichloroethene	12	U	12	24	60	60
75-69-4	Trichlorofluoromethane	16	U	16	60	120	120
75-01-4	Vinyl chloride	17	U	17	24	60	60

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VOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-003-0002-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	5.09 (g/mL)	CTL Sample ID:	877670
% Solids:	76.1	Date Received:	12/03/2010
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	12/07/2010 / 11:10
Analytical Method:	EPA 8260B	Analytical Prep Batch #	35675
Analytical Run #:	72301	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 13:01	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
71-55-6	1,1,1-Trichloroethane	13	U	13	26	65	65
79-34-5	1,1,2,2-Tetrachloroethane	7.7	U	7.7	26	65	65
79-00-5	1,1,2-Trichloroethane	10	U	10	26	65	65
75-34-3	1,1-Dichloroethane	14	U	14	26	65	65
75-35-4	1,1-Dichloroethene	21	U	21	26	65	67
106-93-4	1,2-Dibromoethane	13	U	13	26	65	65
107-06-2	1,2-Dichloroethane	15	U	15	26	65	65
78-87-5	1,2-Dichloropropane	9.0	U	9.0	26	65	65
78-93-3	2-Butanone	130	U	130	260	650	650
591-78-6	2-Hexanone	88	U	88	260	650	650
108-10-1	4-Methyl-2-pentanone	110	U	110	260	650	650
67-64-1	Acetone	81	U	81	650	1300	1300
71-43-2	Benzene	6.5	U	6.5	26	65	65
74-97-5	Bromochloromethane	10	U	10	26	65	65
75-27-4	Bromodichloromethane	12	U	12	26	65	65
75-25-2	Bromoform	7.7	U	7.7	26	65	65
74-83-9	Bromomethane	39	U	39	65	130	130
75-15-0	Carbon disulfide	19	U	19	52	130	130
56-23-5	Carbon tetrachloride	14	U	14	26	65	65
108-90-7	Chlorobenzene	10	U	10	26	65	65
75-00-3	Chloroethane	25	U	25	65	130	130
67-66-3	Chloroform	12	U	12	26	65	65
74-87-3	Chloromethane	32	U	32	65	130	130
156-59-2	cis-1,2-Dichloroethene	13	U	13	26	65	65

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1A

VOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-003-0002-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	5.09 (g/mL)	CTL Sample ID:	877670
% Solids:	76.1	Date Received:	12/03/2010
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	12/07/2010 / 11:10
Analytical Method:	EPA 8260B	Analytical Prep Batch #	35675
Analytical Run #:	72301	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 13:01	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
10061-01-5	cis-1,3-Dichloropropene	13	U	13	26	65	65
124-48-1	Dibromochloromethane	10	U	10	26	65	65
100-41-4	Ethylbenzene	10	U	10	26	65	65
1330-20-7	m & p-Xylene	23	U	23	52	130	130
75-09-2	Methylene chloride	52	U	52	65	130	170
95-47-6	o-Xylene	10	U	10	26	65	65
100-42-5	Styrene	7.7	U	7.7	26	65	65
127-18-4	Tetrachloroethene	10	U	10	26	65	65
108-88-3	Toluene	9.0	U	9.0	26	65	65
156-60-5	trans-1,2-Dichloroethene	14	U	14	26	65	65
10061-02-6	trans-1,3-Dichloropropene	9.0	U	9.0	65	130	130
79-01-6	Trichloroethene	13	U	13	26	65	65
75-69-4	Trichlorofluoromethane	17	U	17	65	130	130
75-01-4	Vinyl chloride	18	U	18	26	65	65

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VOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-023-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	5.83 (g/mL)	CTL Sample ID:	877671
% Solids:	80.5	Date Received:	12/03/2010
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	12/07/2010 / 11:10
Analytical Method:	EPA 8260B	Analytical Prep Batch #	35675
Analytical Run #:	72301	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 13:40	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
71-55-6	1,1,1-Trichloroethane	11	U	11	21	53	53
79-34-5	1,1,2,2-Tetrachloroethane	6.4	U	6.4	21	53	53
79-00-5	1,1,2-Trichloroethane	8.5	U	8.5	21	53	53
75-34-3	1,1-Dichloroethane	12	U	12	21	53	53
75-35-4	1,1-Dichloroethene	17	U	17	21	53	55
106-93-4	1,2-Dibromoethane	11	U	11	21	53	53
107-06-2	1,2-Dichloroethane	13	U	13	21	53	53
78-87-5	1,2-Dichloropropane	7.5	U	7.5	21	53	53
78-93-3	2-Butanone	110	U	110	210	530	530
591-78-6	2-Hexanone	72	U	72	210	530	530
108-10-1	4-Methyl-2-pentanone	87	U	87	210	530	530
67-64-1	Acetone	67	U	67	530	1100	1100
71-43-2	Benzene	5.3	U	5.3	21	53	53
74-97-5	Bromochloromethane	8.5	U	8.5	21	53	53
75-27-4	Bromodichloromethane	9.6	U	9.6	21	53	53
75-25-2	Bromoform	6.4	U	6.4	21	53	53
74-83-9	Bromomethane	32	U	32	53	110	110
75-15-0	Carbon disulfide	16	U	16	43	110	110
56-23-5	Carbon tetrachloride	12	U	12	21	53	53
108-90-7	Chlorobenzene	8.5	U	8.5	21	53	53
75-00-3	Chloroethane	20	U	20	53	110	110
67-66-3	Chloroform	9.6	U	9.6	21	53	53
74-87-3	Chloromethane	27	U	27	53	110	110
156-59-2	cis-1,2-Dichloroethene	11	U	11	21	53	53

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VOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-023-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	5.83 (g/mL)	CTL Sample ID:	877671
% Solids:	80.5	Date Received:	12/03/2010
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	12/07/2010 / 11:10
Analytical Method:	EPA 8260B	Analytical Prep Batch #	35675
Analytical Run #:	72301	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 13:40	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
10061-01-5	cis-1,3-Dichloropropene	11	U	11	21	53	53
124-48-1	Dibromochloromethane	8.5	U	8.5	21	53	53
100-41-4	Ethylbenzene	8.5	U	8.5	21	53	53
1330-20-7	m & p-Xylene	19	U	19	43	110	110
75-09-2	Methylene chloride	43	U	43	53	110	140
95-47-6	o-Xylene	8.5	U	8.5	21	53	53
100-42-5	Styrene	6.4	U	6.4	21	53	53
127-18-4	Tetrachloroethene	8.5	U	8.5	21	53	53
108-88-3	Toluene	7.5	U	7.5	21	53	53
156-60-5	trans-1,2-Dichloroethene	12	U	12	21	53	53
10061-02-6	trans-1,3-Dichloropropene	7.5	U	7.5	53	110	110
79-01-6	Trichloroethene	11	U	11	21	53	53
75-69-4	Trichlorofluoromethane	14	U	14	53	110	110
75-01-4	Vinyl chloride	15	U	15	21	53	53

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VOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-015-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	6.23 (g/mL)	CTL Sample ID:	877672
% Solids:	82.4	Date Received:	12/03/2010
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	12/07/2010 / 11:10
Analytical Method:	EPA 8260B	Analytical Prep Batch #	35675
Analytical Run #:	72301	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 14:18	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
71-55-6	1,1,1-Trichloroethane	9.7	U	9.7	19	49	49
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U	5.8	19	49	49
79-00-5	1,1,2-Trichloroethane	7.8	U	7.8	19	49	49
75-34-3	1,1-Dichloroethane	11	U	11	19	49	49
75-35-4	1,1-Dichloroethene	16	U	16	19	49	51
106-93-4	1,2-Dibromoethane	9.7	U	9.7	19	49	49
107-06-2	1,2-Dichloroethane	12	U	12	19	49	49
78-87-5	1,2-Dichloropropane	6.8	U	6.8	19	49	49
78-93-3	2-Butanone	97	U	97	190	490	490
591-78-6	2-Hexanone	66	U	66	190	490	490
108-10-1	4-Methyl-2-pentanone	80	U	80	190	490	490
67-64-1	Acetone	61	U	61	490	970	970
71-43-2	Benzene	4.9	U	4.9	19	49	49
74-97-5	Bromochloromethane	7.8	U	7.8	19	49	49
75-27-4	Bromodichloromethane	8.8	U	8.8	19	49	49
75-25-2	Bromoform	5.8	U	5.8	19	49	49
74-83-9	Bromomethane	29	U	29	49	97	97
75-15-0	Carbon disulfide	15	U	15	39	97	97
56-23-5	Carbon tetrachloride	11	U	11	19	49	49
108-90-7	Chlorobenzene	7.8	U	7.8	19	49	49
75-00-3	Chloroethane	19	U	19	49	97	97
67-66-3	Chloroform	8.8	U	8.8	19	49	49
74-87-3	Chloromethane	24	U	24	49	97	97
156-59-2	cis-1,2-Dichloroethene	9.7	U	9.7	19	49	49

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VOLATILE ORGANICS ANALYSIS

Sample Description

DLASS-015-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	6.23 (g/mL)	CTL Sample ID:	877672
% Solids:	82.4	Date Received:	12/03/2010
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	12/07/2010 / 11:10
Analytical Method:	EPA 8260B	Analytical Prep Batch #	35675
Analytical Run #:	72301	Dilution Factor:	1.00
Date & Time Analyzed:	12/08/2010 / 14:18	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
10061-01-5	cis-1,3-Dichloropropene	9.7	U	9.7	19	49	49
124-48-1	Dibromochloromethane	7.8	U	7.8	19	49	49
100-41-4	Ethylbenzene	7.8	U	7.8	19	49	49
1330-20-7	m & p-Xylene	18	U	18	39	97	97
75-09-2	Methylene chloride	39	U	39	49	97	130
95-47-6	o-Xylene	7.8	U	7.8	19	49	49
100-42-5	Styrene	5.8	U	5.8	19	49	49
127-18-4	Tetrachloroethene	7.8	U	7.8	19	49	49
108-88-3	Toluene	6.8	U	6.8	19	49	49
156-60-5	trans-1,2-Dichloroethene	11	U	11	19	49	49
10061-02-6	trans-1,3-Dichloropropene	6.8	U	6.8	49	97	97
79-01-6	Trichloroethene	9.7	U	9.7	19	49	49
75-69-4	Trichlorofluoromethane	13	U	13	49	97	97
75-01-4	Vinyl chloride	14	U	14	19	49	49

CT Laboratories

1A-2

VOLATILE ORGANICS ANALYSIS (MB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:		SDG No.:	82743
Sample wt/vol:	10.0 (g/mL)	CTL Sample ID:	878679
% Solids:		Date Received:	12/03/2010
Soil Extract Vol:	10.0 (mL)	Date/Time Prepared:	12/07/2010 / 11:10
Analytical Method:	EPA 8260B	Analytical Prep Batch #	35675
Analytical Run #:	72301	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
71-55-6	1,1,1-Trichloroethane	12/08/2010 09:47	25	U	25	25	
79-34-5	1,1,2,2-Tetrachloroethane	12/08/2010 09:47	25	U	25	25	
79-00-5	1,1,2-Trichloroethane	12/08/2010 09:47	25	U	25	25	
75-34-3	1,1-Dichloroethane	12/08/2010 09:47	25	U	25	25	
75-35-4	1,1-Dichloroethene	12/08/2010 09:47	25	U	25	25	
106-93-4	1,2-Dibromoethane	12/08/2010 09:47	25	U	25	25	
107-06-2	1,2-Dichloroethane	12/08/2010 09:47	25	U	25	25	
78-87-5	1,2-Dichloropropane	12/08/2010 09:47	25	U	25	25	
78-93-3	2-Butanone	12/08/2010 09:47	250	U	250	250	
591-78-6	2-Hexanone	12/08/2010 09:47	250	U	250	250	
108-10-1	4-Methyl-2-pentanone	12/08/2010 09:47	250	U	250	250	
67-64-1	Acetone	12/08/2010 09:47	500	U	500	500	
71-43-2	Benzene	12/08/2010 09:47	25	U	25	25	
74-97-5	Bromochloromethane	12/08/2010 09:47	25	U	25	25	
75-27-4	Bromodichloromethane	12/08/2010 09:47	25	U	25	25	
75-25-2	Bromoform	12/08/2010 09:47	25	U	25	25	
74-83-9	Bromomethane	12/08/2010 09:47	50	U	50	50	
75-15-0	Carbon disulfide	12/08/2010 09:47	50	U	50	50	
56-23-5	Carbon tetrachloride	12/08/2010 09:47	25	U	25	25	
108-90-7	Chlorobenzene	12/08/2010 09:47	25	U	25	25	
75-00-3	Chloroethane	12/08/2010 09:47	50	U	50	50	
67-66-3	Chloroform	12/08/2010 09:47	25	U	25	25	
74-87-3	Chloromethane	12/08/2010 09:47	50	U	50	50	

CT Laboratories

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VOLATILE ORGANICS ANALYSIS (MB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:		SDG No.:	82743
Sample wt/vol:	10.0 (g/mL)	CTL Sample ID:	878679
% Solids:		Date Received:	12/03/2010
Soil Extract Vol:	10.0 (mL)	Date/Time Prepared:	12/07/2010 / 11:10
Analytical Method:	EPA 8260B	Analytical Prep Batch #	35675
Analytical Run #:	72301	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
156-59-2	cis-1,2-Dichloroethene	12/08/2010 09:47	25	U	25	25	
10061-01-5	cis-1,3-Dichloropropene	12/08/2010 09:47	25	U	25	25	
124-48-1	Dibromochloromethane	12/08/2010 09:47	25	U	25	25	
100-41-4	Ethylbenzene	12/08/2010 09:47	25	U	25	25	
1330-20-7	m & p-Xylene	12/08/2010 09:47	50	U	50	50	
75-09-2	Methylene chloride	12/08/2010 09:47	50	U	50	50	
95-47-6	o-Xylene	12/08/2010 09:47	25	U	25	25	
100-42-5	Styrene	12/08/2010 09:47	25	U	25	25	
127-18-4	Tetrachloroethene	12/08/2010 09:47	25	U	25	25	
108-88-3	Toluene	12/08/2010 09:47	25	U	25	25	
156-60-5	trans-1,2-Dichloroethene	12/08/2010 09:47	25	U	25	25	
10061-02-6	trans-1,3-Dichloropropene	12/08/2010 09:47	50	U	50	50	
79-01-6	Trichloroethene	12/08/2010 09:47	25	U	25	25	
75-69-4	Trichlorofluoromethane	12/08/2010 09:47	50	U	50	50	
75-01-4	Vinyl chloride	12/08/2010 09:47	25	U	25	25	

CT LABORATORIES
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2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

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

Analytical Method: EPA 8260B SDG: 82743

Analytical Run #: 72301

CTLab #	877662				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	104	72	117	
Bromofluorobenzene	100	102	85	120	
d8-Toluene	100	106	85	115	
Dibromofluoromethane	100	104	77	119	
CTLab #	**877663**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	104	72	117	
Bromofluorobenzene	100	101	85	120	
d8-Toluene	100	105	85	115	
Dibromofluoromethane	100	106	77	119	
CTLab #	**877667**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	104	72	117	
Bromofluorobenzene	100	101	85	120	
d8-Toluene	100	108	85	115	
Dibromofluoromethane	100	104	77	119	
CTLab #	**877668**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	107	72	117	
Bromofluorobenzene	100	100	85	120	
d8-Toluene	100	108	85	115	
Dibromofluoromethane	100	106	77	119	
CTLab #	**877669**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	101	72	117	
Bromofluorobenzene	100	97	85	120	
d8-Toluene	100	107	85	115	
Dibromofluoromethane	100	105	77	119	
CTLab #	**877670**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	103	72	117	
Bromofluorobenzene	100	99	85	120	
d8-Toluene	100	108	85	115	
Dibromofluoromethane	100	108	77	119	

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2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

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

Analytical Method: EPA 8260B SDG: 82743

Analytical Run #: 72301

CTLab #	877671				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	103	72	117	
Bromofluorobenzene	100	99	85	120	
d8-Toluene	100	106	85	115	
Dibromofluoromethane	100	105	77	119	
CTLab #	**877672**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	107	72	117	
Bromofluorobenzene	100	101	85	120	
d8-Toluene	100	107	85	115	
Dibromofluoromethane	100	106	77	119	
CTLab #	**878679**	Sample Type:		Method Blank	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4		107	72	117	
Bromofluorobenzene		100	85	120	
d8-Toluene		108	85	115	
Dibromofluoromethane		109	77	119	
CTLab #	**878680**	Sample Type:		Lab Control Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	72	117	
Bromofluorobenzene	100	96.0	85	120	
d8-Toluene	100	105	85	115	
Dibromofluoromethane	100	104	77	119	
CTLab #	**878681**	Sample Type:		Matrix Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	98.0	72	117	
Bromofluorobenzene	100	98.0	85	120	
d8-Toluene	100	104	85	115	
Dibromofluoromethane	100	104	77	119	
CTLab #	**878682**	Sample Type:		Matrix Spike Duplicate	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	104	72	117	
Bromofluorobenzene	100	100	85	120	
d8-Toluene	100	102	85	115	
Dibromofluoromethane	100	103	77	119	

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3B

SOIL VOLATILE MATRIX SPIKE RECOVERY

Sample Description

DLASS-003-0001-SO

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

Matrix: SOIL SDG No.: 82743

Analytical Method: EPA 8260B Concentration Units: ug/kg

Analytical Run #: 72301 Sample No.: 878681 Parent Sample No.: 877669

Analytical Prep Batch #: 35675 Analytical Preparation Date/Time: 12/07/2010 11:10

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
1,1,1-Trichloroethane	12/09/2010	14:59	70-135	726	0	755	96	
1,1,2,2-Tetrachloroethane	12/09/2010	14:59	55-130	613	0	755	81	
1,1,2-Trichloroethane	12/09/2010	14:59	60-125	720	0	755	95	
1,1-Dichloroethane	12/09/2010	14:59	75-125	722	0	755	96	
1,1-Dichloroethene	12/09/2010	14:59	65-135	714	0	755	95	
1,2-Dibromoethane	12/09/2010	14:59	70-125	663	0	755	88	
1,2-Dichloroethane	12/09/2010	14:59	70-135	687	0	755	91	
1,2-Dichloropropane	12/09/2010	14:59	70-120	682	0	755	90	
2-Butanone	12/09/2010	14:59	30-160	5660	0	7550	75	
2-Hexanone	12/09/2010	14:59	45-145	6200	0	7550	82	
4-Methyl-2-pentanone	12/09/2010	14:59	20-145	6550	0	7550	87	
Acetone	12/09/2010	14:59	20-160	5120	0	7550	68	
Benzene	12/09/2010	14:59	75-125	712	0	755	94	
Bromochloromethane	12/09/2010	14:59	70-125	719	0	755	95	
Bromodichloromethane	12/09/2010	14:59	70-130	686	0	755	91	
Bromoform	12/09/2010	14:59	55-135	614	0	755	81	
Bromomethane	12/09/2010	14:59	30-160	1060	0	755	140	
Carbon disulfide	12/09/2010	14:59	45-160	1410	0	1510	93	
Carbon tetrachloride	12/09/2010	14:59	65-135	730	0	755	97	
Chlorobenzene	12/09/2010	14:59	75-125	667	0	755	88	
Chloroethane	12/09/2010	14:59	40-155	2450	0	755	325	*FAIL*
Chloroform	12/09/2010	14:59	70-125	689	0	755	91	
Chloromethane	12/09/2010	14:59	50-130	806	0	755	107	
cis-1,2-Dichloroethene	12/09/2010	14:59	65-125	709	0	755	94	
cis-1,3-Dichloropropene	12/09/2010	14:59	70-125	680	0	755	90	
Dibromochloromethane	12/09/2010	14:59	65-130	650	0	755	86	
Ethylbenzene	12/09/2010	14:59	75-125	693	0	755	92	
m & p-Xylene	12/09/2010	14:59	80-125	1400	0	1510	93	
Methylene chloride	12/09/2010	14:59	55-140	503	0	755	67	
o-Xylene	12/09/2010	14:59	75-125	682	0	755	90	
Styrene	12/09/2010	14:59	75-125	678	0	755	90	
Tetrachloroethene	12/09/2010	14:59	65-140	672	0	755	89	

CT LABORATORIES
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3B

Sample Description

SOIL VOLATILE MATRIX SPIKE RECOVERY

DLASS-003-0001-SO

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

Matrix: SOIL SDG No.: 82743

Analytical Method: EPA 8260B Concentration Units: ug/kg

Analytical Run #: 72301 Sample No.: 878681 Parent Sample No.: 877669

Analytical Prep Batch #: 35675 Analytical Preparation Date/Time: 12/07/2010 11:10

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Toluene	12/09/2010	14:59	70-125	737	0	755	98
trans-1,2-Dichloroethene	12/09/2010	14:59	65-135	723	0	755	96
trans-1,3-Dichloropropene	12/09/2010	14:59	65-125	621	0	755	82
Trichloroethene	12/09/2010	14:59	75-125	705	0	755	93
Trichlorofluoromethane	12/09/2010	14:59	25-185	646	0	755	86
Vinyl chloride	12/09/2010	14:59	60-125	779	0	755	103

Spike Recovery: 1 out of 38 outside QC limits

CT LABORATORIES
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3B

SOIL VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

Sample Description: **DLASS-003-0001-SO**

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

Matrix: SOIL | SDG No.: 82743

Analytical Method: EPA 8260B | Concentration Units: ug/kg

Analytical Run #: 72301 | Sample No.: 878682 | Parent Sample No.: 878681

Analytical Prep Batch #: 35675 | Analytical Preparation Date/Time: 12/07/2010 11:10

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
1,1,1-Trichloroethane	12/09/2010	15:37	576	621	93	4	70-135	30	
1,1,2,2-Tetrachloroethane	12/09/2010	15:37	511	621	82	1	55-130	30	
1,1,2-Trichloroethane	12/09/2010	15:37	550	621	89	7	60-125	30	
1,1-Dichloroethane	12/09/2010	15:37	560	621	90	6	75-125	30	
1,1-Dichloroethene	12/09/2010	15:37	579	621	93	1	65-135	30	
1,2-Dibromoethane	12/09/2010	15:37	526	621	85	4	70-125	30	
1,2-Dichloroethane	12/09/2010	15:37	582	621	94	3	70-135	30	
1,2-Dichloropropane	12/09/2010	15:37	543	621	87	3	70-120	30	
2-Butanone	12/09/2010	15:37	4650	6210	75	0	30-160	30	
2-Hexanone	12/09/2010	15:37	4850	6210	78	5	45-145	30	
4-Methyl-2-pentanone	12/09/2010	15:37	5140	6210	83	5	20-145	30	
Acetone	12/09/2010	15:37	4240	6210	68	1	20-160	30	
Benzene	12/09/2010	15:37	572	621	92	2	75-125	30	
Bromochloromethane	12/09/2010	15:37	567	621	91	4	70-125	30	
Bromodichloromethane	12/09/2010	15:37	567	621	91	0	70-130	30	
Bromoform	12/09/2010	15:37	495	621	80	2	55-135	30	
Bromomethane	12/09/2010	15:37	773	621	124	12	30-160	30	
Carbon disulfide	12/09/2010	15:37	1150	1240	93	1	45-160	30	
Carbon tetrachloride	12/09/2010	15:37	567	621	91	6	65-135	30	
Chlorobenzene	12/09/2010	15:37	543	621	87	1	75-125	30	
Chloroethane	12/09/2010	15:37	1970	621	317	2	40-155	30	*FAIL*
Chloroform	12/09/2010	15:37	554	621	89	2	70-125	30	
Chloromethane	12/09/2010	15:37	654	621	105	1	50-130	30	
cis-1,2-Dichloroethene	12/09/2010	15:37	573	621	92	2	65-125	30	
cis-1,3-Dichloropropene	12/09/2010	15:37	540	621	87	3	70-125	30	
Dibromochloromethane	12/09/2010	15:37	507	621	82	5	65-130	30	
Ethylbenzene	12/09/2010	15:37	557	621	90	2	75-125	30	
m & p-Xylene	12/09/2010	15:37	1130	1240	91	2	80-125	30	
Methylene chloride	12/09/2010	15:37	375	621	60	10	55-140	30	
o-Xylene	12/09/2010	15:37	543	621	87	3	75-125	30	
Styrene	12/09/2010	15:37	549	621	88	2	75-125	30	
Tetrachloroethene	12/09/2010	15:37	546	621	88	1	65-140	30	

CT LABORATORIES
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3B

Sample Description

SOIL VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

DLASS-003-0001-SO

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

Matrix: SOIL SDG No.: 82743

Analytical Method: EPA 8260B Concentration Units: ug/kg

Analytical Run #: 72301 Sample No.: 878682 Parent Sample No.: 878681

Analytical Prep Batch #: 35675 Analytical Preparation Date/Time: 12/07/2010 11:10

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)
Toluene	12/09/2010	15:37	571	621	92	6	70-125	30
trans-1,2-Dichloroethene	12/09/2010	15:37	581	621	94	2	65-135	30
trans-1,3-Dichloropropene	12/09/2010	15:37	478	621	77	7	65-125	30
Trichloroethene	12/09/2010	15:37	568	621	91	2	75-125	30
Trichlorofluoromethane	12/09/2010	15:37	517	621	83	3	25-185	30
Vinyl chloride	12/09/2010	15:37	606	621	98	6	60-125	30

RPD or Spike Recovery: 1 out of 38 outside QC limits

CT LABORATORIES
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3B

Sample Description

LCS

SOIL VOLATILE LAB CONTROL SAMPLE

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

Sample No.: 878680 SDG No.: 82743

Analytical Method: EPA 8260B Concentration Units: ug/kg

Analytical Run #: 72301 Sample No.: 878680 Parent Sample No.: 0

Analytical Prep Batch #: 35675 Analytical Preparation Date/Time: 12/07/2010 11:10

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
1,1,1-Trichloroethane	12/08/2010	09:08	70-135	536		500	107	
1,1,2,2-Tetrachloroethane	12/08/2010	09:08	55-130	477		500	95	
1,1,2-Trichloroethane	12/08/2010	09:08	60-125	488		500	98	
1,1-Dichloroethane	12/08/2010	09:08	75-125	515		500	103	
1,1-Dichloroethene	12/08/2010	09:08	65-135	505		500	101	
1,2-Dibromoethane	12/08/2010	09:08	70-125	491		500	98	
1,2-Dichloroethane	12/08/2010	09:08	70-135	496		500	99	
1,2-Dichloropropane	12/08/2010	09:08	70-120	490		500	98	
2-Butanone	12/08/2010	09:08	30-160	4090		5000	82	
2-Hexanone	12/08/2010	09:08	45-145	4360		5000	87	
4-Methyl-2-pentanone	12/08/2010	09:08	45-145	4620		5000	92	
Acetone	12/08/2010	09:08	20-160	3880		5000	78	
Benzene	12/08/2010	09:08	75-125	516		500	103	
Bromochloromethane	12/08/2010	09:08	70-125	540		500	108	
Bromodichloromethane	12/08/2010	09:08	70-130	503		500	101	
Bromoform	12/08/2010	09:08	55-135	440		500	88	
Bromomethane	12/08/2010	09:08	30-160	624		500	125	
Carbon disulfide	12/08/2010	09:08	45-160	858		1000	86	
Carbon tetrachloride	12/08/2010	09:08	65-135	524		500	105	
Chlorobenzene	12/08/2010	09:08	75-125	497		500	99	
Chloroethane	12/08/2010	09:08	40-155	1650		500	330	*FAIL*
Chloroform	12/08/2010	09:08	70-125	526		500	105	
Chloromethane	12/08/2010	09:08	50-130	573		500	115	
cis-1,2-Dichloroethene	12/08/2010	09:08	65-125	514		500	103	
cis-1,3-Dichloropropene	12/08/2010	09:08	70-125	485		500	97	
Dibromochloromethane	12/08/2010	09:08	65-130	469		500	94	
Ethylbenzene	12/08/2010	09:08	75-125	503		500	101	
m & p-Xylene	12/08/2010	09:08	80-125	1020		1000	102	
Methylene chloride	12/08/2010	09:08	55-140	446		500	89	

CT LABORATORIES
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3B

Sample Description

LCS

SOIL VOLATILE LAB CONTROL SAMPLE

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

Sample No.: 878680 SDG No.: 82743

Analytical Method: EPA 8260B Concentration Units: ug/kg

Analytical Run #: 72301 Sample No.: 878680 Parent Sample No.: 0

Analytical Prep Batch #: 35675 Analytical Preparation Date/Time: 12/07/2010 11:10

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
o-Xylene	12/08/2010	09:08	75-125	484		500	97
Styrene	12/08/2010	09:08	75-125	501		500	100
Tetrachloroethene	12/08/2010	09:08	65-140	524		500	105
Toluene	12/08/2010	09:08	70-125	529		500	106
trans-1,2-Dichloroethene	12/08/2010	09:08	65-135	507		500	101
trans-1,3-Dichloropropene	12/08/2010	09:08	65-125	478		500	96
Trichloroethene	12/08/2010	09:08	75-125	518		500	104
Trichlorofluoromethane	12/08/2010	09:08	25-185	474		500	95
Vinyl chloride	12/08/2010	09:08	65-125	563		500	113

Spike Recovery: 1 out of 38 outside limits

CT LABORATORIES
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4A

VOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Sample ID:	878679	SDG No.:	82743
Matrix:	SOLID	Date Extracted:	12/07/2010
Date Analyzed:	12/08/2010	Time Analyzed:	09:47
Analytical Method:	EPA 8260B	Extraction Method:	SW5035
Analytical Run #:	72301	Extraction Batch #:	35675

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	LCSS	878680	12/08/2010 09:08
2	MBS	878679	12/08/2010 09:47
3	DAASS-043-0001-SO	877662	12/08/2010 10:26
4	DLASS-033-0001-SO	877667	12/08/2010 11:04
5	DLASS-043-0001-SO	877668	12/08/2010 11:44
6	DLASS-003-0001-SO	877669	12/08/2010 12:22
7	DLASS-003-0002-SO	877670	12/08/2010 13:01
8	DLASS-023-0001-SO	877671	12/08/2010 13:40
9	DLASS-015-0001-SO	877672	12/08/2010 14:18
10	DAASS-042-0001-SO	877663	12/08/2010 18:50
11	DLASS-003-0001-SOMSS	878681	12/09/2010 14:59
12	DLASS-003-0001-SOMSDS	878682	12/09/2010 15:37

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : CT Laboratories Contract: USACE - LOUISVILLE

SDG # : 82743 Site: Location: RAVENNA Group:

Lab File ID: BFB1.D BFB Injection Date: 12/08/10

Instrument ID: VMS1 BFB Injection Time: 7:34

GC Column: ZB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15 - 40.0% of mass 95	16.6
75	30.0 - 60.0% of mass 95	43.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0
174	50.0 - 100.0% of mass 95	94.4
175	5.0 - 9.0% of mass 174	7.0
176	95.0 - 101.0% of mass 174	100.5
177	5.0 - 9.0% of mass 176	5.9

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
CONT. CALIB. VERIFICATION	CCV	CCV1 .D	12/08/10	8:29
LABORATORY CONT SAMPLE	878680	LCS1 .D	12/08/10	9:08
METHOD BLANK	878679	MB1 .D	12/08/10	9:47
ASTU5-VOC-B	877662	877662 .D	12/08/10	10:26
DLASS-033-0001-SO	877667	877667 .D	12/08/10	11:04
DLASS-043-0001-SO	877668	877668 .D	12/08/10	11:44
DLASS-003-0001-SO	877669	877669 .D	12/08/10	12:22
DLASS-003-0002-SO	877670	877670 .D	12/08/10	13:01
DLASS-023-0001-SO	877671	877671 .D	12/08/10	13:40
DLASS-015-0001-SO	877672	877672 .D	12/08/10	14:18
ASTU5-VOC-S	877663	877663 .D	12/08/10	18:50

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : CT Laboratories Contract: USACE - LOUISVILLE

SDG # : 82743 Site: Location: RAVENNA Group:

Lab File ID: BFB2.D BFB Injection Date: 12/09/10

Instrument ID: VMS1 BFB Injection Time: 7:34

GC Column: ZB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15 - 40.0% of mass 95	16.5
75	30.0 - 60.0% of mass 95	43.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0
174	50.0 - 100.0% of mass 95	98.2
175	5.0 - 9.0% of mass 174	7.2
176	95.0 - 101.0% of mass 174	96.8
177	5.0 - 9.0% of mass 176	6.4

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
CONT. CALIB. VERIFICATION	CCV	CCV2 .D	12/09/10	8:30
CONT. CALIB. BLANK	CCB	CCB1 .D	12/09/10	9:08
CONT. CALIB. VERIFICATION	CCV	CCV3 .D	12/09/10	10:26
MATRIX SPIKE	878681	877669MS .D	12/09/10	14:59
MATRIX SPIKE DUP	878682	877669SD .D	12/09/10	15:37

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): CALS4.D Date Analyzed : 2 Dec 2010
Instrument ID : VMS1 Time Analyzed : 19:08
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS1		IS2		IS3	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	1012593	9.92	755657	16.93	412492	23.18
UPPER LIMIT	2025186	10.42	1511314	17.43	824984	23.68
LOWER LIMIT	506297	9.42	377829	16.43	206246	22.68
File ID Sample						
877662 72301,877	1089805	9.93	894904	16.92	460615	23.18
877663 72301,877	1061219	9.93	856606	16.91	462376	23.16
877667 72301,877	1097142	9.93	896866	16.93	478718	23.17
877668 72301,877	1080123	9.94	896870	16.93	479322	23.18
877669 72301,877	1104045	9.93	899455	16.92	478615	23.18
877669MS 72301,MSS	938909	9.96	726433	16.97	396186	23.22
877669SD 72301,MSD	959283	9.97	744096	16.96	403632	23.22
877670 72301,877	1071408	9.93	886593	16.93	475097	23.18
877671 72301,877	1060095	9.93	858980	16.93	465988	23.18
877672 72301,877	1066929	9.93	870229	16.92	462866	23.17
CCB1 72301,CCB	1105618	9.95	907664	16.94	473701	23.19
CCV1 72301,CCV	1096584	9.93	893337	16.93	508953	23.18
CCV2 72301,CCV	1105216	9.94	950212	16.94	511125	23.19
CCV3 72301,CCV	890444	9.94	737510	16.95	377853	23.20
LCS1 72301,LCS	1158162	9.94	909038	16.93	502387	23.18
MB1 72301,MBS	1017428	9.93	839358	16.93	449935	23.18

IS1 = FLUOROBENZENE**ISTD**
IS2 = d5-CHLOROBENZENE**ISTD**
IS3 = d4-1,4-DICHLOROBENZENE**ISTD**

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

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

VOLATILE ORGANIC ANALYSIS
SAMPLE DATA
DOCUMENTS

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877662.D Vial: 6
Acq On : 8 Dec 2010 10:26 Operator: APG
Sample : 72301,877662,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 10:57 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.93	96	1089805	1.00	mg/kg	0.00 NA%
66) d5-CHLOROBENZENE**ISTD**	16.92	117	894904	1.00	mg/kg	0.00 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.18	152	460615	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
42) SURRDibrflma	8.65	113	373921	0.992	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 121		Recovery = 104 %			
45) SURR12DCAd4	9.29	102	88555	0.991	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 119		Recovery = 104 %			
59) SURRd8Tolule	13.40	98	1061924	1.003	mg/kg	0.00
Spiked Amount 0.950	Range 84 - 126		Recovery = 106 %			
81) SURR4BrFBenz	20.04	95	388132	0.967	mg/kg	0.00
Spiked Amount 0.950	Range 88 - 128		Recovery = 102 %			
Target Compounds						Qvalue
2) Dichlorodi	1.91	85	1340	N.D.		
3) Chloromethan	2.16	50	3502	Below	Cal #	40
4) Vinylchlorid	2.42	62	1298	N.D.		
5) Bromomethane	2.83	94	12352	Below	Cal #	49
6) Chloroethane	2.88	64	1948	Below	Cal #	22
7) Trichlorofma	3.40	101	1548	Below	Cal #	70
8) Dichloroflmethane	3.34	67	1372	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.55	43	9693	Below	Cal	98
16) Iodomethane	4.59	142	5116	0.2392	mg/kg#	90
17) Carbon Dislf	4.66	76	3832	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	5.12	74	8170	0.0524	mg/kg	88
20) Methylchlorid	5.26	84	59831	Below	Cal	91
21) t12dichlorte	0.00	96	0	N.D.		
22) tbutylalcohol	5.66	59	1729	N.D.		
23) MtBE	0.00	73	0	N.D.		
24) Acrylonitrile	0.00	53	0	N.D.		
25) Hexane	6.17	57	3304	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	7.76	43	4799	N.D.		
34) Ethylacetate	7.76	43	3767	Below	Cal #	60
35) propionitrile	0.00	54	0	N.D.		
36) Bromochlorma	0.00	128	0	N.D.		
37) methacrylonitrile	0.00	67	0	N.D.		
38) tetrahydofur	8.22	42	1146	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877662.D Vial: 6
Acq On : 8 Dec 2010 10:26 Operator: APG
Sample : 72301,877662,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 10:57 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	0.00	83	0	N.D.	
40) 111trichlota	0.00	97	0	N.D.	
41) Cyclohexane	8.60	56	5953	0.0148 mg/kg	96
43) Carbtetraclo	0.00	119	0	N.D.	
44) 11dicloprope	0.00	110	0	N.D.	
46) Benzene	9.31	78	5962	0.0052 mg/kg#	1
47) 12dichlorota	0.00	62	0	N.D.	
48) TAME	0.00	73	0	N.D.	
49) Trichloroete	0.00	95	0	N.D.	
50) methylcyclohexane	11.00	83	22874	0.0532 mg/kg	95
51) 12dicloropra	0.00	63	0	N.D.	
52) 23Dicl1propene	0.00	75	0	N.D.	
53) Dibromometha	0.00	93	0	N.D.	
54) methylmethacrylate	0.00	69	0	N.D.	
55) Bromodiclrma	11.87	83	1050	N.D.	
56) 2CLEVE	0.00	63	0	N.D.	
57) c13dicloproe	0.00	75	0	N.D.	
58) 4Meth2pentan	13.25	43	1347	N.D.	
60) Toluene	13.55	92	12405	0.0166 mg/kg	94
61) t13Dicloprop	0.00	75	0	N.D.	
62) ethylmethacrylate	0.00	69	0	N.D.	
63) 112Triclotha	0.00	83	0	N.D.	
64) Tetrachlorte	0.00	166	0	N.D.	
65) 13Diclorpropa	0.00	76	0	N.D.	
67) 2Hexanone	15.31	43	1964	N.D.	
68) Clorodibrmta	0.00	129	0	N.D.	
69) 12Dibrometha	0.00	107	0	N.D.	
70) 1Clhexane	16.91	55	8313	Below Cal #	66
71) Chlorobenzen	0.00	112	0	N.D.	
72) 1112tetclota	0.00	131	0	N.D.	
73) Ethylbenzene	17.29	91	12653	0.0086 mg/kg	96
74) m p-Xylene	17.59	106	13827	0.0241 mg/kg	97
75) o-Xylene	18.63	106	11839	0.0209 mg/kg	89
76) Styrene	0.00	104	0	N.D.	
77) Bromoform	0.00	173	0	N.D.	
78) Isopropylben	19.60	105	9192	N.D.	
80) cyclohexanone	19.99	55	1129	N.D.	
82) Bromobenzene	0.00	156	0	N.D.	
83) 1122Tetrclta	0.00	83	0	N.D.	
84) 123triclproa	0.00	75	0	N.D.	
85) n-Propylbenz	20.72	91	11265	N.D.	
86) 14dichloro2butene	0.00	75	0	N.D.	
87) 2chlorotolue	20.98	91	1023	N.D.	
88) 4chlorotolue	21.23	91	1175	N.D.	
89) 135Trimebenz	21.23	105	4628	N.D.	
90) tbutylbenzen	0.00	119	0	N.D.	
91) 124Trimetben	22.24	105	17012	0.0170 mg/kg	92
92) sbutylbenzen	22.69	105	3301	N.D.	
93) 13Diclorbenz	0.00	146	0	N.D.	
94) pIsopropylto	23.14	119	3620	N.D.	
95) 14dichlorobe	23.18	146	1113	N.D.	
96) 12dichlorobe	0.00	146	0	N.D.	
97) nButylbenzen	24.27	91	4516	N.D.	
98) 12dibromo3cl	0.00	157	0	N.D.	
99) 135Trichlorobenzene	0.00	180	0	N.D.	
100) 124trichlobe	0.00	180	0	N.D.	
101) Hexachlorobu	0.00	225	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877662.D Vial: 6
Acq On : 8 Dec 2010 10:26 Operator: APG
Sample : 72301,877662,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 10:57 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

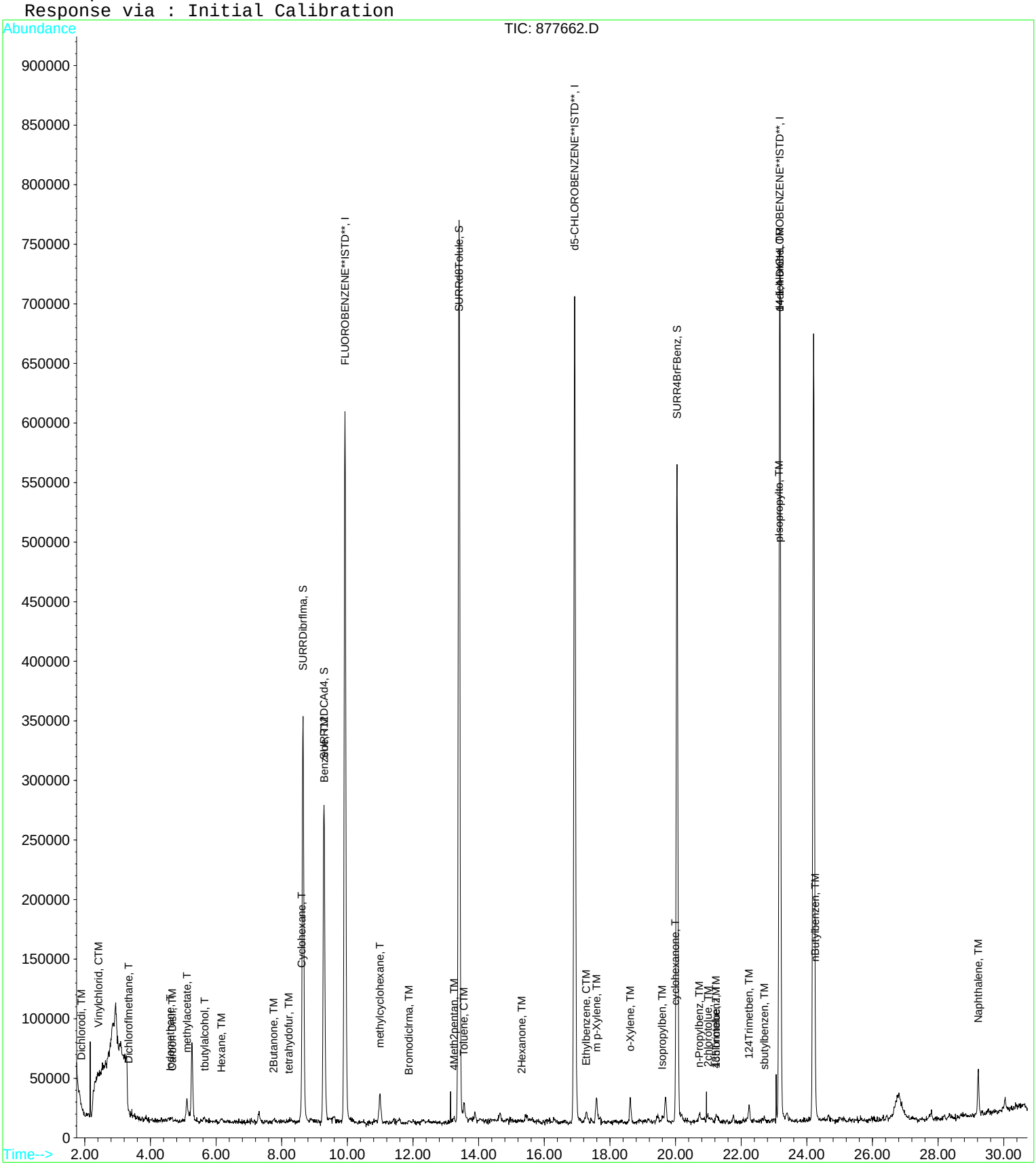
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Naphthalene	29.23	128	54865	0.0463	mg/kg	97
103) 123Trichlben	0.00	180	0	N.D.		

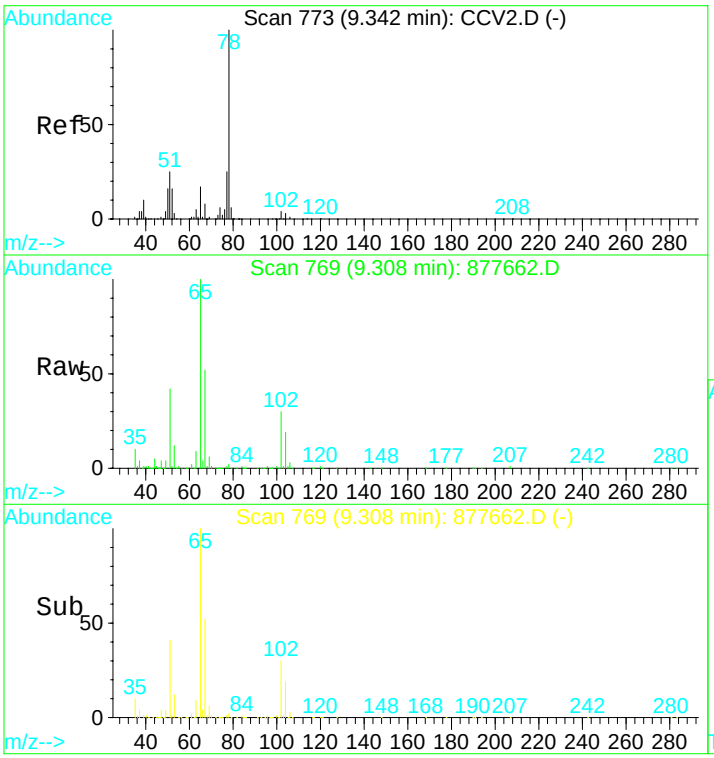
(#) = qualifier out of range (m) = manual integration
877662.D PS120210.M Thu Dec 09 08:15:24 2010

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877662.D Vial: 6
Acq On : 8 Dec 2010 10:26 Operator: APG
Sample : 72301,877662,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 10:57 2010 Quant Results File: PS120210.RES

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration

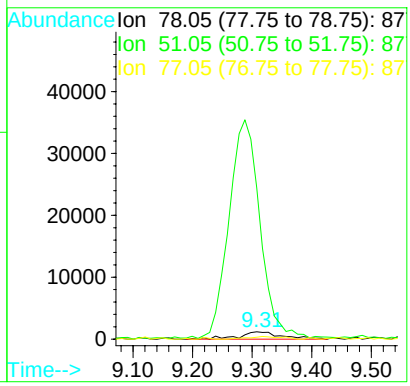


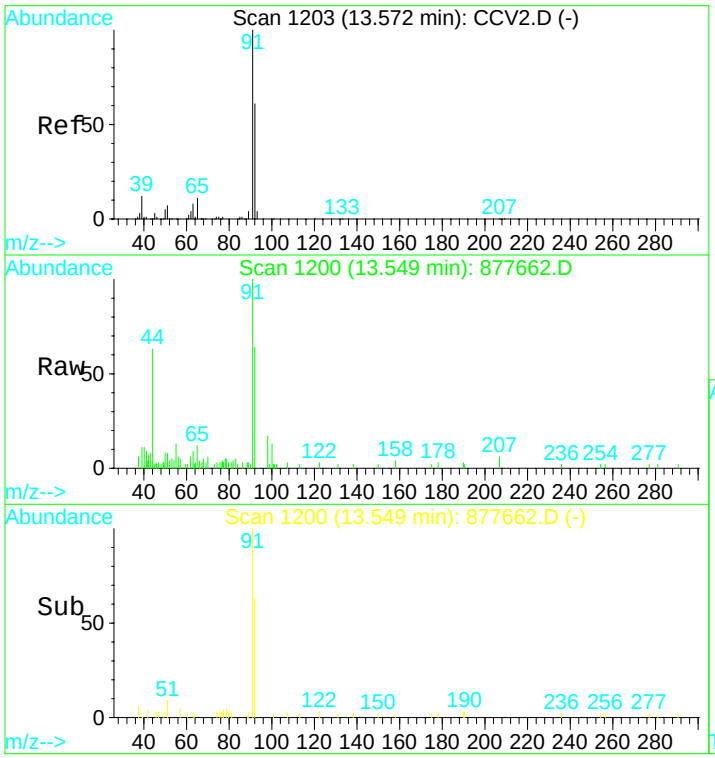


#46
Benzene
Concen: 0.01 mg/kg
RT: 9.31 min Scan# 769
Delta R.T. -0.01 min
Lab File: 877662.D
Acq: 8 Dec 2010 10:26

Tgt Ion: 78 Resp: 5962

Ion	Ratio	Lower	Upper
78	100		
51	2133.4	16.3	56.3#
77	27.9	3.8	43.8

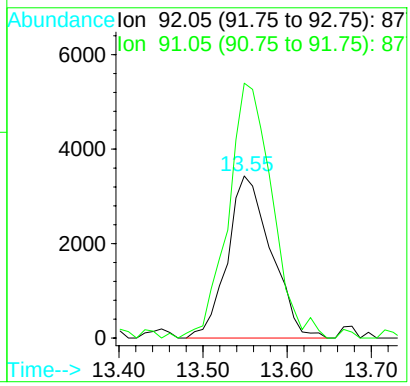


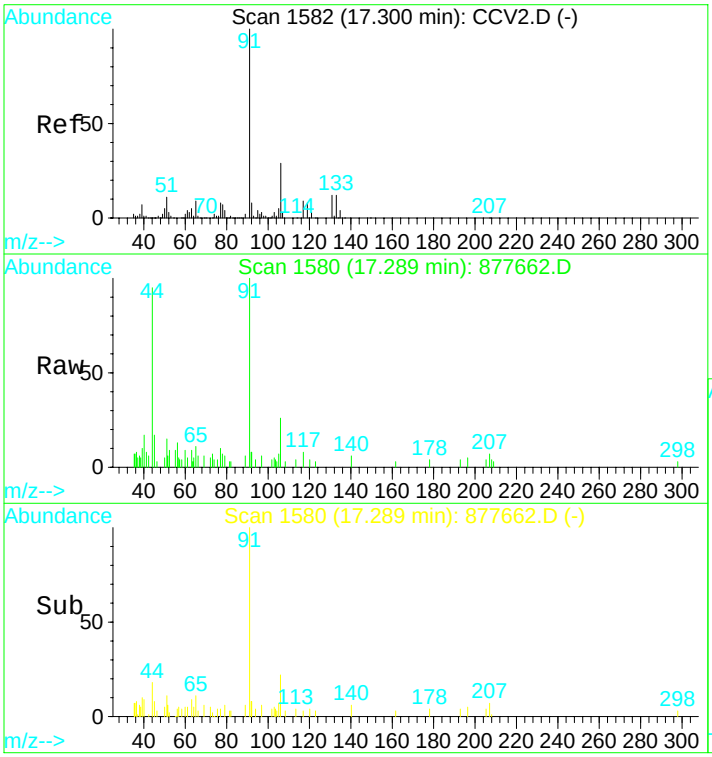


#60
Toluene
Concen: 0.02 mg/kg
RT: 13.55 min Scan# 1200
Delta R.T. -0.01 min
Lab File: 877662.D
Acq: 8 Dec 2010 10:26

Tgt Ion: 92 Resp: 12405

Ion	Ratio	Lower	Upper
92	100		
91	157.5	146.0	186.0

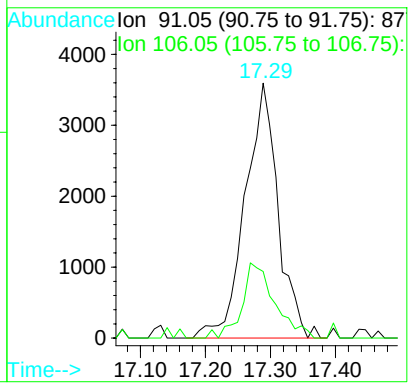


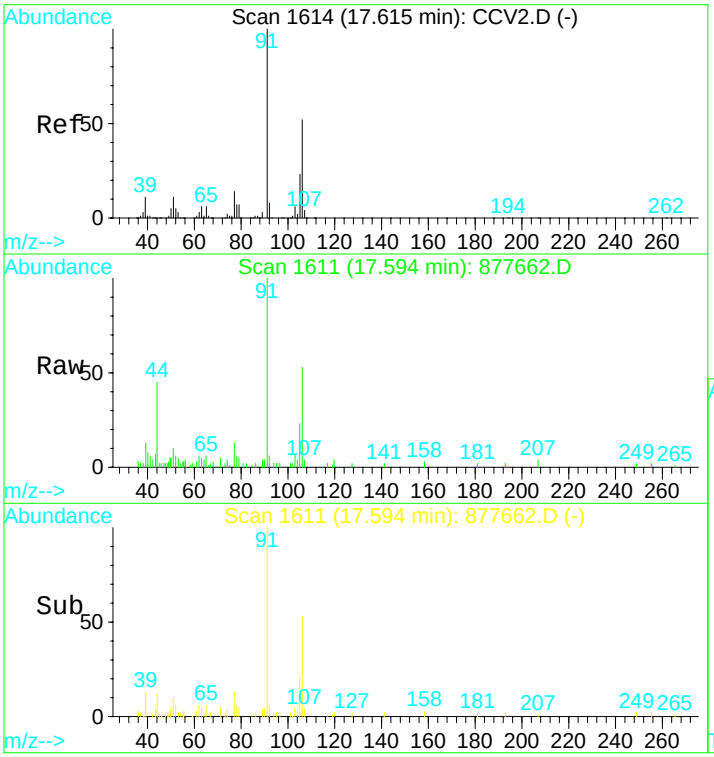


#73
Ethylbenzene
Concen: 0.01 mg/kg
RT: 17.29 min Scan# 1580
Delta R.T. -0.01 min
Lab File: 877662.D
Acq: 8 Dec 2010 10:26

Tgt Ion: 91 Resp: 12653

Ion	Ratio	Lower	Upper
91	100		
106	29.2	11.4	51.4

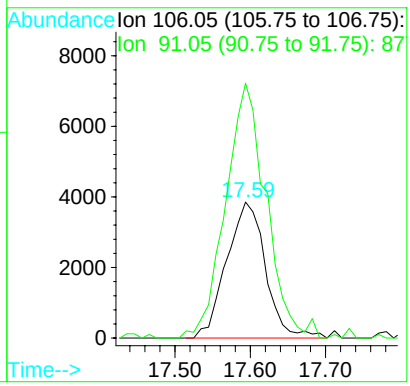


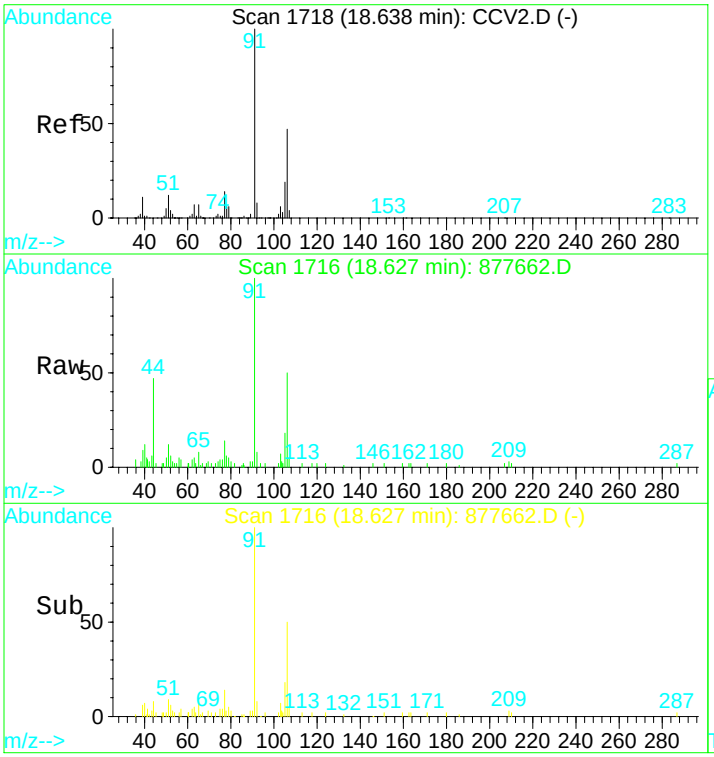


#74
m p-Xylene
Concen: 0.02 mg/kg
RT: 17.59 min Scan# 1611
Delta R.T. -0.01 min
Lab File: 877662.D
Acq: 8 Dec 2010 10:26

Tgt Ion:106 Resp: 13827

Ion	Ratio	Lower	Upper
106	100		
91	195.4	171.4	211.4

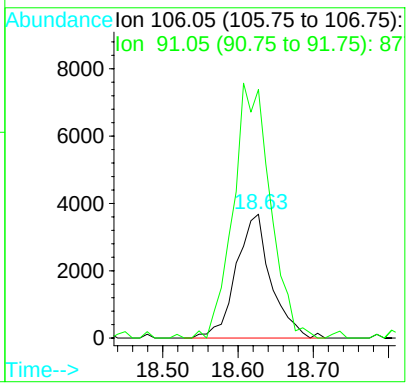




#75
o-Xylene
Concen: 0.02 mg/kg
RT: 18.63 min Scan# 1716
Delta R.T. 0.00 min
Lab File: 877662.D
Acq: 8 Dec 2010 10:26

Tgt Ion:106 Resp: 11839

Ion	Ratio	Lower	Upper
106	100		
91	219.2	182.2	222.2



Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877667.D Vial: 7
Acq On : 8 Dec 2010 11:04 Operator: APG
Sample : 72301,877667,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 11:35 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.93	96	1097142	1.00	mg/kg	0.00 NA%
66) d5-CHLOROBENZENE**ISTD**	16.93	117	896866	1.00	mg/kg	0.00 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.17	152	478718	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
42) SURRDibrflma	8.65	113	375942	0.991	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 121		Recovery = 104 %			
45) SURR12DCAd4	9.29	102	88803	0.987	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 119		Recovery = 104 %			
59) SURRd8Tolule	13.40	98	1092199	1.025	mg/kg	0.00
Spiked Amount 0.950	Range 84 - 126		Recovery = 108 %			
81) SURR4BrFBenz	20.05	95	401381	0.962	mg/kg	0.00
Spiked Amount 0.950	Range 88 - 128		Recovery = 101 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.18	50	1059	Below	Cal #	40
4) Vinylchlorid	2.40	62	1508	N.D.		
5) Bromomethane	2.86	94	11401	Below	Cal #	42
6) Chloroethane	3.05	64	5661	N.D.		
7) Trichlorofma	0.00	101	0	N.D.		
8) Dichloroflmethane	0.00	67	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	4.26	56	1415	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.58	43	9321	Below	Cal	81
16) Iodomethane	4.60	142	4545	0.2381	mg/kg#	89
17) Carbon Dislf	4.67	76	4606	N.D.		
18) allylchloride	5.08	41	9746	N.D.		
19) methylacetate	5.13	74	9275	0.0606	mg/kg	96
20) Methylchlorid	5.26	84	58050	Below	Cal	97
21) t12dichlorte	0.00	96	0	N.D.		
22) tbutylalcohol	0.00	59	0	N.D.		
23) MtBE	0.00	73	0	N.D.		
24) Acrylonitrile	0.00	53	0	N.D.		
25) Hexane	6.15	57	3480	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	6.62	43	1548	0.2521	mg/kg#	71
28) chloroprene	6.60	53	1197	N.D.		
29) Diisopether	6.60	45	1008	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	7.76	43	9209	N.D.		
34) Ethylacetate	7.95	43	2028	Below	Cal #	64
35) propionitrile	0.00	54	0	N.D.		
36) Bromochlorma	0.00	128	0	N.D.		
37) methacrylonitrile	0.00	67	0	N.D.		
38) tetrahydofur	8.25	42	2901	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877667.D Vial: 7
Acq On : 8 Dec 2010 11:04 Operator: APG
Sample : 72301,877667,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 11:35 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	0.00	83	0	N.D.	
40) 111trichlota	0.00	97	0	N.D.	
41) Cyclohexane	8.60	56	11790	0.0291 mg/kg	95
43) Carbtetraclo	0.00	119	0	N.D.	
44) 11dicloprope	0.00	110	0	N.D.	
46) Benzene	0.00	78	0	N.D.	
47) 12dichlorota	0.00	62	0	N.D.	
48) TAME	0.00	73	0	N.D.	
49) Trichloroete	0.00	95	0	N.D.	
50) methylcyclohexane	10.99	83	90339	0.2088 mg/kg	95
51) 12dicloropra	0.00	63	0	N.D.	
52) 23Dicl1propene	0.00	75	0	N.D.	
53) Dibromometha	0.00	93	0	N.D.	
54) methylmethacrylate	11.60	69	2998	0.0119 mg/kg#	36
55) Bromodiclrma	0.00	83	0	N.D.	
56) 2CLEVE	0.00	63	0	N.D.	
57) c13dicloproe	0.00	75	0	N.D.	
58) 4Meth2pentan	13.26	43	1759	N.D.	
60) Toluene	13.54	92	4496	N.D.	
61) t13Dicloprop	0.00	75	0	N.D.	
62) ethylmethacrylate	14.48	69	1491	N.D.	
63) 112Triclotha	0.00	83	0	N.D.	
64) Tetrachlorte	0.00	166	0	N.D.	
65) 13Diclorpropa	0.00	76	0	N.D.	
67) 2Hexanone	15.26	43	2796	N.D.	
68) Clorodibrmta	0.00	129	0	N.D.	
69) 12Dibrometha	0.00	107	0	N.D.	
70) 1Clhexane	16.92	55	8017	Below Cal #	56
71) Chlorobenzen	0.00	112	0	N.D.	
72) 1112tetclota	0.00	131	0	N.D.	
73) Ethylbenzene	17.29	91	5574	N.D.	
74) m p-Xylene	17.58	106	9417	N.D.	
75) o-Xylene	18.62	106	9091	0.0160 mg/kg	93
76) Styrene	0.00	104	0	N.D.	
77) Bromoform	0.00	173	0	N.D.	
78) Isopropylben	19.60	105	7606	N.D.	
80) cyclohexanone	20.01	55	1268	N.D.	
82) Bromobenzene	0.00	156	0	N.D.	
83) 1122Tetrclta	0.00	83	0	N.D.	
84) 123triclproa	0.00	75	0	N.D.	
85) n-Propylbenz	20.71	91	7558	N.D.	
86) 14dichloro2butene	0.00	75	0	N.D.	
87) 2chlorotolue	20.93	91	1005	N.D.	
88) 4chlorotolue	21.26	91	13084	0.0124 mg/kg#	41
89) 135Trimebenz	21.24	105	14794	N.D.	
90) tbutylbenzen	0.00	119	0	N.D.	
91) 124Trimetben	22.24	105	27938	0.0268 mg/kg	90
92) sbutylbenzen	22.70	105	5382	N.D.	
93) 13Diclorbenz	0.00	146	0	N.D.	
94) pIsopropylto	23.15	119	8309	N.D.	
95) 14dichlorobe	0.00	146	0	N.D.	
96) 12dichlorobe	0.00	146	0	N.D.	
97) nButylbenzen	24.29	91	8128	N.D.	
98) 12dibromo3cl	0.00	157	0	N.D.	
99) 135Trichlorobenzene	0.00	180	0	N.D.	
100) 124trichlobe	0.00	180	0	N.D.	
101) Hexachlorobu	0.00	225	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877667.D Vial: 7
Acq On : 8 Dec 2010 11:04 Operator: APG
Sample : 72301,877667,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 11:35 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

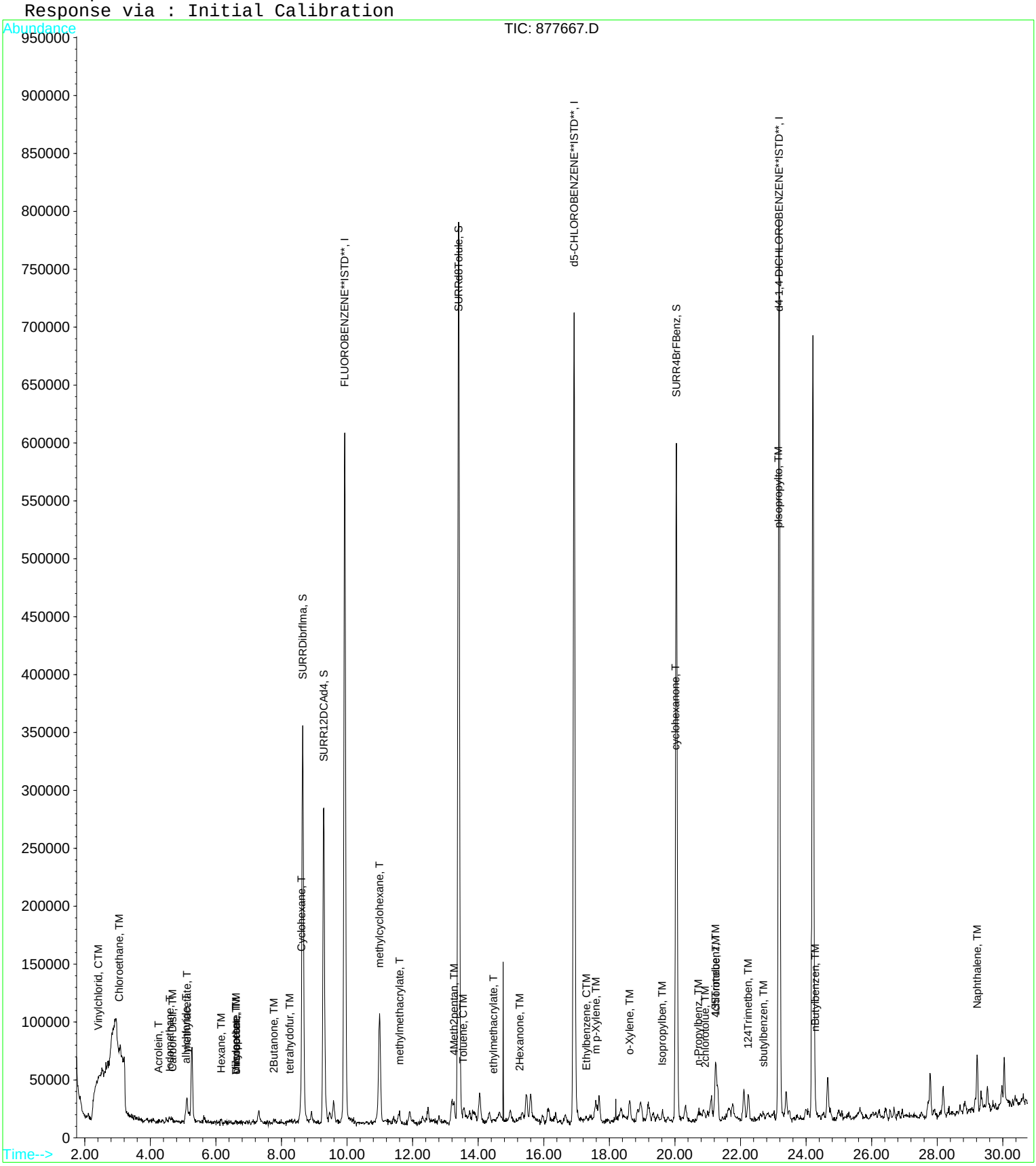
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Naphthalene	29.23	128	67385	0.0547 mg/kg	97
103) 123Trichlben	0.00	180	0	N.D.	

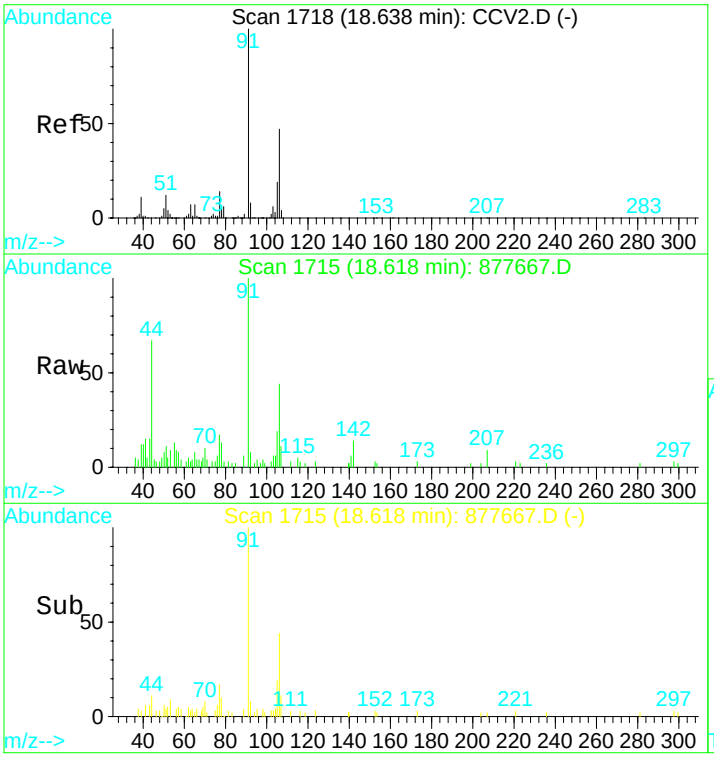
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877667.D Vial: 7
Acq On : 8 Dec 2010 11:04 Operator: APG
Sample : 72301,877667,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 11:35 2010 Quant Results File: PS120210.RES

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration

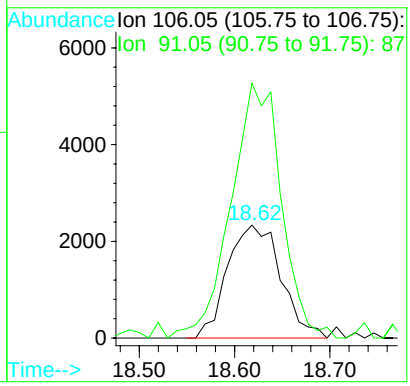




#75
o-Xylene
Concen: 0.02 mg/kg
RT: 18.62 min Scan# 1715
Delta R.T. -0.00 min
Lab File: 877667.D
Acq: 8 Dec 2010 11:04

Tgt Ion:106 Resp: 9091

Ion	Ratio	Lower	Upper
106	100		
91	213.1	182.2	222.2



Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877668.D Vial: 8
Acq On : 8 Dec 2010 11:44 Operator: APG
Sample : 72301,877668,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 12:15 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.94	96	1080123	1.00	mg/kg	0.01 NA%
66) d5-CHLOROBENZENE**ISTD**	16.93	117	896870	1.00	mg/kg	0.00 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.18	152	479322	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
42) SURRDibrflma	8.66	113	376651	1.008	mg/kg	0.01
Spiked Amount 0.950	Range 77 - 121		Recovery = 106 %			
45) SURR12DCAd4	9.30	102	89687	1.013	mg/kg	0.01
Spiked Amount 0.950	Range 77 - 119		Recovery = 107 %			
59) SURRd8Tolule	13.41	98	1073964	1.024	mg/kg	0.01
Spiked Amount 0.950	Range 84 - 126		Recovery = 108 %			
81) SURR4BrFBenz	20.04	95	398063	0.953	mg/kg	0.00
Spiked Amount 0.950	Range 88 - 128		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.25	50	2047	Below	Cal #	5
4) Vinylchlorid	0.00	62	0	N.D.		
5) Bromomethane	2.85	94	9867	Below	Cal #	57
6) Chloroethane	2.95	64	3306	Below	Cal #	1
7) Trichlorofma	0.00	101	0	N.D.		
8) Dichloroflmethane	0.00	67	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.56	43	5666	Below	Cal	90
16) Iodomethane	4.59	142	1865	0.2333	mg/kg#	44
17) Carbon Dislf	4.67	76	2635	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	5.14	74	9906	0.0668	mg/kg	95
20) Methylchlorid	5.27	84	63483	Below	Cal	97
21) t12dichlorte	0.00	96	0	N.D.		
22) tbutylalcohol	0.00	59	0	N.D.		
23) MtBE	0.00	73	0	N.D.		
24) Acrylonitrile	0.00	53	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	6.58	43	1416	0.2519	mg/kg#	71
28) chloroprene	6.69	53	1311	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	7.78	43	4153	N.D.		
34) Ethylacetate	7.78	43	3966	Below	Cal #	64
35) propionitrile	0.00	54	0	N.D.		
36) Bromochlorma	0.00	128	0	N.D.		
37) methacrylonitrile	0.00	67	0	N.D.		
38) tetrahydofur	8.28	42	2393	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877668.D Vial: 8
Acq On : 8 Dec 2010 11:44 Operator: APG
Sample : 72301,877668,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 12:15 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
41)	Cyclohexane	8.67	56	1573	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	Trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	10.99	83	2058	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23Dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	Bromodiclrma	0.00	83	0	N.D.	
56)	2CLEVE	0.00	63	0	N.D.	
57)	c13dicloproe	0.00	75	0	N.D.	
58)	4Meth2pentan	13.27	43	1295	N.D.	
60)	Toluene	13.58	92	1013	N.D.	
61)	t13Dicloprop	0.00	75	0	N.D.	
62)	ethylmethacrylate	14.43	69	1048	N.D.	
63)	112Triclotha	0.00	83	0	N.D.	
64)	Tetrachlorte	0.00	166	0	N.D.	
65)	13Diclorpropa	0.00	76	0	N.D.	
67)	2Hexanone	0.00	43	0	N.D.	
68)	Clorodibrmta	0.00	129	0	N.D.	
69)	12Dibrometha	0.00	107	0	N.D.	
70)	1Clhexane	16.92	55	6594	Below Cal # 62	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1112tetclota	0.00	131	0	N.D.	
73)	Ethylbenzene	0.00	91	0	N.D.	
74)	m p-Xylene	0.00	106	0	N.D.	
75)	o-Xylene	0.00	106	0	N.D.	
76)	Styrene	0.00	104	0	N.D.	
77)	Bromoform	0.00	173	0	N.D.	
78)	Isopropylben	19.62	105	2212	N.D.	
80)	cyclohexanone	0.00	55	0	N.D.	
82)	Bromobenzene	0.00	156	0	N.D.	
83)	1122Tetrclta	0.00	83	0	N.D.	
84)	123triclproa	0.00	75	0	N.D.	
85)	n-Propylbenz	0.00	91	0	N.D.	
86)	14dichloro2butene	0.00	75	0	N.D.	
87)	2chlorotolue	0.00	91	0	N.D.	
88)	4chlorotolue	0.00	91	0	N.D.	
89)	135Trimebenz	0.00	105	0	N.D.	
90)	tbutylbenzen	0.00	119	0	N.D.	
91)	124Trimetben	22.24	105	1391	N.D.	
92)	sbutylbenzen	0.00	105	0	N.D.	
93)	13Diclorbenz	0.00	146	0	N.D.	
94)	pIsopropylto	23.12	119	1002	N.D.	
95)	14dichlorobe	0.00	146	0	N.D.	
96)	12dichlorobe	0.00	146	0	N.D.	
97)	nButylbenzen	0.00	91	0	N.D.	
98)	12dibromo3cl	0.00	157	0	N.D.	
99)	135Trichlorobenzene	0.00	180	0	N.D.	
100)	124trichlobe	0.00	180	0	N.D.	
101)	Hexachlorobu	0.00	225	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877668.D Vial: 8
Acq On : 8 Dec 2010 11:44 Operator: APG
Sample : 72301,877668,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 12:15 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

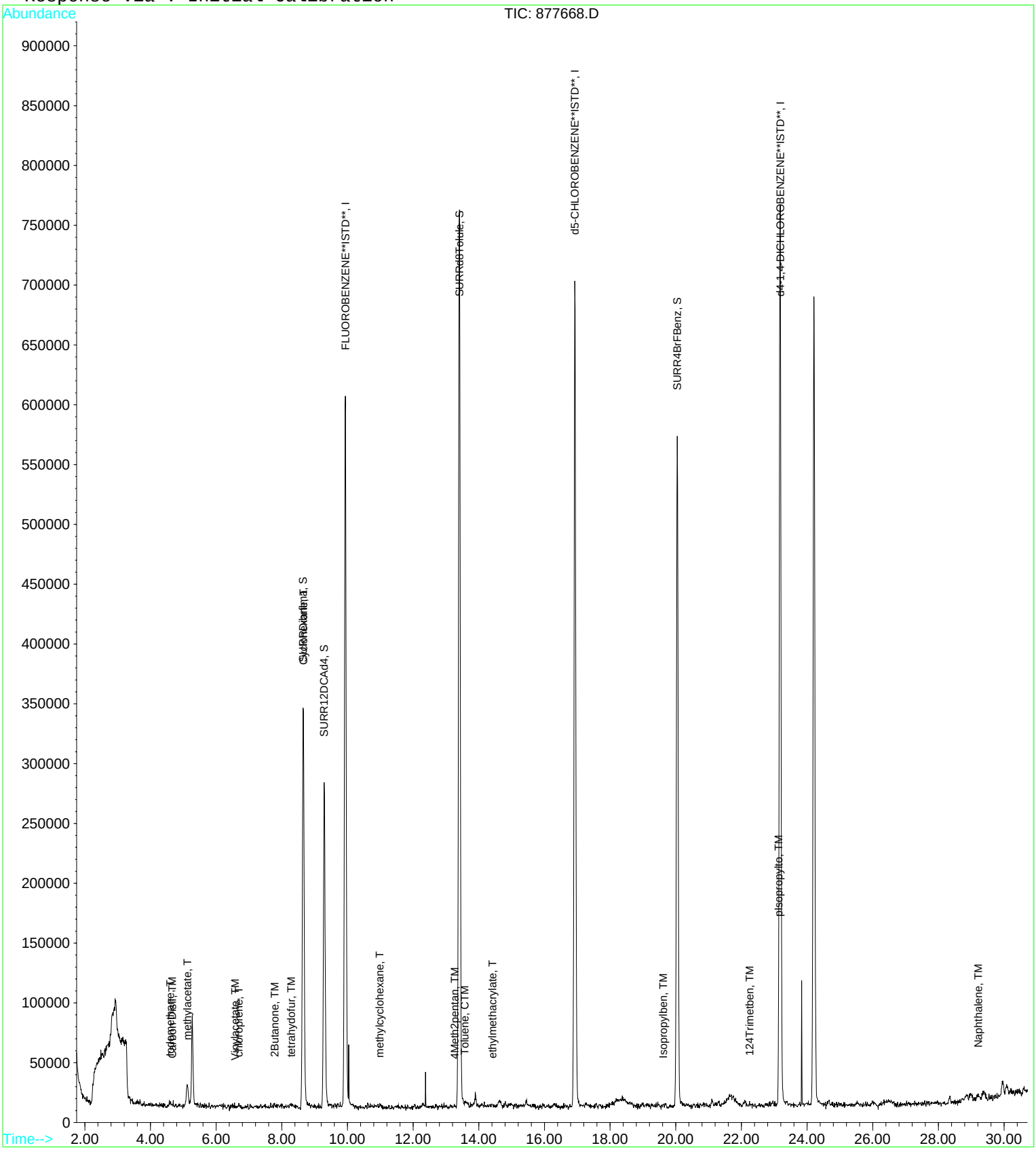
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Naphthalene	29.23	128	3503	N.D.	
103) 123Trichlben	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration
877668.D PS120210.M Thu Dec 09 08:17:54 2010

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877668.D Vial: 8
Acq On : 8 Dec 2010 11:44 Operator: APG
Sample : 72301,877668,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 12:15 2010 Quant Results File: PS120210.RES

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration



Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877669.D Vial: 9
Acq On : 8 Dec 2010 12:22 Operator: APG
Sample : 72301,877669,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 12:53 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.93	96	1104045	1.00 mg/kg	0.00 NA%
66) d5-CHLOROBENZENE**ISTD**	16.92	117	899455	1.00 mg/kg	0.00 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.18	152	478615	1.00 mg/kg	0.00 NA%
System Monitoring Compounds					
42) SURRDibrflma	8.65	113	382783	1.002 mg/kg	0.00
Spiked Amount 0.950	Range 77 - 121		Recovery = 105 %		
45) SURR12DCAd4	9.29	102	87208	0.963 mg/kg	0.00
Spiked Amount 0.950	Range 77 - 119		Recovery = 101 %		
59) SURRd8Tolule	13.40	98	1086938	1.014 mg/kg	0.00
Spiked Amount 0.950	Range 84 - 126		Recovery = 107 %		
81) SURR4BrFBenz	20.04	95	385689	0.925 mg/kg	0.00
Spiked Amount 0.950	Range 88 - 128		Recovery = 97 %		
Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.20	50	1663	Below Cal #	40
4) Vinylchlorid	0.00	62	0	N.D.	
5) Bromomethane	2.87	94	9943	Below Cal #	60
6) Chloroethane	2.85	64	5325	N.D.	
7) Trichlorofma	0.00	101	0	N.D.	
8) Dichloroflmethane	0.00	67	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.50	43	2375	Below Cal #	43
16) Iodomethane	4.60	142	4728	0.2384 mg/kg#	84
17) Carbon Dislf	4.65	76	3059	N.D.	
18) allylchloride	4.95	41	1212	N.D.	
19) methylacetate	5.12	74	6860	0.0413 mg/kg	95
20) Methylchlorid	5.26	84	64908	Below Cal	98
21) t12dichlorte	0.00	96	0	N.D.	
22) tbutylalcohol	5.63	59	1135	N.D.	
23) MtBE	0.00	73	0	N.D.	
24) Acrylonitrile	0.00	53	0	N.D.	
25) Hexane	0.00	57	0	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	6.66	43	1155	0.2515 mg/kg#	71
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	7.51	77	1096	N.D.	
32) c12dichlorte	0.00	96	0	N.D.	
33) 2Butanone	7.76	43	4412	N.D.	
34) Ethylacetate	7.83	43	1913	Below Cal #	32
35) propionitrile	0.00	54	0	N.D.	
36) Bromochlorma	0.00	128	0	N.D.	
37) methacrylonitrile	0.00	67	0	N.D.	
38) tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877669.D Vial: 9
Acq On : 8 Dec 2010 12:22 Operator: APG
Sample : 72301,877669,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 12:53 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	0.00	83	0	N.D.	
40) 111trichlota	0.00	97	0	N.D.	
41) Cyclohexane	0.00	56	0	N.D.	
43) Carbtetraclo	0.00	119	0	N.D.	
44) 11dicloprope	0.00	110	0	N.D.	
46) Benzene	0.00	78	0	N.D.	
47) 12dichlorota	0.00	62	0	N.D.	
48) TAME	0.00	73	0	N.D.	
49) Trichloroete	0.00	95	0	N.D.	
50) methylcyclohexane	10.99	83	2207	N.D.	
51) 12dicloropra	0.00	63	0	N.D.	
52) 23Dicl1propene	0.00	75	0	N.D.	
53) Dibromometha	0.00	93	0	N.D.	
54) methylmethacrylate	0.00	69	0	N.D.	
55) Bromodiclrma	0.00	83	0	N.D.	
56) 2CLEVE	0.00	63	0	N.D.	
57) c13dicloproe	0.00	75	0	N.D.	
58) 4Meth2pentan	0.00	43	0	N.D.	
60) Toluene	0.00	92	0	N.D.	
61) t13Dicloprop	0.00	75	0	N.D.	
62) ethylmethacrylate	0.00	69	0	N.D.	
63) 112Triclotha	0.00	83	0	N.D.	
64) Tetrachlorte	0.00	166	0	N.D.	
65) 13Diclorpropa	0.00	76	0	N.D.	
67) 2Hexanone	15.20	43	1655	N.D.	
68) Clorodibrmta	0.00	129	0	N.D.	
69) 12Dibrometha	0.00	107	0	N.D.	
70) 1Clhexane	16.90	55	8094	Below Cal # 55	
71) Chlorobenzen	0.00	112	0	N.D.	
72) 1112tetclota	0.00	131	0	N.D.	
73) Ethylbenzene	0.00	91	0	N.D.	
74) m p-Xylene	0.00	106	0	N.D.	
75) o-Xylene	0.00	106	0	N.D.	
76) Styrene	0.00	104	0	N.D.	
77) Bromoform	0.00	173	0	N.D.	
78) Isopropylben	19.62	105	1133	N.D.	
80) cyclohexanone	0.00	55	0	N.D.	
82) Bromobenzene	0.00	156	0	N.D.	
83) 1122Tetrclta	0.00	83	0	N.D.	
84) 123triclproa	0.00	75	0	N.D.	
85) n-Propylbenz	20.73	91	1310	N.D.	
86) 14dichloro2butene	0.00	75	0	N.D.	
87) 2chlorotolue	0.00	91	0	N.D.	
88) 4chlorotolue	0.00	91	0	N.D.	
89) 135Trimebenz	0.00	105	0	N.D.	
90) tbutylbenzen	0.00	119	0	N.D.	
91) 124Trimetben	22.23	105	1340	N.D.	
92) sbutylbenzen	0.00	105	0	N.D.	
93) 13Diclorbenz	0.00	146	0	N.D.	
94) pIsopropylto	23.14	119	1554	N.D.	
95) 14dichlorobe	0.00	146	0	N.D.	
96) 12dichlorobe	0.00	146	0	N.D.	
97) nButylbenzen	24.22	91	1276	N.D.	
98) 12dibromo3cl	0.00	157	0	N.D.	
99) 135Trichlorobenzene	0.00	180	0	N.D.	
100) 124trichlobe	0.00	180	0	N.D.	
101) Hexachlorobu	0.00	225	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877669.D Vial: 9
Acq On : 8 Dec 2010 12:22 Operator: APG
Sample : 72301,877669,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 12:53 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

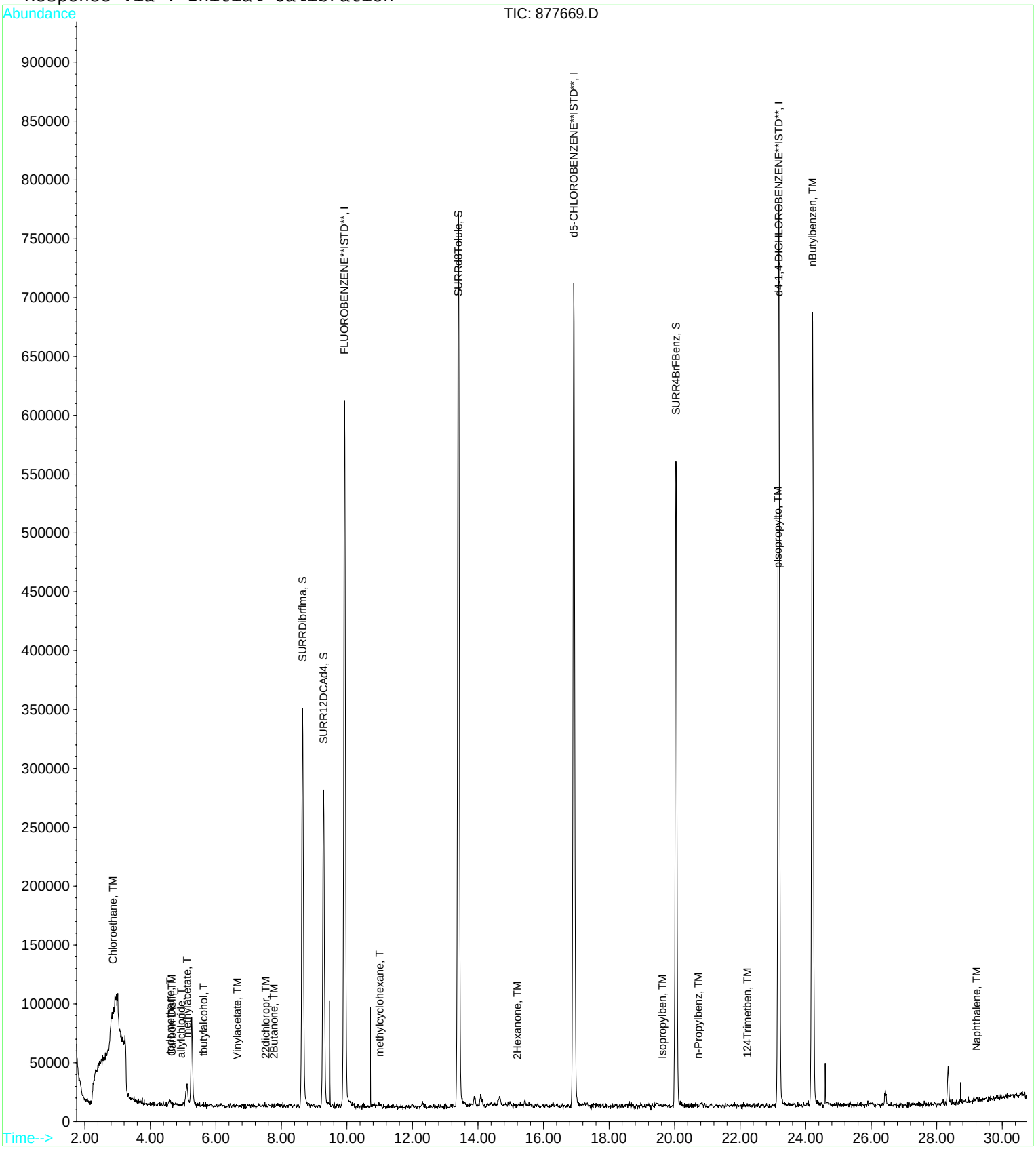
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Naphthalene	29.22	128	3441	N.D.	
103) 123Trichlben	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration
877669.D PS120210.M Thu Dec 09 08:19:25 2010

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877669.D Vial: 9
Acq On : 8 Dec 2010 12:22 Operator: APG
Sample : 72301,877669,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 12:53 2010 Quant Results File: PS120210.RES

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration



Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877670.D Vial: 10
Acq On : 8 Dec 2010 13:01 Operator: APG
Sample : 72301,877670,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 13:32 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.93	96	1071408	1.00	mg/kg	0.00 NA%
66) d5-CHLOROBENZENE**ISTD**	16.93	117	886593	1.00	mg/kg	0.00 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.18	152	475097	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
42) SURRDibrflma	8.65	113	378690	1.022	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 121		Recovery = 108 %			
45) SURR12DCAd4	9.29	102	85935	0.978	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 119		Recovery = 103 %			
59) SURRd8Tolule	13.41	98	1064712	1.023	mg/kg	0.00
Spiked Amount 0.950	Range 84 - 126		Recovery = 108 %			
81) SURR4BrFBenz	20.04	95	388986	0.939	mg/kg	0.00
Spiked Amount 0.950	Range 88 - 128		Recovery = 99 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.17	50	1338	Below	Cal #	40
4) Vinylchlorid	2.37	62	1969	N.D.		
5) Bromomethane	2.87	94	10224	Below	Cal #	58
6) Chloroethane	2.88	64	2485	Below	Cal #	1
7) Trichlorofma	0.00	101	0	N.D.		
8) Dichloroflmethane	0.00	67	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.58	43	9903	Below	Cal	75
16) Iodomethane	4.61	142	2878	0.2352	mg/kg#	90
17) Carbon Dislf	4.68	76	2820	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	5.12	74	13729	0.0981	mg/kg	99
20) Methylchlorid	5.27	84	68743	Below	Cal	97
21) t12dichlorte	0.00	96	0	N.D.		
22) tbutylalcohol	0.00	59	0	N.D.		
23) MtBE	0.00	73	0	N.D.		
24) Acrylonitrile	0.00	53	0	N.D.		
25) Hexane	6.16	57	1162	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	6.57	45	1194	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	7.79	43	3966	N.D.		
34) Ethylacetate	7.92	43	1179	Below	Cal #	64
35) propionitrile	0.00	54	0	N.D.		
36) Bromochlorma	0.00	128	0	N.D.		
37) methacrylonitrile	0.00	67	0	N.D.		
38) tetrahydofur	8.25	42	1512	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877670.D Vial: 10
Acq On : 8 Dec 2010 13:01 Operator: APG
Sample : 72301,877670,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 13:32 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	0.00	83	0	N.D.	
40) 111trichlota	0.00	97	0	N.D.	
41) Cyclohexane	8.57	56	1162	N.D.	
43) Carbtetraclo	0.00	119	0	N.D.	
44) 11dicloprope	0.00	110	0	N.D.	
46) Benzene	9.34	78	1057	N.D.	
47) 12dichlorota	0.00	62	0	N.D.	
48) TAME	0.00	73	0	N.D.	
49) Trichloroete	0.00	95	0	N.D.	
50) methylcyclohexane	11.01	83	2055	N.D.	
51) 12dicloropra	0.00	63	0	N.D.	
52) 23Dicl1propene	0.00	75	0	N.D.	
53) Dibromometha	0.00	93	0	N.D.	
54) methylmethacrylate	0.00	69	0	N.D.	
55) Bromodiclrma	0.00	83	0	N.D.	
56) 2CLEVE	0.00	63	0	N.D.	
57) c13dicloproe	0.00	75	0	N.D.	
58) 4Meth2pentan	0.00	43	0	N.D.	
60) Toluene	13.56	92	1249	N.D.	
61) t13Dicloprop	0.00	75	0	N.D.	
62) ethylmethacrylate	0.00	69	0	N.D.	
63) 112Triclotha	0.00	83	0	N.D.	
64) Tetrachlorte	0.00	166	0	N.D.	
65) 13Diclorpropa	0.00	76	0	N.D.	
67) 2Hexanone	15.27	43	1187	N.D.	
68) Clorodibrmta	0.00	129	0	N.D.	
69) 12Dibrometha	0.00	107	0	N.D.	
70) 1Clhexane	16.92	55	8049	Below Cal # 71	
71) Chlorobenzen	0.00	112	0	N.D.	
72) 1112tetclota	0.00	131	0	N.D.	
73) Ethylbenzene	0.00	91	0	N.D.	
74) m p-Xylene	17.59	106	1692	N.D.	
75) o-Xylene	18.61	106	1010	N.D.	
76) Styrene	0.00	104	0	N.D.	
77) Bromoform	0.00	173	0	N.D.	
78) Isopropylben	19.62	105	2768	N.D.	
80) cyclohexanone	0.00	55	0	N.D.	
82) Bromobenzene	0.00	156	0	N.D.	
83) 1122Tetrclta	0.00	83	0	N.D.	
84) 123triclproa	0.00	75	0	N.D.	
85) n-Propylbenz	20.73	91	1338	N.D.	
86) 14dichloro2butene	0.00	75	0	N.D.	
87) 2chlorotolue	0.00	91	0	N.D.	
88) 4chlorotolue	21.23	91	4938	N.D.	
89) 135Trimebenz	21.26	105	1117	N.D.	
90) tbutylbenzen	0.00	119	0	N.D.	
91) 124Trimetben	22.24	105	1756	N.D.	
92) sbutylbenzen	0.00	105	0	N.D.	
93) 13Diclorbenz	0.00	146	0	N.D.	
94) pIsopropylto	23.13	119	4283	N.D.	
95) 14dichlorobe	0.00	146	0	N.D.	
96) 12dichlorobe	0.00	146	0	N.D.	
97) nButylbenzen	0.00	91	0	N.D.	
98) 12dibromo3cl	0.00	157	0	N.D.	
99) 135Trichlorobenzene	0.00	180	0	N.D.	
100) 124trichlobe	0.00	180	0	N.D.	
101) Hexachlorobu	0.00	225	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877670.D Vial: 10
Acq On : 8 Dec 2010 13:01 Operator: APG
Sample : 72301,877670,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 13:32 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

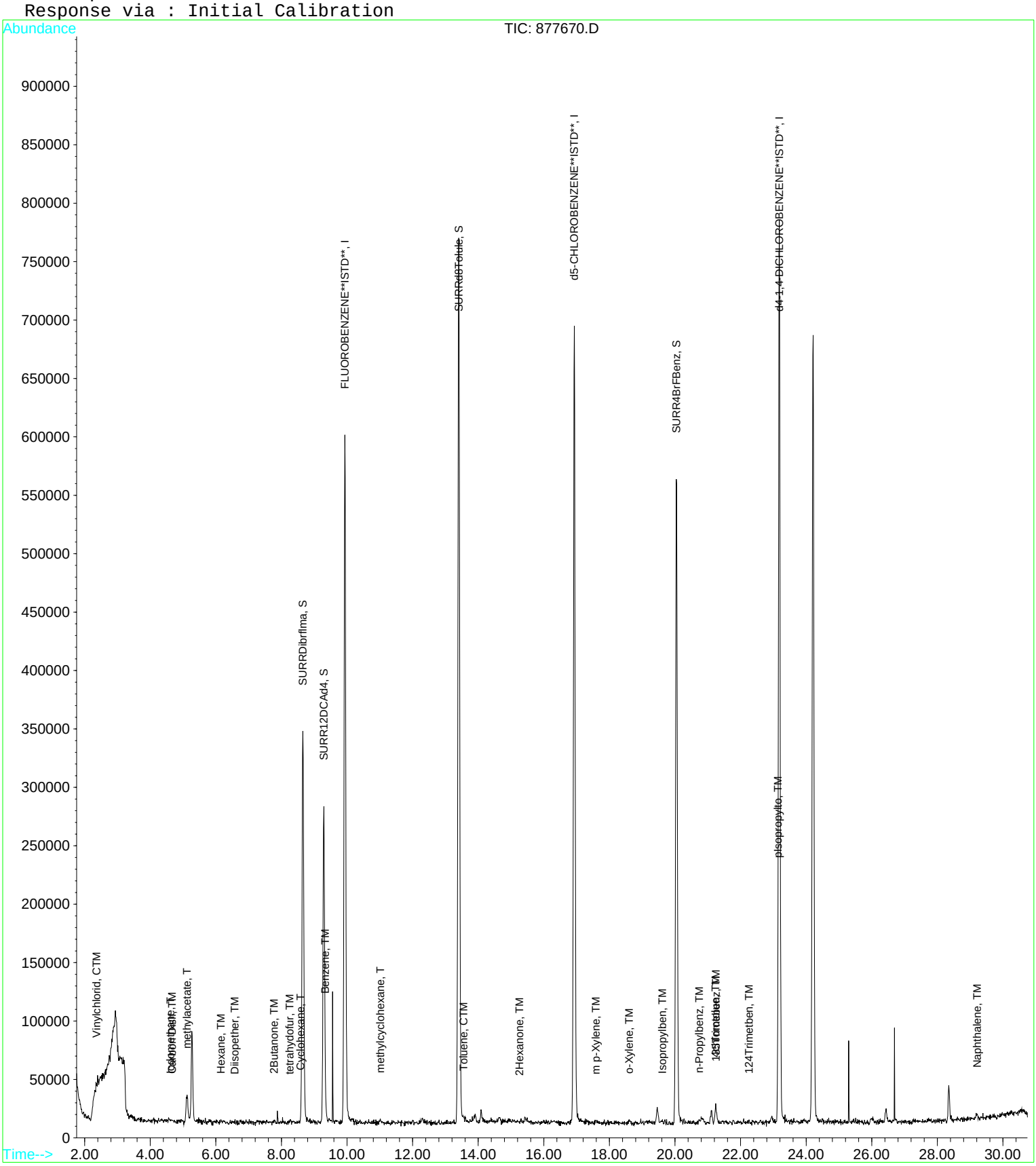
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Naphthalene	29.22	128	3389	N.D.	
103) 123Trichlben	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration
877670.D PS120210.M Thu Dec 09 08:20:08 2010

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877670.D Vial: 10
Acq On : 8 Dec 2010 13:01 Operator: APG
Sample : 72301,877670,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 13:32 2010 Quant Results File: PS120210.RES

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration



Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877671.D Vial: 11
Acq On : 8 Dec 2010 13:40 Operator: APG
Sample : 72301,877671,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 14:11 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.93	96	1060095	1.00	mg/kg	0.00 NA%
66) d5-CHLOROBENZENE**ISTD**	16.93	117	858980	1.00	mg/kg	0.00 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.18	152	465988	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
42) SURRDibrflma	8.65	113	365275	0.996	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 121		Recovery = 105 %			
45) SURR12DCAd4	9.29	102	85093	0.979	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 119		Recovery = 103 %			
59) SURRd8Tolule	13.40	98	1040611	1.011	mg/kg	0.00
Spiked Amount 0.950	Range 84 - 126		Recovery = 106 %			
81) SURR4BrFBenz	20.04	95	379918	0.936	mg/kg	-0.01
Spiked Amount 0.950	Range 88 - 128		Recovery = 99 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.19	50	2928	Below	Cal #	40
4) Vinylchlorid	2.28	62	1174	N.D.		
5) Bromomethane	2.82	94	6415	Below	Cal	93
6) Chloroethane	2.91	64	2908	Below	Cal #	1
7) Trichlorofma	0.00	101	0	N.D.		
8) Dichloroflmethane	3.28	67	1242	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.57	43	5680	Below	Cal	91
16) Iodomethane	4.59	142	2619	0.2348	mg/kg#	39
17) Carbon Dislf	4.65	76	3008	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	5.12	74	3798	0.0187	mg/kg#	62
20) Methylchlorid	5.26	84	69493	Below	Cal	94
21) t12dichlorte	0.00	96	0	N.D.		
22) tbutylalcohol	0.00	59	0	N.D.		
23) MtBE	0.00	73	0	N.D.		
24) Acrylonitrile	0.00	53	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	6.62	43	1550	0.2522	mg/kg#	71
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	7.76	43	4028	N.D.		
34) Ethylacetate	7.92	43	1098	Below	Cal #	64
35) propionitrile	0.00	54	0	N.D.		
36) Bromochlorma	0.00	128	0	N.D.		
37) methacrylonitrile	0.00	67	0	N.D.		
38) tetrahydofur	8.26	42	2135	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877671.D Vial: 11
Acq On : 8 Dec 2010 13:40 Operator: APG
Sample : 72301,877671,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 14:11 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	0.00	83	0	N.D.	
40) 111trichlota	0.00	97	0	N.D.	
41) Cyclohexane	8.57	56	1249	N.D.	
43) Carbtetraclo	0.00	119	0	N.D.	
44) 11dicloprope	0.00	110	0	N.D.	
46) Benzene	9.32	78	1128	N.D.	
47) 12dichlorota	0.00	62	0	N.D.	
48) TAME	0.00	73	0	N.D.	
49) Trichloroete	0.00	95	0	N.D.	
50) methylcyclohexane	10.98	83	1236	N.D.	
51) 12dicloropra	0.00	63	0	N.D.	
52) 23Dicl1propene	0.00	75	0	N.D.	
53) Dibromometha	0.00	93	0	N.D.	
54) methylmethacrylate	0.00	69	0	N.D.	
55) Bromodiclrma	0.00	83	0	N.D.	
56) 2CLEVE	0.00	63	0	N.D.	
57) c13dicloproe	0.00	75	0	N.D.	
58) 4Meth2pentan	0.00	43	0	N.D.	
60) Toluene	0.00	92	0	N.D.	
61) t13Dicloprop	0.00	75	0	N.D.	
62) ethylmethacrylate	0.00	69	0	N.D.	
63) 112Triclotha	0.00	83	0	N.D.	
64) Tetrachlorte	0.00	166	0	N.D.	
65) 13Diclorpropa	0.00	76	0	N.D.	
67) 2Hexanone	0.00	43	0	N.D.	
68) Clorodibrmta	0.00	129	0	N.D.	
69) 12Dibrometha	0.00	107	0	N.D.	
70) 1Clhexane	17.03	55	1023	Below Cal # 13	
71) Chlorobenzen	0.00	112	0	N.D.	
72) 1112tetclota	0.00	131	0	N.D.	
73) Ethylbenzene	0.00	91	0	N.D.	
74) m p-Xylene	0.00	106	0	N.D.	
75) o-Xylene	0.00	106	0	N.D.	
76) Styrene	0.00	104	0	N.D.	
77) Bromoform	0.00	173	0	N.D.	
78) Isopropylben	19.62	105	2110	N.D.	
80) cyclohexanone	0.00	55	0	N.D.	
82) Bromobenzene	0.00	156	0	N.D.	
83) 1122Tetrclta	0.00	83	0	N.D.	
84) 123triclproa	0.00	75	0	N.D.	
85) n-Propylbenz	0.00	91	0	N.D.	
86) 14dichloro2butene	0.00	75	0	N.D.	
87) 2chlorotolue	0.00	91	0	N.D.	
88) 4chlorotolue	0.00	91	0	N.D.	
89) 135Trimebenz	0.00	105	0	N.D.	
90) tbutylbenzen	0.00	119	0	N.D.	
91) 124Trimetben	0.00	105	0	N.D.	
92) sbutylbenzen	0.00	105	0	N.D.	
93) 13Diclorbenz	0.00	146	0	N.D.	
94) pIsopropylto	0.00	119	0	N.D.	
95) 14dichlorobe	0.00	146	0	N.D.	
96) 12dichlorobe	0.00	146	0	N.D.	
97) nButylbenzen	24.22	91	1170	N.D.	
98) 12dibromo3cl	0.00	157	0	N.D.	
99) 135Trichlorobenzene	0.00	180	0	N.D.	
100) 124trichlobe	0.00	180	0	N.D.	
101) Hexachlorobu	0.00	225	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877671.D Vial: 11
Acq On : 8 Dec 2010 13:40 Operator: APG
Sample : 72301,877671,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 14:11 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

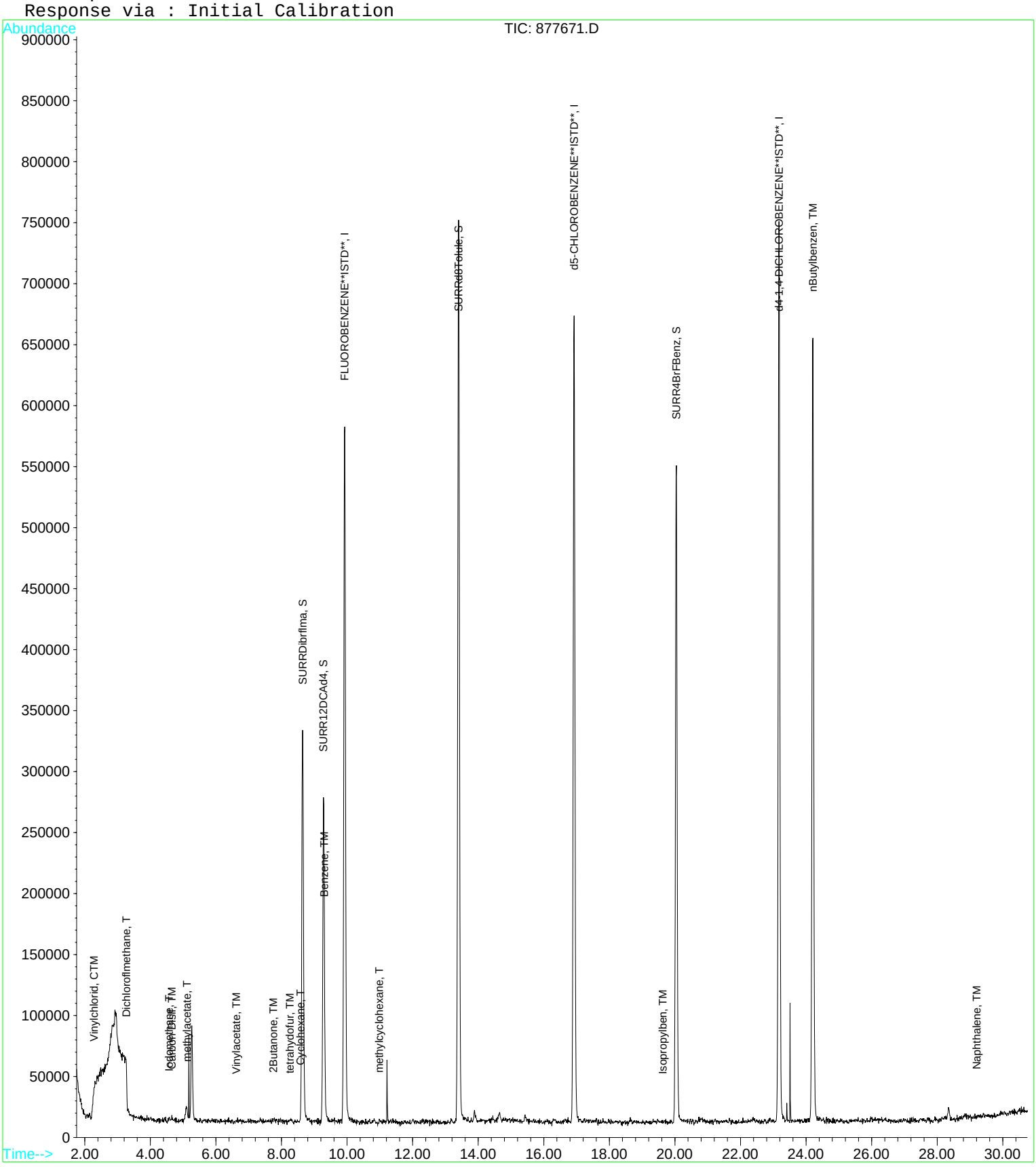
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Naphthalene	29.22	128	2406	N.D.	
103) 123Trichlben	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration
877671.D PS120210.M Thu Dec 09 08:20:50 2010

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877671.D Vial: 11
Acq On : 8 Dec 2010 13:40 Operator: APG
Sample : 72301,877671,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 14:11 2010 Quant Results File: PS120210.RES

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration



Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877672.D Vial: 12
Acq On : 8 Dec 2010 14:18 Operator: APG
Sample : 72301,877672,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 14:49 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.93	96	1066929	1.00	mg/kg	0.00 NA%
66) d5-CHLOROBENZENE**ISTD**	16.92	117	870229	1.00	mg/kg	0.00 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.17	152	462866	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
42) SURRDibrflma	8.65	113	370189	1.003	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 121		Recovery = 106 %			
45) SURR12DCAd4	9.29	102	89174	1.019	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 119		Recovery = 107 %			
59) SURRd8Tolule	13.40	98	1053576	1.017	mg/kg	0.00
Spiked Amount 0.950	Range 84 - 126		Recovery = 107 %			
81) SURR4BrFBenz	20.04	95	387209	0.960	mg/kg	0.00
Spiked Amount 0.950	Range 88 - 128		Recovery = 101 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.08	50	1072	Below	Cal #	40
4) Vinylchlorid	0.00	62	0	N.D.		
5) Bromomethane	2.85	94	8741	Below	Cal #	54
6) Chloroethane	2.87	64	1577	Below	Cal #	1
7) Trichlorofma	0.00	101	0	N.D.		
8) Dichloroflmethane	3.29	67	1440	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.55	43	4676	Below	Cal #	43
16) Iodomethane	4.61	142	2489	0.2345	mg/kg#	71
17) Carbon Dislf	4.65	76	2949	N.D.		
18) allylchloride	5.07	41	9160	N.D.		
19) methylacetate	5.11	74	6694	0.0419	mg/kg	68
20) Methylchlorid	5.26	84	73149	Below	Cal	98
21) t12dichlorte	0.00	96	0	N.D.		
22) tbutylalcohol	0.00	59	0	N.D.		
23) MtBE	0.00	73	0	N.D.		
24) Acrylonitrile	0.00	53	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	6.67	43	1184	0.2516	mg/kg#	71
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	7.77	43	5553	N.D.		
34) Ethylacetate	7.77	43	6205	Below	Cal #	64
35) propionitrile	0.00	54	0	N.D.		
36) Bromochlorma	0.00	128	0	N.D.		
37) methacrylonitrile	0.00	67	0	N.D.		
38) tetrahydofur	8.24	42	1947	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877672.D Vial: 12
Acq On : 8 Dec 2010 14:18 Operator: APG
Sample : 72301,877672,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 14:49 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
41)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	9.58	73	1135	N.D.	
49)	Trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	11.01	83	1015	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23Dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	Bromodiclrma	0.00	83	0	N.D.	
56)	2CLEVE	0.00	63	0	N.D.	
57)	c13dicloproe	0.00	75	0	N.D.	
58)	4Meth2pentan	0.00	43	0	N.D.	
60)	Toluene	0.00	92	0	N.D.	
61)	t13Dicloprop	0.00	75	0	N.D.	
62)	ethylmethacrylate	0.00	69	0	N.D.	
63)	112Triclotha	0.00	83	0	N.D.	
64)	Tetrachlorte	0.00	166	0	N.D.	
65)	13Diclorpropa	0.00	76	0	N.D.	
67)	2Hexanone	0.00	43	0	N.D.	
68)	Clorodibrmta	0.00	129	0	N.D.	
69)	12Dibrometha	0.00	107	0	N.D.	
70)	1Clhexane	16.91	55	7608	Below Cal #	71
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1112tetclota	0.00	131	0	N.D.	
73)	Ethylbenzene	0.00	91	0	N.D.	
74)	m p-Xylene	0.00	106	0	N.D.	
75)	o-Xylene	18.63	106	1097	N.D.	
76)	Styrene	0.00	104	0	N.D.	
77)	Bromoform	0.00	173	0	N.D.	
78)	Isopropylben	19.60	105	1846	N.D.	
80)	cyclohexanone	0.00	55	0	N.D.	
82)	Bromobenzene	0.00	156	0	N.D.	
83)	1122Tetrclta	0.00	83	0	N.D.	
84)	123triclproa	0.00	75	0	N.D.	
85)	n-Propylbenz	20.70	91	1251	N.D.	
86)	14dichloro2butene	0.00	75	0	N.D.	
87)	2chlorotolue	0.00	91	0	N.D.	
88)	4chlorotolue	0.00	91	0	N.D.	
89)	135Trimebenz	0.00	105	0	N.D.	
90)	tbutylbenzen	0.00	119	0	N.D.	
91)	124Trimetben	0.00	105	0	N.D.	
92)	sbutylbenzen	0.00	105	0	N.D.	
93)	13Diclorbenz	0.00	146	0	N.D.	
94)	pIsopropylto	23.16	119	1512	N.D.	
95)	14dichlorobe	0.00	146	0	N.D.	
96)	12dichlorobe	0.00	146	0	N.D.	
97)	nButylbenzen	0.00	91	0	N.D.	
98)	12dibromo3cl	0.00	157	0	N.D.	
99)	135Trichlorobenzene	0.00	180	0	N.D.	
100)	124trichlobe	0.00	180	0	N.D.	
101)	Hexachlorobu	0.00	225	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877672.D Vial: 12
Acq On : 8 Dec 2010 14:18 Operator: APG
Sample : 72301,877672,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 14:49 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

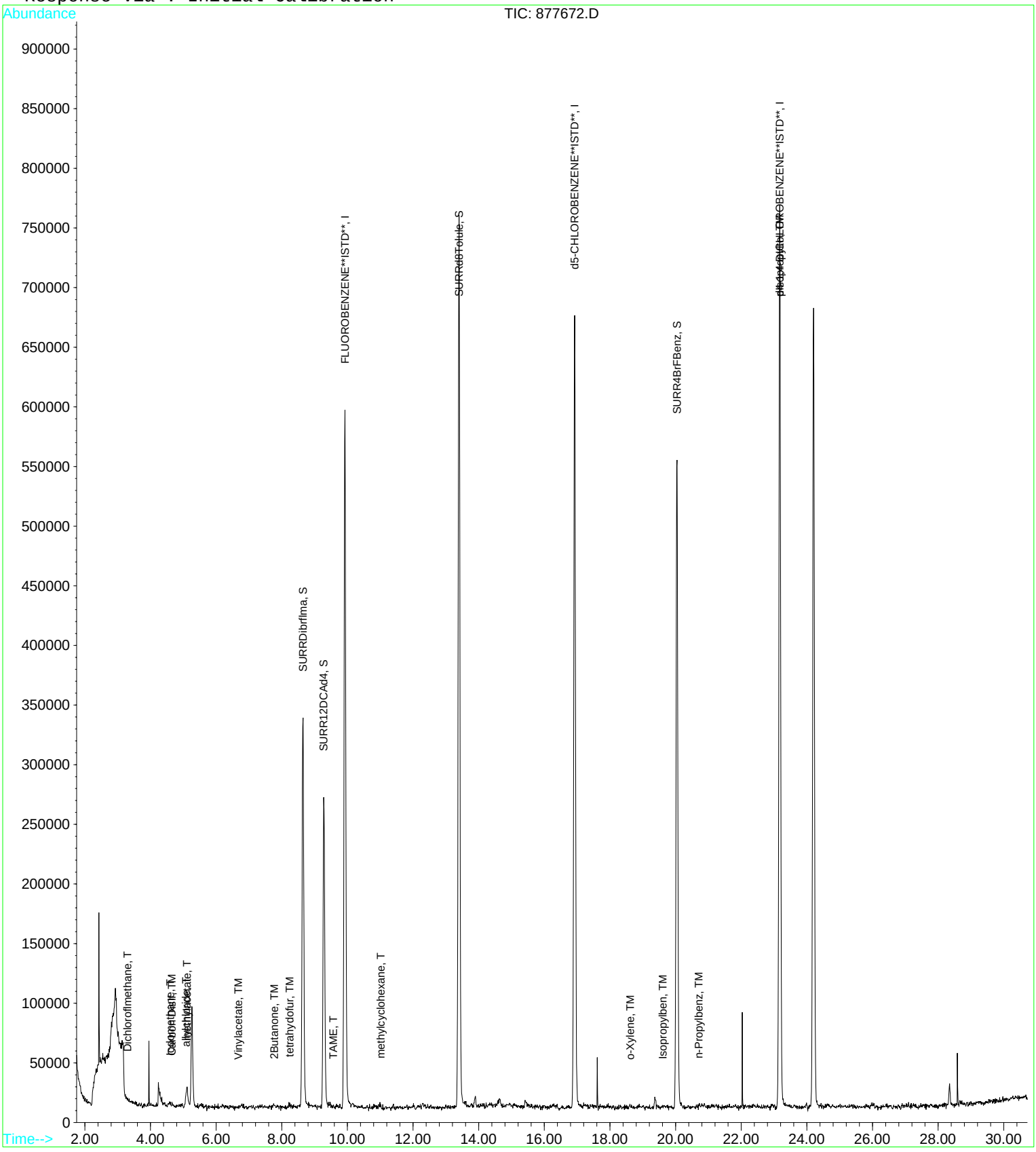
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Naphthalene	0.00	128	0	N.D.	
103) 123Trichlben	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration
877672.D PS120210.M Thu Dec 09 08:21:35 2010 Page 80 Page 3

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877672.D Vial: 12
Acq On : 8 Dec 2010 14:18 Operator: APG
Sample : 72301,877672,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 14:49 2010 Quant Results File: PS120210.RES

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration



Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877663.D Vial: 19
Acq On : 8 Dec 2010 18:50 Operator: APG
Sample : 72301,877663,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 19:21 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.93	96	1061219	1.00	mg/kg	0.00 NA%
66) d5-CHLOROBENZENE**ISTD**	16.91	117	856606	1.00	mg/kg	-0.02 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.16	152	462376	1.00	mg/kg	-0.02 NA%
System Monitoring Compounds						
42) SURRDibrflma	8.64	113	370971	1.011	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 121		Recovery = 106 %			
45) SURR12DCAd4	9.28	102	85784	0.986	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 119		Recovery = 104 %			
59) SURRd8Tolule	13.39	98	1032992	1.002	mg/kg	0.00
Spiked Amount 0.950	Range 84 - 126		Recovery = 105 %			
81) SURR4BrFBenz	20.02	95	384702	0.955	mg/kg	-0.03
Spiked Amount 0.950	Range 88 - 128		Recovery = 101 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.13	50	1990	Below	Cal #	40
4) Vinylchlorid	2.42	62	1072	N.D.		
5) Bromomethane	2.86	94	10876	Below	Cal #	49
6) Chloroethane	2.95	64	1985	Below	Cal #	40
7) Trichlorofma	0.00	101	0	N.D.		
8) Dichloroflmethane	3.33	67	1124	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.55	43	7839	Below	Cal	87
16) Iodomethane	4.60	142	1745	0.2331	mg/kg#	70
17) Carbon Dislf	4.65	76	3758	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	5.11	74	24380	0.1856	mg/kg	87
20) Methylchlorid	5.26	84	57169	Below	Cal	99
21) t12dichlorte	0.00	96	0	N.D.		
22) tbutylalcohol	0.00	59	0	N.D.		
23) MtBE	0.00	73	0	N.D.		
24) Acrylonitrile	0.00	53	0	N.D.		
25) Hexane	6.14	57	1303	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	6.66	43	1193	0.2516	mg/kg#	71
28) chloroprene	6.60	53	1075	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	7.75	43	3653	N.D.		
34) Ethylacetate	7.86	43	4761	Below	Cal #	75
35) propionitrile	0.00	54	0	N.D.		
36) Bromochlorma	0.00	128	0	N.D.		
37) methacrylonitrile	0.00	67	0	N.D.		
38) tetrahydofur	8.21	42	1924	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877663.D Vial: 19
Acq On : 8 Dec 2010 18:50 Operator: APG
Sample : 72301,877663,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 19:21 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	0.00	83	0	N.D.	
40) 111trichlota	0.00	97	0	N.D.	
41) Cyclohexane	8.59	56	1640	N.D.	
43) Carbtetraclo	0.00	119	0	N.D.	
44) 11dicloprope	0.00	110	0	N.D.	
46) Benzene	9.30	78	1134	N.D.	
47) 12dichlorota	0.00	62	0	N.D.	
48) TAME	0.00	73	0	N.D.	
49) Trichloroete	0.00	95	0	N.D.	
50) methylcyclohexane	10.99	83	6851	0.0164 mg/kg#	46
51) 12dicloropra	0.00	63	0	N.D.	
52) 23Dicl1propene	0.00	75	0	N.D.	
53) Dibromometha	0.00	93	0	N.D.	
54) methylmethacrylate	0.00	69	0	N.D.	
55) Bromodiclrma	0.00	83	0	N.D.	
56) 2CLEVE	0.00	63	0	N.D.	
57) c13dicloproe	0.00	75	0	N.D.	
58) 4Meth2pentan	13.27	43	1042	N.D.	
60) Toluene	13.56	92	6707	0.0092 mg/kg	98
61) t13Dicloprop	0.00	75	0	N.D.	
62) ethylmethacrylate	0.00	69	0	N.D.	
63) 112Triclotha	0.00	83	0	N.D.	
64) Tetrachlorte	0.00	166	0	N.D.	
65) 13Diclorpropa	0.00	76	0	N.D.	
67) 2Hexanone	0.00	43	0	N.D.	
68) Clorodibrmta	0.00	129	0	N.D.	
69) 12Dibrometha	0.00	107	0	N.D.	
70) 1Clhexane	16.91	55	6735	Below Cal #	58
71) Chlorobenzen	0.00	112	0	N.D.	
72) 1112tetclota	0.00	131	0	N.D.	
73) Ethylbenzene	17.28	91	4391	N.D.	
74) m p-Xylene	17.59	106	6706	N.D.	
75) o-Xylene	18.60	106	4827	0.0089 mg/kg	100
76) Styrene	0.00	104	0	N.D.	
77) Bromoform	0.00	173	0	N.D.	
78) Isopropylben	19.60	105	3704	N.D.	
80) cyclohexanone	19.95	55	1253	N.D.	
82) Bromobenzene	0.00	156	0	N.D.	
83) 1122Tetrclta	0.00	83	0	N.D.	
84) 123triclproa	0.00	75	0	N.D.	
85) n-Propylbenz	20.72	91	3682	N.D.	
86) 14dichloro2butene	0.00	75	0	N.D.	
87) 2chlorotolue	0.00	91	0	N.D.	
88) 4chlorotolue	0.00	91	0	N.D.	
89) 135Trimebenz	21.22	105	4325	N.D.	
90) tbutylbenzen	0.00	119	0	N.D.	
91) 124Trimetben	22.23	105	14622	0.0145 mg/kg	92
92) sbutylbenzen	22.68	105	2367	N.D.	
93) 13Diclorbenz	0.00	146	0	N.D.	
94) pIsopropylto	23.12	119	2559	N.D.	
95) 14dichlorobe	0.00	146	0	N.D.	
96) 12dichlorobe	0.00	146	0	N.D.	
97) nButylbenzen	24.27	91	5909	N.D.	
98) 12dibromo3cl	0.00	157	0	N.D.	
99) 135Trichlorobenzene	0.00	180	0	N.D.	
100) 124trichlobe	0.00	180	0	N.D.	
101) Hexachlorobu	0.00	225	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877663.D Vial: 19
Acq On : 8 Dec 2010 18:50 Operator: APG
Sample : 72301,877663,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 19:21 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

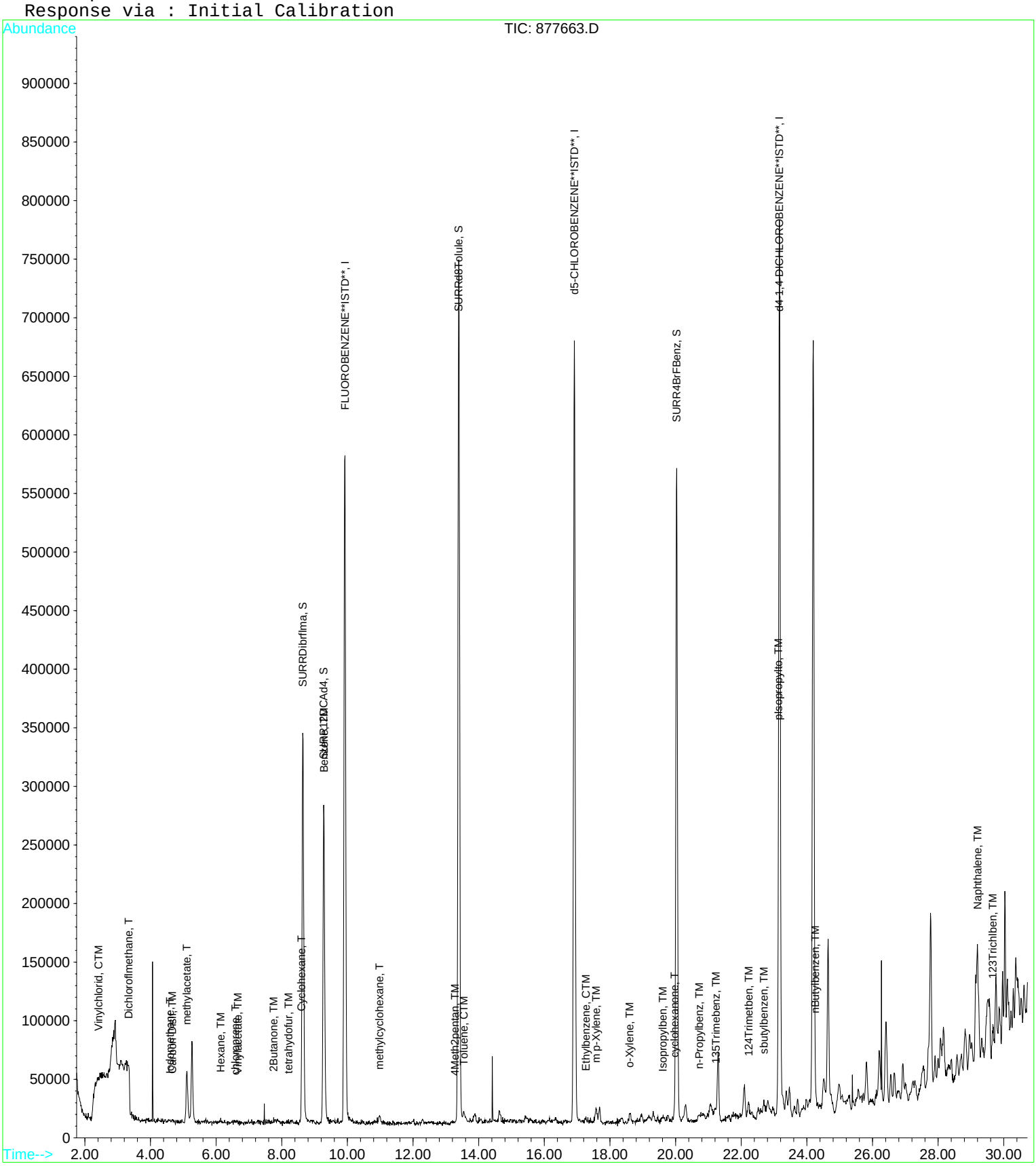
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Naphthalene	29.22	128	44785	0.0376 mg/kg	92
103) 123Trichlben	29.67	180	1830	N.D.	

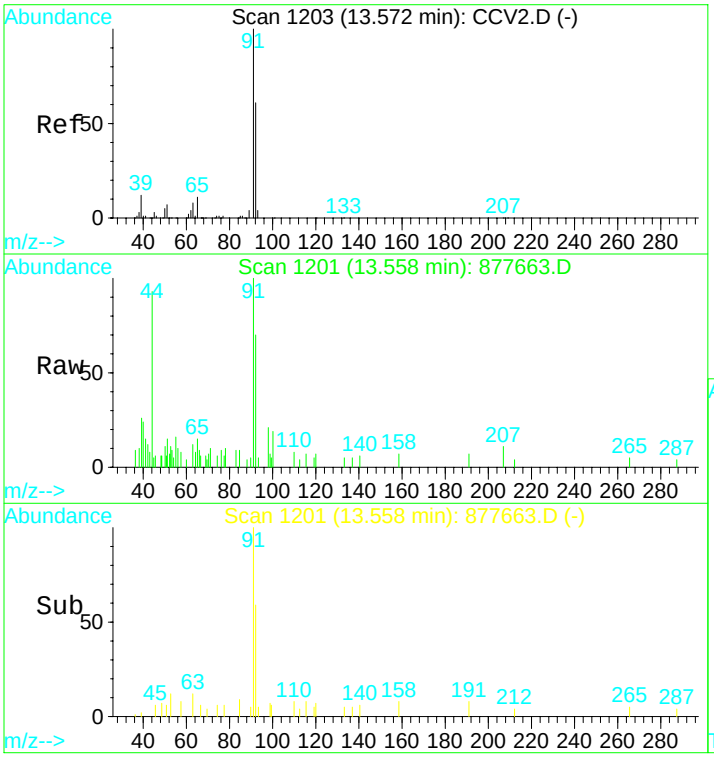
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877663.D Vial: 19
Acq On : 8 Dec 2010 18:50 Operator: APG
Sample : 72301,877663,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 19:21 2010 Quant Results File: PS120210.RES

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration

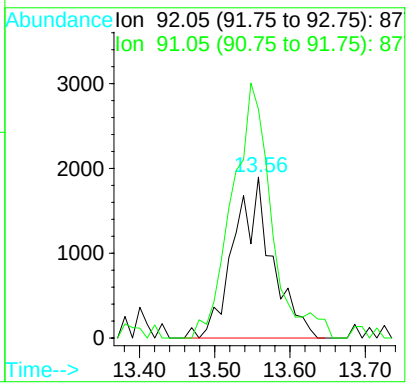


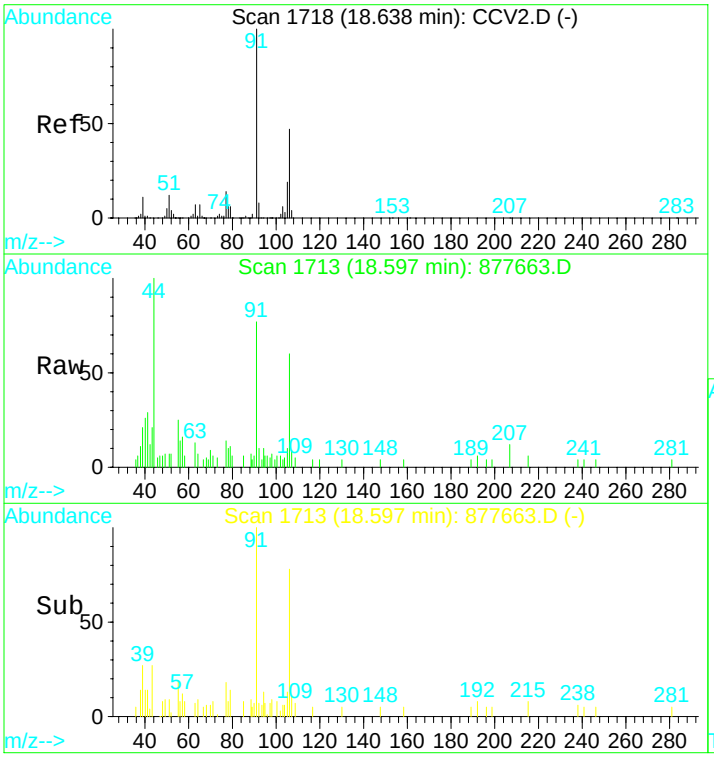


#60
Toluene
Concen: 0.01 mg/kg
RT: 13.56 min Scan# 1201
Delta R.T. 0.00 min
Lab File: 877663.D
Acq: 8 Dec 2010 18:50

Tgt Ion: 92 Resp: 6707

Ion	Ratio	Lower	Upper
92	100		
91	163.5	146.0	186.0

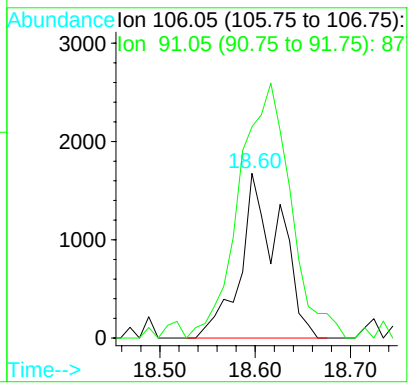




#75
o-Xylene
Concen: 0.01 mg/kg
RT: 18.60 min Scan# 1713
Delta R.T. -0.03 min
Lab File: 877663.D
Acq: 8 Dec 2010 18:50

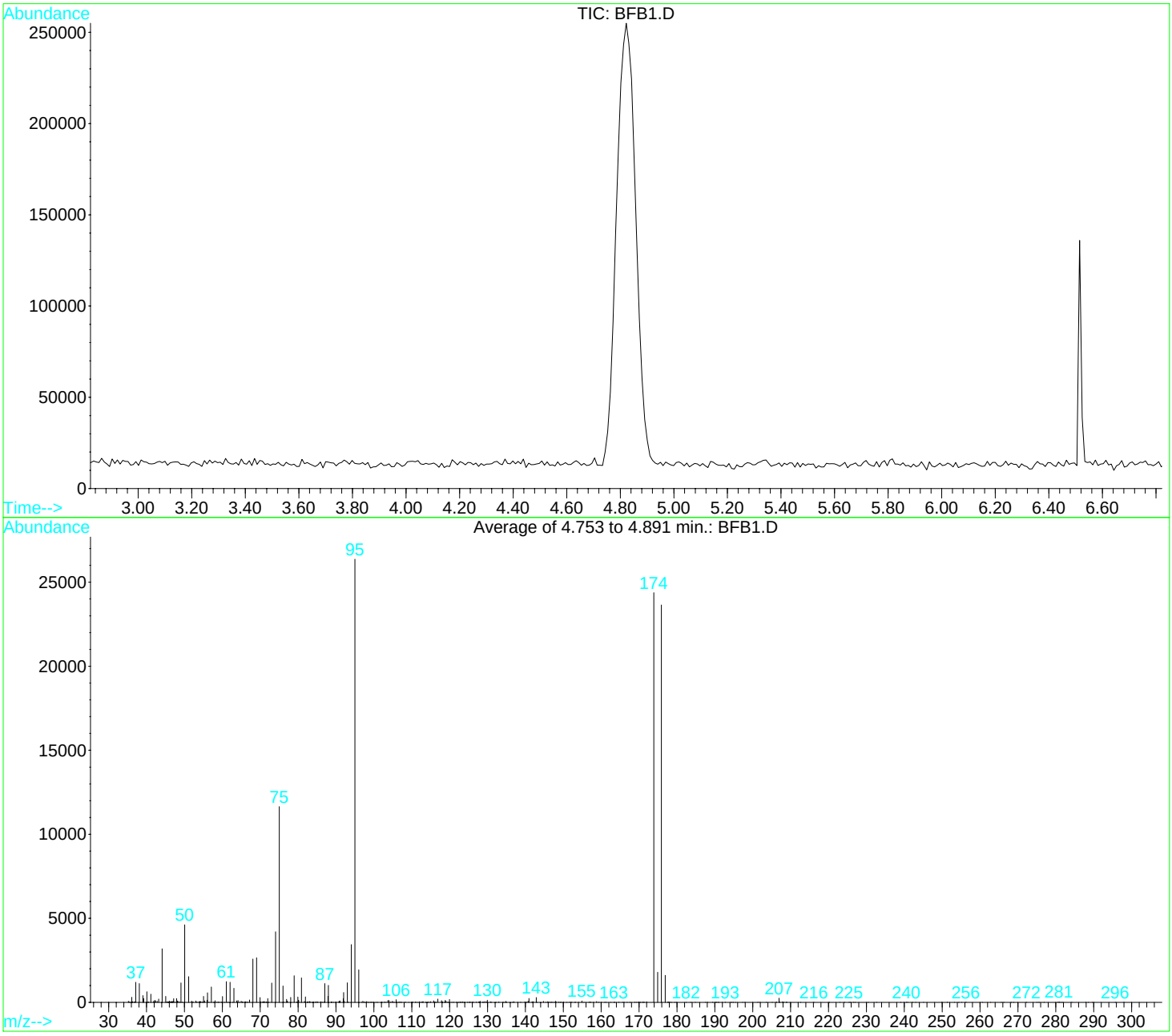
Tgt Ion:106 Resp: 4827

Ion	Ratio	Lower	Upper
106	100		
91	201.5	182.2	222.2



VOLATILE ORGANIC ANALYSIS
INITIAL CALIBRATION
DOCUMENTS

Data File : N:\DATA\DEC0210C\BFB1.D Vial: 1
Acq On : 2 Dec 2010 15:37 Operator: APG
Sample : 50.0 ng BFB, DIRCT INJECTION Inst : VMS1
Misc : 50 ng Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : N:\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260



Spectrum Information: Average of 4.753 to 4.891 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.5	4611	PASS
75	95	30	60	44.2	11647	PASS
95	95	100	100	100.0	26369	PASS
96	95	5	9	7.3	1937	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	92.4	24376	PASS
175	174	5	9	7.3	1791	PASS
176	174	95	101	97.0	23646	PASS
177	176	5	9	6.8	1613	PASS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : CT Laboratories Contract: USACE-LOUISVILLE

SDG # : 82743 Site: Location: Group:

Lab File ID: BFB1.D BFB Injection Date: 12/02/10

Instrument ID: VMS1 BFB Injection Time: 15:37

GC Column: ZB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15 - 40.0% of mass 95	17.5
75	30.0 - 60.0% of mass 95	44.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0
174	50.0 - 100.0% of mass 95	92.4
175	5.0 - 9.0% of mass 174	7.3
176	95.0 - 101.0% of mass 174	97.0
177	5.0 - 9.0% of mass 176	6.8

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
Calibration Std.	CALS2	CALS2 .D	12/02/10	17:51
Calibration Std.	CALS3	CALS3 .D	12/02/10	18:30
Calibration Std.	CALS4	CALS4 .D	12/02/10	19:08
Calibration Std.	CALS5	CALS5 .D	12/02/10	19:47
Calibration Std.	CALS6	CALS6 .D	12/02/10	20:20
Calibration Std.	CALS7	CALS7 .D	12/02/10	21:04
Calibration Std.	CALS8	CALS8 .D	12/02/10	22:21
Initial Calib. Verif.	ICV	ICV1 .D	12/02/10	23:38
Initial Calib. Blank	ICB	ICB1 .D	12/03/10	2:12

Response Factor Report VMS1

Method : N:\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration

Calibration Files mg/kg
1 0.05/0.5 =CALS1R.D 2 0.1/1.0 =CALS2.D 3 0.25/2.5 =CALS3.D
4 0.5/5.0 =CALS4.D 5 1.0/10.0 =CALS5.D 6 1.5/15.0 =CALS6.D
7 2.0/20.0 =CALS7.D 8 4.0/40.0 =CALS8.D

	Compound	1	2	3	4	5	6	7	8	Avg	%RSD
1) I	FLUOROBENZENE**ISTD**	----------ISTD----------									
2) TM	Dichlorodi	0.331	0.391	0.349	0.290	0.300	0.307	0.311	0.303	0.323	10.28
3) PTM	Chloromethan	0.448	0.379	0.350	0.332	0.302	0.296	0.311	-----		
								L	M= 0.301 R=0.998 B= 0.008		
4) CTM	Vinylchlorid	0.455	0.425	0.389	0.357	0.327	0.352	0.339	0.354	0.375	11.93
5) TM	Bromomethane	0.945	0.579	0.409	0.314	0.245	0.234	0.260	0.250	-----	
								L	M= 0.240 R=0.996 B= 0.028		
6) TM	Chloroethane	0.199	0.116	0.088	0.087	0.076	0.087	0.079	-----		
								L	M= 0.078 R=0.994 B= 0.004		
7) TM	Trichlorofma	0.505	0.531	0.579	0.423	0.503	0.418	0.435	0.416	-----	
								L	M= 0.413 R=0.997 B= 0.027		
8) T	Dichloroflmetha	0.777	0.703	0.740	0.630	0.626	0.566	0.584	0.563	0.649	12.62
9) TM	Ethylether	0.269	0.284	0.258	0.259	0.231	0.229	0.235	0.229	0.249	8.45
10) T	dichlorotfluoro	0.478	0.427	0.381	0.352	0.328	0.331	0.340	0.334	0.371	14.69
11) T	propyleneoxide	0.099	0.088	0.086	0.086	0.078	0.079	0.080	0.080	0.085#	8.41
12) T	Acrolein	0.058	0.042	0.044	0.042	0.039	0.040	0.038	0.041	0.043#	14.23
13) CTM	11dichlorthe	0.309	0.314	0.284	0.253	0.246	0.246	0.256	0.249	0.270	10.61
14) T	Trichlorotfluor	0.362	0.347	0.339	0.283	0.292	0.299	0.304	0.305	0.316	9.16
15) TM	Acetone	0.244	0.173	0.151	0.155	0.135	0.125	0.128	0.131	-----	
								L	M= 0.128 R=0.999 B= 0.051		
16) T	Iodomethane	0.385	0.352	0.299	0.357	0.352	0.463	0.443	0.494	-----	
								L	M= 0.497 R=0.995 B= -0.114		
17) TM	Carbon Dislf	1.050	1.000	0.943	0.893	0.866	0.874	0.915	0.901	0.930	6.93
18) T	allylchloride	0.395	0.345	0.334	0.324	0.301	0.311	0.316	0.319	0.331	8.92
19) T	methylacetate	0.422	0.153	0.127	0.121	0.115	0.098	0.119	0.119	-----	
								L	M= 0.116 R=0.993 B= 0.001		
20) TM	Methylchlorid	3.075	1.067	0.617	0.455	0.358	0.324	0.342	0.312	-----	
								L	M= 0.287 R=0.995 B= 0.090		
21) TM	t12dichlorte	0.396	0.364	0.327	0.312	0.289	0.292	0.306	0.294	0.322	11.99
22) T	tbutylalcohol	0.035	0.036	0.040	0.040	0.039	0.040	0.038	0.038	0.038#	4.56
23) TM	MtBE	0.909	0.883	0.892	0.895	0.818	0.854	0.878	0.860	0.874	3.28
24) T	Acrylonitrile	0.162	0.143	0.120	0.146	0.132	0.132	0.131	0.130	0.137	9.33

25) TM Hexane 0.315 0.302 0.303 0.241 0.272 0.279 0.283 0.285 8.02
0.285
26) PTM 11dichlorota 0.538 0.517 0.471 0.453 0.415 0.416 0.429 0.457 10.50
0.418
27) TM Vinylacetate 0.419 0.469 0.565 0.588 0.579 0.610 0.611 -----

L M= 0.616 R=1.000
B= -0.154
28) T chloroprene 0.361 0.354 0.348 0.333 0.323 0.326 0.327 0.338 4.23
0.331
29) TM Diisopether 0.958 0.899 0.862 0.867 0.808 0.842 0.864 0.871 5.00
0.870
30) T ETBE 0.883 0.836 0.807 0.804 0.768 0.804 0.830 0.819 4.07
0.821
31) TM 22dichloropr 0.456 0.411 0.378 0.367 0.338 0.336 0.345 0.371 11.70
0.334
32) TM c12dichlorte 0.405 0.382 0.338 0.330 0.307 0.310 0.326 0.339 10.51
0.315
33) TM 2Butanone 0.235 0.173 0.182 0.186 0.177 0.174 0.176 0.185 11.14
0.178
34) T Ethylacetate 1.208 0.323 0.338 0.302 0.292 0.305 0.310 -----
0.303

L M= 0.300 R=0.998
B= 0.012
35) T propionitrile 0.066 0.054 0.055 0.056 0.050 0.050 0.049 0.053# 11.08
0.047
36) TM Bromochlorma 0.205 0.213 0.190 0.187 0.172 0.177 0.178 0.187 8.14
0.172
37) T methacrylonitri 0.185 0.163 0.169 0.167 0.157 0.157 0.156 0.164 5.97
0.157
38) TM tetrahydofur 0.123 0.114 0.115 0.113 0.106 0.102 0.102 0.109 7.62
0.099
39) CTM Chloroform 0.676 0.585 0.525 0.519 0.471 0.479 0.485 0.526 13.66
0.471
40) TM 111trichlota 0.444 0.418 0.410 0.398 0.380 0.387 0.397 0.404 5.00
0.395
41) T Cyclohexane 0.402 0.379 0.394 0.346 0.357 0.357 0.362 0.370 5.34
0.362
42) S SURRDibrflma 0.363 0.365 0.341 0.340 0.337 0.334 0.349 0.346 3.50
0.337
43) TM Carbtetraclo 0.360 0.338 0.355 0.326 0.328 0.334 0.346 0.341 3.56
0.343
44) TM 11dicloprope 0.151 0.149 0.141 0.136 0.138 0.139 0.146 0.143 3.83
0.142
45) S SURR12DCAd4 0.088 0.086 0.081 0.083 0.078 0.078 0.082 0.082# 4.16
0.080
46) TM Benzene 1.210 1.120 1.041 1.049 0.982 0.998 1.053 1.059 6.95
1.021
47) TM 12dichlorota 0.425 0.402 0.364 0.353 0.323 0.316 0.334 0.355 11.33
0.322
48) T TAME 0.979 0.904 0.865 0.857 0.811 0.852 0.901 0.882 5.60
0.889
49) TM Trichloroete 0.336 0.300 0.286 0.284 0.268 0.279 0.287 0.291 6.91
0.289
50) T methylcyclohexa 0.431 0.410 0.412 0.329 0.377 0.384 0.402 0.394 7.99
0.411
51) CTM 12dicloropra 0.297 0.261 0.256 0.256 0.230 0.242 0.246 0.254 7.88
0.244
52) T 23Dicl1propene 0.480 0.429 0.405 0.418 0.398 0.415 0.439 0.428 6.03
0.439
53) TM Dibromometha 0.301 0.273 0.254 0.247 0.231 0.235 0.243 0.253 9.05
0.245
54) T methylmethacryl 0.172 0.252 0.237 0.232 0.223 0.230 0.246 0.230 11.10
0.248
55) TM Bromodiclrma 0.448 0.393 0.376 0.371 0.334 0.344 0.367 0.375 9.28
0.365
56) T 2CLEVE 0.240 0.209 0.205 0.209 0.200 0.205 0.209 0.210 5.99
0.204
57) TM c13dicloproe 0.466 0.422 0.416 0.411 0.406 0.413 0.440 0.425 4.64
0.424
58) TM 4Meth2pentan 0.448 0.358 0.356 0.343 0.323 0.320 0.322 0.349 12.34
0.321
59) S SURRd8Tolule 1.012 1.032 0.987 0.976 0.952 0.944 0.954 0.971 4.02
0.911
60) CTM Toluene 0.842 0.754 0.676 0.675 0.628 0.637 0.647 0.685 11.16
0.620
61) TM t13Dicloprop 0.419 0.364 0.365 0.369 0.367 0.378 0.409 0.385 5.93
0.406
62) T ethylmethacryla 0.513 0.429 0.399 0.404 0.369 0.376 0.384 0.406 11.72

```
                    0.374
63) TM  112Triclotha    0.302 0.244 0.223 0.238 0.219 0.228 0.243 0.241  10.92
                    0.229
64) TM  Tetrachlorte    0.355 0.308 0.307 0.291 0.280 0.284 0.309 0.305   7.57
                    0.306
65) TM  13Diclorpropa   0.571 0.442 0.445 0.453 0.417 0.425 0.453 0.456  10.49
                    0.445

66) I   d5-CHLOROBENZENE**IST ----------------ISTD--------------------
67) TM  2Hexanone       0.466 0.349 0.364 0.361 0.340 0.345 0.326 0.359  12.70
                    0.321
68) TM  Clorodibrmta    0.500 0.394 0.404 0.424 0.432 0.458 0.469 0.443   8.10
                    0.461
69) TM  12Dibrometha    0.521 0.424 0.428 0.458 0.448 0.471 0.477 0.462   6.66
                    0.465
70) T   1Clhexane       0.381 0.367 0.302 0.294 0.271 0.268 0.277 -----
                    0.264
                                                      L  M=  0.262 R=1.000
                                                         B=  0.011
71) PTM Chlorobenzen    1.344 1.093 1.031 1.052 0.982 1.015 1.043 1.071  10.72
                    1.010
72) TM  1112tetclota    0.413 0.316 0.319 0.328 0.328 0.358 0.363 0.350   9.56
                    0.372
73) CTM Ethylbenzene    1.923 1.619 1.606 1.623 1.538 1.598 1.614 1.636   7.31
                    1.567
74) TM  m p-Xylene      0.732 0.636 0.618 0.639 0.611 0.635 0.642 0.641   6.06
                    0.613
75) TM  o-Xylene        0.756 0.632 0.622 0.619 0.598 0.609 0.621 0.632   8.18
                    0.596
76) TM  Styrene         1.235 1.009 1.013 1.040 1.005 1.062 1.055 1.054   7.26
                    1.011
77) PTM Bromoform       0.334 0.251 0.272 0.289 0.287 0.316 0.332 0.304  11.42
                    0.352
78) TM  Isopropylben    1.820 1.536 1.460 1.491 1.450 1.484 1.525 1.528   8.01
                    1.456

79) I   d4-1,4-DICHLOROBENZEN ----------------ISTD--------------------
80) T   cyclohexanone   0.021 0.024 0.027 0.025 0.024 0.024 0.022 0.023#  9.33
                    0.020
81) S   SURR4BrFBenz    0.906 0.899 0.894 0.873 0.882 0.837 0.856 0.871   3.38
                    0.825
82) TM  Bromobenzene    1.105 0.883 0.842 0.808 0.813 0.808 0.826 0.865  11.55
                    0.837
83) PTM 1122Tetrclta    1.419 1.005 1.064 1.015 0.991 0.989 0.987 1.060  13.90
                    1.008
84) TM  123triclproa    1.085 0.805 0.779 0.771 0.704 0.715 0.722 -----
                    0.734
                                                      L  M=  0.728 R=1.000
                                                         B=  0.004
85) TM  n-Propylbenz    4.020 3.246 3.229 3.163 3.155 3.092 3.198 3.281   9.22
                    3.145
86) T   14dichloro2bute 1.085 0.805 0.779 0.771 0.704 0.715 0.722 -----
                    0.734
                                                      L  M=  0.728 R=1.000
                                                         B=  0.004
87) TM  2chlorotolue    2.357 1.900 1.905 1.845 1.793 1.767 1.819 1.894  10.25
                    1.771
88) TM  4chlorotolue    2.754 2.202 2.204 2.186 2.098 2.055 2.096 2.208  10.38
                    2.065
89) TM  135Trimebenz    2.668 2.090 2.097 2.114 2.074 2.040 2.082 2.156   9.64
                    2.083
90) TM  tbutylbenzen    2.249 1.896 1.863 1.793 1.765 1.764 1.811 1.869   8.56
                    1.813
91) TM  124Trimetben    2.754 2.054 2.131 2.105 2.076 2.068 2.126 2.174  10.86
                    2.075
92) TM  sbutylbenzen    3.305 2.649 2.698 2.602 2.640 2.561 2.658 2.713   8.94
                    2.596
93) TM  13Diclorbenz    1.831 1.401 1.382 1.386 1.351 1.346 1.404 1.438  11.16
                    1.399
94) TM  pIsopropylto    2.581 2.056 2.123 2.100 2.136 2.087 2.167 2.172   7.76
                    2.124
95) TM  14dichlorobe    1.973 1.524 1.492 1.461 1.437 1.423 1.461 1.526  12.01
                    1.439
96) TM  12dichlorobe    1.918 1.401 1.404 1.383 1.354 1.314 1.378 1.441  13.52
                    1.377
97) TM  nButylbenzen    2.551 1.910 1.984 1.870 1.871 1.816 1.892 1.969  12.20
                    1.858
98) TM  12dibromo3cl    0.296 0.221 0.208 0.219 0.219 0.221 0.220 0.231  12.17
                    0.243
```

99)	T	135Trichloroben	1.144	0.949	0.944	0.874	0.879	0.850	0.896	0.931	9.94
			0.914								
100)	TM	124trichlobe	1.095	0.834	0.818	0.790	0.765	0.753	0.777	0.828	13.42
			0.793								
101)	TM	Hexachlorobu	0.444	0.363	0.331	0.315	0.323	0.296	0.328	0.338	13.83
			0.308								
102)	TM	Naphthalene	3.156	2.454	2.490	2.502	2.457	2.405	2.494	2.573	9.48
			2.624								
103)	TM	123Trichlben	0.954	0.758	0.781	0.731	0.730	0.692	0.735	0.766	10.45
			0.747								

Total Average %RSD 8.93

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range

PS120210.M Tue Dec 14 11:01:49 2010

Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS2.D Vial: 5
Acq On : 2 Dec 2010 17:51 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 0.10/1.00 mg/kg, 5.0 mL PURGED+ ISTD/SST Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:55 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:53:51 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.93	96	914870	1.00 mg/kg	0.00 NA%
66) d5-CHLOROBENZENE**ISTD**	16.94	117	735982	1.00 mg/kg	0.00 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.19	152	390032	1.00 mg/kg	0.00 NA%
System Monitoring Compounds					
42) SURRDibrflma	8.65	113	317297	1.000 mg/kg	0.00
Spiked Amount 0.950	Range 77 - 121		Recovery = 105 %		
45) SURR12DCAd4	9.28	102	74597	0.965 mg/kg	0.00
Spiked Amount 0.950	Range 77 - 119		Recovery = 102 %		
59) SURRd8Tolule	13.41	98	897069	0.988 mg/kg	0.02
Spiked Amount 0.950	Range 84 - 126		Recovery = 104 %		
81) SURR4BrFBenz	20.06	95	333016	0.959 mg/kg	0.00
Spiked Amount 0.950	Range 88 - 128		Recovery = 101 %		
Target Compounds					Qvalue
2) Dichlorodi	1.89	85	35735	0.1631 mg/kg	98
3) Chloromethan	2.17	50	34680	0.1273 mg/kg	99
4) Vinylchlorid	2.33	62	38889	0.1474 mg/kg	97
5) Bromomethane	2.82	94	52959	0.1498 mg/kg	88
6) Chloroethane	2.97	64	10581	0.1033 mg/kg#	50
7) Trichlorofma	3.38	101	48595	0.1510 mg/kg	95
8) Dichloroflmethane	3.37	67	64285	0.1426 mg/kg	97
9) Ethylether	3.98	59	25942	0.1370 mg/kg	97
10) dichlorotfluoroethan	4.04	67	39064	0.1496 mg/kg	98
11) propyleneoxide	4.08	58	80283	1.2916 mg/kg	93
12) Acrolein	4.25	56	19391	0.6014 mg/kg	96
13) 11dichlorthe	4.30	96	28694	0.1485 mg/kg	92
14) Trichlorotfluoroeth	4.29	101	63420	0.2896 mg/kg	99
15) Acetone	4.55	43	158550	1.2242 mg/kg	100
16) Iodomethane	4.57	142	64346	0.2220 mg/kg	97
17) Carbon Dislf	4.64	76	183026	0.2901 mg/kg	98
18) allylchloride	4.99	41	63040	0.2556 mg/kg	94
19) methylacetate	5.12	74	13960	0.1170 mg/kg	99
20) Methylchlorid	5.25	84	97593	0.1432 mg/kg	95
21) t12dichlorte	5.71	96	33261	0.1440 mg/kg	98
22) tbutylalcohol	5.67	59	165637	5.4850 mg/kg	98
23) MtBE	5.73	73	80749	0.1275 mg/kg	99
24) Acrylonitrile	5.79	53	65287	0.6278 mg/kg	96
25) Hexane	6.14	57	55328	0.2914 mg/kg	99
26) 11dichlorota	6.51	63	47276	0.1414 mg/kg	99
27) Vinylacetate	6.67	43	429140	1.0576 mg/kg	98
28) chloroprene	6.65	53	64752	0.2776 mg/kg	96
29) Diisopether	6.63	45	82257	0.1311 mg/kg#	55
30) ETBE	7.33	59	76491	0.1328 mg/kg	98
31) 22dichloropr	7.59	77	37601	0.1339 mg/kg	94
32) c12dichlorte	7.67	96	34950	0.1386 mg/kg	94
33) 2Butanone	7.76	43	157856	1.1376 mg/kg	98
34) Ethylacetate	7.88	43	29566	0.1433 mg/kg	96
35) propionitrile	7.91	54	49134	1.2349 mg/kg	95
36) Bromochlorma	8.14	128	19476	0.1416 mg/kg	99
37) methacrylonitrile	8.15	67	29802	0.2494 mg/kg#	1
38) tetrahydofur	8.22	42	104381	1.2384 mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS2.D Vial: 5
Acq On : 2 Dec 2010 17:51 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 0.10/1.00 mg/kg, 5.0 mL PURGED+ ISTD/SST Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:55 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:53:51 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	8.33	83	53531	0.1336 mg/kg	94
40)	111trichlota	8.55	97	38258	0.1319 mg/kg	98
41)	Cyclohexane	8.60	56	34635	0.1410 mg/kg	96
43)	Carbtetraclo	8.87	119	30896	0.1303 mg/kg	98
44)	11dicloprope	8.90	110	13655	0.1346 mg/kg	98
46)	Benzene	9.32	78	102494	0.1387 mg/kg#	4
47)	12dichlorota	9.44	62	36746	0.1357 mg/kg	97
48)	TAME	9.58	73	82692	0.1346 mg/kg	94
49)	Trichloroete	10.70	95	27462	0.1423 mg/kg	99
50)	methylcyclohexane	10.99	83	37465	0.1454 mg/kg	97
51)	12dicloropra	11.20	63	23845	0.1277 mg/kg	96
52)	23Dicl1propene	11.35	75	39282	0.1317 mg/kg	97
53)	Dibromometha	11.51	93	24979	0.1414 mg/kg	96
54)	methylmethacrylate	11.54	69	23071	0.1422 mg/kg	96
55)	Bromodiclrma	11.90	83	35940	0.1316 mg/kg	96
56)	2CLEVE	12.61	63	95539	0.6610 mg/kg	97
57)	c13dicloproe	12.88	75	38614	0.1353 mg/kg	99
58)	4Meth2pentan	13.28	43	327877	1.2659 mg/kg	99
60)	Toluene	13.56	92	68961	0.1370 mg/kg	100
61)	t13Dicloprop	14.24	75	33287	0.1271 mg/kg	100
62)	ethylmethacrylate	14.46	69	78422	0.2765 mg/kg	98
63)	112Triclotha	14.65	83	22357	0.1307 mg/kg	97
64)	Tetrachlorte	14.83	166	28220	0.1324 mg/kg	99
65)	13Diclorpropa	15.03	76	40438	0.1266 mg/kg	89
67)	2Hexanone	15.29	43	256845	1.1763 mg/kg	98
68)	Clorodibrmta	15.59	129	28969	0.1227 mg/kg	96
69)	12Dibrometha	15.80	107	31209	0.1238 mg/kg	95
70)	1Clhexane	17.02	55	27031	0.1666 mg/kg	86
71)	Chlorobenzen	17.01	112	80417	0.1317 mg/kg	93
72)	1112tetclota	17.26	131	23276	0.1232 mg/kg	100
73)	Ethylbenzene	17.29	91	119146	0.1270 mg/kg	98
74)	m p-Xylene	17.61	106	93580	0.2613 mg/kg	96
75)	o-Xylene	18.63	106	46506	0.1297 mg/kg	98
76)	Styrene	18.70	104	74249	0.1266 mg/kg	98
77)	Bromoform	19.22	173	18474	0.1108 mg/kg	97
78)	Isopropylben	19.61	105	113032	0.1318 mg/kg	100
80)	cyclohexanone	19.94	55	18985	2.4011 mg/kg	97
82)	Bromobenzene	20.39	156	34444	0.1361 mg/kg	99
83)	1122Tetrclta	20.63	83	39202	0.1225 mg/kg	99
84)	123triclproa	20.67	75	31399	0.1274 mg/kg	100
85)	n-Propylbenz	20.73	91	126621	0.1312 mg/kg	98
86)	14dichloro2butene	20.67	75	31399	0.1274 mg/kg#	98
87)	2chlorotolue	20.93	91	74103	0.1315 mg/kg	99
88)	4chlorotolue	21.24	91	85886	0.1301 mg/kg	99
89)	135Trimebenz	21.24	105	81507	0.1294 mg/kg	93
90)	tbutylbenzen	22.09	119	73934	0.1351 mg/kg	99
91)	124Trimetben	22.26	105	80130	0.1263 mg/kg	100
92)	sbutylbenzen	22.70	105	103314	0.1277 mg/kg	99
93)	13Diclorbenz	22.99	146	54636	0.1289 mg/kg	98
94)	pIsopropylto	23.14	119	80173	0.1228 mg/kg	98
95)	14dichlorobe	23.25	146	59432	0.1297 mg/kg	95
96)	12dichlorobe	24.27	146	54651	0.1253 mg/kg	92
97)	nButylbenzen	24.29	91	74495	0.1299 mg/kg	99
98)	12dibromo3cl	26.54	157	8609	0.1301 mg/kg	87
99)	135Trichlorobenzene	27.04	180	37031	0.1336 mg/kg	98
100)	124trichlobe	28.70	180	32535	0.1297 mg/kg	94
101)	Hexachlorobu	29.09	225	14161	0.1435 mg/kg	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS2.D Vial: 5
Acq On : 2 Dec 2010 17:51 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 0.10/1.00 mg/kg, 5.0 mL PURGED+ ISTD/SST Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:55 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:53:51 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

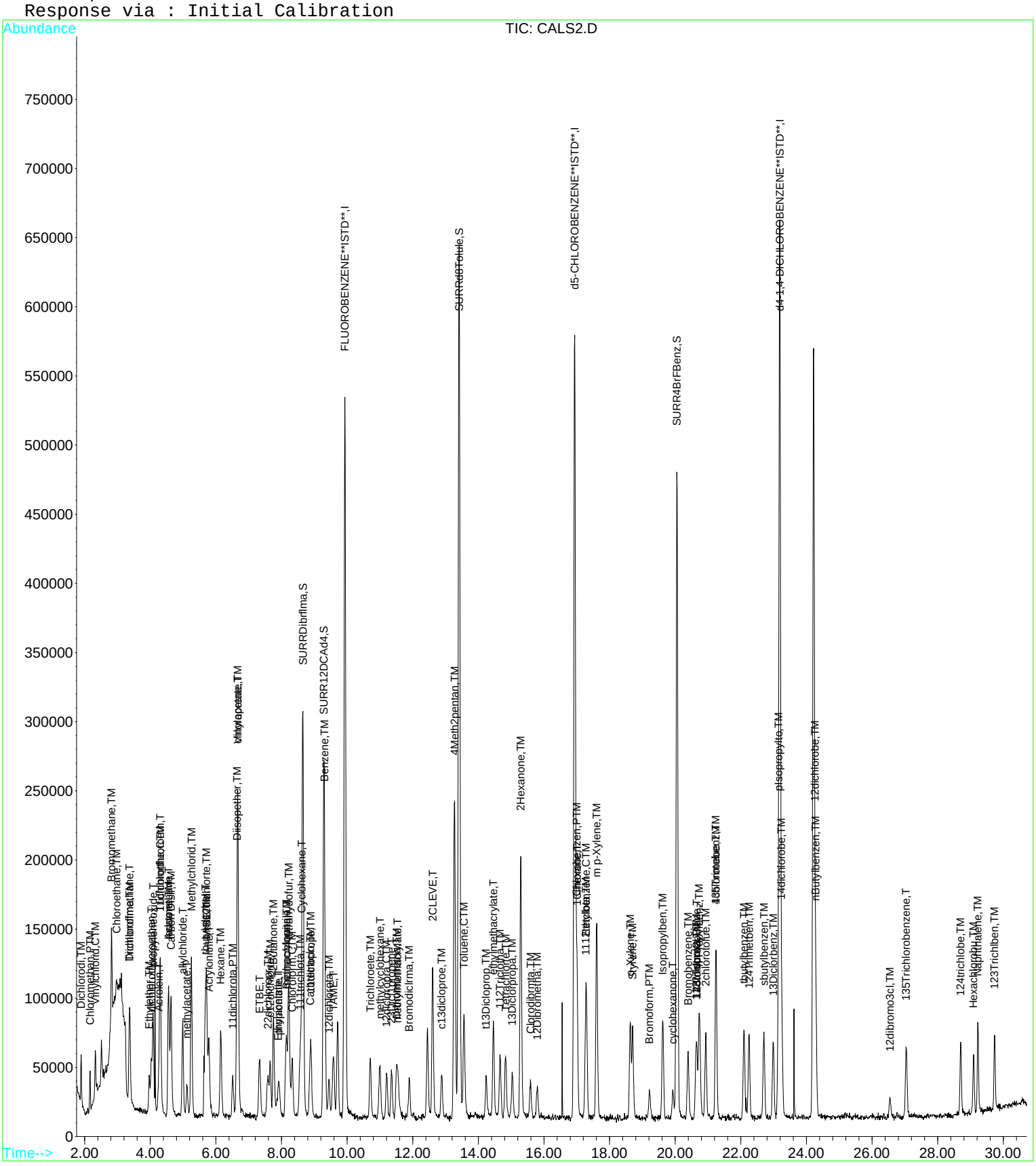
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Naphthalene	29.23	128	95717	0.1203 mg/kg	99
103) 123Trichlben	29.73	180	29568	0.1278 mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : N:\DATA\DEC0210C\CALS2.D Vial: 5
Acq On : 2 Dec 2010 17:51 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 0.10/1.00 mg/kg, 5.0 mL PURGED+ ISTD/SST Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:55 2010 Quant Results File: PS120210.RES

Method : N:\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS3.D Vial: 6
Acq On : 2 Dec 2010 18:30 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 0.25/2.50 mg/kg, 5.0 mL PURGED+ ISTD/SS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:56 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:53:51 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.92	96	965844	1.00	mg/kg	0.00 NA%
66) d5-CHLOROBENZENE**ISTD**	16.93	117	741949	1.00	mg/kg	0.00 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.19	152	390299	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
42) SURRDibrflma	8.64	113	313158	0.919	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 121		Recovery = 97 %			
45) SURR12DCAd4	9.28	102	74027	0.902	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 119		Recovery = 95 %			
59) SURRd8Tolule	13.41	98	905453	0.932	mg/kg	0.00
Spiked Amount 0.950	Range 84 - 126		Recovery = 98 %			
81) SURR4BrFBenz	20.05	95	331466	0.951	mg/kg	0.00
Spiked Amount 0.950	Range 88 - 128		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.89	85	84202	0.3008	mg/kg	96
3) Chloromethan	2.16	50	84557	0.2695	mg/kg	99
4) Vinylchlorid	2.32	62	93874	0.2910	mg/kg	98
5) Bromomethane	2.82	94	98695	0.2953	mg/kg	90
6) Chloroethane	2.96	64	21305	0.1949	mg/kg	100
7) Trichlorofma	3.35	101	139913	0.3520	mg/kg	97
8) Dichloroflmethane	3.36	67	178631	0.3286	mg/kg	97
9) Ethylether	3.96	59	62184	0.2769	mg/kg	97
10) dichlorotfluoroethan	4.03	67	91937	0.2862	mg/kg	98
11) propyleneoxide	4.08	58	208113	2.8904	mg/kg	100
12) Acrolein	4.22	56	52914	1.4561	mg/kg	92
13) 11dichlorthe	4.29	96	68522	0.2892	mg/kg	94
14) Trichlorotfluoroeth	4.28	101	163903	0.6168	mg/kg	98
15) Acetone	4.54	43	364053	2.4774	mg/kg	98
16) Iodomethane	4.55	142	144491	0.4280	mg/kg	97
17) Carbon Dislf	4.62	76	455159	0.5942	mg/kg	99
18) allylchloride	4.97	41	161106	0.5663	mg/kg	99
19) methylacetate	5.11	74	30737	0.2310	mg/kg	100
20) Methylchlorid	5.25	84	149084	0.2704	mg/kg	100
21) t12dichlorte	5.70	96	78988	0.2825	mg/kg	98
22) tbutylalcohol	5.66	59	480397	14.5966	mg/kg	98
23) MtBE	5.71	73	215437	0.2952	mg/kg	96
24) Acrylonitrile	5.77	53	173772	1.4586	mg/kg	99
25) Hexane	6.13	57	146273	0.6333	mg/kg	100
26) 11dichlorota	6.51	63	113652	0.2829	mg/kg	98
27) Vinylacetate	6.65	43	1365106	2.5318	mg/kg	100
28) chloroprene	6.64	53	167931	0.6039	mg/kg	98
29) Diisopether	6.63	45	208258	0.2849	mg/kg#	93
30) ETBE	7.32	59	194874	0.2889	mg/kg	99
31) 22dichloropr	7.57	77	91262	0.2766	mg/kg	98
32) c12dichlorte	7.65	96	81556	0.2714	mg/kg	97
33) 2Butanone	7.75	43	439412	2.8680	mg/kg	99
34) Ethylacetate	7.85	43	81731	0.3279	mg/kg	100
35) propionitrile	7.90	54	132110	2.9167	mg/kg	98
36) Bromochlorma	8.12	128	45802	0.2770	mg/kg	96
37) methacrylonitrile	8.15	67	81528	0.5971	mg/kg	96
38) tetrahydofur	8.20	42	278163	2.8959	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS3.D Vial: 6
Acq On : 2 Dec 2010 18:30 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 0.25/2.50 mg/kg, 5.0 mL PURGED+ ISTD/SS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:56 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:53:51 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	8.32	83	126676	0.2693 mg/kg	98
40)	111trichlota	8.54	97	99047	0.2924 mg/kg	98
41)	Cyclohexane	8.58	56	95080	0.3225 mg/kg	96
43)	Carbtetraclo	8.86	119	85712	0.3110 mg/kg	98
44)	11dicloprope	8.89	110	34159	0.2859 mg/kg	98
46)	Benzene	9.31	78	251425	0.2855 mg/kg#	74
47)	12dichlorota	9.44	62	87816	0.2746 mg/kg	99
48)	TAME	9.58	73	208765	0.2886 mg/kg	99
49)	Trichloroete	10.69	95	68972	0.2967 mg/kg	99
50)	methylcyclohexane	10.98	83	99418	0.3175 mg/kg	96
51)	12dicloropra	11.20	63	61782	0.2869 mg/kg	97
52)	23Dicl1propene	11.35	75	97779	0.2808 mg/kg	99
53)	Dibromometha	11.50	93	61269	0.2887 mg/kg	91
54)	methylmethacrylate	11.55	69	57158	0.2926 mg/kg	99
55)	Bromodiclrma	11.89	83	90837	0.2851 mg/kg	99
56)	2CLEVE	12.60	63	247297	1.4635 mg/kg	98
57)	c13dicloproe	12.87	75	100535	0.2986 mg/kg	99
58)	4Meth2pentan	13.27	43	860400	2.8905 mg/kg	99
60)	Toluene	13.55	92	163201	0.2734 mg/kg	99
61)	t13Dicloprop	14.23	75	88222	0.2927 mg/kg	98
62)	ethylmethacrylate	14.45	69	192456	0.5700 mg/kg	98
63)	112Triclotha	14.66	83	53807	0.2703 mg/kg	95
64)	Tetrachlorte	14.83	166	74082	0.2971 mg/kg	98
65)	13Diclorpropa	15.03	76	107555	0.2930 mg/kg	96
67)	2Hexanone	15.28	43	674998	2.8963 mg/kg	100
68)	Clorodibrmta	15.58	129	74926	0.2927 mg/kg	98
69)	12Dibrometha	15.79	107	79442	0.2896 mg/kg	94
70)	1Clhexane	17.00	55	55998	0.2801 mg/kg	98
71)	Chlorobenzen	17.00	112	191252	0.2811 mg/kg	99
72)	1112tetclota	17.26	131	59098	0.2880 mg/kg	97
73)	Ethylbenzene	17.29	91	297882	0.2890 mg/kg	99
74)	m p-Xylene	17.60	106	229273	0.5762 mg/kg	97
75)	o-Xylene	18.63	106	115402	0.2905 mg/kg	98
76)	Styrene	18.70	104	187876	0.2919 mg/kg	98
77)	Bromoform	19.22	173	50404	0.2895 mg/kg	95
78)	Isopropylben	19.62	105	270868	0.2833 mg/kg	99
80)	cyclohexanone	19.92	55	52455	6.2142 mg/kg	97
82)	Bromobenzene	20.39	156	82111	0.2894 mg/kg	98
83)	1122Tetrclta	20.63	83	103842	0.3017 mg/kg	97
84)	123triclproa	20.67	75	76026	0.2825 mg/kg	99
85)	n-Propylbenz	20.73	91	315076	0.2955 mg/kg	99
86)	14dichloro2butene	20.67	75	76026	0.2825 mg/kg#	92
87)	2chlorotolue	20.92	91	185867	0.2983 mg/kg	97
88)	4chlorotolue	21.24	91	215096	0.2959 mg/kg	98
89)	135Trimebenz	21.24	105	204659	0.2957 mg/kg	97
90)	tbutylbenzen	22.09	119	181807	0.2972 mg/kg	100
91)	124Trimetben	22.24	105	207904	0.3011 mg/kg	100
92)	sbutylbenzen	22.71	105	263270	0.2977 mg/kg	98
93)	13Diclorbenz	22.98	146	134841	0.2900 mg/kg	97
94)	pIsopropylto	23.14	119	207154	0.2947 mg/kg	98
95)	14dichlorobe	23.26	146	145568	0.2889 mg/kg	98
96)	12dichlorobe	24.26	146	137027	0.2895 mg/kg	99
97)	nButylbenzen	24.29	91	193608	0.3068 mg/kg	97
98)	12dibromo3cl	26.54	157	20266	0.2781 mg/kg	95
99)	135Trichlorobenzene	27.05	180	92129	0.2987 mg/kg	98
100)	124trichlobe	28.70	180	79825	0.2894 mg/kg	98
101)	Hexachlorobu	29.09	225	32314	0.2858 mg/kg	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS3.D Vial: 6
Acq On : 2 Dec 2010 18:30 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 0.25/2.50 mg/kg, 5.0 mL PURGED+ ISTD/SS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:56 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:53:51 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

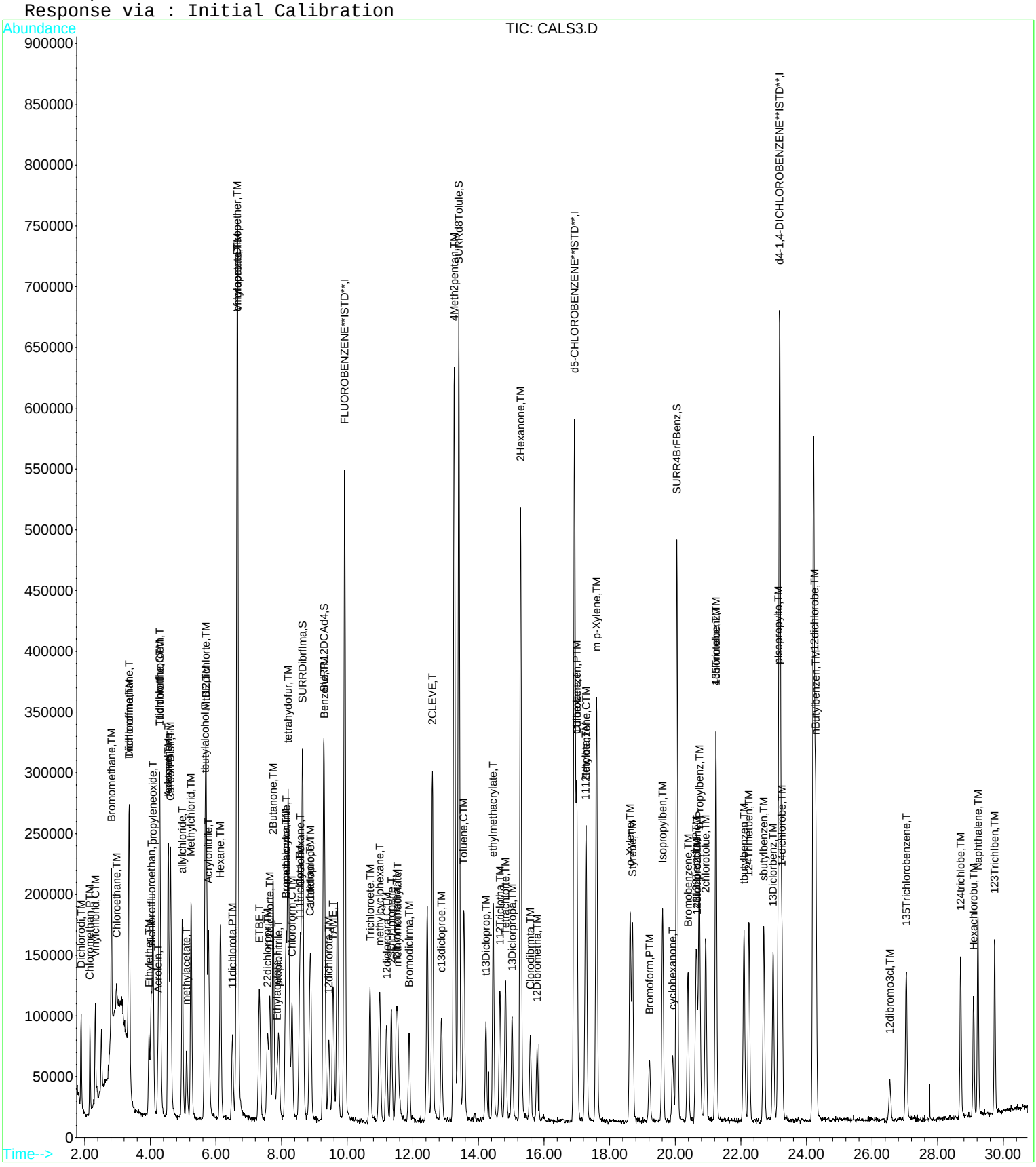
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Naphthalene	29.23	128	243003	0.2859	mg/kg	99
103) 123Trichlben	29.74	180	76249	0.3015	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : N:\DATA\DEC0210C\CALS3.D Vial: 6
Acq On : 2 Dec 2010 18:30 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 0.25/2.50 mg/kg, 5.0 mL PURGED+ ISTD/SS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:56 2010 Quant Results File: PS120210.RES

Method : N:\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS4.D Vial: 7
Acq On : 2 Dec 2010 19:08 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:56 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:53:51 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.92	96	1012593	1.00	mg/kg	0.00 NA%
66) d5-CHLOROBENZENE**ISTD**	16.93	117	755657	1.00	mg/kg	0.00 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.18	152	412492	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
42) SURRDibrflma	8.64	113	326955	0.923	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 121		Recovery = 97 %			
45) SURR12DCAd4	9.28	102	79405	0.935	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 119		Recovery = 98 %			
59) SURRd8Tolule	13.40	98	938988	0.926	mg/kg	0.00
Spiked Amount 0.950	Range 84 - 126		Recovery = 97 %			
81) SURR4BrFBenz	20.05	95	342138	0.928	mg/kg	0.00
Spiked Amount 0.950	Range 88 - 128		Recovery = 98 %			
Target Compounds						Qvalue
2) Dichlorodi	1.89	85	146794	0.4760	mg/kg	100
3) Chloromethan	2.16	50	168220	0.5017	mg/kg	100
4) Vinylchlorid	2.33	62	180536	0.5128	mg/kg	100
5) Bromomethane	2.82	94	159161	0.4880	mg/kg	99
6) Chloroethane	2.97	64	44292	0.4090	mg/kg	98
7) Trichlorofma	3.35	101	213977	0.4659	mg/kg	99
8) Dichloroflmethane	3.36	67	319039	0.5190	mg/kg	100
9) Ethylether	3.96	59	130950	0.5417	mg/kg	100
10) dichlorotfluoroethan	4.03	67	178224	0.5108	mg/kg	100
11) propyleneoxide	4.08	58	437059	5.5724	mg/kg	100
12) Acrolein	4.22	56	107291	2.7046	mg/kg	100
13) 11dichlorthe	4.28	96	127960	0.4957	mg/kg	98
14) Trichlorotfluoroeth	4.29	101	286105	0.9703	mg/kg	100
15) Acetone	4.53	43	782904	5.0932	mg/kg	100
16) Iodomethane	4.56	142	361712	1.0149	mg/kg	100
17) Carbon Dislf	4.62	76	904558	1.0756	mg/kg	100
18) allylchloride	4.97	41	327775	1.0637	mg/kg	100
19) methylacetate	5.10	74	61500	0.4493	mg/kg	100
20) Methylchlorid	5.24	84	230189	0.4869	mg/kg	100
21) t12dichlorte	5.69	96	157947	0.5218	mg/kg	100
22) tbutylalcohol	5.66	59	1007472	28.0231	mg/kg	100
23) MtBE	5.71	73	452995	0.5664	mg/kg	99
24) Acrylonitrile	5.77	53	368890	2.9739	mg/kg	99
25) Hexane	6.13	57	243688	0.9435	mg/kg	100
26) 11dichlorota	6.51	63	229410	0.5274	mg/kg	100
27) Vinylacetate	6.66	43	2977903	4.9480	mg/kg	100
28) chloroprene	6.64	53	337347	1.1000	mg/kg	100
29) Diisopether	6.63	45	439007	0.5535	mg/kg	100
30) ETBE	7.32	59	406999	0.5540	mg/kg	100
31) 22dichloropr	7.57	77	185867	0.5235	mg/kg	100
32) c12dichlorte	7.64	96	167005	0.5190	mg/kg	99
33) 2Butanone	7.74	43	940517	5.6474	mg/kg	100
34) Ethylacetate	7.86	43	152884	0.5427	mg/kg	100
35) propionitrile	7.91	54	283985	5.7411	mg/kg	100
36) Bromochlorma	8.12	128	94581	0.5313	mg/kg	100
37) methacrylonitrile	8.15	67	168870	1.1251	mg/kg	100
38) tetrahydofur	8.19	42	572304	5.4667	mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS4.D Vial: 7
Acq On : 2 Dec 2010 19:08 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:56 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:53:51 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	8.32	83	262706	0.5226	mg/kg	100
40)	111trichlota	8.55	97	201314	0.5438	mg/kg	100
41)	Cyclohexane	8.58	56	175204	0.5285	mg/kg	100
43)	Carbtetraclo	8.86	119	165107	0.5386	mg/kg	100
44)	11dicloprope	8.89	110	68998	0.5317	mg/kg	100
46)	Benzene	9.31	78	531048	0.5555	mg/kg	100
47)	12dichlorota	9.44	62	178730	0.5202	mg/kg	100
48)	TAME	9.57	73	433865	0.5508	mg/kg	100
49)	Trichloroete	10.69	95	143723	0.5633	mg/kg	100
50)	methylcyclohexane	10.99	83	166447	0.4749	mg/kg	100
51)	12dicloropra	11.19	63	129796	0.5544	mg/kg	100
52)	23Dicl1propene	11.34	75	211759	0.5628	mg/kg	100
53)	Dibromometha	11.50	93	124856	0.5402	mg/kg	100
54)	methylmethacrylate	11.55	69	117423	0.5499	mg/kg	100
55)	Bromodiclrma	11.89	83	188042	0.5438	mg/kg	100
56)	2CLEVE	12.60	63	530156	2.8701	mg/kg	100
57)	c13dicloproe	12.88	75	207865	0.5616	mg/kg	100
58)	4Meth2pentan	13.26	43	1734183	5.3481	mg/kg	100
60)	Toluene	13.55	92	341702	0.5335	mg/kg	100
61)	t13Dicloprop	14.22	75	186622	0.5664	mg/kg	100
62)	ethylmethacrylate	14.45	69	408932	1.1162	mg/kg	100
63)	112Triclotha	14.66	83	120582	0.5664	mg/kg	100
64)	Tetrachlorte	14.83	166	147482	0.5388	mg/kg	100
65)	13Diclorpropa	15.03	76	229404	0.5715	mg/kg	100
67)	2Hexanone	15.29	43	1364644	5.5301	mg/kg	100
68)	Clorodibrmta	15.58	129	160284	0.5897	mg/kg	100
69)	12Dibrometha	15.79	107	173228	0.5964	mg/kg	100
70)	1Clhexane	17.00	55	111166	0.5300	mg/kg	95
71)	Chlorobenzen	17.00	112	397385	0.5561	mg/kg	100
72)	1112tetclota	17.25	131	123739	0.5703	mg/kg	100
73)	Ethylbenzene	17.29	91	613122	0.5621	mg/kg	100
74)	m p-Xylene	17.60	106	482588	1.1471	mg/kg	100
75)	o-Xylene	18.62	106	233700	0.5551	mg/kg	100
76)	Styrene	18.70	104	392832	0.5752	mg/kg	100
77)	Bromoform	19.21	173	109356	0.5933	mg/kg	100
78)	Isopropylben	19.62	105	563507	0.5600	mg/kg	100
80)	cyclohexanone	19.93	55	103594	10.9476	mg/kg	100
82)	Bromobenzene	20.38	156	166613	0.5346	mg/kg	100
83)	1122Tetrclta	20.63	83	209341	0.5472	mg/kg	100
84)	123triclproa	20.66	75	158990	0.5414	mg/kg	100
85)	n-Propylbenz	20.73	91	652370	0.5537	mg/kg	100
86)	14dichloro2butene	20.66	75	158990	0.5414	mg/kg#	100
87)	2chlorotolue	20.93	91	380479	0.5512	mg/kg	100
88)	4chlorotolue	21.24	91	450812	0.5611	mg/kg	100
89)	135Trimebenz	21.23	105	436015	0.5701	mg/kg	100
90)	tbutylbenzen	22.10	119	369780	0.5462	mg/kg	100
91)	124Trimetben	22.24	105	434112	0.5659	mg/kg	100
92)	sbutylbenzen	22.70	105	536598	0.5480	mg/kg	100
93)	13Diclorbenz	22.98	146	285799	0.5592	mg/kg	100
94)	pIsopropylto	23.14	119	433047	0.5580	mg/kg	100
95)	14dichlorobe	23.25	146	301362	0.5448	mg/kg	100
96)	12dichlorobe	24.26	146	285158	0.5484	mg/kg	100
97)	nButylbenzen	24.29	91	385654	0.5472	mg/kg	100
98)	12dibromo3cl	26.54	157	45083	0.5694	mg/kg	100
99)	135Trichlorobenzene	27.04	180	180162	0.5270	mg/kg	100
100)	124trichlobe	28.70	180	162878	0.5375	mg/kg	100
101)	Hexachlorobu	29.09	225	64965	0.5249	mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS4.D Vial: 7
Acq On : 2 Dec 2010 19:08 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:56 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:53:51 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

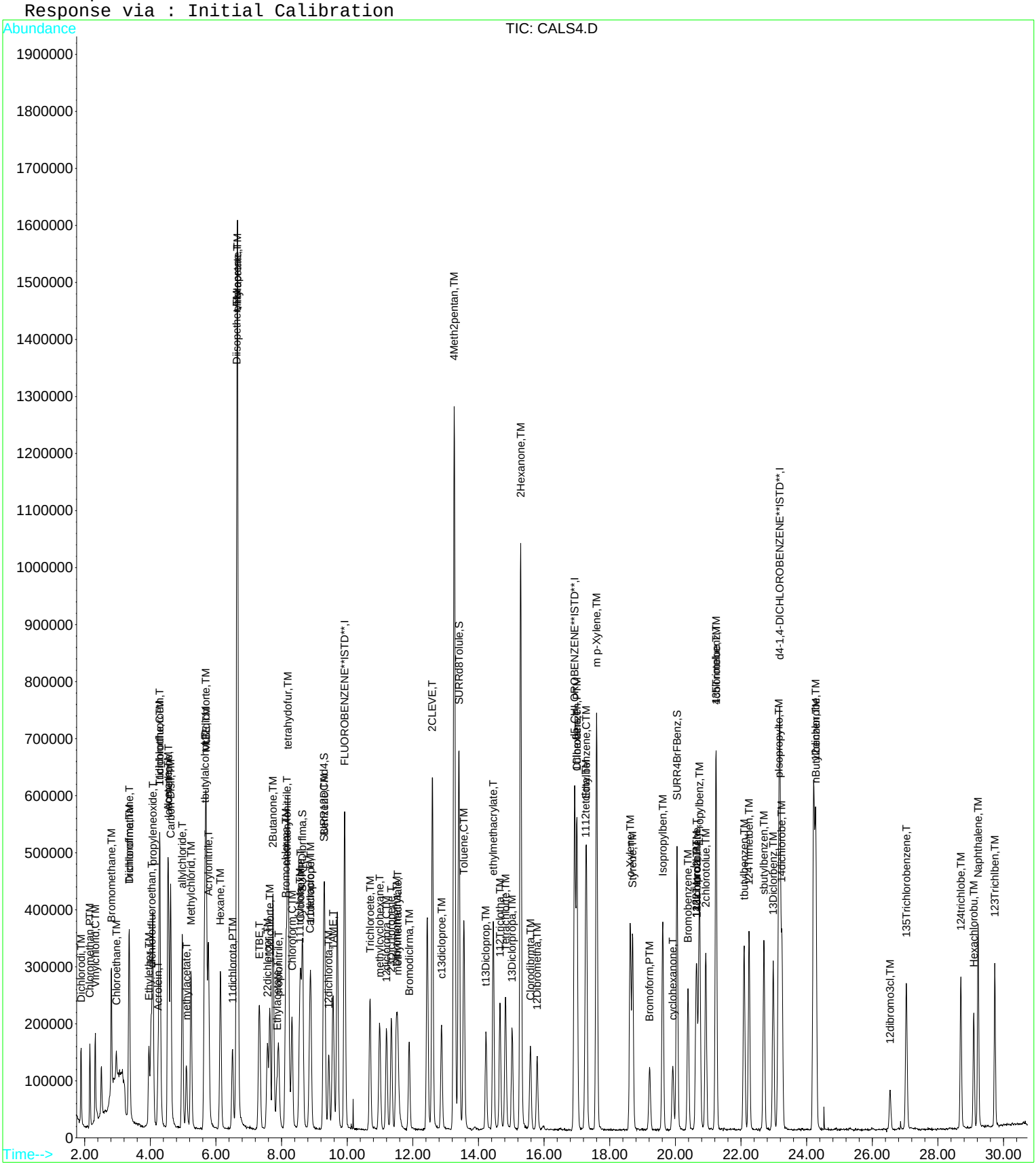
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Naphthalene	29.22	128	515990	0.5545	mg/kg	100
103) 123Trichlben	29.73	180	150798	0.5365	mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : N:\DATA\DEC0210C\CALS4.D Vial: 7
Acq On : 2 Dec 2010 19:08 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:56 2010 Quant Results File: PS120210.RES

Method : N:\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS5.D Vial: 8
Acq On : 2 Dec 2010 19:47 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 1.00/10.0 mg/kg, 5.0 mL PURGED+ ISTD/SST Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:56 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:53:51 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.93	96	1095294	1.00	mg/kg	0.00 NA%
66) d5-CHLOROBENZENE**ISTD**	16.93	117	801017	1.00	mg/kg	0.00 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.18	152	430105	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
42) SURRDibrflma	8.65	113	350918	0.917	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 121		Recovery = 97 %			
45) SURR12DCAd4	9.29	102	81509	0.888	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 119		Recovery = 93 %			
59) SURRd8Tolule	13.41	98	990470	0.905	mg/kg	0.01
Spiked Amount 0.950	Range 84 - 126		Recovery = 95 %			
81) SURR4BrFBenz	20.04	95	360365	0.938	mg/kg	0.00
Spiked Amount 0.950	Range 88 - 128		Recovery = 99 %			
Target Compounds						Qvalue
2) Dichlorodi	1.89	85	329122	0.9881	mg/kg	98
3) Chloromethan	2.16	50	330476	0.9125	mg/kg	95
4) Vinylchlorid	2.33	62	357715	0.9408	mg/kg	99
5) Bromomethane	2.82	94	268798	0.8085	mg/kg	96
6) Chloroethane	2.97	64	83273	0.7126	mg/kg	98
7) Trichlorofma	3.35	101	551341	1.1115	mg/kg	98
8) Dichloroflmethane	3.36	67	686134	1.0335	mg/kg	99
9) Ethylether	3.96	59	252791	0.9683	mg/kg	95
10) dichlorotfluoroethan	4.03	67	358950	0.9527	mg/kg	98
11) propyleneoxide	4.08	58	851797	10.0570	mg/kg	98
12) Acrolein	4.24	56	214129	4.9984	mg/kg	97
13) 11dichlorthe	4.29	96	269498	0.9630	mg/kg	95
14) Trichlorotfluoroeth	4.29	101	639561	2.0065	mg/kg	98
15) Acetone	4.54	43	1480775	8.9234	mg/kg	98
16) Iodomethane	4.55	142	771190	1.9771	mg/kg	99
17) Carbon Dislf	4.62	76	1898051	2.0905	mg/kg	99
18) allylchloride	4.98	41	658647	1.9829	mg/kg	98
19) methylacetate	5.10	74	125895	0.8515	mg/kg	93
20) Methylchlorid	5.25	84	392327	0.8917	mg/kg	99
21) t12dichlorte	5.70	96	316125	0.9677	mg/kg	99
22) tbutylalcohol	5.67	59	2127226	54.6838	mg/kg	96
23) MtBE	5.71	73	896459	1.0380	mg/kg	96
24) Acrylonitrile	5.77	53	722590	5.4106	mg/kg	99
25) Hexane	6.14	57	596707	2.1393	mg/kg	99
26) 11dichlorota	6.50	63	454144	0.9667	mg/kg	98
27) Vinylacetate	6.66	43	6338106	9.5376	mg/kg	100
28) chloroprene	6.64	53	707618	2.1384	mg/kg	99
29) Diisopether	6.64	45	885262	1.0336	mg/kg#	90
30) ETBE	7.33	59	840691	1.0597	mg/kg	99
31) 22dichloropr	7.57	77	370269	0.9659	mg/kg	98
32) c12dichlorte	7.64	96	335997	0.9667	mg/kg	97
33) 2Butanone	7.74	43	1938868	10.7813	mg/kg	100
34) Ethylacetate	7.86	43	320136	1.0524	mg/kg	99
35) propionitrile	7.91	54	551752	10.3207	mg/kg	98
36) Bromochlorma	8.12	128	188389	0.9799	mg/kg	98
37) methacrylonitrile	8.15	67	344710	2.1269	mg/kg	97
38) tetrahydofur	8.19	42	1158274	10.2453	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS5.D Vial: 8
Acq On : 2 Dec 2010 19:47 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 1.00/10.0 mg/kg, 5.0 mL PURGED+ ISTD/SST Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:56 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:53:51 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	8.32	83	515776	0.9501 mg/kg	100
40)	111trichlota	8.56	97	416526	1.0418 mg/kg	98
41)	Cyclohexane	8.59	56	390727	1.0916 mg/kg	98
43)	Carbtetraclo	8.86	119	359443	1.0860 mg/kg	98
44)	11dicloprope	8.89	110	150812	1.0762 mg/kg	96
46)	Benzene	9.32	78	1075748	1.0420 mg/kg	89
47)	12dichlorota	9.43	62	353337	0.9523 mg/kg	100
48)	TAME	9.57	73	888723	1.0448 mg/kg	100
49)	Trichloroete	10.70	95	294083	1.0675 mg/kg	98
50)	methylcyclohexane	10.99	83	412599	1.0899 mg/kg	97
51)	12dicloropra	11.21	63	251610	0.9952 mg/kg	99
52)	23Dicl1propene	11.34	75	435453	1.0717 mg/kg	98
53)	Dibromometha	11.50	93	253150	1.0143 mg/kg	97
54)	methylmethacrylate	11.55	69	243760	1.0572 mg/kg	98
55)	Bromodiclrma	11.88	83	366027	0.9803 mg/kg	96
56)	2CLEVE	12.60	63	1097547	5.4969 mg/kg	98
57)	c13dicloproe	12.88	75	444273	1.1115 mg/kg	97
58)	4Meth2pentan	13.26	43	3538453	10.1079 mg/kg	99
60)	Toluene	13.56	92	687661	0.9950 mg/kg	99
61)	t13Dicloprop	14.23	75	401505	1.1295 mg/kg	98
62)	ethylmethacrylate	14.45	69	808185	2.0428 mg/kg	98
63)	112Triclotha	14.66	83	239505	1.0418 mg/kg	99
64)	Tetrachlorte	14.83	166	307214	1.0392 mg/kg	99
65)	13Diclorpropa	15.03	76	457143	1.0548 mg/kg	98
67)	2Hexanone	15.28	43	2724034	10.4287 mg/kg	99
68)	Clorodibrmta	15.58	129	345788	1.2020 mg/kg	99
69)	12Dibrometha	15.78	107	358996	1.1680 mg/kg	97
70)	1Clhexane	16.99	55	216850	0.9656 mg/kg	99
71)	Chlorobenzen	17.00	112	786558	1.0400 mg/kg	99
72)	1112tetclota	17.26	131	263083	1.1458 mg/kg	98
73)	Ethylbenzene	17.29	91	1232204	1.0674 mg/kg	100
74)	m p-Xylene	17.60	106	978948	2.1987 mg/kg	99
75)	o-Xylene	18.63	106	479342	1.0758 mg/kg	97
76)	Styrene	18.69	104	805272	1.1139 mg/kg	99
77)	Bromoform	19.22	173	230162	1.1799 mg/kg	97
78)	Isopropylben	19.61	105	1161447	1.0906 mg/kg	99
80)	cyclohexanone	19.91	55	202173	20.4936 mg/kg	97
82)	Bromobenzene	20.39	156	349847	1.0768 mg/kg	96
83)	1122Tetrclta	20.62	83	426072	1.0683 mg/kg	99
84)	123triclproa	20.66	75	302917	0.9895 mg/kg	97
85)	n-Propylbenz	20.72	91	1356778	1.1045 mg/kg	99
86)	14dichloro2butene	20.66	75	302917	0.9895 mg/kg#	99
87)	2chlorotolue	20.93	91	771321	1.0719 mg/kg	99
88)	4chlorotolue	21.23	91	902317	1.0772 mg/kg	99
89)	135Trimebenz	21.23	105	891884	1.1185 mg/kg	98
90)	tbutylbenzen	22.09	119	759136	1.0756 mg/kg	99
91)	124Trimetben	22.25	105	893016	1.1166 mg/kg	99
92)	sbutylbenzen	22.70	105	1135277	1.1120 mg/kg	100
93)	13Diclorbenz	22.98	146	581231	1.0908 mg/kg	99
94)	pIsopropylto	23.14	119	918906	1.1357 mg/kg	99
95)	14dichlorobe	23.24	146	617975	1.0715 mg/kg	98
96)	12dichlorobe	24.26	146	582421	1.0744 mg/kg	98
97)	nButylbenzen	24.28	91	804555	1.0950 mg/kg	99
98)	12dibromo3cl	26.55	157	94193	1.1411 mg/kg	100
99)	135Trichlorobenzene	27.04	180	378139	1.0610 mg/kg	98
100)	124trichlobe	28.69	180	329120	1.0418 mg/kg	100
101)	Hexachlorobu	29.10	225	139022	1.0774 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS5.D Vial: 8
Acq On : 2 Dec 2010 19:47 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 1.00/10.0 mg/kg, 5.0 mL PURGED+ ISTD/SST Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:56 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:53:51 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

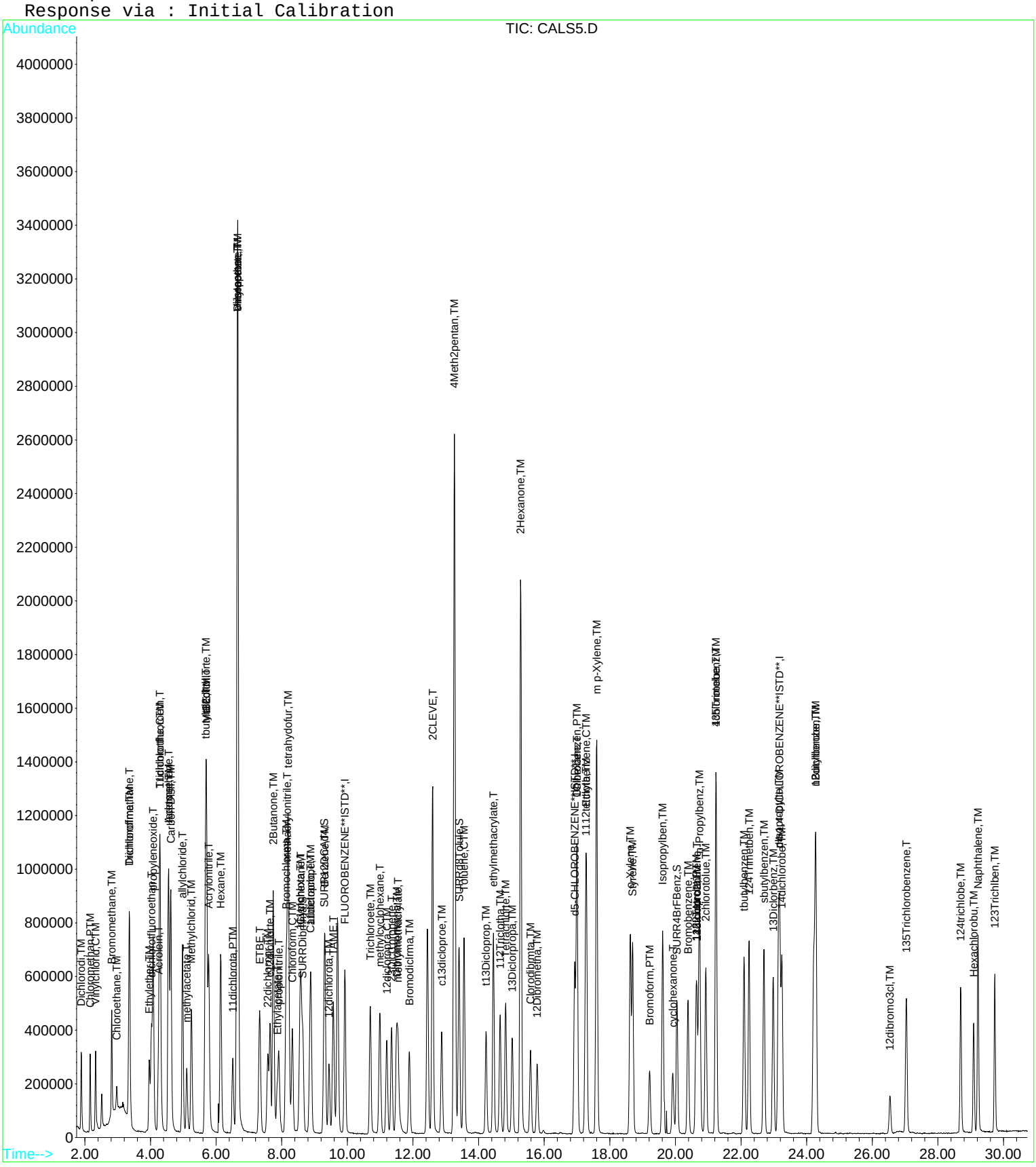
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Naphthalene	29.22	128	1056650	1.0896	mg/kg	99
103) 123Trichlben	29.74	180	314104	1.0720	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : N:\DATA\DEC0210C\CALS5.D Vial: 8
Acq On : 2 Dec 2010 19:47 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 1.00/10.0 mg/kg, 5.0 mL PURGED+ ISTD/SST Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:56 2010 Quant Results File: PS120210.RES

Method : N:\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS6.D Vial: 9
Acq On : 2 Dec 2010 20:25 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 1.50/15.0 mg/kg, 5.0 mL PURGED+ ISTD/SS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:57 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:53:51 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.92	96	1154144	1.00	mg/kg	0.00 NA%
66) d5-CHLOROBENZENE**ISTD**	16.92	117	829958	1.00	mg/kg	-0.01 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.18	152	465226	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
42) SURRDibrflma	8.64	113	365991	0.914	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 121		Recovery = 96 %			
45) SURR12DCAd4	9.27	102	85778	0.899	mg/kg	-0.01
Spiked Amount 0.950	Range 77 - 119		Recovery = 95 %			
59) SURRd8Tolule	13.41	98	1035086	0.906	mg/kg	0.00
Spiked Amount 0.950	Range 84 - 126		Recovery = 95 %			
81) SURR4BrFBenz	20.05	95	370042	0.893	mg/kg	0.00
Spiked Amount 0.950	Range 88 - 128		Recovery = 94 %			
Target Compounds						Qvalue
2) Dichlorodi	1.89	85	530758	1.5158	mg/kg	100
3) Chloromethan	2.16	50	512945	1.3680	mg/kg	98
4) Vinylchlorid	2.32	62	609118	1.5385	mg/kg	98
5) Bromomethane	2.82	94	404590	1.4429	mg/kg	95
6) Chloroethane	2.97	64	150285	1.2949	mg/kg	99
7) Trichlorofma	3.38	101	723699	1.3543	mg/kg	99
8) Dichloroflmethane	3.37	67	980095	1.3917	mg/kg	99
9) Ethylether	3.95	59	395965	1.4485	mg/kg	96
10) dichlorotfluoroethan	4.03	67	573496	1.4583	mg/kg	98
11) propyleneoxide	4.07	58	1372215	15.3578	mg/kg	99
12) Acrolein	4.22	56	342807	7.5945	mg/kg	100
13) 11dichlorthe	4.30	96	425678	1.4543	mg/kg	98
14) Trichlorotfluoroeth	4.29	101	1035560	3.0812	mg/kg	98
15) Acetone	4.51	43	2166994	12.6655	mg/kg	99
16) Iodomethane	4.56	142	1601878	3.9052	mg/kg	100
17) Carbon Dislf	4.63	76	3025878	3.1343	mg/kg	100
18) allylchloride	4.98	41	1077123	3.0827	mg/kg	99
19) methylacetate	5.09	74	169001	1.1180	mg/kg	98
20) Methylchlorid	5.24	84	560275	1.4193	mg/kg	98
21) t12dichlorte	5.70	96	505705	1.4786	mg/kg	100
22) tbutylalcohol	5.62	59	3424555	82.0084	mg/kg	97
23) MtBE	5.70	73	1477907	1.6118	mg/kg#	60
24) Acrylonitrile	5.76	53	1142581	7.9879	mg/kg	99
25) Hexane	6.14	57	967733	3.2474	mg/kg	98
26) 11dichlorota	6.51	63	719391	1.4630	mg/kg	99
27) Vinylacetate	6.66	43	10566780	15.5839	mg/kg	99
28) chloroprene	6.65	53	1130173	3.1969	mg/kg	99
29) Diisopether	6.63	45	1457666	1.6044	mg/kg#	87
30) ETBE	7.31	59	1391105	1.6444	mg/kg	99
31) 22dichloropr	7.57	77	581073	1.4484	mg/kg	98
32) c12dichlorte	7.64	96	537538	1.4776	mg/kg	95
33) 2Butanone	7.72	43	3012926	15.6548	mg/kg	99
34) Ethylacetate	7.85	43	528359	1.6312	mg/kg	99
35) propionitrile	7.90	54	863354	15.2282	mg/kg	99
36) Bromochlorma	8.12	128	306771	1.5204	mg/kg	98
37) methacrylonitrile	8.14	67	544994	3.1512	mg/kg	95
38) tetrahydofur	8.18	42	1760391	14.7051	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS6.D Vial: 9
Acq On : 2 Dec 2010 20:25 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 1.50/15.0 mg/kg, 5.0 mL PURGED+ ISTD/SS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:57 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:53:51 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	8.32	83	828901	1.4637 mg/kg	100
40)	111trichlota	8.55	97	669926	1.5770 mg/kg	98
41)	Cyclohexane	8.58	56	617427	1.6076 mg/kg	97
43)	Carbtetraclo	8.86	119	578037	1.6293 mg/kg	98
44)	11dicloprope	8.89	110	241296	1.6096 mg/kg	96
46)	Benzene	9.31	78	1728597	1.5758 mg/kg	85
47)	12dichlorota	9.43	62	546339	1.4108 mg/kg	98
48)	TAME	9.56	73	1474739	1.6308 mg/kg	99
49)	Trichloroete	10.69	95	482880	1.6413 mg/kg	98
50)	methylcyclohexane	10.99	83	664679	1.6368 mg/kg	97
51)	12dicloropra	11.20	63	418397	1.5721 mg/kg	99
52)	23Dicl1propene	11.34	75	718365	1.6541 mg/kg	98
53)	Dibromometha	11.49	93	406137	1.5399 mg/kg	98
54)	methylmethacrylate	11.54	69	398054	1.6198 mg/kg	98
55)	Bromodiclrma	11.88	83	596174	1.5212 mg/kg	97
56)	2CLEVE	12.59	63	1776489	8.2791 mg/kg	98
57)	c13dicloproe	12.88	75	714471	1.6593 mg/kg	100
58)	4Meth2pentan	13.26	43	5546532	15.0038 mg/kg	99
60)	Toluene	13.55	92	1102238	1.5150 mg/kg	99
61)	t13Dicloprop	14.22	75	654752	1.7038 mg/kg	98
62)	ethylmethacrylate	14.45	69	1301387	3.1084 mg/kg	99
63)	112Triclotha	14.66	83	395066	1.6173 mg/kg	99
64)	Tetrachlorte	14.82	166	492467	1.5686 mg/kg	97
65)	13Diclorpropa	15.02	76	736109	1.5944 mg/kg	97
67)	2Hexanone	15.28	43	4291716	15.7227 mg/kg	100
68)	Clorodibrmta	15.58	129	570657	1.8402 mg/kg	99
69)	12Dibrometha	15.78	107	586052	1.7804 mg/kg	96
70)	1Clhexane	17.00	55	333341	1.4425 mg/kg	100
71)	Chlorobenzen	17.00	112	1263692	1.5998 mg/kg	99
72)	1112tetclota	17.25	131	445571	1.8198 mg/kg	98
73)	Ethylbenzene	17.28	91	1989335	1.6411 mg/kg	100
74)	m p-Xylene	17.60	106	1580596	3.3594 mg/kg	99
75)	o-Xylene	18.62	106	757572	1.6164 mg/kg	98
76)	Styrene	18.69	104	1322054	1.7256 mg/kg	97
77)	Bromoform	19.21	173	393203	1.8779 mg/kg	97
78)	Isopropylben	19.62	105	1847709	1.6447 mg/kg	100
80)	cyclohexanone	19.91	55	334457	31.1894 mg/kg	96
82)	Bromobenzene	20.38	156	563944	1.5804 mg/kg	97
83)	1122Tetrclta	20.63	83	689999	1.5779 mg/kg	100
84)	123triclproa	20.66	75	499229	1.5108 mg/kg	99
85)	n-Propylbenz	20.72	91	2157716	1.5907 mg/kg	99
86)	14dichloro2butene	20.66	75	499229	1.5108 mg/kg#	99
87)	2chlorotolue	20.92	91	1233064	1.5617 mg/kg	99
88)	4chlorotolue	21.23	91	1434299	1.5589 mg/kg	99
89)	135Trimebenz	21.23	105	1423761	1.6126 mg/kg	97
90)	tbutylbenzen	22.09	119	1230931	1.5884 mg/kg	98
91)	124Trimetben	22.24	105	1443438	1.6306 mg/kg	99
92)	sbutylbenzen	22.70	105	1786992	1.5828 mg/kg	99
93)	13Diclorbenz	22.98	146	939366	1.6008 mg/kg	98
94)	pIsopropylto	23.14	119	1456607	1.6204 mg/kg	99
95)	14dichlorobe	23.24	146	993196	1.5696 mg/kg	97
96)	12dichlorobe	24.26	146	916866	1.5407 mg/kg	99
97)	nButylbenzen	24.28	91	1267291	1.5648 mg/kg	99
98)	12dibromo3cl	26.54	157	154082	1.6783 mg/kg	96
99)	135Trichlorobenzene	27.04	180	592830	1.5193 mg/kg	99
100)	124trichlobe	28.70	180	525619	1.5254 mg/kg	99
101)	Hexachlorobu	29.09	225	206820	1.4593 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS6.D Vial: 9
Acq On : 2 Dec 2010 20:25 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 1.50/15.0 mg/kg, 5.0 mL PURGED+ ISTD/SS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:57 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:53:51 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

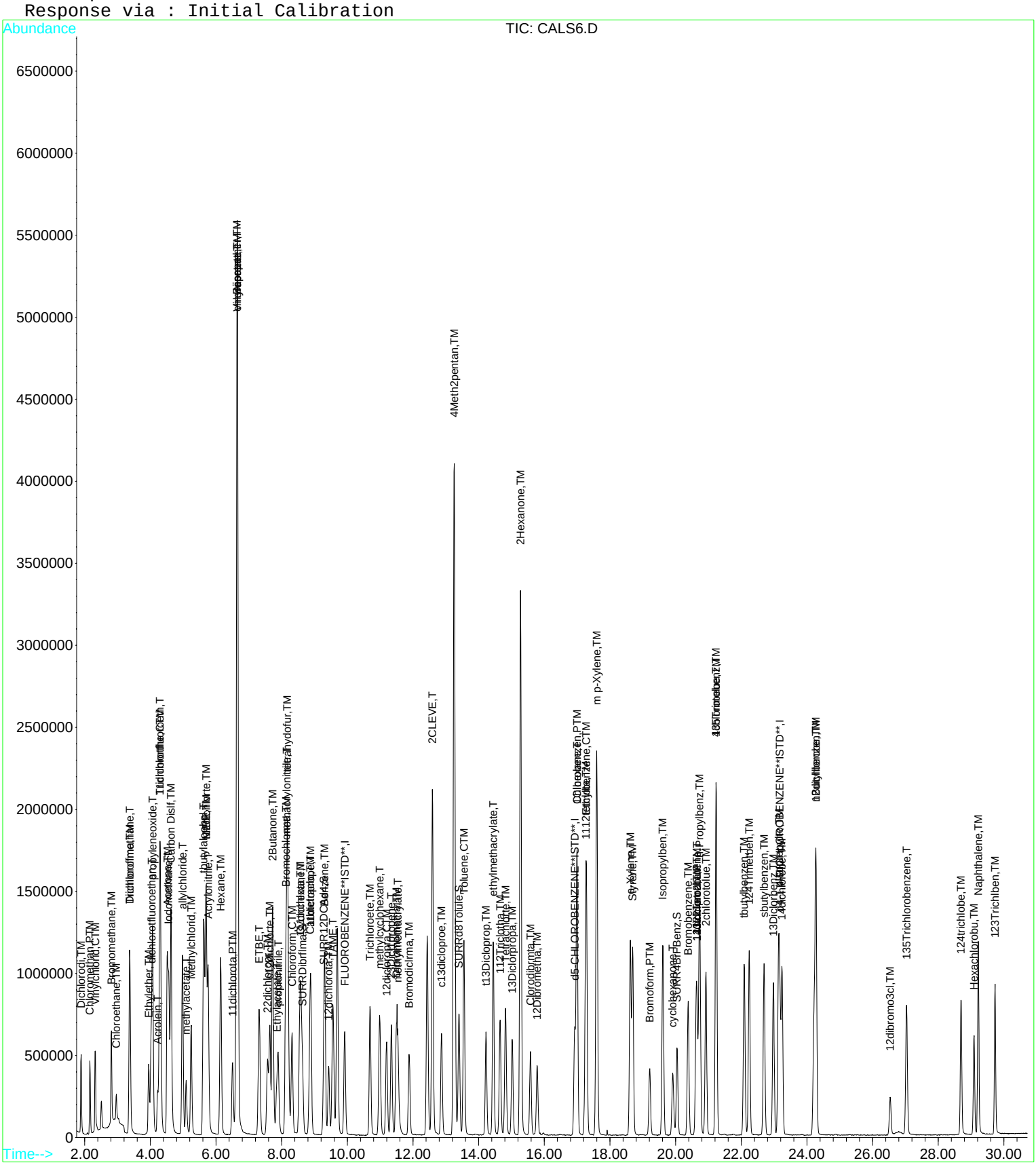
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Naphthalene	29.22	128	1678273	1.5718	mg/kg	99
103) 123Trichlben	29.73	180	482773	1.5016	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : N:\DATA\DEC0210C\CALS6.D Vial: 9
Acq On : 2 Dec 2010 20:25 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 1.50/15.0 mg/kg, 5.0 mL PURGED+ ISTD/SS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:57 2010 Quant Results File: PS120210.RES

Method : N:\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS7.D Vial: 10
Acq On : 2 Dec 2010 21:04 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 2.00/20.0 mg/kg, 5.0 mL PURGED+ ISTD/SST Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:57 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:53:51 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.92	96	1118349	1.00	mg/kg	0.00 NA%
66) d5-CHLOROBENZENE**ISTD**	16.92	117	834926	1.00	mg/kg	-0.01 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.18	152	467605	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
42) SURRDibrflma	8.64	113	370681	0.961	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 121		Recovery = 101 %			
45) SURR12DCAd4	9.27	102	87471	0.955	mg/kg	-0.01
Spiked Amount 0.950	Range 77 - 119		Recovery = 101 %			
59) SURRd8Tolule	13.40	98	1013323	0.923	mg/kg	0.00
Spiked Amount 0.950	Range 84 - 126		Recovery = 97 %			
81) SURR4BrFBenz	20.04	95	380417	0.922	mg/kg	-0.01
Spiked Amount 0.950	Range 88 - 128		Recovery = 97 %			
Target Compounds						Qvalue
2) Dichlorodi	1.89	85	696639	2.0496	mg/kg	99
3) Chloromethan	2.16	50	695911	1.9439	mg/kg	97
4) Vinylchlorid	2.32	62	758362	1.9683	mg/kg	99
5) Bromomethane	2.82	94	581269	2.2830	mg/kg	99
6) Chloroethane	2.96	64	176034	1.6018	mg/kg	95
7) Trichlorofma	3.36	101	974077	1.9122	mg/kg	99
8) Dichloroflmethane	3.37	67	1306157	1.9374	mg/kg	99
9) Ethylether	3.96	59	526156	1.9978	mg/kg	97
10) dichlorotfluoroethan	4.03	67	760293	2.0045	mg/kg	99
11) propyleneoxide	4.08	58	1783970	20.5236	mg/kg	98
12) Acrolein	4.22	56	429619	9.8018	mg/kg	98
13) 11dichlorthe	4.29	96	572117	2.0274	mg/kg	95
14) Trichlorotfluoroeth	4.29	101	1359298	4.1551	mg/kg	98
15) Acetone	4.53	43	2867703	17.7581	mg/kg	100
16) Iodomethane	4.56	142	1982580	4.0748	mg/kg	100
17) Carbon Dislf	4.62	76	4092131	4.3421	mg/kg	99
18) allylchloride	4.97	41	1415281	4.1610	mg/kg	99
19) methylacetate	5.10	74	265948	1.8961	mg/kg	97
20) Methylchlorid	5.25	84	765811	2.1950	mg/kg	98
21) t12dichlorte	5.70	96	683966	2.0688	mg/kg	99
22) tbutylalcohol	5.66	59	4301264	104.6698	mg/kg	97
23) MtBE	5.71	73	1963872	2.1832	mg/kg	100
24) Acrylonitrile	5.77	53	1460442	10.4239	mg/kg	98
25) Hexane	6.14	57	1265153	4.3219	mg/kg	99
26) 11dichlorota	6.51	63	958751	2.0205	mg/kg	99
27) Vinylacetate	6.66	43	13669190	20.1630	mg/kg	100
28) chloroprene	6.65	53	1463878	4.2272	mg/kg	97
29) Diisopether	6.64	45	1932932	2.1704	mg/kg#	92
30) ETBE	7.32	59	1856958	2.2296	mg/kg	99
31) 22dichloropr	7.57	77	772530	1.9987	mg/kg	98
32) c12dichlorte	7.64	96	729783	2.0754	mg/kg	97
33) 2Butanone	7.73	43	3941725	20.9836	mg/kg	99
34) Ethylacetate	7.86	43	694072	2.1796	mg/kg	99
35) propionitrile	7.90	54	1090738	19.8045	mg/kg	100
36) Bromochlorma	8.12	128	397933	2.0308	mg/kg	97
37) methacrylonitrile	8.15	67	699372	4.1385	mg/kg	97
38) tetrahydofur	8.19	42	2276577	19.6902	mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS7.D Vial: 10
Acq On : 2 Dec 2010 21:04 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 2.00/20.0 mg/kg, 5.0 mL PURGED+ ISTD/SST Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:57 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:53:51 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	8.32	83	1084595	1.9845	mg/kg	99
40)	111trichlota	8.54	97	887517	2.1378	mg/kg	98
41)	Cyclohexane	8.58	56	809541	2.1495	mg/kg	96
43)	Carbtetraclo	8.86	119	773272	2.2176	mg/kg	99
44)	11dicloprope	8.89	110	326720	2.2221	mg/kg	95
46)	Benzene	9.31	78	2355510	2.1975	mg/kg	82
47)	12dichlorota	9.44	62	747814	2.0129	mg/kg	99
48)	TAME	9.57	73	2015273	2.2669	mg/kg	99
49)	Trichloroete	10.69	95	642913	2.2203	mg/kg	97
50)	methylcyclohexane	10.99	83	898306	2.2488	mg/kg	97
51)	12dicloropra	11.19	63	550087	2.1161	mg/kg	99
52)	23Dicl1propene	11.34	75	981624	2.2933	mg/kg	98
53)	Dibromometha	11.49	93	544129	2.1197	mg/kg	99
54)	methylmethacrylate	11.54	69	550296	2.2806	mg/kg	99
55)	Bromodiclrma	11.88	83	820264	2.1549	mg/kg	98
56)	2CLEVE	12.59	63	2335151	11.0398	mg/kg	98
57)	c13dicloproe	12.87	75	984096	2.3176	mg/kg	100
58)	4Meth2pentan	13.26	43	7202481	20.1061	mg/kg	99
60)	Toluene	13.55	92	1446739	2.0488	mg/kg	99
61)	t13Dicloprop	14.22	75	914235	2.4008	mg/kg	99
62)	ethylmethacrylate	14.45	69	1717890	4.2092	mg/kg	98
63)	112Triclotha	14.66	83	543472	2.2665	mg/kg	99
64)	Tetrachlorte	14.82	166	691050	2.2545	mg/kg	99
65)	13Diclorpropa	15.02	76	1013025	2.2409	mg/kg	98
67)	2Hexanone	15.28	43	5451387	19.6941	mg/kg	100
68)	Clorodibrmta	15.58	129	783923	2.4213	mg/kg	99
69)	12Dibrometha	15.78	107	796005	2.3312	mg/kg	98
70)	1Clhexane	16.99	55	461841	1.9995	mg/kg	99
71)	Chlorobenzen	16.99	112	1741183	2.1672	mg/kg	98
72)	1112tetclota	17.25	131	606560	2.3781	mg/kg	99
73)	Ethylbenzene	17.28	91	2695192	2.1760	mg/kg	99
74)	m p-Xylene	17.60	106	2144061	4.4412	mg/kg	97
75)	o-Xylene	18.62	106	1036793	2.1709	mg/kg	98
76)	Styrene	18.69	104	1762344	2.2307	mg/kg	99
77)	Bromoform	19.21	173	553826	2.5233	mg/kg	98
78)	Isopropylben	19.61	105	2546900	2.2179	mg/kg	100
80)	cyclohexanone	19.91	55	406986	37.5121	mg/kg	97
82)	Bromobenzene	20.38	156	772297	2.1343	mg/kg	96
83)	1122Tetrclta	20.62	83	922780	2.0815	mg/kg	98
84)	123triclproa	20.66	75	675517	2.0315	mg/kg	97
85)	n-Propylbenz	20.72	91	2991211	2.1721	mg/kg	100
86)	14dichloro2butene	20.66	75	675517	2.0315	mg/kg#	96
87)	2chlorotolue	20.91	91	1700769	2.1285	mg/kg	99
88)	4chlorotolue	21.23	91	1959984	2.1056	mg/kg	99
89)	135Trimebenz	21.23	105	1947247	2.1671	mg/kg	96
90)	tbutylbenzen	22.09	119	1693261	2.1527	mg/kg	98
91)	124Trimetben	22.24	105	1988158	2.2026	mg/kg	99
92)	sbutylbenzen	22.70	105	2485513	2.1703	mg/kg	99
93)	13Diclorbenz	22.97	146	1313350	2.2020	mg/kg	99
94)	pIsopropylto	23.13	119	2026864	2.2137	mg/kg	99
95)	14dichlorobe	23.24	146	1366442	2.1320	mg/kg	97
96)	12dichlorobe	24.26	146	1289018	2.1454	mg/kg	99
97)	nButylbenzen	24.28	91	1769102	2.1578	mg/kg	100
98)	12dibromo3cl	26.54	157	205979	2.1888	mg/kg	95
99)	135Trichlorobenzene	27.04	180	838032	2.1322	mg/kg	99
100)	124trichlobe	28.70	180	727104	2.0935	mg/kg	99
101)	Hexachlorobu	29.09	225	306529	2.1616	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS7.D Vial: 10
Acq On : 2 Dec 2010 21:04 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 2.00/20.0 mg/kg, 5.0 mL PURGED+ ISTD/SST Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:57 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:53:51 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

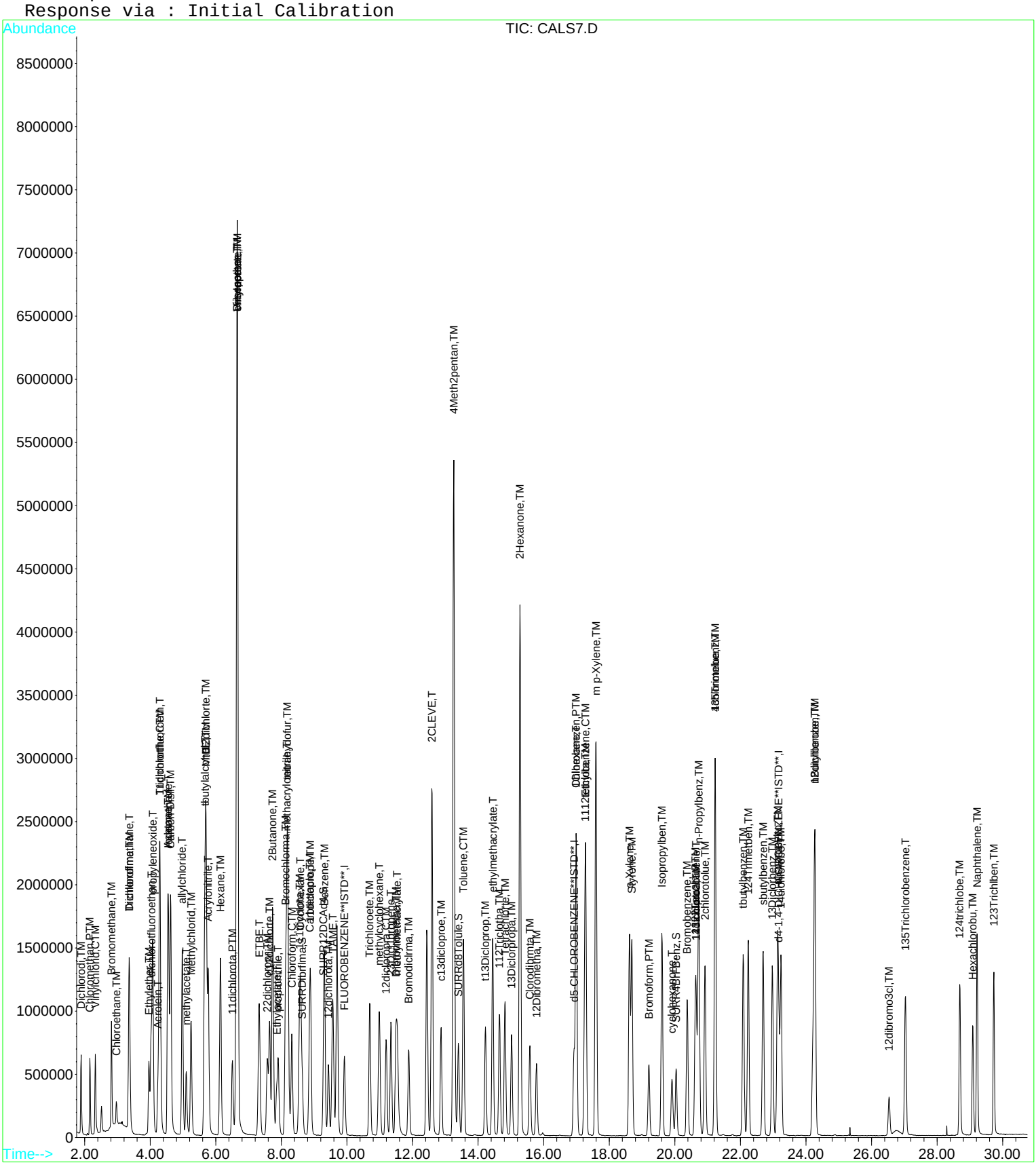
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Naphthalene	29.22	128	2332579	2.1563	mg/kg	99
103) 123Trichlben	29.73	180	687124	2.1260	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : N:\DATA\DEC0210C\CALS7.D Vial: 10
Acq On : 2 Dec 2010 21:04 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 2.00/20.0 mg/kg, 5.0 mL PURGED+ ISTD/SST Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:57 2010 Quant Results File: PS120210.RES

Method : N:\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS8.D Vial: 12
Acq On : 2 Dec 2010 22:21 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 4.00/40.0 mg/kg, 5.0 mL PURGED+ ISTD/SS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:57 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:53:51 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.92	96	1186625	1.00	mg/kg	0.00 NA%
66) d5-CHLOROBENZENE**ISTD**	16.93	117	890898	1.00	mg/kg	0.00 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.17	152	483303	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
42) SURRDibrflma	8.63	113	380396	0.928	mg/kg	-0.01
Spiked Amount 0.950	Range 77 - 121		Recovery = 98 %			
45) SURR12DCAd4	9.28	102	90470	0.930	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 119		Recovery = 98 %			
59) SURRd8Tolule	13.39	98	1027270	0.885	mg/kg	0.00
Spiked Amount 0.950	Range 84 - 126		Recovery = 93 %			
81) SURR4BrFBenz	20.04	95	378771	0.892	mg/kg	-0.01
Spiked Amount 0.950	Range 88 - 128		Recovery = 94 %			
Target Compounds						Qvalue
2) Dichlorodi	1.89	85	1436768	3.9699	mg/kg	100
3) Chloromethan	2.15	50	1376809	3.6392	mg/kg	97
4) Vinylchlorid	2.32	62	1680175	4.1193	mg/kg	99
5) Bromomethane	2.81	94	1185497	4.1654	mg/kg	98
6) Chloroethane	2.96	64	462210	4.0800	mg/kg	96
7) Trichlorofma	3.37	101	1975541	3.6781	mg/kg	99
8) Dichloroflmethane	3.37	67	2672423	3.7526	mg/kg	99
9) Ethylether	3.95	59	1087425	3.8920	mg/kg	96
10) dichlorotfluoroethan	4.02	67	1584427	3.9357	mg/kg	98
11) propyleneoxide	4.06	58	3808257	41.1373	mg/kg	98
12) Acrolein	4.21	56	980032	21.1328	mg/kg	98
13) 11dichlorthe	4.30	96	1184002	3.9467	mg/kg	97
14) Trichlorotfluoroeth	4.30	101	2892678	8.2877	mg/kg	98
15) Acetone	4.51	43	6216113	36.8685	mg/kg	100
16) Iodomethane	4.57	142	4691398	8.8120	mg/kg	99
17) Carbon Dislf	4.63	76	8555973	8.4529	mg/kg	99
18) allylchloride	4.98	41	3025617	8.3357	mg/kg	99
19) methylacetate	5.09	74	564001	3.8181	mg/kg	98
20) Methylchlorid	5.24	84	1480022	3.9760	mg/kg	98
21) t12dichlorte	5.70	96	1393577	3.9531	mg/kg	99
22) tbutylalcohol	5.62	59	9094507	207.1957	mg/kg	96
23) MtBE	5.70	73	4082386	4.2219	mg/kg#	32
24) Acrylonitrile	5.76	53	3090751	20.6658	mg/kg	99
25) Hexane	6.14	57	2709391	8.6238	mg/kg	100
26) 11dichlorota	6.50	63	1985677	3.9381	mg/kg	99
27) Vinylacetate	6.65	43	24485325	33.6744	mg/kg	95
28) chloroprene	6.64	53	3142016	8.4822	mg/kg	98
29) Diisopether	6.61	45	4127396	4.3153	mg/kg#	76
30) ETBE	7.31	59	3899161	4.3410	mg/kg	100
31) 22dichloropr	7.57	77	1586393	3.8685	mg/kg	99
32) c12dichlorte	7.64	96	1494017	3.9828	mg/kg	96
33) 2Butanone	7.71	43	8449232	42.0953	mg/kg	100
34) Ethylacetate	7.84	43	1439331	4.2060	mg/kg	100
35) propionitrile	7.88	54	2229580	38.2065	mg/kg	99
36) Bromochlorma	8.12	128	815774	3.9150	mg/kg	97
37) methacrylonitrile	8.14	67	1486883	8.2515	mg/kg	95
38) tetrahydofur	8.17	42	4689903	38.3140	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS8.D Vial: 12
Acq On : 2 Dec 2010 22:21 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 4.00/40.0 mg/kg, 5.0 mL PURGED+ ISTD/SS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:57 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:53:51 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	8.31	83	2234080	3.8568	mg/kg	99
40)	111trichlota	8.55	97	1876605	4.2186	mg/kg	97
41)	Cyclohexane	8.58	56	1718256	4.2544	mg/kg	97
43)	Carbtetraclo	8.86	119	1626960	4.3300	mg/kg	100
44)	11dicloprope	8.89	110	675513	4.2624	mg/kg	95
46)	Benzene	9.31	78	4847743	4.2030	mg/kg	80
47)	12dichlorota	9.43	62	1526323	3.8684	mg/kg	99
48)	TAME	9.55	73	4219571	4.3896	mg/kg	100
49)	Trichloroete	10.69	95	1371427	4.3945	mg/kg	97
50)	methylcyclohexane	10.98	83	1950205	4.5208	mg/kg	97
51)	12dicloropra	11.19	63	1157737	4.1628	mg/kg	99
52)	23Dicl1propene	11.34	75	2085403	4.4975	mg/kg	98
53)	Dibromometha	11.48	93	1162469	4.2317	mg/kg	98
54)	methylmethacrylate	11.53	69	1175988	4.5030	mg/kg	99
55)	Bromodiclrma	11.88	83	1733509	4.2451	mg/kg	98
56)	2CLEVE	12.59	63	4834738	21.2266	mg/kg	97
57)	c13dicloproe	12.86	75	2014203	4.3715	mg/kg	100
58)	4Meth2pentan	13.25	43	15213858	39.9962	mg/kg	99
60)	Toluene	13.55	92	2942925	3.9142	mg/kg	99
61)	t13Dicloprop	14.22	75	1927594	4.6379	mg/kg	98
62)	ethylmethacrylate	14.44	69	3554657	8.1477	mg/kg	99
63)	112Triclotha	14.64	83	1088947	4.2000	mg/kg	98
64)	Tetrachlorte	14.82	166	1451041	4.3818	mg/kg	99
65)	13Diclorpropa	15.02	76	2112317	4.3292	mg/kg	99
67)	2Hexanone	15.27	43	11439380	38.8153	mg/kg	99
68)	Clorodibrmta	15.58	129	1644019	4.6199	mg/kg	99
69)	12Dibrometha	15.77	107	1658613	4.4470	mg/kg	95
70)	1Clhexane	16.98	55	939579	3.8124	mg/kg	100
71)	Chlorobenzen	16.99	112	3599610	4.1492	mg/kg	97
72)	1112tetclota	17.25	131	1324508	4.7387	mg/kg	98
73)	Ethylbenzene	17.28	91	5583844	4.1726	mg/kg	99
74)	m p-Xylene	17.59	106	4366986	8.3460	mg/kg	98
75)	o-Xylene	18.62	106	2125653	4.1209	mg/kg	98
76)	Styrene	18.69	104	3601106	4.2025	mg/kg	98
77)	Bromoform	19.20	173	1254564	5.1638	mg/kg	97
78)	Isopropylben	19.60	105	5187217	4.1685	mg/kg	100
80)	cyclohexanone	19.91	55	788958	70.9874	mg/kg	95
82)	Bromobenzene	20.38	156	1618827	4.2872	mg/kg	94
83)	1122Tetrclta	20.62	83	1948810	4.2285	mg/kg	99
84)	123triclproa	20.66	75	1418321	4.1175	mg/kg	98
85)	n-Propylbenz	20.71	91	6079456	4.2193	mg/kg	99
86)	14dichloro2butene	20.66	75	1418321	4.1175	mg/kg#	99
87)	2chlorotolue	20.92	91	3422950	4.1070	mg/kg	98
88)	4chlorotolue	21.23	91	3992822	4.1191	mg/kg	99
89)	135Trimebenz	21.23	105	4027650	4.2857	mg/kg	97
90)	tbutylbenzen	22.08	119	3505069	4.2649	mg/kg	98
91)	124Trimetben	22.24	105	4010744	4.2376	mg/kg	98
92)	sbutylbenzen	22.69	105	5018260	4.1886	mg/kg	98
93)	13Diclorbenz	22.98	146	2704922	4.3255	mg/kg	99
94)	pIsopropylto	23.14	119	4105468	4.2730	mg/kg	99
95)	14dichlorobe	23.23	146	2781957	4.1604	mg/kg	96
96)	12dichlorobe	24.26	146	2662825	4.2439	mg/kg	98
97)	nButylbenzen	24.28	91	3592201	4.1919	mg/kg	99
98)	12dibromo3cl	26.53	157	469970	4.7675	mg/kg	99
99)	135Trichlorobenzene	27.03	180	1767013	4.3091	mg/kg	97
100)	124trichlobe	28.70	180	1532476	4.2407	mg/kg	100
101)	Hexachlorobu	29.09	225	594492	4.0098	mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS8.D Vial: 12
Acq On : 2 Dec 2010 22:21 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 4.00/40.0 mg/kg, 5.0 mL PURGED+ ISTD/SS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:57 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:53:51 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

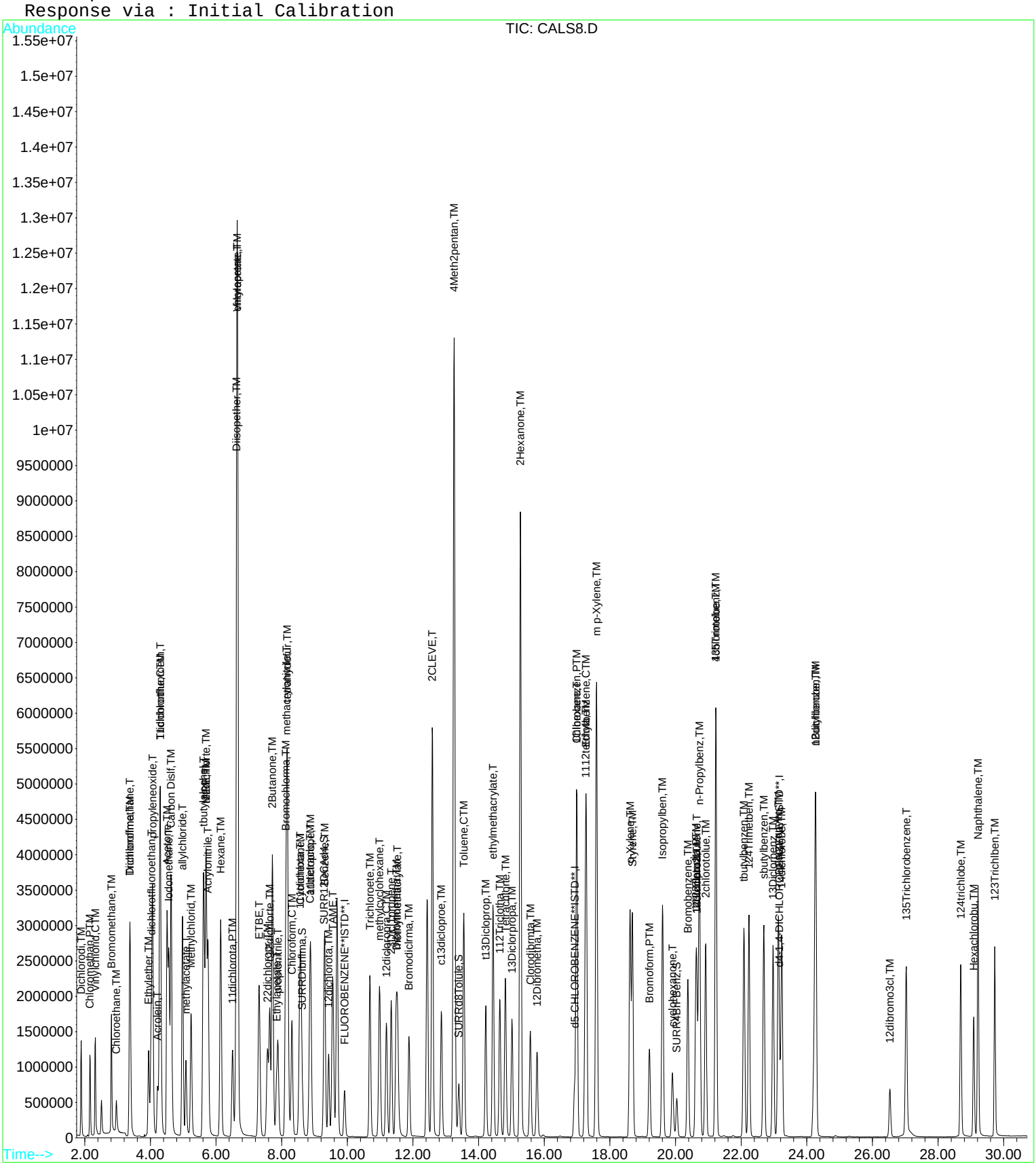
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Naphthalene	29.22	128	5073430	4.4875 mg/kg	99
103) 123Trichlben	29.73	180	1444653	4.2860 mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : N:\DATA\DEC0210C\CALS8.D Vial: 12
Acq On : 2 Dec 2010 22:21 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 4.00/40.0 mg/kg, 5.0 mL PURGED+ ISTD/SS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 7:57 2010 Quant Results File: PS120210.RES

Method : N:\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\ICV1.D Vial: 14
Acq On : 2 Dec 2010 23:38 Operator: APG
Sample : INITIAL CALIB. VERIF. Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 9:00 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 08:59:36 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

NOT USED

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.92	96	1073241	1.00 mg/kg	0.00 NA%
66) d5-CHLOROBENZENE**ISTD**	16.92	117	797459	1.00 mg/kg	0.00 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.17	152	411240	1.00 mg/kg	0.00 NA%
System Monitoring Compounds					
42) SURRDibrflma	8.64	113	352107	0.949 mg/kg	0.00
Spiked Amount 0.950	Range 77 - 121		Recovery = 100 %		
45) SURR12DCAd4	9.28	102	83784	0.952 mg/kg	0.00
Spiked Amount 0.950	Range 77 - 119		Recovery = 100 %		
59) SURRd8Tolule	13.39	98	996294	0.956 mg/kg	0.00
Spiked Amount 0.950	Range 84 - 126		Recovery = 101 %		
81) SURR4BrFBenz	20.03	95	350800	0.979 mg/kg	-0.02
Spiked Amount 0.950	Range 88 - 128		Recovery = 103 %		
Target Compounds					Qvalue
2) Dichlorodi	1.89	85	164568	0.4752 mg/kg	99
3) Chloromethan	2.16	50	180255	0.5306 mg/kg	97
4) Vinylchlorid	2.32	62	207381	0.5159 mg/kg	99
5) Bromomethane	2.81	94	182838	0.5933 mg/kg	97
6) Chloroethane	2.97	64	94957	1.0782 mg/kg	99
7) Trichlorofma	3.38	101	228466	0.4493 mg/kg	99
8) Dichloroflmethane	3.37	67	326978	0.4697 mg/kg	99
9) Ethylether	3.94	59	129425	0.4841 mg/kg	92
10) dichlorotfluoroethan	4.03	67	186144	0.4671 mg/kg	98
11) propyleneoxide	4.07	58	435381	4.7954 mg/kg	98
12) Acrolein	4.22	56	108088	2.3385 mg/kg	98
13) 11dichlorthe	4.30	96	135411	0.4680 mg/kg	97
14) Trichlorotfluoroeth	4.30	101	309885	0.9129 mg/kg	98
15) Acetone	4.51	43	766613	5.1679 mg/kg	100
16) Iodomethane	4.56	142	397565	0.9748 mg/kg	98
17) Carbon Dislf	4.63	76	961078	0.9626 mg/kg	100
18) allylchloride	4.98	41	341436	0.9625 mg/kg	98
19) methylacetate	5.08	74	77043	0.6057 mg/kg	96
20) Methylchlorid	5.24	84	193866	0.3167 mg/kg	99
21) t12dichlorte	5.69	96	158396	0.4578 mg/kg	97
22) tbutylalcohol	5.61	59	954726	23.2543 mg/kg	85
23) MtBE	5.69	73	449782	0.4798 mg/kg#	60
24) Acrylonitrile	5.75	53	365452	2.4883 mg/kg	99
25) Hexane	6.15	57	264890	0.8658 mg/kg	100
26) 11dichlorota	6.50	63	230570	0.4702 mg/kg	99
27) Vinylacetate	6.65	43	2555354	4.1137 mg/kg	99
28) chloroprene	6.64	53	351143	0.9681 mg/kg	99
29) Diisopether	6.62	45	446898	0.4779 mg/kg#	70
30) ETBE	7.31	59	416085	0.4733 mg/kg	98
31) 22dichloropr	7.56	77	173259	0.4356 mg/kg	96
32) c12dichlorte	7.63	96	175083	0.4810 mg/kg	96
33) 2Butanone	7.72	43	963064	4.8485 mg/kg	100
34) Ethylacetate	7.84	43	158671	0.4534 mg/kg	98
35) propionitrile	7.89	54	261175	4.5683 mg/kg	98
36) Bromochlorma	8.11	128	97178	0.4852 mg/kg	97
37) methacrylonitrile	8.13	67	168378	0.9573 mg/kg	99
38) tetrahydofur	8.18	42	567720	4.8481 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\ICV1.D Vial: 14
Acq On : 2 Dec 2010 23:38 Operator: APG
Sample : INITIAL CALIB. VERIF. Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 9:00 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 08:59:36 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	8.31	83	267519	0.4736	mg/kg	99
40)	111trichlota	8.55	97	206733	0.4772	mg/kg	99
41)	Cyclohexane	8.58	56	189200	0.4768	mg/kg	99
43)	Carbtetraclo	8.85	119	179564	0.4904	mg/kg	99
44)	11dicloprope	8.88	110	72024	0.4693	mg/kg	99
46)	Benzene	9.31	78	535737	0.4712	mg/kg	98
47)	12dichlorota	9.43	62	184626	0.4850	mg/kg	100
48)	TAME	9.56	73	441855	0.4667	mg/kg	99
49)	Trichloroete	10.69	95	149442	0.4782	mg/kg	99
50)	methylcyclohexane	10.99	83	198251	0.4685	mg/kg	96
51)	12dicloropra	11.18	63	129968	0.4770	mg/kg	99
52)	23Dicl1propene	11.33	75	213967	0.4659	mg/kg	96
53)	Dibromometha	11.48	93	127302	0.4679	mg/kg	99
54)	methylmethacrylate	11.53	69	125338	0.5081	mg/kg	100
55)	Bromodiclrma	11.87	83	185449	0.4609	mg/kg	97
56)	2CLEVE	12.58	63	533704	2.3656	mg/kg	99
57)	c13dicloproe	12.87	75	212495	0.4662	mg/kg	100
58)	4Meth2pentan	13.25	43	1785740	4.7693	mg/kg	100
60)	Toluene	13.55	92	356396	0.4850	mg/kg	97
61)	t13Dicloprop	14.22	75	186091	0.4509	mg/kg	98
62)	ethylmethacrylate	14.44	69	412446	0.9467	mg/kg	99
63)	112Triclotha	14.65	83	120176	0.4650	mg/kg	98
64)	Tetrachlorte	14.82	166	149932	0.4578	mg/kg	99
65)	13Diclorpropa	15.01	76	230631	0.4708	mg/kg	97
67)	2Hexanone	15.27	43	1408323	4.9194	mg/kg	99
68)	Clorodibrmta	15.57	129	165164	0.4677	mg/kg	98
69)	12Dibrometha	15.77	107	179762	0.4883	mg/kg	100
70)	1Clhexane	16.98	55	107237	0.4689	mg/kg	97
71)	Chlorobenzen	16.99	112	400089	0.4684	mg/kg	100
72)	1112tetclota	17.25	131	127410	0.4570	mg/kg	99
73)	Ethylbenzene	17.28	91	618652	0.4742	mg/kg	99
74)	m p-Xylene	17.59	106	485429	0.9502	mg/kg	100
75)	o-Xylene	18.61	106	231774	0.4602	mg/kg	100
76)	Styrene	18.68	104	388149	0.4619	mg/kg	99
77)	Bromoform	19.21	173	114099	0.4705	mg/kg	98
78)	Isopropylben	19.60	105	579542	0.4757	mg/kg	99
80)	cyclohexanone	19.90	55	89949	9.3550	mg/kg	99
82)	Bromobenzene	20.37	156	168207	0.4727	mg/kg	99
83)	1122Tetrclta	20.62	83	204238	0.4687	mg/kg	99
84)	123triclproa	20.65	75	154274	0.5103	mg/kg	98
85)	n-Propylbenz	20.72	91	658438	0.4880	mg/kg	100
86)	14dichloro2butene	20.65	75	154274	0.5103	mg/kg#	97
87)	2chlorotolue	20.92	91	380682	0.4886	mg/kg	98
88)	4chlorotolue	21.22	91	441984	0.4868	mg/kg	100
89)	135Trimebenz	21.22	105	429222	0.4841	mg/kg	100
90)	tbutylbenzen	22.08	119	380159	0.4946	mg/kg	99
91)	124Trimetben	22.24	105	429350	0.4803	mg/kg	99
92)	sbutylbenzen	22.69	105	539665	0.4836	mg/kg	100
93)	13Diclorbenz	22.97	146	275753	0.4664	mg/kg	99
94)	pIsopropylto	23.13	119	424465	0.4753	mg/kg	99
95)	14dichlorobe	23.24	146	296753	0.4728	mg/kg	98
96)	12dichlorobe	24.25	146	279793	0.4721	mg/kg	98
97)	nButylbenzen	24.27	91	381220	0.4708	mg/kg	100
98)	12dibromo3cl	26.54	157	45409	0.4785	mg/kg	98
99)	135Trichlorobenzene	27.03	180	181176	0.4731	mg/kg	97
100)	124trichlobe	28.69	180	154156	0.4526	mg/kg	98
101)	Hexachlorobu	29.09	225	62858	0.4516	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\ICV1.D Vial: 14
Acq On : 2 Dec 2010 23:38 Operator: APG
Sample : INITIAL CALIB. VERIF. Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 9:00 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 08:59:36 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

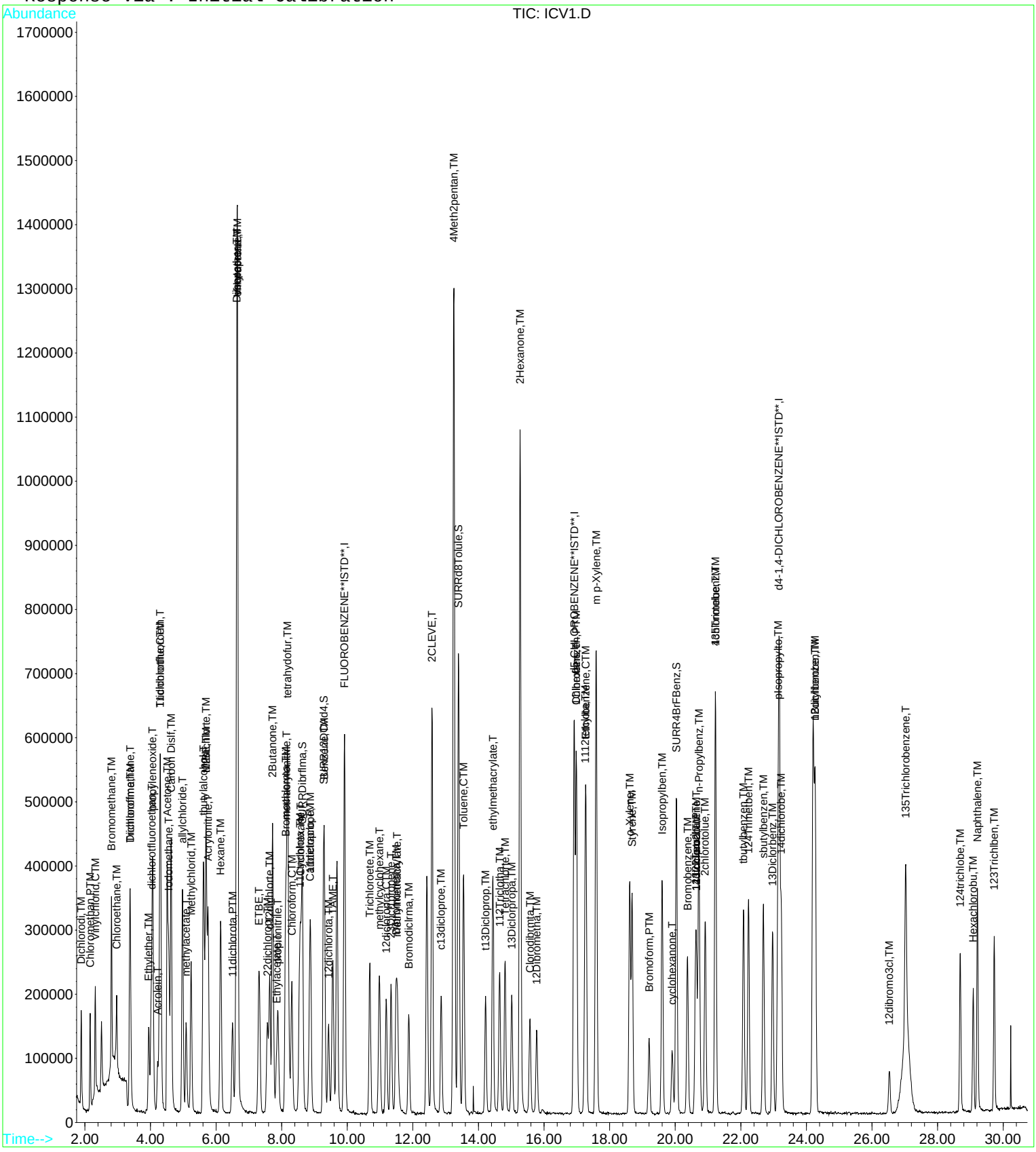
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Naphthalene	29.21	128	496832	0.4696 mg/kg	98
103) 123Trichlben	29.73	180	142301	0.4517 mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : N:\DATA\DEC0210C\ICV1.D Vial: 14
Acq On : 2 Dec 2010 23:38 Operator: APG
Sample : INITIAL CALIB. VERIF. Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 9:00 2010 Quant Results File: PS120210.RES

Method : N:\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : N:\DATA\DEC0210C\ICB1.D Vial: 18
Acq On : 3 Dec 2010 2:12 Operator: APG
Sample : INITIAL CALIB. BLANK Inst : VMS1
Misc : 5.0 mL H20 PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 9:01 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 08:59:36 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.91	96	952535	1.00	mg/kg	-0.02 NA%
66) d5-CHLOROBENZENE**ISTD**	16.91	117	751169	1.00	mg/kg	-0.02 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.17	152	391851	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
42) SURRDibrflma	8.63	113	321343	0.975	mg/kg	-0.02
Spiked Amount 0.950	Range 77 - 121		Recovery = 103 %			
45) SURR12DCAd4	9.27	102	77949	0.998	mg/kg	-0.02
Spiked Amount 0.950	Range 77 - 119		Recovery = 105 %			
59) SURRd8Tolule	13.39	98	923218	0.998	mg/kg	0.00
Spiked Amount 0.950	Range 84 - 126		Recovery = 105 %			
81) SURR4BrFBenz	20.03	95	330742	0.969	mg/kg	-0.02
Spiked Amount 0.950	Range 88 - 128		Recovery = 102 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.15	50	2570	Below	Cal #	40
4) Vinylchlorid	2.23	62	1566	N.D.		
5) Bromomethane	2.82	94	13820	Below	Cal #	67
6) Chloroethane	3.00	64	4590	N.D.		
7) Trichlorofma	0.00	101	0	N.D.		
8) Dichloroflmethane	0.00	67	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	4.19	56	1106	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.54	43	12432	Below	Cal	87
16) Iodomethane	4.44	142	0	N.D.		
17) Carbon Dislf	4.61	76	3003	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	5.11	74	1747	N.D.		
20) Methylchlorid	5.24	84	16478	Below	Cal	94
21) t12dichlorte	0.00	96	0	N.D.		
22) tbutylalcohol	0.00	59	0	N.D.		
23) MtBE	0.00	73	0	N.D.		
24) Acrylonitrile	0.00	53	0	N.D.		
25) Hexane	6.14	57	1589	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	6.71	43	1046	0.2516	mg/kg#	71
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	7.77	43	4048	N.D.		
34) Ethylacetate	7.90	43	1172	Below	Cal #	64
35) propionitrile	0.00	54	0	N.D.		
36) Bromochlorma	0.00	128	0	N.D.		
37) methacrylonitrile	0.00	67	0	N.D.		
38) tetrahydofur	8.23	42	1289	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : N:\DATA\DEC0210C\ICB1.D Vial: 18
Acq On : 3 Dec 2010 2:12 Operator: APG
Sample : INITIAL CALIB. BLANK Inst : VMS1
Misc : 5.0 mL H20 PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 9:01 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 08:59:36 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
41)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	9.37	78	1474	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	Trichloroete	0.00	95	0	N.D.		
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23Dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	Bromodiclrma	0.00	83	0	N.D.		
56)	2CLEVE	0.00	63	0	N.D.		
57)	c13dicloproe	0.00	75	0	N.D.		
58)	4Meth2pentan	0.00	43	0	N.D.		
60)	Toluene	0.00	92	0	N.D.		
61)	t13Dicloprop	0.00	75	0	N.D.		
62)	ethylmethacrylate	0.00	69	0	N.D.		
63)	112Triclotha	0.00	83	0	N.D.		
64)	Tetrachlorte	0.00	166	0	N.D.		
65)	13Diclorpropa	0.00	76	0	N.D.		
67)	2Hexanone	15.28	43	1074	N.D.		
68)	Clorodibrmta	0.00	129	0	N.D.		
69)	12Dibrometha	0.00	107	0	N.D.		
70)	1Clhexane	16.90	55	7177	Below	Cal	86
71)	Chlorobenzen	16.98	112	1008	N.D.		
72)	1112tetclota	0.00	131	0	N.D.		
73)	Ethylbenzene	17.27	91	1079	N.D.		
74)	m p-Xylene	17.61	106	1185	N.D.		
75)	o-Xylene	0.00	106	0	N.D.		
76)	Styrene	18.69	104	1137	N.D.		
77)	Bromoform	0.00	173	0	N.D.		
78)	Isopropylben	19.59	105	1205	N.D.		
80)	cyclohexanone	20.01	55	1041	N.D.		
82)	Bromobenzene	0.00	156	0	N.D.		
83)	1122Tetrclta	0.00	83	0	N.D.		
84)	123triclproa	0.00	75	0	N.D.		
85)	n-Propylbenz	20.72	91	1455	N.D.		
86)	14dichloro2butene	0.00	75	0	N.D.		
87)	2chlorotolue	0.00	91	0	N.D.		
88)	4chlorotolue	21.23	91	1289	N.D.		
89)	135Trimebenz	0.00	105	0	N.D.		
90)	tbutylbenzen	0.00	119	0	N.D.		
91)	124Trimetben	0.00	105	0	N.D.		
92)	sbutylbenzen	22.68	105	2287	N.D.		
93)	13Diclorbenz	0.00	146	0	N.D.		
94)	pIsopropylto	23.13	119	1792	N.D.		
95)	14dichlorobe	0.00	146	0	N.D.		
96)	12dichlorobe	0.00	146	0	N.D.		
97)	nButylbenzen	24.26	91	3391	N.D.		
98)	12dibromo3cl	0.00	157	0	N.D.		
99)	135Trichlorobenzene	27.02	180	1190	N.D.		
100)	124trichlobe	0.00	180	0	N.D.		
101)	Hexachlorobu	0.00	225	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : N:\DATA\DEC0210C\ICB1.D Vial: 18
Acq On : 3 Dec 2010 2:12 Operator: APG
Sample : INITIAL CALIB. BLANK Inst : VMS1
Misc : 5.0 mL H20 PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 9:01 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 08:59:36 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

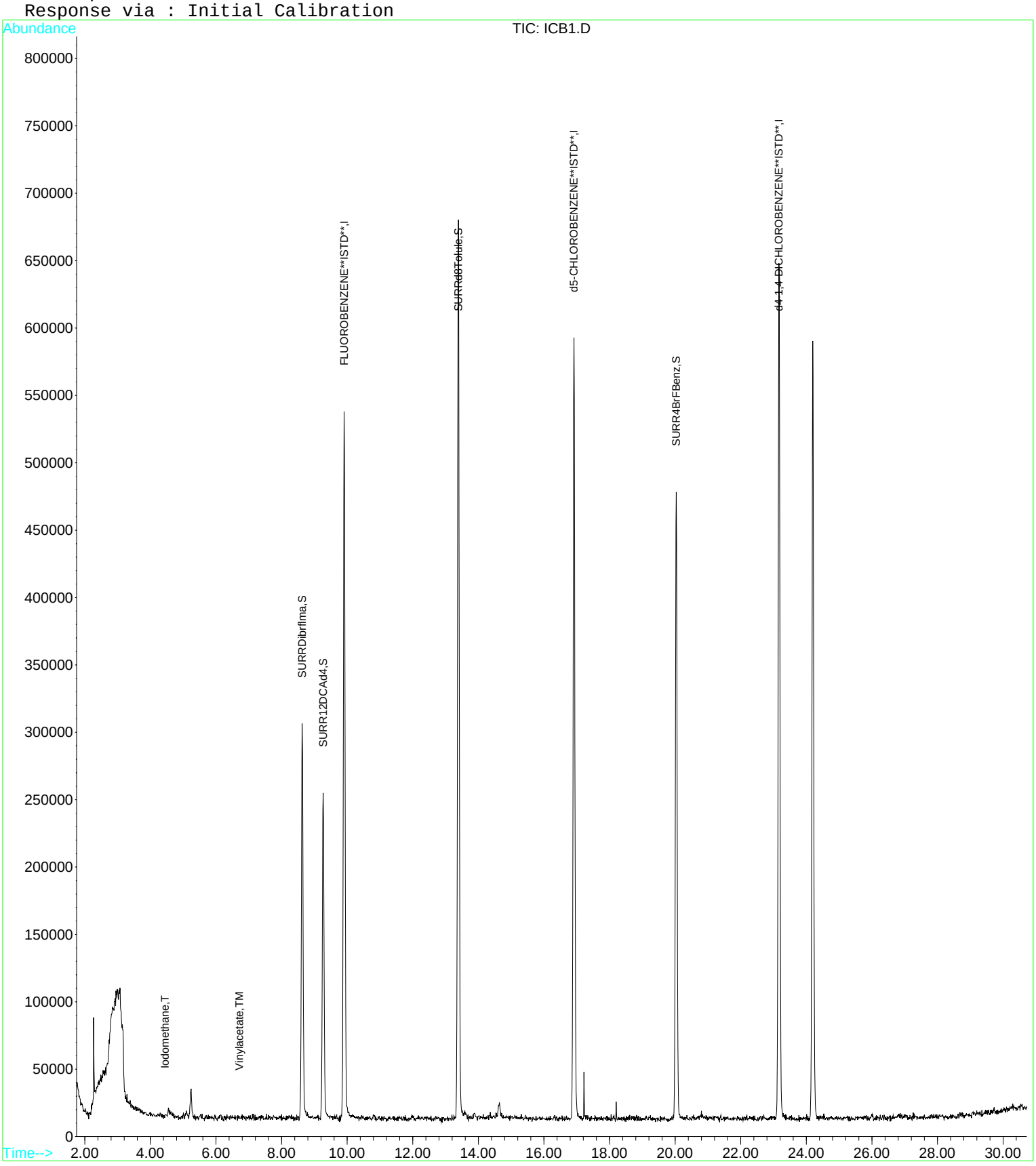
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Naphthalene	29.21	128	1914	N.D.	
103) 123Trichlben	0.00	180	0	N.D.	

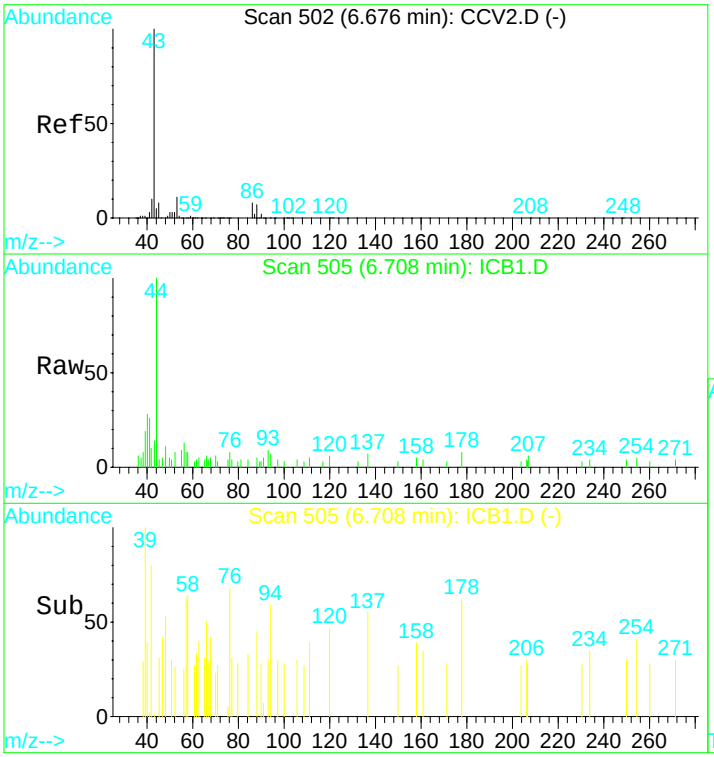
(#) = qualifier out of range (m) = manual integration
ICB1.D PS120210.M Tue Dec 14 11:14:55 2010 Page 129 Page 3

Quantitation Report

Data File : N:\DATA\DEC0210C\ICB1.D Vial: 18
Acq On : 3 Dec 2010 2:12 Operator: APG
Sample : INITIAL CALIB. BLANK Inst : VMS1
Misc : 5.0 mL H20 PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 9:01 2010 Quant Results File: PS120210.RES

Method : N:\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration

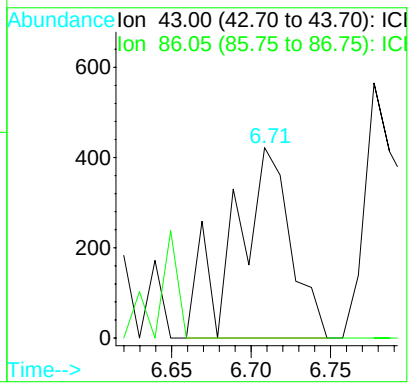




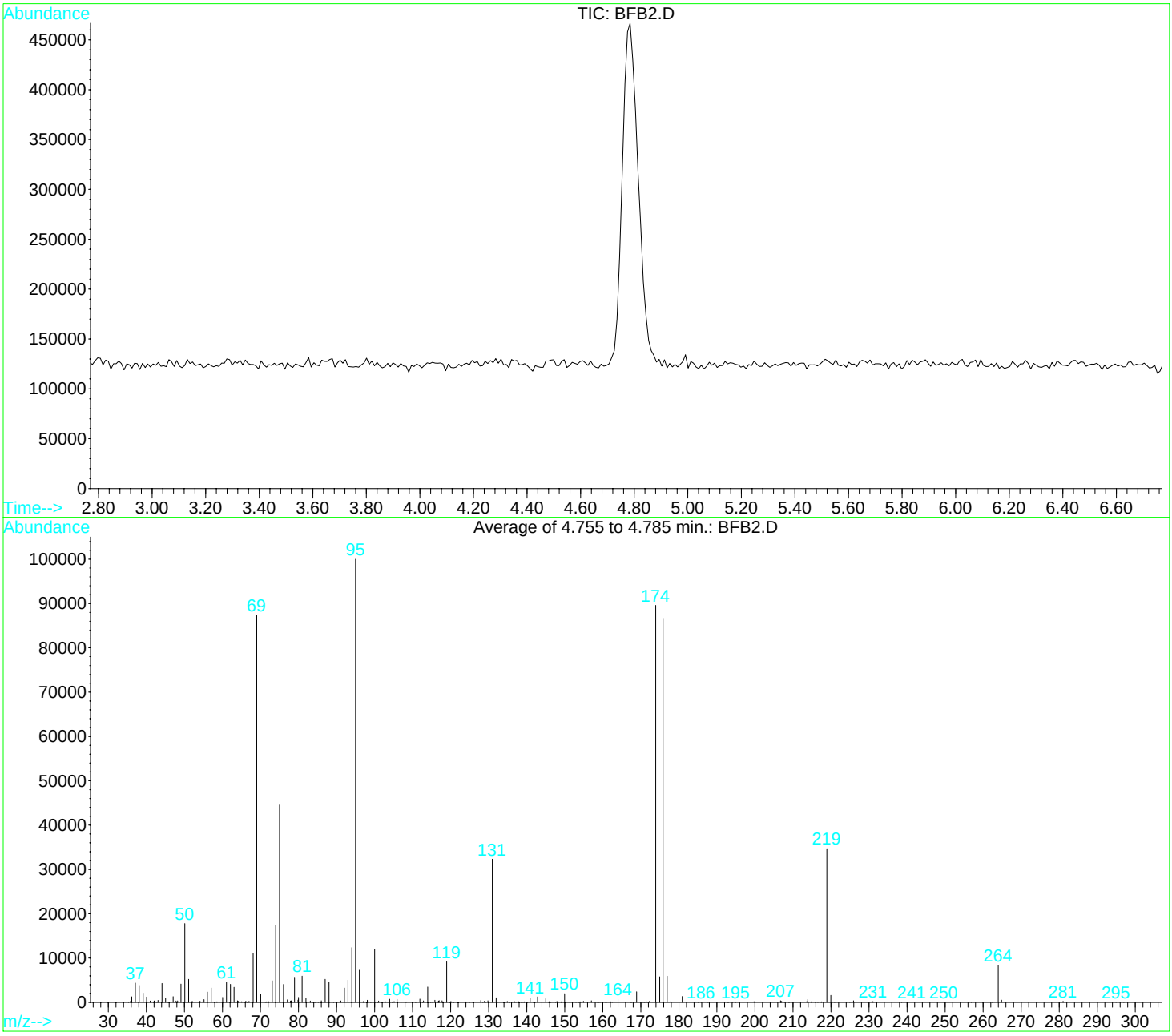
#27
Vinylacetate
Concen: 0.25 mg/kg
RT: 6.71 min Scan# 505
Delta R.T. 0.05 min
Lab File: ICB1.D
Acq: 3 Dec 2010 2:12

Tgt Ion: 43 Resp: 1046

Ion	Ratio	Lower	Upper
43	100		
86	0.0	0.0	30.9



Data File : N:\DATA\DEC0210C\BFB2.D Vial: 19
Acq On : 3 Dec 2010 8:02 Operator: APG
Sample : 50.0 ng BFB, DIRCT INJECTION Inst : VMS1
Misc : 50 ng Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : N:\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260



Spectrum Information: Average of 4.755 to 4.785 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.8	17786	PASS
75	95	30	60	44.5	44542	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	7.2	7248	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	89.6	89580	PASS
175	174	5	9	6.5	5778	PASS
176	174	95	101	96.8	86700	PASS
177	176	5	9	6.8	5925	PASS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : CT Laboratories Contract: USACE-LOUISVILLE

SDG # : 82743 Site: Location: Group:

Lab File ID: BFB2.D BFB Injection Date: 12/03/10

Instrument ID: VMS1 BFB Injection Time: 8:02

GC Column: ZB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15 - 40.0% of mass 95	17.8
75	30.0 - 60.0% of mass 95	44.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.0
174	50.0 - 100.0% of mass 95	89.6
175	5.0 - 9.0% of mass 174	6.5
176	95.0 - 101.0% of mass 174	96.8
177	5.0 - 9.0% of mass 176	6.8

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
Calibration Std.	CALS1	CALS1R .D	12/03/10	10:18

Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS1R.D Vial: 21
Acq On : 3 Dec 2010 10:18 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 0.05/0.50 mg/kg, 5.0 mL PURGED+ ISTD/SST Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 10:48 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:59:56 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.92	96	968847	1.00 mg/kg	0.00 NA%
66) d5-CHLOROBENZENE**ISTD**	16.92	117	766316	1.00 mg/kg	0.00 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.17	152	396949	1.00 mg/kg	0.00 NA%
System Monitoring Compounds					
42) SURRDibrflma	8.64	113	334215	1.002 mg/kg	0.00
Spiked Amount 0.950	Range 77 - 121		Recovery = 105 %		
45) SURR12DCAd4	9.28	102	80826	1.020 mg/kg	0.00
Spiked Amount 0.950	Range 77 - 119		Recovery = 107 %		
59) SURRd8Tolule	13.40	98	931815	0.992 mg/kg	0.00
Spiked Amount 0.950	Range 84 - 126		Recovery = 104 %		
81) SURR4BrFBenz	20.04	95	341496	0.987 mg/kg	0.00
Spiked Amount 0.950	Range 88 - 128		Recovery = 104 %		
Target Compounds					Qvalue
2) Dichlorodi	1.89	85	16035	0.0543 mg/kg	86
3) Chloromethan	2.16	50	21696	0.0710 mg/kg	99
4) Vinylchlorid	2.32	62	22019	0.0659 mg/kg	75
5) Bromomethane	2.81	94	45766	0.0961 mg/kg	80
6) Chloroethane	2.96	64	9656	0.0886 mg/kg	68
7) Trichlorofma	3.38	101	24468	0.0014 mg/kg	95
8) Dichloroflmethane	3.37	67	37656	0.0653 mg/kg	96
9) Ethylether	3.94	59	13048	0.0574 mg/kg	92
10) dichlorotfluoroethan	4.02	67	23149	0.0706 mg/kg	91
11) propyleneoxide	4.07	58	48187	0.6353 mg/kg	94
12) Acrolein	4.22	56	13931	0.3653 mg/kg	96
13) 11dichlorthe	4.31	96	14992	0.0613 mg/kg	89
14) Trichlorotfluoroeth	4.30	101	35096	0.1226 mg/kg	97
15) Acetone	4.52	43	118257	0.8675 mg/kg	98
16) Iodomethane	4.56	142	37295	0.3131 mg/kg	98
17) Carbon Dislf	4.63	76	101722	0.1222 mg/kg	95
18) allylchloride	4.98	41	38316	0.1286 mg/kg	91
19) methylacetate	5.10	74	20466	0.1707 mg/kg	94
20) Methylchlorid	5.24	84	148976	0.2796 mg/kg	97
21) t12dichlorte	5.70	96	19202	0.0668 mg/kg	95
22) tbutylalcohol	5.62	59	84888	2.3581 mg/kg	80
23) MtBE	5.70	73	44010	0.0554 mg/kg#	32
24) Acrylonitrile	5.77	53	39142	0.3192 mg/kg	97
25) Hexane	6.14	57	30483	0.1177 mg/kg	94
26) 11dichlorota	6.51	63	26051	0.0634 mg/kg	97
27) Vinylacetate	6.65	43	202916	Below Cal	99
28) chloroprene	6.64	53	34991	0.1148 mg/kg	92
29) Diisopether	6.61	45	46409	0.0588 mg/kg#	33
30) ETBE	7.32	59	42777	0.0577 mg/kg	97
31) 22dichloropr	7.56	77	22070	0.0662 mg/kg	98
32) c12dichlorte	7.64	96	19622	0.0641 mg/kg	91
33) 2Butanone	7.73	43	113850	0.6902 mg/kg	96
34) Ethylacetate	7.85	43	58496	0.2080 mg/kg	91
35) propionitrile	7.90	54	31811	0.6714 mg/kg	95
36) Bromochlorma	8.12	128	9907	0.0584 mg/kg	87
37) methacrylonitrile	8.14	67	17913	0.1213 mg/kg#	1
38) tetrahydofur	8.21	42	59358	0.5971 mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS1R.D Vial: 21
Acq On : 3 Dec 2010 10:18 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 0.05/0.50 mg/kg, 5.0 mL PURGED+ ISTD/SST Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 10:48 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:59:56 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	8.30	83	32764	0.0696 mg/kg	98
40)	111trichlota	8.55	97	21505	0.0588 mg/kg	92
41)	Cyclohexane	8.60	56	19482	0.0586 mg/kg	94
43)	Carbtetraclo	8.86	119	17442	0.0563 mg/kg	97
44)	11dicloprope	8.88	110	7339	0.0563 mg/kg	97
46)	Benzene	9.32	78	58605	0.0618 mg/kg#	1
47)	12dichlorota	9.43	62	20587	0.0642 mg/kg	94
48)	TAME	9.56	73	47411	0.0597 mg/kg	99
49)	Trichloroete	10.68	95	16265	0.0631 mg/kg	97
50)	methylcyclohexane	10.98	83	20899	0.0584 mg/kg	95
51)	12dicloropra	11.19	63	14381	0.0630 mg/kg	90
52)	23Dicl1propene	11.35	75	23246	0.0605 mg/kg	97
53)	Dibromometha	11.48	93	14562	0.0645 mg/kg	97
54)	methylmethacrylate	11.55	69	8322	0.0384 mg/kg#	1
55)	Bromodiclrma	11.88	83	21715	0.0646 mg/kg	93
56)	2CLEVE	12.58	63	58235	0.3108 mg/kg	97
57)	c13dicloproe	12.87	75	22572	0.0593 mg/kg	96
58)	4Meth2pentan	13.25	43	216907	0.6984 mg/kg	100
60)	Toluene	13.55	92	40790	0.0666 mg/kg	98
61)	t13Dicloprop	14.22	75	20286	0.0586 mg/kg	95
62)	ethylmethacrylate	14.43	69	49733	0.1393 mg/kg	90
63)	112Triclotha	14.65	83	14617	0.0686 mg/kg	98
64)	Tetrachlorte	14.82	166	17192	0.0628 mg/kg	97
65)	13Diclorpropa	15.02	76	27651	0.0687 mg/kg	97
67)	2Hexanone	15.28	43	178387	0.7063 mg/kg	97
68)	Clorodibrmta	15.58	129	19168	0.0614 mg/kg	98
69)	12Dibrometha	15.78	107	19978	0.0614 mg/kg	93
70)	1Clhexane	16.99	55	14611	0.0693 mg/kg#	80
71)	Chlorobenzen	16.99	112	51481	0.0687 mg/kg	99
72)	1112tetclota	17.25	131	15841	0.0644 mg/kg	97
73)	Ethylbenzene	17.28	91	73698	0.0637 mg/kg	100
74)	m p-Xylene	17.59	106	56084	0.1239 mg/kg	96
75)	o-Xylene	18.62	106	28960	0.0650 mg/kg	98
76)	Styrene	18.68	104	47315	0.0638 mg/kg	99
77)	Bromoform	19.21	173	12789	0.0590 mg/kg	98
78)	Isopropylben	19.61	105	69750	0.0648 mg/kg	95
80)	cyclohexanone	19.92	55	8369	0.9299 mg/kg#	97
82)	Bromobenzene	20.38	156	21932	0.0701 mg/kg	96
83)	1122Tetrclta	20.62	83	28161	0.0739 mg/kg	97
84)	123triclproa	20.65	75	21541	0.0759 mg/kg	98
85)	n-Propylbenz	20.72	91	79779	0.0670 mg/kg	98
86)	14dichloro2butene	20.65	75	21541	0.0759 mg/kg#	99
87)	2chlorotolue	20.92	91	46773	0.0681 mg/kg	97
88)	4chlorotolue	21.22	91	54664	0.0684 mg/kg	99
89)	135Trimebenz	21.23	105	52946	0.0680 mg/kg	97
90)	tbutylbenzen	22.09	119	44636	0.0656 mg/kg	98
91)	124Trimetben	22.24	105	54653	0.0698 mg/kg	99
92)	sbutylbenzen	22.69	105	65592	0.0663 mg/kg	96
93)	13Diclorbenz	22.99	146	36339	0.0700 mg/kg	98
94)	pIsopropylto	23.13	119	51218	0.0644 mg/kg	93
95)	14dichlorobe	23.24	146	39152	0.0709 mg/kg	91
96)	12dichlorobe	24.25	146	38075	0.0733 mg/kg	91
97)	nButylbenzen	24.28	91	50632	0.0715 mg/kg	94
98)	12dibromo3cl	26.54	157	5872	0.0708 mg/kg	99
99)	135Trichlorobenzene	27.03	180	22703	0.0668 mg/kg	95
100)	124trichlobe	28.70	180	21741	0.0727 mg/kg	99
101)	Hexachlorobu	29.09	225	8805	0.0723 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0210C\CALS1R.D Vial: 21
Acq On : 3 Dec 2010 10:18 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 0.05/0.50 mg/kg, 5.0 mL PURGED+ ISTD/SST Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 10:48 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 03 07:59:56 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

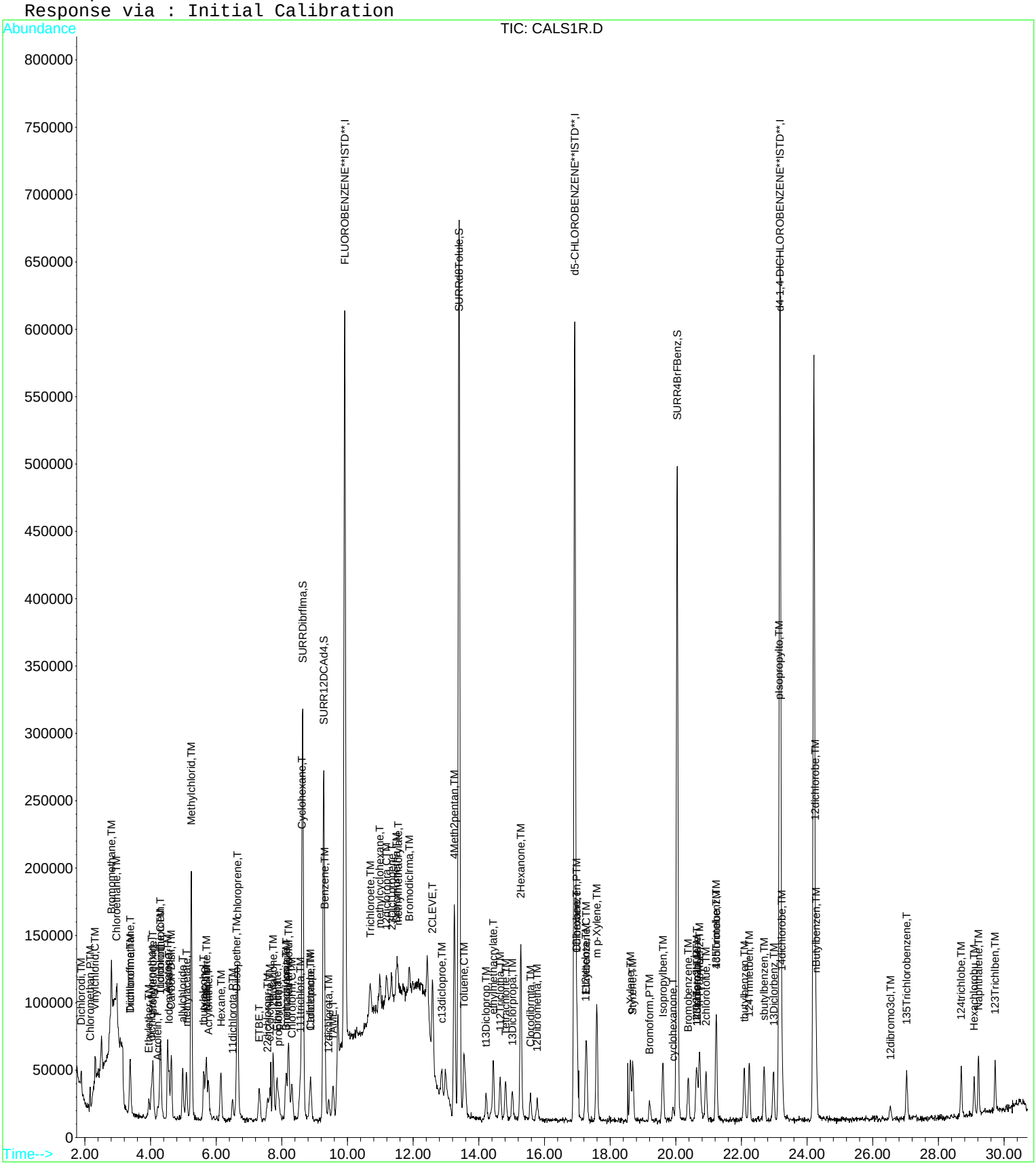
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Naphthalene	29.22	128	62641	0.0664 mg/kg	96
103) 123Trichlben	29.73	180	18928	0.0678 mg/kg	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

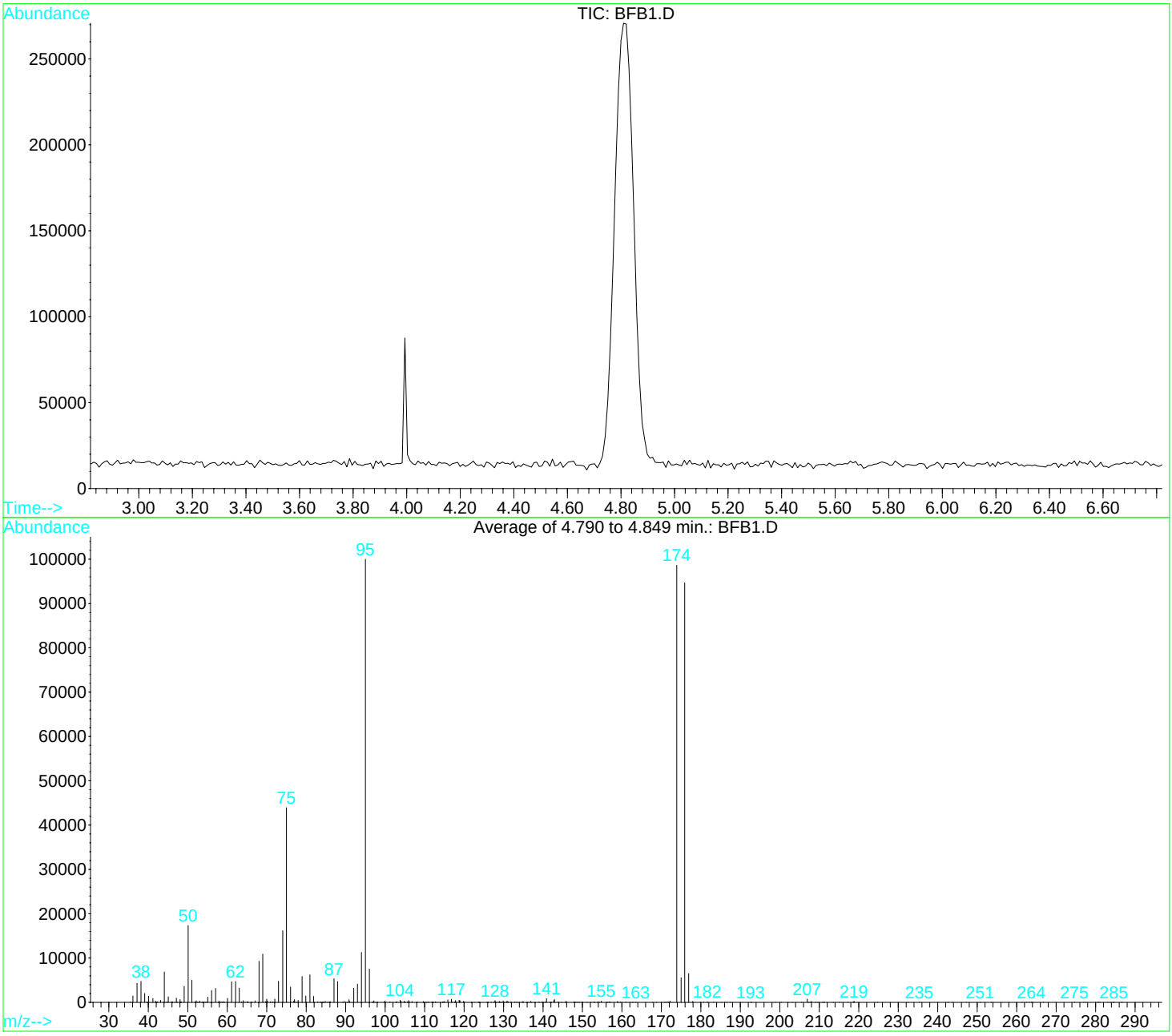
Data File : N:\DATA\DEC0210C\CALS1R.D Vial: 21
Acq On : 3 Dec 2010 10:18 Operator: APG
Sample : SOIL CALIB. STD. Inst : VMS1
Misc : 0.05/0.50 mg/kg, 5.0 mL PURGED+ ISTD/SST Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 3 10:48 2010 Quant Results File: PS120210.RES

Method : N:\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration



Data File : N:\DATA\DEC0310\BFB1.D
Acq On : 3 Dec 2010 11:06
Sample : 72027,BFB,1
Misc : 50 ng
MS Integration Params: RTEINT.P
Method : N:\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260

Vial: 1
Operator: APG
Inst : VMS1
Multiplr: 1.00



Spectrum Information: Average of 4.790 to 4.849 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.3	17349	PASS
75	95	30	60	43.9	43945	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	7.5	7511	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	98.6	98641	PASS
175	174	5	9	5.7	5593	PASS
176	174	95	101	96.0	94688	PASS
177	176	5	9	6.9	6505	PASS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : CT Laboratories Contract: USACE-LOUISVILLE

SDG # : 82743 Site: Location: Group:

Lab File ID: BFB1.D BFB Injection Date: 12/03/10

Instrument ID: VMS1 BFB Injection Time: 11:06

GC Column: ZB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15 - 40.0% of mass 95	17.3
75	30.0 - 60.0% of mass 95	43.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.0
174	50.0 - 100.0% of mass 95	98.6
175	5.0 - 9.0% of mass 174	5.7
176	95.0 - 101.0% of mass 174	96.0
177	5.0 - 9.0% of mass 176	6.9

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
Initial Calib. Verif.	ICV	LCS-ICV1 .D	12/03/10	13:28

Evaluate Continuing Calibration Report

Data File : N:\DATA\DEC0310\LCS-ICV1.D Vial: 5
Acq On : 3 Dec 2010 13:28 Operator: APG
Sample : 72027,LCSS,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : N:\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.000	1.000	0.0	100	0.00
2	TM	Dichlorodi	0.323	0.330	-2.2	114	0.00
3	PTM	Chloromethan	0.346	0.329	4.9	99	0.00
4	CTM	Vinylchlorid	0.375	0.394	-5.1	110	0.00
5	TM	Bromomethane	0.404	0.319	21.0#	101	0.00
6	TM	Chloroethane	0.105	0.097#	7.6	111	0.00
7	TM	Trichlorofma	0.476	0.441	7.4	104	0.04
8	T	Dichloroflmethane	0.649	0.610	6.0	97	0.02
9	TM	Ethylether	0.249	0.241	3.2	93	0.00
10	T	dichlorotfluoroethan	0.371	0.359	3.2	102	0.01
11	T	propyleneoxide	0.085	0.076#	10.6	88	0.00
12	T	Acrolein	0.043	0.038#	11.6	89	0.01
13	CTM	11dichlorthe	0.270	0.257	4.8	101	0.02
14	T	Trichlorotfluoroeth	0.316	0.320	-1.3	113	0.01
15	TM	Acetone	0.155	0.118	23.9#	76	0.00
16	T	Iodomethane	0.393	0.404	-2.8	113	0.01
17	TM	Carbon Dislf	0.930	0.909	2.3	102	0.02
18	T	allylchloride	0.331	0.321	3.0	99	0.01
19	T	methylacetate	0.159	0.102	35.8#	84	0.00
20	TM	Methylchlorid	0.819	0.460	43.8#	101	0.01
21	TM	t12dichlorte	0.322	0.315	2.2	101	0.02
22	T	tbutylalcohol	0.038	0.028#	26.3#	69	-0.03
23	TM	MtBE	0.874	0.848	3.0	95	0.00
24	T	Acrylonitrile	0.137	0.126	8.0	87	0.00
25	TM	Hexane	0.285	0.259	9.1	108	0.02
26	PTM	11dichlorota	0.457	0.442	3.3	97	0.01
27	TM	Vinylacetate	0.549	0.544	0.9	92	0.01
28	T	chloroprene	0.338	0.328	3.0	98	0.01
29	TM	Diisopether	0.871	0.818	6.1	94	0.01
30	T	ETBE	0.819	0.766	6.5	95	0.00
31	TM	22dichloropr	0.371	0.365	1.6	99	0.01
32	TM	c12dichlorte	0.339	0.336	0.9	102	0.01
33	TM	2Butanone	0.185	0.153	17.3	82	0.00
34	T	Ethylacetate	0.423	0.281	33.6#	93	0.00
35	T	propionitrile	0.053	0.045#	15.1	81	0.00
36	TM	Bromochlorma	0.187	0.184	1.6	98	0.01
37	T	methacrylonitrile	0.164	0.154	6.1	92	0.00
38	TM	tetrahydofur	0.109	0.097#	11.0	85	0.00
39	CTM	Chloroform	0.526	0.511	2.9	98	0.00
40	TM	111trichlota	0.404	0.410	-1.5	103	0.02
41	T	Cyclohexane	0.370	0.362	2.2	104	0.01
42	S	SURRDibrflma	0.346	0.350	-1.2	103	0.00
43	TM	Carbtetraclo	0.341	0.349	-2.3	107	0.01
44	TM	11dicloprope	0.143	0.137	4.2	100	0.01
45	S	SURR12DCAd4	0.082	0.082#	0.0	99	0.00
46	TM	Benzene	1.059	1.022	3.5	97	0.01
47	TM	12dichlorota	0.355	0.336	5.4	95	0.01
48	T	TAME	0.882	0.826	6.3	96	0.00
49	TM	Trichloroete	0.291	0.285	2.1	100	0.01
50	T	methylcyclohexane	0.394	0.387	1.8	117	0.00
51	CTM	12dicloropra	0.254	0.247	2.8	96	0.00
52	T	23Dicl1propene	0.428	0.402	6.1	96	0.01
53	TM	Dibromometha	0.253	0.247	2.4	100	0.00
54	T	methylmethacrylate	0.230	0.223	3.0	96	0.00
55	TM	Bromodiclrma	0.375	0.359	4.3	96	0.00
56	T	2CLEVE	0.210	0.200	4.8	95	0.00
57	TM	c13dicloproe	0.425	0.407	4.2	99	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : N:\DATA\DEC0310\LCS-ICV1.D Vial: 5
Acq On : 3 Dec 2010 13:28 Operator: APG
Sample : 72027,LCSS,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : N:\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
58	TM	4Meth2pentan	0.349	0.303	13.2	88	0.00
59	S	SURRd8Tolule	0.971	1.000	-3.0	102	0.01
60	CTM	Toluene	0.685	0.682	0.4	101	0.00
61	TM	t13Dicloprop	0.385	0.358	7.0	97	0.00
62	T	ethylmethacrylate	0.406	0.376	7.4	93	0.00
63	TM	112Triclotha	0.241	0.232	3.7	97	0.00
64	TM	Tetrachlorte	0.305	0.301	1.3	103	0.00
65	TM	13Diclorpropa	0.456	0.420	7.9	93	0.00
66	I	d5-CHLOROBENZENE**ISTD**	1.000	1.000	0.0	102	0.00
67	TM	2Hexanone	0.359	0.306	14.8	86	0.00
68	TM	Clorodibrmta	0.443	0.420	5.2	101	0.00
69	TM	12Dibrometha	0.462	0.432	6.5	96	0.00
70	T	1Clhexane	0.303	0.285	5.9	98	0.00
71	PTM	Chlorobenzen	1.071	1.024	4.4	99	0.00
72	TM	1112tetclota	0.350	0.323	7.7	100	0.01
73	CTM	Ethylbenzene	1.636	1.583	3.2	99	0.00
74	TM	m p-Xylene	0.641	0.621	3.1	99	0.00
75	TM	o-Xylene	0.632	0.589	6.8	97	0.00
76	TM	Styrene	1.054	1.014	3.8	99	0.00
77	PTM	Bromoform	0.304	0.290	4.6	102	0.00
78	TM	Isopropylben	1.528	1.469	3.9	100	0.00
79	I	d4-1,4-DICHLOROBENZENE**IST	1.000	1.000	0.0	101	0.00
80	T	cyclohexanone	0.023	0.014#	39.1#	54	-0.02
81	S	SURR4BrFBenz	0.871	0.860	1.3	99	0.00
82	TM	Bromobenzene	0.865	0.818	5.4	102	0.01
83	PTM	1122Tetrclta	1.060	0.971	8.4	96	0.00
84	TM	123triclproa	0.790	0.712	9.9	93	0.00
85	TM	n-Propylbenz	3.281	3.120	4.9	99	0.00
86	T	14dichloro2butene	0.790	0.712	9.9	93	0.00
87	TM	2chlorotolue	1.894	1.772	6.4	97	0.00
88	TM	4chlorotolue	2.208	2.070	6.3	95	0.00
89	TM	135Trimebenz	2.156	2.028	5.9	96	0.01
90	TM	tbutylbenzen	1.869	1.790	4.2	100	0.00
91	TM	124Trimetben	2.174	2.052	5.6	98	0.00
92	TM	sbutylbenzen	2.713	2.605	4.0	101	0.00
93	TM	13Diclorbenz	1.438	1.365	5.1	99	0.00
94	TM	pIsopropylto	2.172	2.058	5.2	99	0.00
95	TM	14dichlorobe	1.526	1.412	7.5	97	0.00
96	TM	12dichlorobe	1.441	1.359	5.7	99	0.00
97	TM	nButylbenzen	1.969	1.813	7.9	97	0.00
98	TM	12dibromo3cl	0.231	0.200	13.4	92	0.00
99	T	135Trichlorobenzene	0.931	0.882	5.3	102	0.00
100	TM	124trichlobe	0.828	0.759	8.3	97	0.00
101	TM	Hexachlorobu	0.338	0.326	3.6	104	0.00
102	TM	Naphthalene	2.573	2.298	10.7	92	0.00
103	TM	123Trichlben	0.766	0.714	6.8	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : N:\DATA\DEC0310\LCS-ICV1.D Vial: 5
Acq On : 3 Dec 2010 13:28 Operator: APG
Sample : 72027,LCSS,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : N:\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.000	1.000	0.0	100	0.00
2	TM	Dichlorodi	0.500	0.512	-2.4	114	0.00
3	PTM	Chloromethan	0.500	0.519	-3.8	99	0.00
4	CTM	Vinylchlorid	0.500	0.526	-5.2	110	0.00
5	TM	Bromomethane	0.500	0.548	-9.6	101	0.00
6	TM	Chloroethane	0.500	0.570	-14.0	111	0.00
7	TM	Trichlorofma	0.500	0.468	6.4	104	0.04
8	T	Dichloroflmethane	0.500	0.470	6.0	97	0.02
9	TM	Ethylether	0.500	0.484	3.2	93	0.00
10	T	dichlorotfluoroethan	0.500	0.483	3.4	102	0.01
11	T	propyleneoxide	5.000	4.474	10.5	88	0.00
12	T	Acrolein	2.500	2.199	12.0	89	0.01
13	CTM	11dichlorthe	0.500	0.476	4.8	101	0.02
14	T	Trichlorotfluoroeth	1.000	1.011	-1.1	113	0.01
15	TM	Acetone	5.000	4.208	15.8	76	0.00
16	T	Iodomethane	1.000	1.041	-4.1	113	0.01
17	TM	Carbon Dislf	1.000	0.977	2.3	102	0.02
18	T	allylchloride	1.000	0.972	2.8	99	0.01
19	T	methylacetate	0.500	0.426	14.8	84	0.00
20	TM	Methylchlorid	0.500	0.488	2.4	101	0.01
21	TM	t12dichlorte	0.500	0.488	2.4	101	0.02
22	T	tbutylalcohol	25.000	17.987	28.1#	69	-0.03
23	TM	MtBE	0.500	0.486	2.8	95	0.00
24	T	Acrylonitrile	2.500	2.309	7.6	87	0.00
25	TM	Hexane	1.000	0.909	9.1	108	0.02
26	PTM	11dichlorota	0.500	0.484	3.2	97	0.01
27	TM	Vinylacetate	5.000	4.665	6.7	92	0.01
28	T	chloroprene	1.000	0.972	2.8	98	0.01
29	TM	Diisopether	0.500	0.469	6.2	94	0.01
30	T	ETBE	0.500	0.468	6.4	95	0.00
31	TM	22dichloropr	0.500	0.493	1.4	99	0.01
32	TM	c12dichlorte	0.500	0.495	1.0	102	0.01
33	TM	2Butanone	5.000	4.121	17.6	82	0.00
34	T	Ethylacetate	0.500	0.428	14.4	93	0.00
35	T	propionitrile	5.000	4.270	14.6	81	0.00
36	TM	Bromochlorma	0.500	0.492	1.6	98	0.01
37	T	methacrylonitrile	1.000	0.938	6.2	92	0.00
38	TM	tetrahydofur	5.000	4.423	11.5	85	0.00
39	CTM	Chloroform	0.500	0.485	3.0	98	0.00
40	TM	111trichlota	0.500	0.507	-1.4	103	0.02
41	T	Cyclohexane	0.500	0.490	2.0	104	0.01
42	S	SURRDibrflma	0.950	0.961	-1.2	103	0.00
43	TM	Carbtetraclo	0.500	0.512	-2.4	107	0.01
44	TM	11dicloprope	0.500	0.478	4.4	100	0.01
45	S	SURR12DCAd4	0.950	0.946	0.4	99	0.00
46	TM	Benzene	0.500	0.483	3.4	97	0.01
47	TM	12dichlorota	0.500	0.474	5.2	95	0.01
48	T	TAME	0.500	0.468	6.4	96	0.00
49	TM	Trichloroete	0.500	0.490	2.0	100	0.01
50	T	methylcyclohexane	0.500	0.490	2.0	117	0.00
51	CTM	12dicloropra	0.500	0.487	2.6	96	0.00
52	T	23Dicl1propene	0.500	0.470	6.0	96	0.01
53	TM	Dibromometha	0.500	0.487	2.6	100	0.00
54	T	methylmethacrylate	0.500	0.484	3.2	96	0.00
55	TM	Bromodiclrma	0.500	0.478	4.4	96	0.00
56	T	2CLEVE	2.500	2.376	5.0	95	0.00
57	TM	c13dicloproe	0.500	0.479	4.2	99	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : N:\DATA\DEC0310\LCS-ICV1.D Vial: 5
Acq On : 3 Dec 2010 13:28 Operator: APG
Sample : 72027,LCSS,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : N:\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
58	TM	4Meth2pentan	5.000	4.343	13.1	88	0.00
59	S	SURRd8Tolule	0.950	0.979	-3.1	102	0.01
60	CTM	Toluene	0.500	0.498	0.4	101	0.00
61	TM	t13Dicloprop	0.500	0.465	7.0	97	0.00
62	T	ethylmethacrylate	1.000	0.927	7.3	93	0.00
63	TM	112Triclotha	0.500	0.482	3.6	97	0.00
64	TM	Tetrachlorte	0.500	0.493	1.4	103	0.00
65	TM	13Diclorpropa	0.500	0.460	8.0	93	0.00
66	I	d5-CHLOROBENZENE**ISTD**	1.000	1.000	0.0	102	0.00
67	TM	2Hexanone	5.000	4.257	14.9	86	0.00
68	TM	Clorodibrmta	0.500	0.474	5.2	101	0.00
69	TM	12Dibrometha	0.500	0.468	6.4	96	0.00
70	T	1Clhexane	0.500	0.499	0.2	98	0.00
71	PTM	Chlorobenzen	0.500	0.478	4.4	99	0.00
72	TM	1112tetclota	0.500	0.462	7.6	100	0.01
73	CTM	Ethylbenzene	0.500	0.484	3.2	99	0.00
74	TM	m p-Xylene	1.000	0.969	3.1	99	0.00
75	TM	o-Xylene	0.500	0.466	6.8	97	0.00
76	TM	Styrene	0.500	0.481	3.8	99	0.00
77	PTM	Bromoform	0.500	0.478	4.4	102	0.00
78	TM	Isopropylben	0.500	0.481	3.8	100	0.00
79	I	d4-1,4-DICHLOROBENZENE**IST	1.000	1.000	0.0	101	0.00
80	T	cyclohexanone	10.000	5.788	42.1#	54	-0.02
81	S	SURR4BrFBenz	0.950	0.938	1.3	99	0.00
82	TM	Bromobenzene	0.500	0.473	5.4	102	0.01
83	PTM	1122Tetrclta	0.500	0.458	8.4	96	0.00
84	TM	123triclproa	0.500	0.484	3.2	93	0.00
85	TM	n-Propylbenz	0.500	0.475	5.0	99	0.00
86	T	14dichloro2butene	0.500	0.484	3.2	93	0.00
87	TM	2chlorotolue	0.500	0.468	6.4	97	0.00
88	TM	4chlorotolue	0.500	0.469	6.2	95	0.00
89	TM	135Trimebenz	0.500	0.470	6.0	96	0.01
90	TM	tbutylbenzen	0.500	0.479	4.2	100	0.00
91	TM	124Trimetben	0.500	0.472	5.6	98	0.00
92	TM	sbutylbenzen	0.500	0.480	4.0	101	0.00
93	TM	13Diclorbenz	0.500	0.475	5.0	99	0.00
94	TM	pIsopropylto	0.500	0.474	5.2	99	0.00
95	TM	14dichlorobe	0.500	0.463	7.4	97	0.00
96	TM	12dichlorobe	0.500	0.471	5.8	99	0.00
97	TM	nButylbenzen	0.500	0.460	8.0	97	0.00
98	TM	12dibromo3cl	0.500	0.434	13.2	92	0.00
99	T	135Trichlorobenzene	0.500	0.474	5.2	102	0.00
100	TM	124trichlobe	0.500	0.458	8.4	97	0.00
101	TM	Hexachlorobu	0.500	0.482	3.6	104	0.00
102	TM	Naphthalene	0.500	0.447	10.6	92	0.00
103	TM	123Trichlben	0.500	0.466	6.8	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0310\LCS-ICV1.D Vial: 5
Acq On : 3 Dec 2010 13:28 Operator: APG
Sample : 72027,LCSS,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 9:06 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:06:39 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.93	96	1011107	1.00	mg/kg	0.00 NA%
66) d5-CHLOROBENZENE**ISTD**	16.93	117	768553	1.00	mg/kg	0.00 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.18	152	414808	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
42) SURRDibrflma	8.65	113	335948	0.961	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 121		Recovery = 101 %			
45) SURR12DCAd4	9.29	102	78421	0.946	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 119		Recovery = 100 %			
59) SURRd8Tolule	13.41	98	960880	0.979	mg/kg	0.01
Spiked Amount 0.950	Range 84 - 126		Recovery = 103 %			
81) SURR4BrFBenz	20.04	95	339092	0.938	mg/kg	0.00
Spiked Amount 0.950	Range 88 - 128		Recovery = 99 %			
Target Compounds						Qvalue
2) Dichlorodi	1.89	85	166901	0.5115	mg/kg	100
3) Chloromethan	2.16	50	166249	0.5189	mg/kg	98
4) Vinylchlorid	2.32	62	199324	0.5263	mg/kg	98
5) Bromomethane	2.82	94	161148	0.5476	mg/kg	98
6) Chloroethane	2.97	64	49178	0.5701	mg/kg	96
7) Trichlorofma	3.39	101	223157	0.4683	mg/kg	98
8) Dichloroflmethane	3.38	67	308138	0.4698	mg/kg	99
9) Ethylether	3.96	59	122027	0.4845	mg/kg	97
10) dichlorotfluoroethan	4.04	67	181244	0.4828	mg/kg	98
11) propyleneoxide	4.08	58	382700	4.4742	mg/kg	99
12) Acrolein	4.24	56	95766	2.1993	mg/kg	99
13) 11dichlorthe	4.31	96	129805	0.4762	mg/kg	97
14) Trichlorotfluoroeth	4.31	101	323221	1.0106	mg/kg	98
15) Acetone	4.53	43	597630	4.2084	mg/kg	99
16) Iodomethane	4.57	142	408003	1.0413	mg/kg	98
17) Carbon Dislf	4.64	76	919142	0.9771	mg/kg	99
18) allylchloride	4.99	41	324828	0.9720	mg/kg	98
19) methylacetate	5.10	74	51508	0.4263	mg/kg	90
20) Methylchlorid	5.25	84	232514	0.4883	mg/kg	97
21) t12dichlorte	5.71	96	159140	0.4882	mg/kg	97
22) tbutylalcohol	5.64	59	695717	17.9870	mg/kg	83
23) MtBE	5.71	73	428852	0.4855	mg/kg#	56
24) Acrylonitrile	5.77	53	319552	2.3095	mg/kg	100
25) Hexane	6.16	57	262032	0.9090	mg/kg	99
26) 11dichlorota	6.52	63	223412	0.4836	mg/kg	97
27) Vinylacetate	6.67	43	2750834	4.6649	mg/kg	99
28) chloroprene	6.65	53	332070	0.9718	mg/kg	99
29) Diisopether	6.64	45	413316	0.4691	mg/kg	96
30) ETBE	7.33	59	387373	0.4677	mg/kg	97
31) 22dichloropr	7.58	77	184576	0.4925	mg/kg	98
32) c12dichlorte	7.65	96	169636	0.4947	mg/kg	97
33) 2Butanone	7.74	43	771079	4.1205	mg/kg	99
34) Ethylacetate	7.86	43	141857	0.4282	mg/kg	99
35) propionitrile	7.91	54	229967	4.2696	mg/kg	99
36) Bromochlorma	8.13	128	92880	0.4923	mg/kg	96
37) methacrylonitrile	8.15	67	155415	0.9379	mg/kg#	88
38) tetrahydofur	8.19	42	487965	4.4231	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0310\LCS-ICV1.D Vial: 5
Acq On : 3 Dec 2010 13:28 Operator: APG
Sample : 72027,LCSS,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 9:06 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:06:39 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	8.32	83	258337	0.4855	mg/kg	100
40)	111trichlota	8.57	97	207124	0.5075	mg/kg	98
41)	Cyclohexane	8.60	56	183007	0.4895	mg/kg	96
43)	Carbtetraclo	8.87	119	176543	0.5118	mg/kg	98
44)	11dicloprope	8.90	110	69152	0.4783	mg/kg	100
46)	Benzene	9.33	78	516903	0.4826	mg/kg	99
47)	12dichlorota	9.45	62	170050	0.4742	mg/kg	97
48)	TAME	9.57	73	417430	0.4680	mg/kg	99
49)	Trichloroete	10.70	95	144309	0.4902	mg/kg	100
50)	methylcyclohexane	10.99	83	195539	0.4904	mg/kg	98
51)	12dicloropra	11.20	63	125045	0.4871	mg/kg	98
52)	23Dicl1propene	11.35	75	203192	0.4696	mg/kg	98
53)	Dibromometha	11.50	93	124789	0.4869	mg/kg	99
54)	methylmethacrylate	11.55	69	112565	0.4843	mg/kg	99
55)	Bromodiclrma	11.89	83	181336	0.4784	mg/kg	98
56)	2CLEVE	12.60	63	505007	2.3760	mg/kg	99
57)	c13dicloproe	12.88	75	205897	0.4795	mg/kg	100
58)	4Meth2pentan	13.26	43	1532145	4.3434	mg/kg	98
60)	Toluene	13.56	92	345021	0.4983	mg/kg	98
61)	t13Dicloprop	14.23	75	180819	0.4651	mg/kg	98
62)	ethylmethacrylate	14.45	69	380552	0.9272	mg/kg	99
63)	112Triclotha	14.65	83	117440	0.4824	mg/kg	97
64)	Tetrachlorte	14.83	166	151982	0.4926	mg/kg	99
65)	13Diclorpropa	15.03	76	212424	0.4602	mg/kg	96
67)	2Hexanone	15.28	43	1174625	4.2574	mg/kg	99
68)	Clorodibrmta	15.58	129	161334	0.4740	mg/kg	98
69)	12Dibrometha	15.79	107	166135	0.4682	mg/kg	96
70)	1Clhexane	16.99	55	109373	0.4987	mg/kg	96
71)	Chlorobenzen	17.00	112	393520	0.4780	mg/kg	98
72)	1112tetclota	17.27	131	124230	0.4623	mg/kg	100
73)	Ethylbenzene	17.29	91	608379	0.4839	mg/kg	99
74)	m p-Xylene	17.60	106	476973	0.9688	mg/kg	99
75)	o-Xylene	18.63	106	226323	0.4663	mg/kg	99
76)	Styrene	18.69	104	389667	0.4812	mg/kg	98
77)	Bromoform	19.22	173	111632	0.4776	mg/kg	98
78)	Isopropylben	19.61	105	564465	0.4807	mg/kg	99
80)	cyclohexanone	19.91	55	56136	5.7881	mg/kg	93
82)	Bromobenzene	20.40	156	169592	0.4725	mg/kg	96
83)	1122Tetrclta	20.63	83	201423	0.4582	mg/kg	97
84)	123triclproa	20.66	75	147649	0.4839	mg/kg	99
85)	n-Propylbenz	20.73	91	647091	0.4755	mg/kg	99
86)	14dichloro2butene	20.66	75	147649	0.4839	mg/kg#	99
87)	2chlorotolue	20.93	91	367430	0.4676	mg/kg	98
88)	4chlorotolue	21.24	91	429237	0.4687	mg/kg	98
89)	135Trimebenz	21.24	105	420599	0.4703	mg/kg	96
90)	tbutylbenzen	22.10	119	371286	0.4789	mg/kg	98
91)	124Trimetben	22.25	105	425623	0.4721	mg/kg	99
92)	sbutylbenzen	22.70	105	540213	0.4800	mg/kg	100
93)	13Diclorbenz	22.98	146	283144	0.4748	mg/kg	98
94)	pIsopropylto	23.14	119	426819	0.4738	mg/kg	99
95)	14dichlorobe	23.25	146	292903	0.4627	mg/kg	99
96)	12dichlorobe	24.26	146	281771	0.4713	mg/kg	98
97)	nButylbenzen	24.28	91	375975	0.4603	mg/kg	100
98)	12dibromo3cl	26.54	157	41506	0.4336	mg/kg	95
99)	135Trichlorobenzene	27.04	180	182940	0.4736	mg/kg	97
100)	124trichlobe	28.70	180	157428	0.4582	mg/kg	99
101)	Hexachlorobu	29.10	225	67694	0.4822	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : N:\DATA\DEC0310\LCS-ICV1.D Vial: 5
Acq On : 3 Dec 2010 13:28 Operator: APG
Sample : 72027,LCSS,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 9:06 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\V...\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:06:39 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

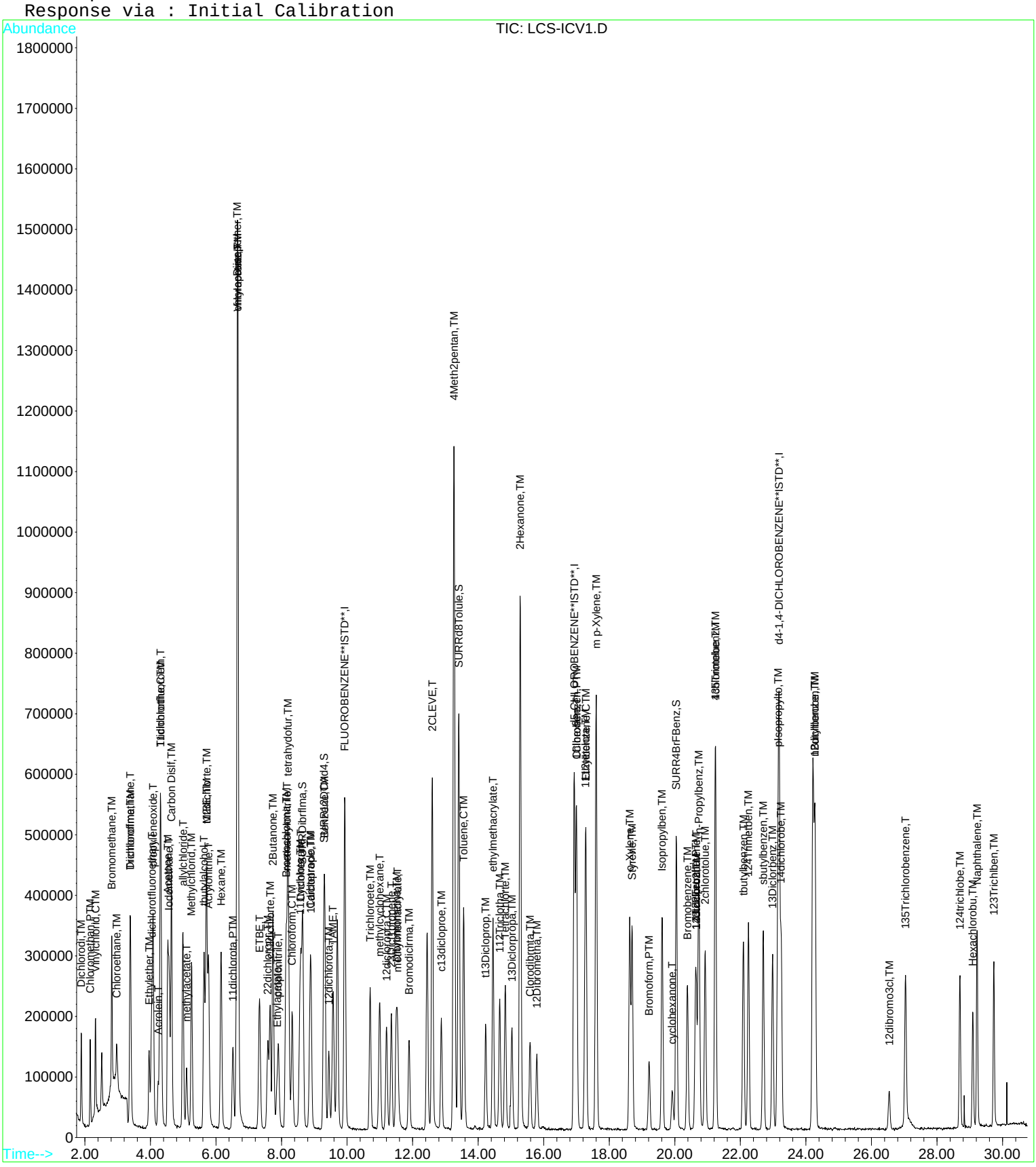
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	Naphthalene	29.22	128	476565	0.4465	mg/kg	99
103)	123Trichlben	29.74	180	148188	0.4663	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

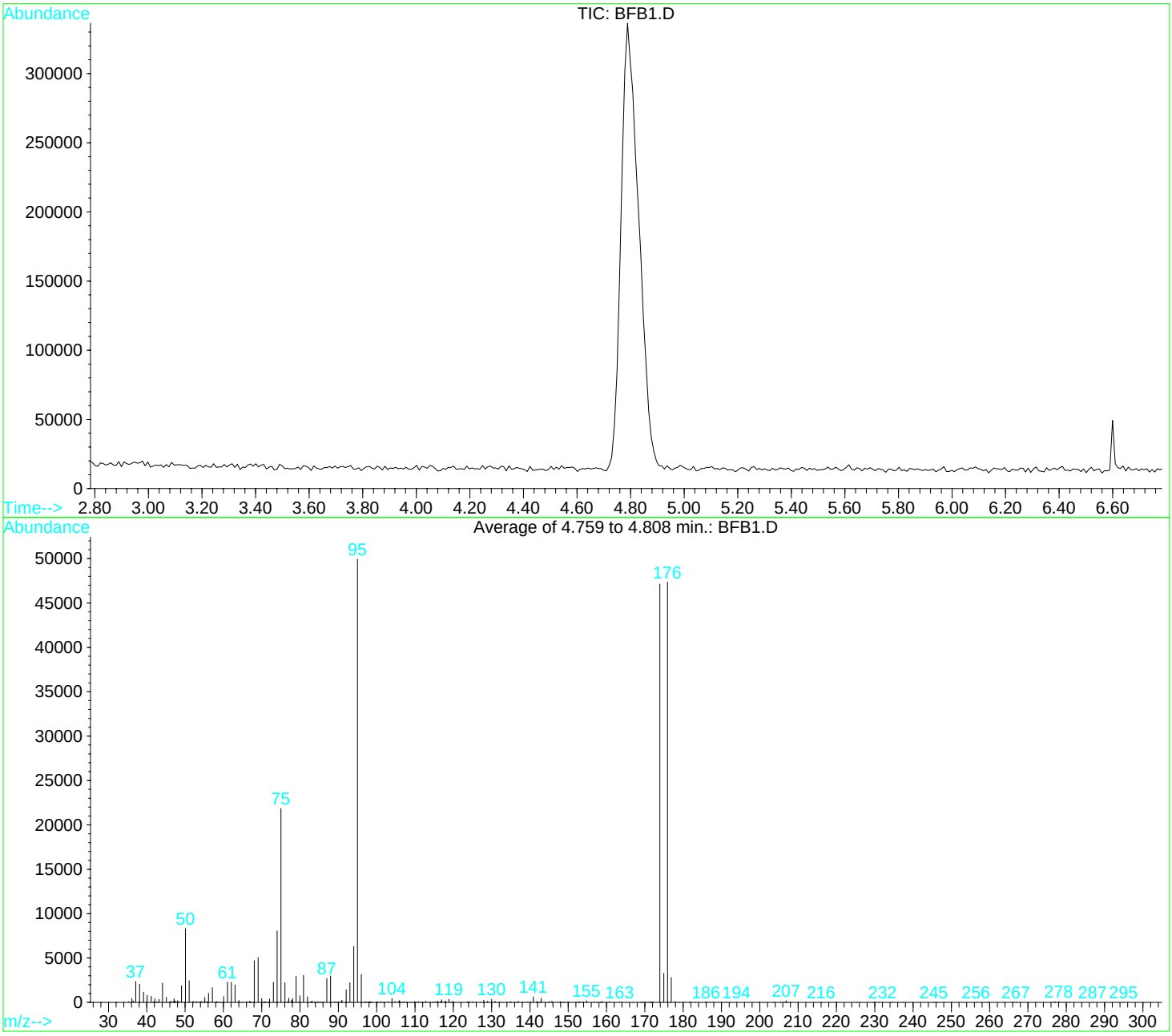
Data File : N:\DATA\DEC0310\LCS-ICV1.D Vial: 5
Acq On : 3 Dec 2010 13:28 Operator: APG
Sample : 72027,LCSS,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 9:06 2010 Quant Results File: PS120210.RES

Method : N:\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
CONTINUING CALIBRATION
DOCUMENTS

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\BFB1.D Vial: 1
Acq On : 8 Dec 2010 7:34 Operator: APG
Sample : 72301,BFB,1 Inst : VMS1
Misc : 50 ng Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260



Spectrum Information: Average of 4.759 to 4.808 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	8312	PASS
75	95	30	60	43.7	21846	PASS
95	95	100	100	100.0	49935	PASS
96	95	5	9	6.3	3129	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	94.4	47139	PASS
175	174	5	9	7.0	3279	PASS
176	174	95	101	100.5	47357	PASS
177	176	5	9	5.9	2804	PASS

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCV1.D Vial: 3
Acq On : 8 Dec 2010 8:29 Operator: APG
Sample : 72301,CCV,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.000	1.000	0.0	108	0.00
2	TM	Dichlorodi	0.323	0.350	-8.4	131	0.03
3	PTM	Chloromethan	0.346	0.331	4.3	108	0.03
4	CTM	Vinylchlorid	0.375	0.440	-17.3	134	0.02
5	TM	Bromomethane	0.404	0.342	15.3	118	0.03
6	TM	Chloroethane	0.105	0.282	-168.6#	349#	0.05
7	TM	Trichlorofma	0.476	0.513	-7.8	131	0.08
8	T	Dichloroflmethane	0.649	0.688	-6.0	118	0.05
9	TM	Ethylether	0.249	0.274	-10.0	115	0.02
10	T	dichlorotfluoroethan	0.371	0.400	-7.8	123	0.03
11	T	propyleneoxide	0.085	0.094#	-10.6	118	0.02
12	T	Acrolein	0.043	0.091#	-111.6#	233#	0.02
13	CTM	11dichlorthe	0.270	0.299	-10.7	128	0.05
14	T	Trichlorotfluoroeth	0.316	0.369	-16.8	142	0.04
15	TM	Acetone	0.155	0.116	25.2#	81	0.00
16	T	Iodomethane	0.393	0.397	-1.0	120	0.03
17	TM	Carbon Dislf	0.930	0.750	19.4	91	0.05
18	T	allylchloride	0.331	0.267	19.3	89	0.03
19	T	methylacetate	0.159	0.140	11.9	125	0.00
20	TM	Methylchlorid	0.819	0.471	42.5#	112	0.03
21	TM	t12dichlorte	0.322	0.357	-10.9	124	0.03
22	T	tbutylalcohol	0.038	0.027#	28.9#	73	-0.03
23	TM	MtBE	0.874	0.986	-12.8	119	0.00
24	T	Acrylonitrile	0.137	0.147	-7.3	109	0.00
25	TM	Hexane	0.285	0.330	-15.8	149	0.03
26	PTM	11dichlorota	0.457	0.511	-11.8	122	0.02
27	TM	Vinylacetate	0.549	0.682	-24.2#	126	0.00
28	T	chloroprene	0.338	0.378	-11.8	123	0.03
29	TM	Diisopether	0.871	0.971	-11.5	121	0.00
30	T	ETBE	0.819	0.903	-10.3	122	0.00
31	TM	22dichloropr	0.371	0.434	-17.0	128	0.02
32	TM	c12dichlorte	0.339	0.379	-11.8	124	0.02
33	TM	2Butanone	0.185	0.173	6.5	101	0.00
34	T	Ethylacetate	0.423	0.437	-3.3	157	0.00
35	T	propionitrile	0.053	0.049#	7.5	95	0.00
36	TM	Bromochlorma	0.187	0.215	-15.0	125	0.00
37	T	methacrylonitrile	0.164	0.183	-11.6	119	0.00
38	TM	tetrahydofur	0.109	0.112	-2.8	107	0.00
39	CTM	Chloroform	0.526	0.583	-10.8	122	0.00
40	TM	111trichlota	0.404	0.474	-17.3	129	0.02
41	T	Cyclohexane	0.370	0.419	-13.2	131	0.02
42	S	SURRDibrflma	0.346	0.393	-13.6	125	0.00
43	TM	Carbtetraclo	0.341	0.377	-10.6	125	0.00
44	TM	11dicloprope	0.143	0.168	-17.5	133	0.00
45	S	SURR12DCAd4	0.082	0.093#	-13.4	122	0.00
46	TM	Benzene	1.059	1.171	-10.6	121	0.00
47	TM	12dichlorota	0.355	0.382	-7.6	117	0.00
48	T	TAME	0.882	0.971	-10.1	123	0.00
49	TM	Trichloroete	0.291	0.331	-13.7	126	0.00
50	T	methylcyclohexane	0.394	0.440	-11.7	145	0.00
51	CTM	12dicloropra	0.254	0.288	-13.4	122	0.00
52	T	23Dicl1propene	0.428	0.449	-4.9	116	0.00
53	TM	Dibromometha	0.253	0.293	-15.8	129	0.00
54	T	methylmethacrylate	0.230	0.264	-14.8	123	0.00
55	TM	Bromodiclrma	0.375	0.390	-4.0	114	0.00
56	T	2CLEVE	0.210	0.226	-7.6	117	0.00
57	TM	c13dicloproe	0.425	0.439	-3.3	116	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCV1.D Vial: 3
Acq On : 8 Dec 2010 8:29 Operator: APG
Sample : 72301,CCV,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
58	TM	4Meth2pentan	0.349	0.370	-6.0	117	0.00
59	S	SURRd8Tolule	0.971	1.118	-15.1	124	0.00
60	CTM	Toluene	0.685	0.793	-15.8	127	0.00
61	TM	t13Dicloprop	0.385	0.399	-3.6	117	0.00
62	T	ethylmethacrylate	0.406	0.444	-9.4	119	0.00
63	TM	112Triclotha	0.241	0.269	-11.6	122	0.00
64	TM	Tetrachlorte	0.305	0.350	-14.8	130	-0.01
65	TM	13Diclorpropa	0.456	0.508	-11.4	121	-0.01
66	I	d5-CHLOROBENZENE**ISTD**	1.000	1.000	0.0	118	0.00
67	TM	2Hexanone	0.359	0.337	6.1	110	-0.01
68	TM	Clorodibrmta	0.443	0.402	9.3	112	0.00
69	TM	12Dibrometha	0.462	0.477	-3.2	123	0.00
70	T	1Clhexane	0.303	0.294	3.0	118	-0.01
71	PTM	Chlorobenzen	1.071	1.086	-1.4	122	0.00
72	TM	1112tetclota	0.350	0.360	-2.9	130	0.00
73	CTM	Ethylbenzene	1.636	1.699	-3.9	124	-0.01
74	TM	m p-Xylene	0.641	0.677	-5.6	125	0.00
75	TM	o-Xylene	0.632	0.646	-2.2	124	0.00
76	TM	Styrene	1.054	1.094	-3.8	124	-0.01
77	PTM	Bromoform	0.304	0.258	15.1	105	0.00
78	TM	Isopropylben	1.528	1.558	-2.0	124	0.00
79	I	d4-1,4-DICHLOROBENZENE**IST	1.000	1.000	0.0	123	0.00
80	T	cyclohexanone	0.023	0.009#	60.9#	45#	-0.02
81	S	SURR4BrFBenz	0.871	0.862	1.0	122	0.00
82	TM	Bromobenzene	0.865	0.855	1.2	131	0.00
83	PTM	1122Tetrclta	1.060	1.020	3.8	124	0.00
84	TM	123triclproa	0.790	0.762	3.5	122	0.00
85	TM	n-Propylbenz	3.281	3.164	3.6	123	0.00
86	T	14dichloro2butene	0.790	0.762	3.5	122	0.00
87	TM	2chlorotolue	1.894	1.832	3.3	123	0.00
88	TM	4chlorotolue	2.208	2.096	5.1	118	-0.01
89	TM	135Trimebenz	2.156	2.076	3.7	121	0.00
90	TM	tbutylbenzen	1.869	1.799	3.7	124	-0.01
91	TM	124Trimetben	2.174	2.082	4.2	122	0.00
92	TM	sbutylbenzen	2.713	2.616	3.6	124	0.00
93	TM	13Diclorbenz	1.438	1.370	4.7	122	0.00
94	TM	pIsopropylto	2.172	2.123	2.3	125	0.00
95	TM	14dichlorobe	1.526	1.458	4.5	123	0.00
96	TM	12dichlorobe	1.441	1.365	5.3	122	0.00
97	TM	nButylbenzen	1.969	1.884	4.3	124	-0.01
98	TM	12dibromo3cl	0.231	0.213	7.8	120	-0.01
99	T	135Trichlorobenzene	0.931	0.886	4.8	125	0.00
100	TM	124trichlobe	0.828	0.776	6.3	121	0.00
101	TM	Hexachlorobu	0.338	0.317	6.2	124	0.00
102	TM	Naphthalene	2.573	2.357	8.4	116	0.00
103	TM	123Trichlben	0.766	0.701	8.5	118	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCV1.D Vial: 3
Acq On : 8 Dec 2010 8:29 Operator: APG
Sample : 72301,CCV,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.000	1.000	0.0	108	0.00
2	TM	Dichlorodi	0.500	0.542	-8.4	131	0.03
3	PTM	Chloromethan	0.500	0.523	-4.6	108	0.03
4	CTM	Vinylchlorid	0.500	0.587	-17.4	134	0.02
5	TM	Bromomethane	0.500	0.596	-19.2	118	0.03
6	TM	Chloroethane	0.500	1.750	-250.0#	349	0.05
7	TM	Trichlorofma	0.500	0.555	-11.0	131	0.08
8	T	Dichloroflmethane	0.500	0.530	-6.0	118	0.05
9	TM	Ethylether	0.500	0.549	-9.8	115	0.02
10	T	dichlorotfluoroethan	0.500	0.539	-7.8	123	0.03
11	T	propyleneoxide	5.000	5.567	-11.3	118	0.02
12	T	Acrolein	2.500	5.287	-111.5#	233	0.02
13	CTM	11dichlorthe	0.500	0.554	-10.8	128	0.05
14	T	Trichlorotfluoroeth	1.000	1.168	-16.8	142	0.04
15	TM	Acetone	5.000	4.134	17.3	81	0.00
16	T	Iodomethane	1.000	1.029	-2.9	120	0.03
17	TM	Carbon Dislf	1.000	0.806	19.4	91	0.05
18	T	allylchloride	1.000	0.808	19.2	89	0.03
19	T	methylacetate	0.500	0.591	-18.2	125	0.00
20	TM	Methylchlorid	0.500	0.507	-1.4	112	0.03
21	TM	t12dichlorte	0.500	0.554	-10.8	124	0.03
22	T	tbutylalcohol	25.000	17.476	30.1#	73	-0.03
23	TM	MtBE	0.500	0.564	-12.8	119	0.00
24	T	Acrylonitrile	2.500	2.690	-7.6	109	0.00
25	TM	Hexane	1.000	1.159	-15.9	149	0.03
26	PTM	11dichlorota	0.500	0.559	-11.8	122	0.02
27	TM	Vinylacetate	5.000	5.783	-15.7	126	0.00
28	T	chloroprene	1.000	1.120	-12.0	123	0.03
29	TM	Diisopether	0.500	0.557	-11.4	121	0.00
30	T	ETBE	0.500	0.551	-10.2	122	0.00
31	TM	22dichloropr	0.500	0.585	-17.0	128	0.02
32	TM	c12dichlorte	0.500	0.558	-11.6	124	0.02
33	TM	2Butanone	5.000	4.671	6.6	101	0.00
34	T	Ethylacetate	0.500	0.690	-38.0#	157	0.00
35	T	propionitrile	5.000	4.640	7.2	95	0.00
36	TM	Bromochlorma	0.500	0.577	-15.4	125	0.00
37	T	methacrylonitrile	1.000	1.116	-11.6	119	0.00
38	TM	tetrahydofur	5.000	5.133	-2.7	107	0.00
39	CTM	Chloroform	0.500	0.554	-10.8	122	0.00
40	TM	111trichlota	0.500	0.587	-17.4	129	0.02
41	T	Cyclohexane	0.500	0.567	-13.4	131	0.02
42	S	SURRDibrflma	0.950	1.080	-13.7	125	0.00
43	TM	Carbtetraclo	0.500	0.553	-10.6	125	0.00
44	TM	11dicloprope	0.500	0.586	-17.2	133	0.00
45	S	SURR12DCAd4	0.950	1.077	-13.4	122	0.00
46	TM	Benzene	0.500	0.553	-10.6	121	0.00
47	TM	12dichlorota	0.500	0.538	-7.6	117	0.00
48	T	TAME	0.500	0.550	-10.0	123	0.00
49	TM	Trichloroete	0.500	0.568	-13.6	126	0.00
50	T	methylcyclohexane	0.500	0.558	-11.6	145	0.00
51	CTM	12dicloropra	0.500	0.567	-13.4	122	0.00
52	T	23Dicl1propene	0.500	0.524	-4.8	116	0.00
53	TM	Dibromometha	0.500	0.579	-15.8	129	0.00
54	T	methylmethacrylate	0.500	0.575	-15.0	123	0.00
55	TM	Bromodiclrma	0.500	0.520	-4.0	114	0.00
56	T	2CLEVE	2.500	2.682	-7.3	117	0.00
57	TM	c13dicloproe	0.500	0.517	-3.4	116	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCV1.D Vial: 3
Acq On : 8 Dec 2010 8:29 Operator: APG
Sample : 72301,CCV,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
58	TM	4Meth2pentan	5.000	5.298	-6.0	117	0.00
59	S	SURRd8Tolule	0.950	1.094	-15.2	124	0.00
60	CTM	Toluene	0.500	0.579	-15.8	127	0.00
61	TM	t13Dicloprop	0.500	0.519	-3.8	117	0.00
62	T	ethylmethacrylate	1.000	1.093	-9.3	119	0.00
63	TM	112Triclotha	0.500	0.558	-11.6	122	0.00
64	TM	Tetrachlorte	0.500	0.574	-14.8	130	-0.01
65	TM	13Diclorpropa	0.500	0.557	-11.4	121	-0.01
66	I	d5-CHLOROBENZENE**ISTD**	1.000	1.000	0.0	118	0.00
67	TM	2Hexanone	5.000	4.687	6.3	110	-0.01
68	TM	Clorodibrmta	0.500	0.454	9.2	112	0.00
69	TM	12Dibrometha	0.500	0.517	-3.4	123	0.00
70	T	1Clhexane	0.500	0.517	-3.4	118	-0.01
71	PTM	Chlorobenzen	0.500	0.507	-1.4	122	0.00
72	TM	1112tetclota	0.500	0.515	-3.0	130	0.00
73	CTM	Ethylbenzene	0.500	0.519	-3.8	124	-0.01
74	TM	m p-Xylene	1.000	1.057	-5.7	125	0.00
75	TM	o-Xylene	0.500	0.512	-2.4	124	0.00
76	TM	Styrene	0.500	0.519	-3.8	124	-0.01
77	PTM	Bromoform	0.500	0.424	15.2	105	0.00
78	TM	Isopropylben	0.500	0.510	-2.0	124	0.00
79	I	d4-1,4-DICHLOROBENZENE**IST	1.000	1.000	0.0	123	0.00
80	T	cyclohexanone	10.000	3.910	60.9#	45	-0.02
81	S	SURR4BrFBenz	0.950	0.940	1.1	122	0.00
82	TM	Bromobenzene	0.500	0.494	1.2	131	0.00
83	PTM	1122Tetrclta	0.500	0.481	3.8	124	0.00
84	TM	123triclproa	0.500	0.518	-3.6	122	0.00
85	TM	n-Propylbenz	0.500	0.482	3.6	123	0.00
86	T	14dichloro2butene	0.500	0.518	-3.6	122	0.00
87	TM	2chlorotolue	0.500	0.483	3.4	123	0.00
88	TM	4chlorotolue	0.500	0.475	5.0	118	-0.01
89	TM	135Trimebenz	0.500	0.481	3.8	121	0.00
90	TM	tbutylbenzen	0.500	0.481	3.8	124	-0.01
91	TM	124Trimetben	0.500	0.479	4.2	122	0.00
92	TM	sbutylbenzen	0.500	0.482	3.6	124	0.00
93	TM	13Diclorbenz	0.500	0.476	4.8	122	0.00
94	TM	pIsopropylto	0.500	0.489	2.2	125	0.00
95	TM	14dichlorobe	0.500	0.478	4.4	123	0.00
96	TM	12dichlorobe	0.500	0.474	5.2	122	0.00
97	TM	nButylbenzen	0.500	0.478	4.4	124	-0.01
98	TM	12dibromo3cl	0.500	0.461	7.8	120	-0.01
99	T	135Trichlorobenzene	0.500	0.476	4.8	125	0.00
100	TM	124trichlobe	0.500	0.469	6.2	121	0.00
101	TM	Hexachlorobu	0.500	0.468	6.4	124	0.00
102	TM	Naphthalene	0.500	0.458	8.4	116	0.00
103	TM	123Trichlben	0.500	0.457	8.6	118	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCV1.D Vial: 3
Acq On : 8 Dec 2010 8:29 Operator: APG
Sample : 72301,CCV,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 9:16 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:15:58 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.93	96	1096584	1.00	mg/kg	0.00 NA%
66) d5-CHLOROBENZENE**ISTD**	16.93	117	893337	1.00	mg/kg	0.00 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.18	152	508953	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
42) SURRDibrflma	8.64	113	409571	1.080	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 121		Recovery = 114 %			
45) SURR12DCAd4	9.29	102	96842	1.077	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 119		Recovery = 113 %			
59) SURRd8Tolule	13.41	98	1165093	1.094	mg/kg	0.00
Spiked Amount 0.950	Range 84 - 126		Recovery = 115 %			
81) SURR4BrFBenz	20.05	95	416820	0.940	mg/kg	0.00
Spiked Amount 0.950	Range 88 - 128		Recovery = 99 %			
Target Compounds						Qvalue
2) Dichlorodi	1.92	85	191859	0.5422	mg/kg	98
3) Chloromethan	2.19	50	181591	0.5228	mg/kg	96
4) Vinylchlorid	2.34	62	241279	0.5874	mg/kg	99
5) Bromomethane	2.85	94	187415	0.5956	mg/kg	100
6) Chloroethane	3.01	64	154760	1.7497	mg/kg	95
7) Trichlorofma	3.43	101	281255	0.5549	mg/kg	100
8) Dichloroflmethane	3.41	67	377192	0.5303	mg/kg	98
9) Ethylether	3.98	59	149977	0.5490	mg/kg	96
10) dichlorotfluoroethan	4.06	67	219326	0.5387	mg/kg	97
11) propyleneoxide	4.10	58	516399	5.5667	mg/kg	95
12) Acrolein	4.24	56	249691	5.2872	mg/kg	99
13) 11dichlorthe	4.33	96	163853	0.5542	mg/kg	96
14) Trichlorotfluoroeth	4.33	101	405133	1.1680	mg/kg	98
15) Acetone	4.53	43	637693	4.1342	mg/kg	99
16) Iodomethane	4.59	142	435849	1.0291	mg/kg	99
17) Carbon Dislf	4.67	76	822333	0.8061	mg/kg	99
18) allylchloride	5.00	41	292988	0.8084	mg/kg	97
19) methylacetate	5.11	74	76900	0.5914	mg/kg	100
20) Methylchlorid	5.27	84	258117	0.5072	mg/kg	97
21) t12dichlorte	5.72	96	195709	0.5536	mg/kg	96
22) tbutylalcohol	5.63	59	733104	17.4762	mg/kg	81
23) MtBE	5.72	73	540436	0.5642	mg/kg#	55
24) Acrylonitrile	5.78	53	403714	2.6903	mg/kg	99
25) Hexane	6.16	57	362390	1.1592	mg/kg	99
26) 11dichlorota	6.53	63	280173	0.5592	mg/kg	98
27) Vinylacetate	6.66	43	3738883	5.7830	mg/kg	99
28) chloroprene	6.66	53	414997	1.1198	mg/kg	96
29) Diisopether	6.63	45	532436	0.5572	mg/kg#	94
30) ETBE	7.32	59	494868	0.5509	mg/kg	100
31) 22dichloropr	7.59	77	237813	0.5851	mg/kg	98
32) c12dichlorte	7.66	96	207571	0.5582	mg/kg	96
33) 2Butanone	7.74	43	948005	4.6711	mg/kg	99
34) Ethylacetate	7.85	43	239845	0.6900	mg/kg	98
35) propionitrile	7.90	54	271058	4.6402	mg/kg	99
36) Bromochlorma	8.13	128	118107	0.5772	mg/kg	98
37) methacrylonitrile	8.15	67	200472	1.1155	mg/kg#	88
38) tetrahydofur	8.20	42	614221	5.1335	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCV1.D Vial: 3
Acq On : 8 Dec 2010 8:29 Operator: APG
Sample : 72301,CCV,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 9:16 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:15:58 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	8.33	83	319508	0.5536 mg/kg	100
40)	111trichlota	8.56	97	259709	0.5867 mg/kg	97
41)	Cyclohexane	8.60	56	229859	0.5669 mg/kg	95
43)	Carbtetraclo	8.87	119	206942	0.5531 mg/kg	98
44)	11dicloprope	8.90	110	91964	0.5865 mg/kg	93
46)	Benzene	9.32	78	641867	0.5525 mg/kg	99
47)	12dichlorota	9.44	62	209391	0.5384 mg/kg	98
48)	TAME	9.57	73	532480	0.5504 mg/kg	100
49)	Trichloroete	10.70	95	181375	0.5681 mg/kg	98
50)	methylcyclohexane	10.99	83	241097	0.5576 mg/kg	98
51)	12dicloropra	11.20	63	157878	0.5671 mg/kg	99
52)	23Dicl1propene	11.35	75	246044	0.5244 mg/kg	99
53)	Dibromometha	11.50	93	160918	0.5789 mg/kg	98
54)	methylmethacrylate	11.55	69	145017	0.5753 mg/kg	98
55)	Bromodiclrma	11.89	83	213815	0.5201 mg/kg	95
56)	2CLEVE	12.60	63	618231	2.6819 mg/kg	98
57)	c13dicloproe	12.87	75	240544	0.5165 mg/kg	100
58)	4Meth2pentan	13.26	43	2026779	5.2978 mg/kg	99
60)	Toluene	13.55	92	435040	0.5794 mg/kg	95
61)	t13Dicloprop	14.22	75	218668	0.5186 mg/kg	97
62)	ethylmethacrylate	14.45	69	486510	1.0929 mg/kg	99
63)	112Triclotha	14.66	83	147450	0.5584 mg/kg	99
64)	Tetrachlorte	14.82	166	192073	0.5740 mg/kg	98
65)	13Diclorpropa	15.02	76	278610	0.5566 mg/kg	98
67)	2Hexanone	15.28	43	1503218	4.6873 mg/kg	98
68)	Clorodibrmta	15.58	129	179588	0.4539 mg/kg	99
69)	12Dibrometha	15.79	107	213107	0.5167 mg/kg	95
70)	1Clhexane	16.99	55	131404	0.5169 mg/kg	98
71)	Chlorobenzen	17.00	112	485158	0.5070 mg/kg	99
72)	1112tetclota	17.25	131	160969	0.5154 mg/kg	99
73)	Ethylbenzene	17.28	91	759103	0.5194 mg/kg	100
74)	m p-Xylene	17.60	106	604896	1.0570 mg/kg	99
75)	o-Xylene	18.62	106	288726	0.5117 mg/kg	99
76)	Styrene	18.69	104	488688	0.5192 mg/kg	97
77)	Bromoform	19.21	173	115249	0.4242 mg/kg	97
78)	Isopropylben	19.61	105	696058	0.5100 mg/kg	100
80)	cyclohexanone	19.91	55	46533	3.9104 mg/kg	98
82)	Bromobenzene	20.38	156	217523	0.4939 mg/kg	94
83)	1122Tetrclta	20.63	83	259540	0.4812 mg/kg	99
84)	123triclproa	20.66	75	193965	0.5185 mg/kg	99
85)	n-Propylbenz	20.73	91	805241	0.4822 mg/kg	100
86)	14dichloro2butene	20.66	75	193965	0.5185 mg/kg#	96
87)	2chlorotolue	20.92	91	466143	0.4835 mg/kg	99
88)	4chlorotolue	21.23	91	533290	0.4746 mg/kg	97
89)	135Trimebenz	21.23	105	528242	0.4814 mg/kg	95
90)	tbutylbenzen	22.09	119	457793	0.4812 mg/kg	97
91)	124Trimetben	22.24	105	529784	0.4789 mg/kg	99
92)	sbutylbenzen	22.70	105	665698	0.4820 mg/kg	100
93)	13Diclorbenz	22.98	146	348598	0.4765 mg/kg	100
94)	pIsopropylto	23.14	119	540223	0.4888 mg/kg	99
95)	14dichlorobe	23.25	146	371135	0.4778 mg/kg	98
96)	12dichlorobe	24.26	146	347392	0.4736 mg/kg	99
97)	nButylbenzen	24.28	91	479462	0.4785 mg/kg	100
98)	12dibromo3cl	26.53	157	54179	0.4613 mg/kg	98
99)	135Trichlorobenzene	27.04	180	225462	0.4757 mg/kg	99
100)	124trichlobe	28.70	180	197528	0.4686 mg/kg	99
101)	Hexachlorobu	29.09	225	80566	0.4677 mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCV1.D Vial: 3
Acq On : 8 Dec 2010 8:29 Operator: APG
Sample : 72301,CCV,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 9:16 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:15:58 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

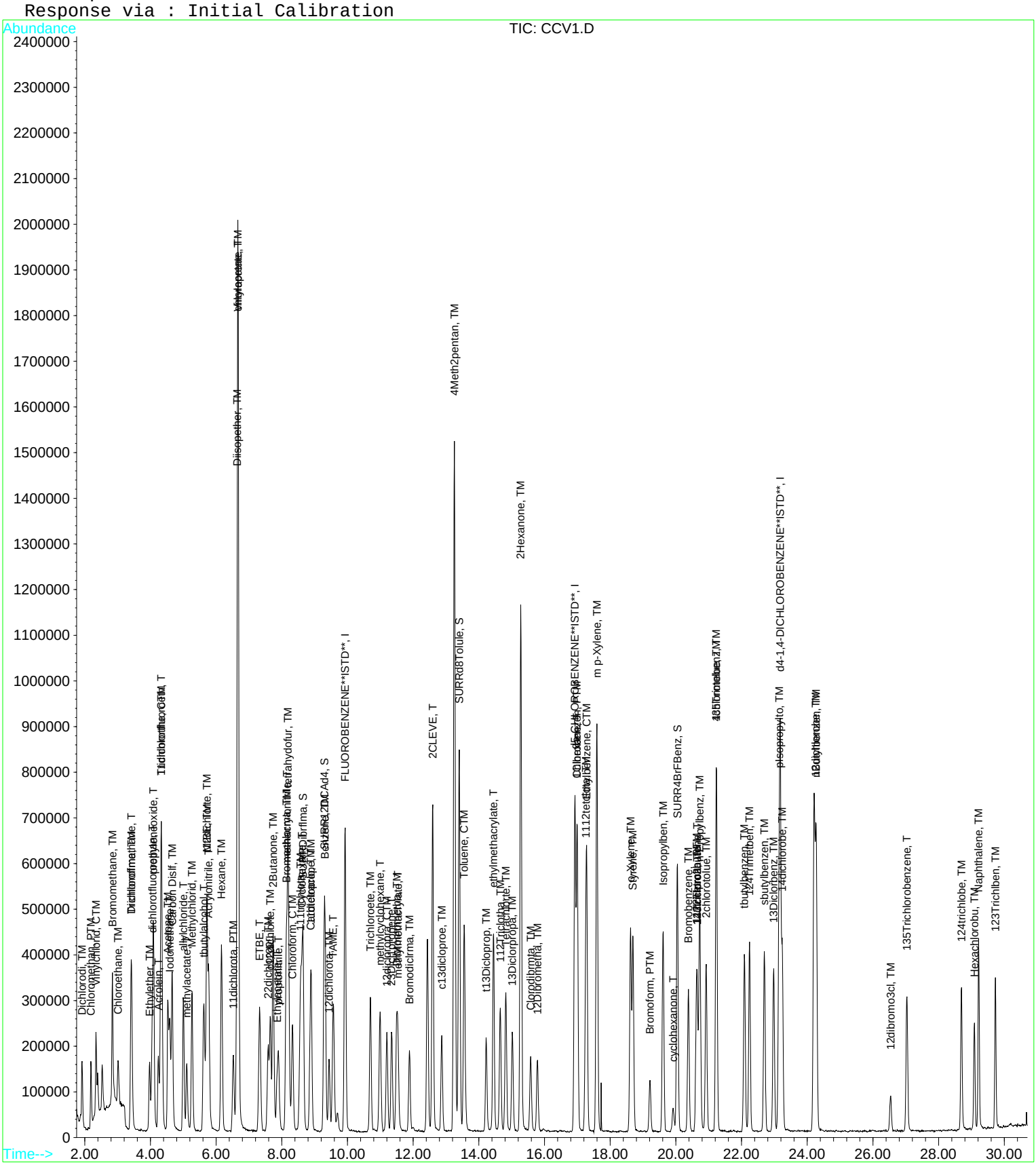
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Naphthalene	29.22	128	599709	0.4580	mg/kg	99
103) 123Trichlben	29.73	180	178348	0.4574	mg/kg	98

(#) = qualifier out of range (m) = manual integration
CCV1.D PS120210.M Thu Dec 09 08:13:43 2010

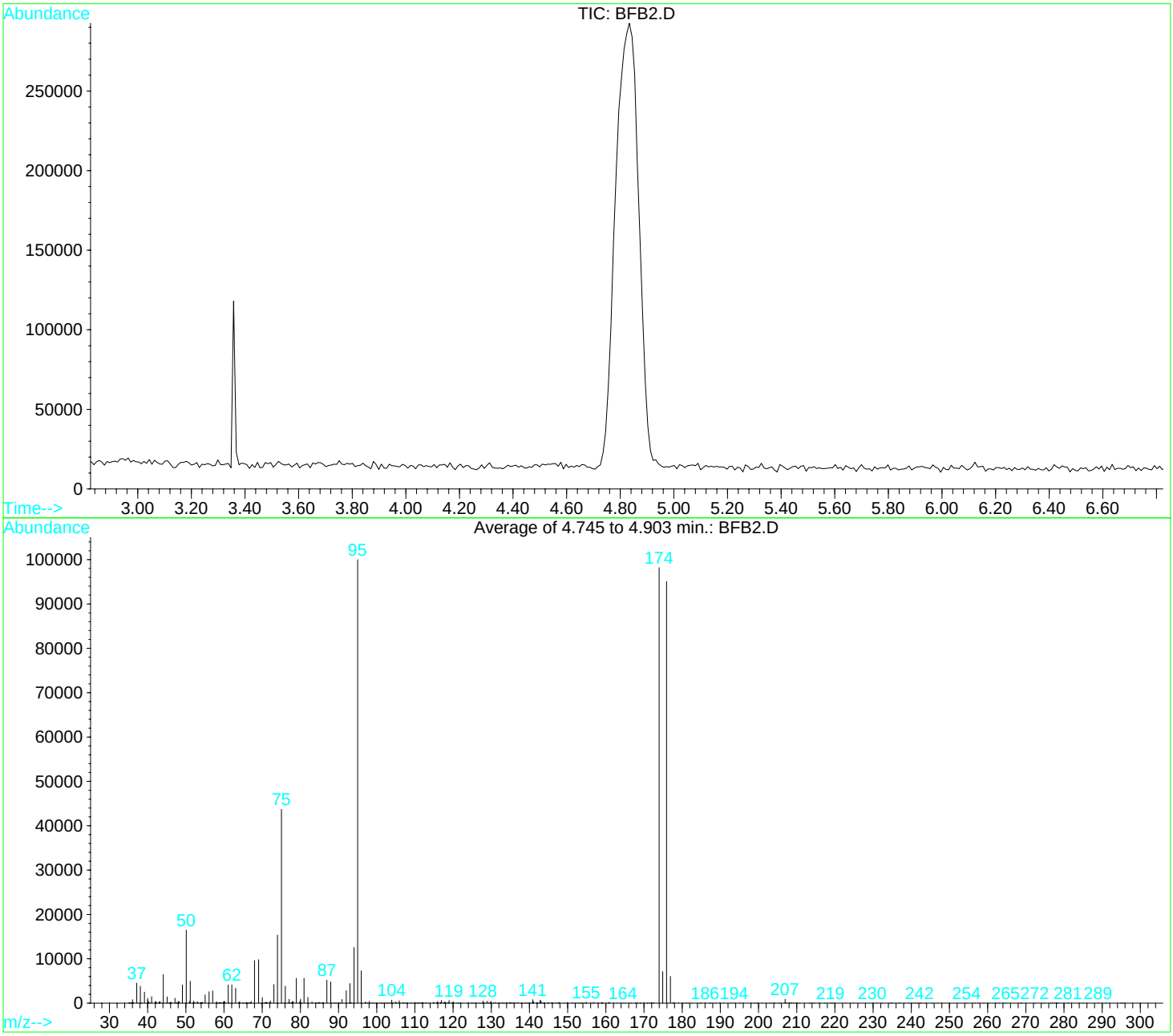
Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCV1.D Vial: 3
Acq On : 8 Dec 2010 8:29 Operator: APG
Sample : 72301,CCV,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 9:16 2010 Quant Results File: PS120210.RES

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration



Data File : C:\INSTARCH\VMS1\DATA\DEC0810\BFB2.D Vial: 23
Acq On : 9 Dec 2010 7:34 Operator: APG
Sample : 72301,BFB,1 Inst : VMS1
Misc : 50 ng Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260



Spectrum Information: Average of 4.745 to 4.903 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.5	16460	PASS
75	95	30	60	43.7	43685	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	7.3	7290	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	98.2	98194	PASS
175	174	5	9	7.2	7114	PASS
176	174	95	101	96.8	95094	PASS
177	176	5	9	6.4	6053	PASS

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCV2.D Vial: 25
Acq On : 9 Dec 2010 8:30 Operator: APG
Sample : 72301,CCV,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 9 9:27 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Thu Dec 09 09:27:15 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

NOT USED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.94	96	1105216	1.00	mg/kg	0.02 NA%
66) d5-CHLOROBENZENE**ISTD**	16.94	117	950212	1.00	mg/kg	0.00 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.19	152	511125	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
42) SURRDibrflma	8.66	113	404669	1.059	mg/kg	0.02
Spiked Amount 0.950	Range 77 - 121		Recovery = 111 %			
45) SURR12DCAd4	9.29	102	94746	1.045	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 119		Recovery = 110 %			
59) SURRd8Tolule	13.42	98	1150184	1.072	mg/kg	0.02
Spiked Amount 0.950	Range 84 - 126		Recovery = 113 %			
81) SURR4BrFBenz	20.06	95	411622	0.924	mg/kg	0.00
Spiked Amount 0.950	Range 88 - 128		Recovery = 97 %			
Target Compounds						Qvalue
2) Dichlorodi	1.92	85	172203	0.4828	mg/kg	99
3) Chloromethan	2.19	50	181106	0.5170	mg/kg	99
4) Vinylchlorid	2.34	62	235083	0.5679	mg/kg	100
5) Bromomethane	2.85	94	211755	0.6819	mg/kg	96
6) Chloroethane	3.02	64	137813	1.5401	mg/kg	96
7) Trichlorofma	3.44	101	246496	0.4739	mg/kg	100
8) Dichloroflmethane	3.42	67	323155	0.4507	mg/kg	98
9) Ethylether	3.98	59	134532	0.4886	mg/kg	98
10) dichlorotfluoroethan	4.07	67	196110	0.4779	mg/kg	99
11) propyleneoxide	4.11	58	433349	4.6349	mg/kg	94
12) Acrolein	4.25	56	141017	2.9627	mg/kg	99
13) 11dichlorthe	4.34	96	143689	0.4822	mg/kg	96
14) Trichlorotfluoroeth	4.34	101	353624	1.0116	mg/kg	98
15) Acetone	4.54	43	580614	3.6967	mg/kg	97
16) Iodomethane	4.60	142	351627	0.8696	mg/kg	98
17) Carbon Dislf	4.67	76	1011706	0.9840	mg/kg	100
18) allylchloride	5.01	41	349132	0.9557	mg/kg	98
19) methylacetate	5.12	74	77163	0.5888	mg/kg	96
20) Methylchlorid	5.28	84	236555	0.4329	mg/kg	98
21) t12dichlorte	5.73	96	171891	0.4824	mg/kg	97
22) tbutylalcohol	5.64	59	532063	12.5846	mg/kg	83
23) MtBE	5.73	73	461587	0.4781	mg/kg	80
24) Acrylonitrile	5.79	53	351730	2.3256	mg/kg	98
25) Hexane	6.18	57	300667	0.9543	mg/kg	99
26) 11dichlorota	6.54	63	239946	0.4751	mg/kg	100
27) Vinylacetate	6.67	43	2982204	4.6287	mg/kg	99
28) chloroprene	6.66	53	363373	0.9729	mg/kg	96
29) Diisopether	6.64	45	462049	0.4798	mg/kg#	90
30) ETBE	7.33	59	429620	0.4746	mg/kg	99
31) 22dichloropr	7.60	77	202923	0.4954	mg/kg	96
32) c12dichlorte	7.67	96	182618	0.4872	mg/kg	97
33) 2Butanone	7.75	43	810254	3.9612	mg/kg	98
34) Ethylacetate	7.87	43	208272	0.5890	mg/kg	98
35) propionitrile	7.91	54	220244	3.7409	mg/kg	99
36) Bromochlorma	8.14	128	104480	0.5066	mg/kg	99
37) methacrylonitrile	8.17	67	169087	0.9335	mg/kg#	89
38) tetrahydofur	8.21	42	511029	4.2377	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCV2.D Vial: 25
Acq On : 9 Dec 2010 8:30 Operator: APG
Sample : 72301,CCV,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 9 9:27 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Thu Dec 09 09:27:15 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	8.34	83	281799	0.4845 mg/kg	100
40)	111trichlota	8.57	97	228888	0.5130 mg/kg	98
41)	Cyclohexane	8.61	56	203271	0.4974 mg/kg	95
43)	Carbtetraclo	8.88	119	190981	0.5065 mg/kg	99
44)	11dicloprope	8.92	110	77911	0.4930 mg/kg	95
46)	Benzene	9.33	78	568272	0.4853 mg/kg	97
47)	12dichlorota	9.45	62	184044	0.4695 mg/kg	97
48)	TAME	9.58	73	464874	0.4768 mg/kg	99
49)	Trichloroete	10.71	95	155118	0.4820 mg/kg	97
50)	methylcyclohexane	10.99	83	216815	0.4975 mg/kg	97
51)	12dicloropra	11.21	63	133173	0.4746 mg/kg	98
52)	23Dicl1propene	11.36	75	229402	0.4851 mg/kg	97
53)	Dibromometha	11.52	93	138444	0.4942 mg/kg	98
54)	methylmethacrylate	11.56	69	126347	0.4973 mg/kg	99
55)	Bromodiclrma	11.90	83	201185	0.4855 mg/kg	97
56)	2CLEVE	12.61	63	554424	2.3863 mg/kg	98
57)	c13dicloproe	12.88	75	224418	0.4781 mg/kg	100
58)	4Meth2pentan	13.27	43	1735708	4.5015 mg/kg	99
60)	Toluene	13.57	92	369700	0.4885 mg/kg	99
61)	t13Dicloprop	14.24	75	202537	0.4766 mg/kg	99
62)	ethylmethacrylate	14.46	69	433211	0.9656 mg/kg	99
63)	112Triclotha	14.67	83	126702	0.4761 mg/kg	98
64)	Tetrachlorte	14.83	166	161754	0.4796 mg/kg	97
65)	13Diclorpropa	15.04	76	234555	0.4649 mg/kg	99
67)	2Hexanone	15.29	43	1303384	3.8209 mg/kg	99
68)	Clorodibrmta	15.59	129	181675	0.4317 mg/kg	99
69)	12Dibrometha	15.80	107	186713	0.4256 mg/kg	97
70)	1Clhexane	17.01	55	115871	0.4211 mg/kg	99
71)	Chlorobenzen	17.01	112	440228	0.4325 mg/kg	99
72)	1112tetclota	17.27	131	138366	0.4165 mg/kg	99
73)	Ethylbenzene	17.29	91	662909	0.4264 mg/kg	100
74)	m p-Xylene	17.61	106	531286	0.8728 mg/kg	98
75)	o-Xylene	18.63	106	253079	0.4217 mg/kg	99
76)	Styrene	18.70	104	430906	0.4304 mg/kg	97
77)	Bromoform	19.22	173	125263	0.4335 mg/kg	97
78)	Isopropylben	19.62	105	620432	0.4274 mg/kg	100
80)	cyclohexanone	19.93	55	30389	2.5429 mg/kg	98
82)	Bromobenzene	20.39	156	188833	0.4270 mg/kg	98
83)	1122Tetrclta	20.64	83	223704	0.4130 mg/kg	96
84)	123triclproa	20.67	75	166743	0.4431 mg/kg	100
85)	n-Propylbenz	20.74	91	710926	0.4239 mg/kg	99
86)	14dichloro2butene	20.67	75	166743	0.4431 mg/kg#	96
87)	2chlorotolue	20.93	91	417686	0.4314 mg/kg	100
88)	4chlorotolue	21.24	91	481124	0.4264 mg/kg	99
89)	135Trimebenz	21.25	105	473152	0.4294 mg/kg	98
90)	tbutylbenzen	22.10	119	407751	0.4268 mg/kg	98
91)	124Trimetben	22.25	105	470393	0.4234 mg/kg	99
92)	sbutylbenzen	22.71	105	587754	0.4238 mg/kg	100
93)	13Diclorbenz	22.99	146	320707	0.4365 mg/kg	99
94)	pIsopropylto	23.15	119	477887	0.4305 mg/kg	99
95)	14dichlorobe	23.26	146	335692	0.4303 mg/kg	99
96)	12dichlorobe	24.27	146	316214	0.4292 mg/kg	99
97)	nButylbenzen	24.29	91	424413	0.4217 mg/kg	100
98)	12dibromo3cl	26.55	157	47199	0.4002 mg/kg	99
99)	135Trichlorobenzene	27.05	180	202639	0.4257 mg/kg	99
100)	124trichlobe	28.71	180	173916	0.4108 mg/kg	99
101)	Hexachlorobu	29.10	225	72469	0.4189 mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCV2.D Vial: 25
Acq On : 9 Dec 2010 8:30 Operator: APG
Sample : 72301,CCV,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 9 9:27 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Thu Dec 09 09:27:15 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

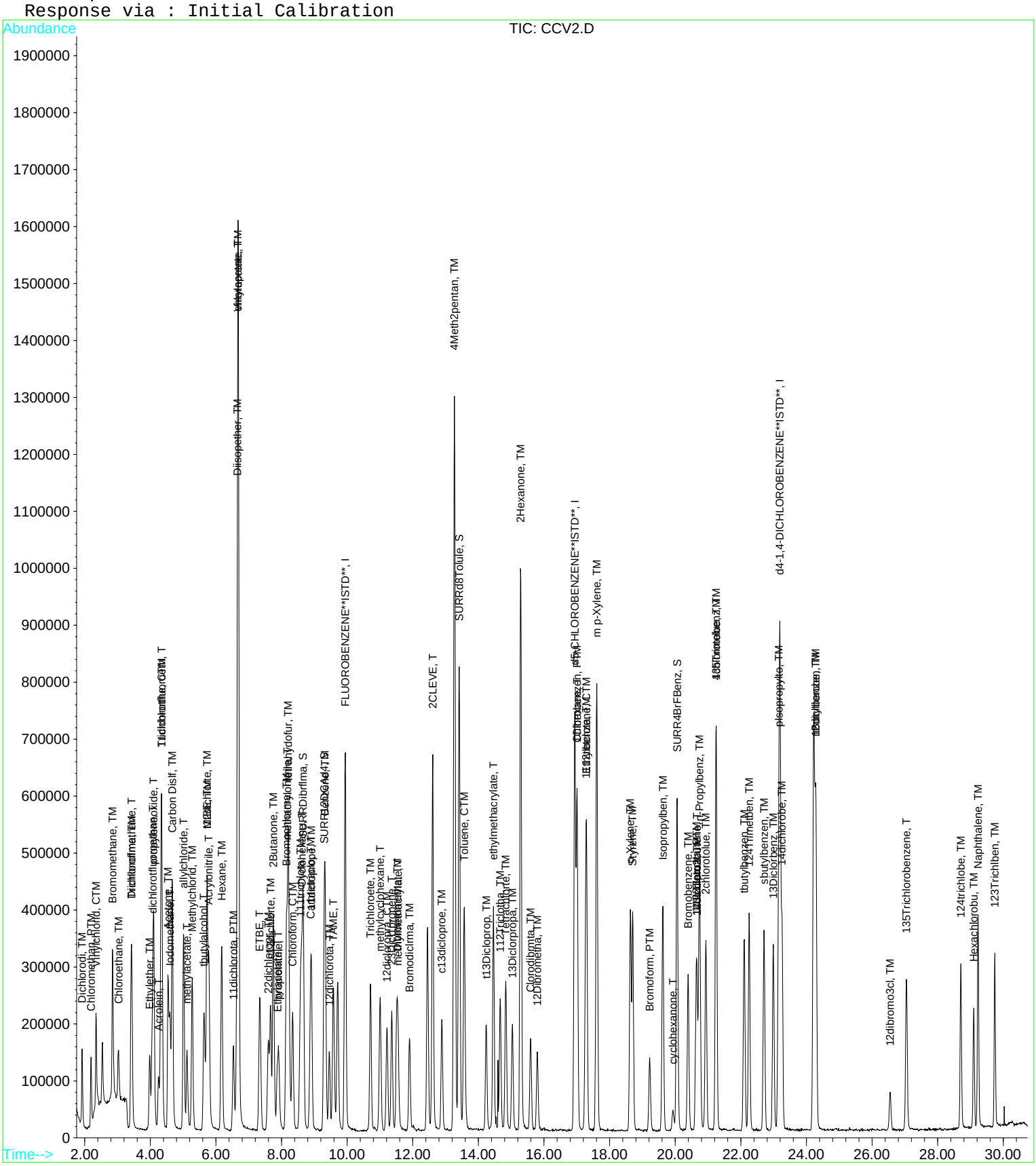
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Naphthalene	29.23	128	539036	0.4099	mg/kg	99
103) 123Trichlben	29.74	180	161524	0.4125	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCV2.D Vial: 25
Acq On : 9 Dec 2010 8:30 Operator: APG
Sample : 72301,CCV,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 9 9:27 2010 Quant Results File: PS120210.RES

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 10 10:20:25 2010
Response via : Initial Calibration



Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCB1.D Vial: 26
Acq On : 9 Dec 2010 9:08 Operator: APG
Sample : 72301,CCB,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 9 9:39 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.95	96	1105618	1.00	mg/kg	0.02 NA%
66) d5-CHLOROBENZENE**ISTD**	16.94	117	907664	1.00	mg/kg	0.01 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.19	152	473701	1.00	mg/kg	0.01 NA%
System Monitoring Compounds						
42) SURRDibrflma	8.67	113	379333	0.992	mg/kg	0.02
Spiked Amount 0.950	Range 77 - 121		Recovery = 104 %			
45) SURR12DCAd4	9.30	102	85829	0.947	mg/kg	0.01
Spiked Amount 0.950	Range 77 - 119		Recovery = 100 %			
59) SURRd8Tolule	13.42	98	1087167	1.013	mg/kg	0.02
Spiked Amount 0.950	Range 84 - 126		Recovery = 107 %			
81) SURR4BrFBenz	20.05	95	402025	0.974	mg/kg	0.00
Spiked Amount 0.950	Range 88 - 128		Recovery = 103 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.20	50	1633	Below	Cal #	40
4) Vinylchlorid	2.35	62	1229	N.D.		
5) Bromomethane	2.86	94	10728	Below	Cal #	43
6) Chloroethane	3.04	64	2422	Below	Cal #	40
7) Trichlorofma	0.00	101	0	N.D.		
8) Dichloroflmethane	0.00	67	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.57	43	11674	Below	Cal	91
16) Iodomethane	4.62	142	3942	0.2370	mg/kg#	90
17) Carbon Dislf	4.66	76	3215	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	5.28	84	7854	Below	Cal	96
21) t12dichlorte	0.00	96	0	N.D.		
22) tbutylalcohol	5.66	59	10652	N.D.		
23) MtBE	0.00	73	0	N.D.		
24) Acrylonitrile	0.00	53	0	N.D.		
25) Hexane	6.17	57	2286	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	7.78	43	3556	N.D.		
34) Ethylacetate	7.88	43	1641	Below	Cal #	64
35) propionitrile	0.00	54	0	N.D.		
36) Bromochlorma	0.00	128	0	N.D.		
37) methacrylonitrile	0.00	67	0	N.D.		
38) tetrahydofur	8.25	42	4747	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCB1.D Vial: 26
Acq On : 9 Dec 2010 9:08 Operator: APG
Sample : 72301,CCB,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 9 9:39 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
41)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	Trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23Dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	Bromodiclrma	0.00	83	0	N.D.	
56)	2CLEVE	0.00	63	0	N.D.	
57)	c13dicloproe	0.00	75	0	N.D.	
58)	4Meth2pentan	13.30	43	1464	N.D.	
60)	Toluene	0.00	92	0	N.D.	
61)	t13Dicloprop	0.00	75	0	N.D.	
62)	ethylmethacrylate	0.00	69	0	N.D.	
63)	112Triclotha	0.00	83	0	N.D.	
64)	Tetrachlorte	0.00	166	0	N.D.	
65)	13Diclorpropa	0.00	76	0	N.D.	
67)	2Hexanone	15.30	43	3425	N.D.	
68)	Clorodibrmta	0.00	129	0	N.D.	
69)	12Dibrometha	0.00	107	0	N.D.	
70)	1Clhexane	16.93	55	11112	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1112tetclota	0.00	131	0	N.D.	
73)	Ethylbenzene	17.29	91	1306	N.D.	
74)	m p-Xylene	17.63	106	1000	N.D.	
75)	o-Xylene	0.00	106	0	N.D.	
76)	Styrene	0.00	104	0	N.D.	
77)	Bromoform	0.00	173	0	N.D.	
78)	Isopropylben	19.62	105	1419	N.D.	
80)	cyclohexanone	19.91	55	3880	0.3503 mg/kg#	35
82)	Bromobenzene	0.00	156	0	N.D.	
83)	1122Tetrclta	0.00	83	0	N.D.	
84)	123triclproa	0.00	75	0	N.D.	
85)	n-Propylbenz	20.72	91	1789	N.D.	
86)	14dichloro2butene	0.00	75	0	N.D.	
87)	2chlorotolue	0.00	91	0	N.D.	
88)	4chlorotolue	21.25	91	1509	N.D.	
89)	135Trimebenz	21.23	105	1154	N.D.	
90)	tbutylbenzen	22.11	119	1278	N.D.	
91)	124Trimetben	0.00	105	0	N.D.	
92)	sbutylbenzen	22.71	105	1986	N.D.	
93)	13Diclorbenz	0.00	146	0	N.D.	
94)	pIsopropylto	23.16	119	2390	N.D.	
95)	14dichlorobe	0.00	146	0	N.D.	
96)	12dichlorobe	24.27	146	1073	N.D.	
97)	nButylbenzen	24.28	91	2087	N.D.	
98)	12dibromo3cl	0.00	157	0	N.D.	
99)	135Trichlorobenzene	27.07	180	1273	N.D.	
100)	124trichlobe	28.71	180	1221	N.D.	
101)	Hexachlorobu	0.00	225	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCB1.D Vial: 26
Acq On : 9 Dec 2010 9:08 Operator: APG
Sample : 72301,CCB,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 9 9:39 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

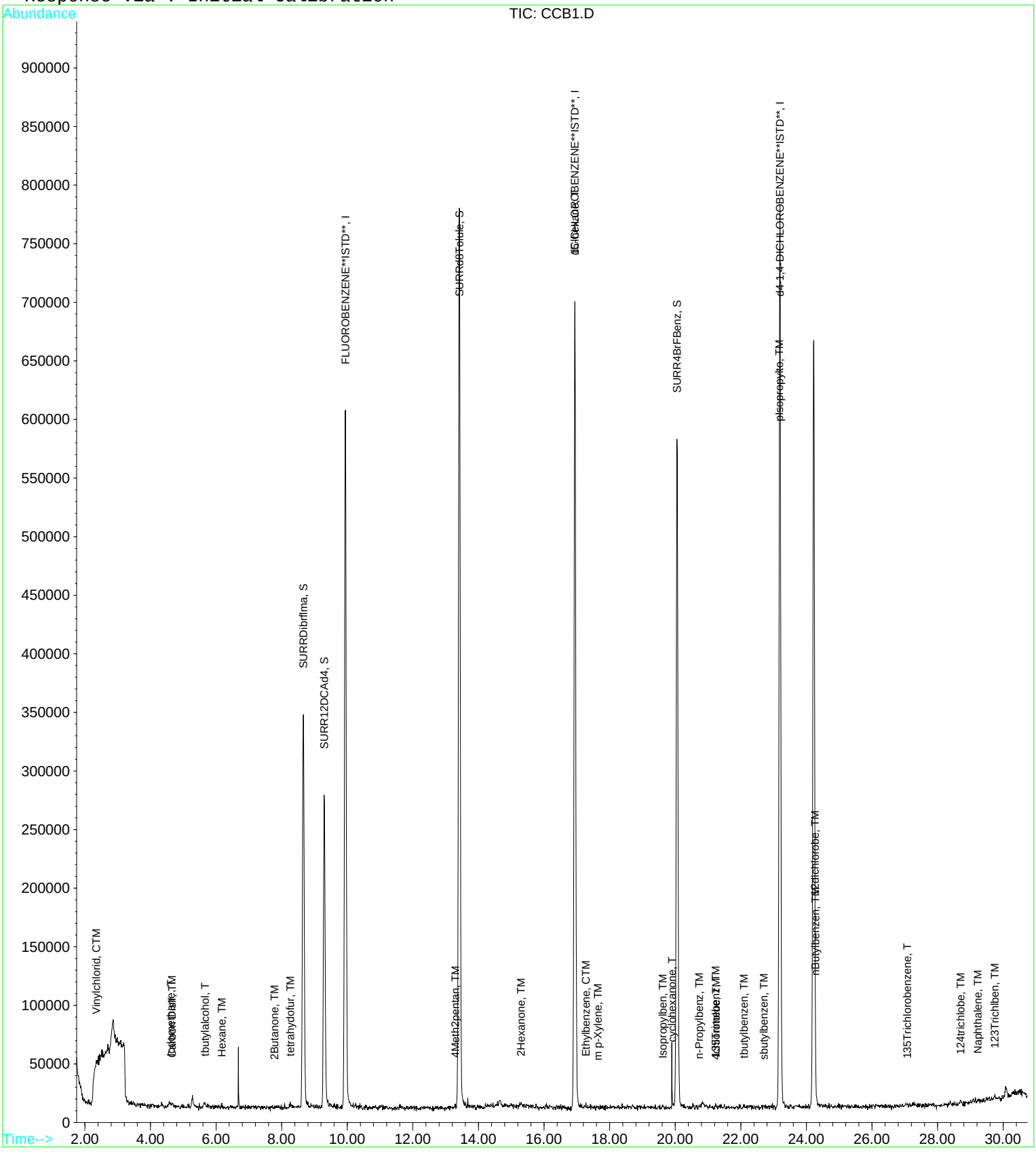
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Naphthalene	29.22	128	3873	N.D.	
103) 123Trichlben	29.75	180	1467	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCB1.D Vial: 26
Acq On : 9 Dec 2010 9:08 Operator: APG
Sample : 72301,CCB,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 9 9:39 2010 Quant Results File: PS120210.RES

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 10 10:20:25 2010
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCV3.D Vial: 28
Acq On : 9 Dec 2010 10:26 Operator: APG
Sample : 72301,CCV,1 Inst : VMS1
Misc : 5.0 mL H20 PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 08:57:00 2010
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.000	1.000	0.0	88	0.01
2	TM	Dichlorodi	0.323	0.305	5.6	92	0.00
3	PTM	Chloromethan	0.346	0.337	2.6	89	0.01
4	CTM	Vinylchlorid	0.375	0.405	-8.0	100	0.00
5	TM	Bromomethane	0.404	0.369	8.7	103	0.00
6	TM	Chloroethane	0.105	0.272	-159.0#	274#	0.02
7	TM	Trichlorofma	0.476	0.451	5.3	94	0.06
8	T	Dichloroflmethane	0.649	0.641	1.2	89	0.03
9	TM	Ethylether	0.249	0.245	1.6	83	0.00
10	T	dichlorotfluoroethan	0.371	0.362	2.4	90	0.02
11	T	propyleneoxide	0.085	0.086#	-1.2	87	0.01
12	T	Acrolein	0.043	0.055#	-27.9#	114	0.00
13	CTM	11dichlorthe	0.270	0.262	3.0	91	0.03
14	T	Trichlorotfluoroeth	0.316	0.317	-0.3	99	0.02
15	TM	Acetone	0.155	0.118	23.9#	67	0.00
16	T	Iodomethane	0.393	0.394	-0.3	97	0.02
17	TM	Carbon Dislf	0.930	0.942	-1.3	93	0.03
18	T	allylchloride	0.331	0.340	-2.7	92	0.02
19	T	methylacetate	0.159	0.142	10.7	103	0.00
20	TM	Methylchlorid	0.819	0.430	47.5#	83	0.02
21	TM	t12dichlorte	0.322	0.313	2.8	88	0.03
22	T	tbutylalcohol	0.038	0.025#	34.2#	55	-0.04
23	TM	MtBE	0.874	0.878	-0.5	86	0.00
24	T	Acrylonitrile	0.137	0.137	0.0	83	0.00
25	TM	Hexane	0.285	0.256	10.2	94	0.03
26	PTM	11dichlorota	0.457	0.461	-0.9	89	0.01
27	TM	Vinylacetate	0.549	0.558	-1.6	83	0.01
28	T	chloroprene	0.338	0.345	-2.1	91	0.02
29	TM	Diisopether	0.871	0.861	1.1	87	0.01
30	T	ETBE	0.819	0.802	2.1	88	0.00
31	TM	22dichloropr	0.371	0.392	-5.7	94	0.02
32	TM	c12dichlorte	0.339	0.344	-1.5	92	0.02
33	TM	2Butanone	0.185	0.161	13.0	76	0.00
34	T	Ethylacetate	0.423	0.394	6.9	115	0.00
35	T	propionitrile	0.053	0.045#	15.1	70	0.00
36	TM	Bromochlorma	0.187	0.194	-3.7	91	0.01
37	T	methacrylonitrile	0.164	0.164	0.0	86	0.01
38	TM	tetrahydofur	0.109	0.100#	8.3	78	0.01
39	CTM	Chloroform	0.526	0.540	-2.7	92	0.01
40	TM	111trichlota	0.404	0.416	-3.0	92	0.02
41	T	Cyclohexane	0.370	0.370	0.0	94	0.02
42	S	SURRDibrflma	0.346	0.373	-7.8	96	0.01
43	TM	Carbtetraclo	0.341	0.360	-5.6	97	0.02
44	TM	11dicloprope	0.143	0.142	0.7	92	0.01
45	S	SURR12DCAd4	0.082	0.087#	-6.1	93	0.01
46	TM	Benzene	1.059	1.064	-0.5	89	0.01
47	TM	12dichlorota	0.355	0.359	-1.1	90	0.01
48	T	TAME	0.882	0.817	7.4	84	0.01
49	TM	Trichloroete	0.291	0.289	0.7	89	0.02
50	T	methylcyclohexane	0.394	0.375	4.8	100	0.02
51	CTM	12dicloropra	0.254	0.255	-0.4	87	0.02
52	T	23Dicl1propene	0.428	0.424	0.9	89	0.02
53	TM	Dibromometha	0.253	0.262	-3.6	94	0.00
54	T	methylmethacrylate	0.230	0.238	-3.5	90	0.00
55	TM	Bromodiclrma	0.375	0.371	1.1	88	0.01
56	T	2CLEVE	0.210	0.209	0.5	88	0.01
57	TM	c13dicloproe	0.425	0.433	-1.9	93	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCV3.D Vial: 28
Acq On : 9 Dec 2010 10:26 Operator: APG
Sample : 72301,CCV,1 Inst : VMS1
Misc : 5.0 mL H20 PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 08:57:00 2010
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
58	TM	4Meth2pentan	0.349	0.328	6.0	84	0.01
59	S	SURRd8Tolule	0.971	1.074	-10.6	97	0.02
60	CTM	Toluene	0.685	0.712	-3.9	93	0.01
61	TM	t13Dicloprop	0.385	0.381	1.0	91	0.02
62	T	ethylmethacrylate	0.406	0.401	1.2	87	0.01
63	TM	112Triclotha	0.241	0.247	-2.5	91	0.00
64	TM	Tetrachlorte	0.305	0.308	-1.0	93	0.00
65	TM	13Diclorpropa	0.456	0.453	0.7	88	0.00
66	I	d5-CHLOROBENZENE**ISTD**	1.000	1.000	0.0	98	0.02
67	TM	2Hexanone	0.359	0.302	15.9	82	0.01
68	TM	Clorodibrmta	0.443	0.406	8.4	94	0.01
69	TM	12Dibrometha	0.462	0.419	9.3	89	0.01
70	T	1Clhexane	0.303	0.254	16.2	84	0.01
71	PTM	Chlorobenzen	1.071	0.981	8.4	91	0.01
72	TM	1112tetclota	0.350	0.313	10.6	93	0.02
73	CTM	Ethylbenzene	1.636	1.505	8.0	91	0.01
74	TM	m p-Xylene	0.641	0.601	6.2	92	0.02
75	TM	o-Xylene	0.632	0.562	11.1	89	0.02
76	TM	Styrene	1.054	0.965	8.4	91	0.01
77	PTM	Bromoform	0.304	0.282	7.2	95	0.01
78	TM	Isopropylben	1.528	1.391	9.0	91	0.01
79	I	d4-1,4-DICHLOROBENZENE**IST	1.000	1.000	0.0	92	0.02
80	T	cyclohexanone	0.023	0.010#	56.5#	37#	0.00
81	S	SURR4BrFBenz	0.871	0.919	-5.5	96	0.01
82	TM	Bromobenzene	0.865	0.832	3.8	94	0.02
83	PTM	1122Tetrclta	1.060	1.010	4.7	91	0.01
84	TM	123triclproa	0.790	0.726	8.1	86	0.01
85	TM	n-Propylbenz	3.281	3.115	5.1	90	0.01
86	T	14dichloro2butene	0.790	0.726	8.1	86	0.01
87	TM	2chlorotolue	1.894	1.849	2.4	92	0.02
88	TM	4chlorotolue	2.208	2.109	4.5	88	0.01
89	TM	135Trimebenz	2.156	2.033	5.7	88	0.02
90	TM	tbutylbenzen	1.869	1.715	8.2	88	0.01
91	TM	124Trimetben	2.174	2.053	5.6	89	0.02
92	TM	sbutylbenzen	2.713	2.557	5.8	90	0.02
93	TM	13Diclorbenz	1.438	1.369	4.8	91	0.02
94	TM	pIsopropylto	2.172	2.044	5.9	89	0.01
95	TM	14dichlorobe	1.526	1.412	7.5	89	0.01
96	TM	12dichlorobe	1.441	1.348	6.5	89	0.02
97	TM	nButylbenzen	1.969	1.813	7.9	89	0.01
98	TM	12dibromo3cl	0.231	0.204	11.7	85	0.02
99	T	135Trichlorobenzene	0.931	0.864	7.2	91	0.01
100	TM	124trichlobe	0.828	0.762	8.0	88	0.01
101	TM	Hexachlorobu	0.338	0.289	14.5	84	0.01
102	TM	Naphthalene	2.573	2.332	9.4	85	0.01
103	TM	123Trichlben	0.766	0.670	12.5	84	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCV3.D Vial: 28
Acq On : 9 Dec 2010 10:26 Operator: APG
Sample : 72301,CCV,1 Inst : VMS1
Misc : 5.0 mL H20 PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 08:57:00 2010
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.000	1.000	0.0	88	0.01
2	TM	Dichlorodi	0.500	0.472	5.6	92	0.00
3	PTM	Chloromethan	0.500	0.532	-6.4	89	0.01
4	CTM	Vinylchlorid	0.500	0.541	-8.2	100	0.00
5	TM	Bromomethane	0.500	0.652	-30.4#	103	0.00
6	TM	Chloroethane	0.500	1.686	-237.2#	274	0.02
7	TM	Trichlorofma	0.500	0.480	4.0	94	0.06
8	T	Dichloroflmethane	0.500	0.494	1.2	89	0.03
9	TM	Ethylether	0.500	0.492	1.6	83	0.00
10	T	dichlorotfluoroethan	0.500	0.488	2.4	90	0.02
11	T	propyleneoxide	5.000	5.076	-1.5	87	0.01
12	T	Acrolein	2.500	3.188	-27.5#	114	0.00
13	CTM	11dichlorthe	0.500	0.485	3.0	91	0.03
14	T	Trichlorotfluoroeth	1.000	1.004	-0.4	99	0.02
15	TM	Acetone	5.000	4.182	16.4	67	0.00
16	T	Iodomethane	1.000	1.021	-2.1	97	0.02
17	TM	Carbon Dislf	1.000	1.013	-1.3	93	0.03
18	T	allylchloride	1.000	1.027	-2.7	92	0.02
19	T	methylacetate	0.500	0.599	-19.8	103	0.00
20	TM	Methylchlorid	0.500	0.437	12.6	83	0.02
21	TM	t12dichlorte	0.500	0.485	3.0	88	0.03
22	T	tbutylalcohol	25.000	16.389	34.4#	55	-0.04
23	TM	MtBE	0.500	0.502	-0.4	86	0.00
24	T	Acrylonitrile	2.500	2.498	0.1	83	0.00
25	TM	Hexane	1.000	0.899	10.1	94	0.03
26	PTM	11dichlorota	0.500	0.504	-0.8	89	0.01
27	TM	Vinylacetate	5.000	4.777	4.5	83	0.01
28	T	chloroprene	1.000	1.021	-2.1	91	0.02
29	TM	Diisopether	0.500	0.494	1.2	87	0.01
30	T	ETBE	0.500	0.490	2.0	88	0.00
31	TM	22dichloropr	0.500	0.529	-5.8	94	0.02
32	TM	c12dichlorte	0.500	0.507	-1.4	92	0.02
33	TM	2Butanone	5.000	4.341	13.2	76	0.00
34	T	Ethylacetate	0.500	0.617	-23.4#	115	0.00
35	T	propionitrile	5.000	4.183	16.3	70	0.00
36	TM	Bromochlorma	0.500	0.520	-4.0	91	0.01
37	T	methacrylonitrile	1.000	1.001	-0.1	86	0.01
38	TM	tetrahydofur	5.000	4.582	8.4	78	0.01
39	CTM	Chloroform	0.500	0.513	-2.6	92	0.01
40	TM	111trichlota	0.500	0.516	-3.2	92	0.02
41	T	Cyclohexane	0.500	0.500	0.0	94	0.02
42	S	SURRDibrflma	0.950	1.023	-7.7	96	0.01
43	TM	Carbtetraclo	0.500	0.527	-5.4	97	0.02
44	TM	11dicloprope	0.500	0.497	0.6	92	0.01
45	S	SURR12DCAd4	0.950	1.009	-6.2	93	0.01
46	TM	Benzene	0.500	0.502	-0.4	89	0.01
47	TM	12dichlorota	0.500	0.507	-1.4	90	0.01
48	T	TAME	0.500	0.463	7.4	84	0.01
49	TM	Trichloroete	0.500	0.496	0.8	89	0.02
50	T	methylcyclohexane	0.500	0.475	5.0	100	0.02
51	CTM	12dicloropra	0.500	0.502	-0.4	87	0.02
52	T	23Dicl1propene	0.500	0.496	0.8	89	0.02
53	TM	Dibromometha	0.500	0.517	-3.4	94	0.00
54	T	methylmethacrylate	0.500	0.517	-3.4	90	0.00
55	TM	Bromodiclrma	0.500	0.495	1.0	88	0.01
56	T	2CLEVE	2.500	2.491	0.4	88	0.01
57	TM	c13dicloproe	0.500	0.510	-2.0	93	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCV3.D Vial: 28
Acq On : 9 Dec 2010 10:26 Operator: APG
Sample : 72301,CCV,1 Inst : VMS1
Misc : 5.0 mL H20 PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 08:57:00 2010
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
58	TM	4Meth2pentan	5.000	4.704	5.9	84	0.01
59	S	SURRd8Tolule	0.950	1.050	-10.5	97	0.02
60	CTM	Toluene	0.500	0.520	-4.0	93	0.01
61	TM	t13Dicloprop	0.500	0.496	0.8	91	0.02
62	T	ethylmethacrylate	1.000	0.987	1.3	87	0.01
63	TM	112Triclotha	0.500	0.513	-2.6	91	0.00
64	TM	Tetrachlorte	0.500	0.504	-0.8	93	0.00
65	TM	13Diclorpropa	0.500	0.496	0.8	88	0.00
66	I	d5-CHLOROBENZENE**ISTD**	1.000	1.000	0.0	98	0.02
67	TM	2Hexanone	5.000	4.212	15.8	82	0.01
68	TM	Clorodibrmta	0.500	0.459	8.2	94	0.01
69	TM	12Dibrometha	0.500	0.454	9.2	89	0.01
70	T	1Clhexane	0.500	0.441	11.8	84	0.01
71	PTM	Chlorobenzen	0.500	0.458	8.4	91	0.01
72	TM	1112tetclota	0.500	0.447	10.6	93	0.02
73	CTM	Ethylbenzene	0.500	0.460	8.0	91	0.01
74	TM	m p-Xylene	1.000	0.938	6.2	92	0.02
75	TM	o-Xylene	0.500	0.445	11.0	89	0.02
76	TM	Styrene	0.500	0.458	8.4	91	0.01
77	PTM	Bromoform	0.500	0.464	7.2	95	0.01
78	TM	Isopropylben	0.500	0.455	9.0	91	0.01
79	I	d4-1,4-DICHLOROBENZENE**IST	1.000	1.000	0.0	92	0.02
80	T	cyclohexanone	10.000	4.386	56.1#	37	0.00
81	S	SURR4BrFBenz	0.950	1.002	-5.5	96	0.01
82	TM	Bromobenzene	0.500	0.481	3.8	94	0.02
83	PTM	1122Tetrclta	0.500	0.477	4.6	91	0.01
84	TM	123triclproa	0.500	0.494	1.2	86	0.01
85	TM	n-Propylbenz	0.500	0.475	5.0	90	0.01
86	T	14dichloro2butene	0.500	0.494	1.2	86	0.01
87	TM	2chlorotolue	0.500	0.488	2.4	92	0.02
88	TM	4chlorotolue	0.500	0.478	4.4	88	0.01
89	TM	135Trimebenz	0.500	0.472	5.6	88	0.02
90	TM	tbutylbenzen	0.500	0.459	8.2	88	0.01
91	TM	124Trimetben	0.500	0.472	5.6	89	0.02
92	TM	sbutylbenzen	0.500	0.471	5.8	90	0.02
93	TM	13Diclorbenz	0.500	0.476	4.8	91	0.02
94	TM	pIsopropylto	0.500	0.471	5.8	89	0.01
95	TM	14dichlorobe	0.500	0.463	7.4	89	0.01
96	TM	12dichlorobe	0.500	0.468	6.4	89	0.02
97	TM	nButylbenzen	0.500	0.460	8.0	89	0.01
98	TM	12dibromo3cl	0.500	0.441	11.8	85	0.02
99	T	135Trichlorobenzene	0.500	0.464	7.2	91	0.01
100	TM	124trichlobe	0.500	0.460	8.0	88	0.01
101	TM	Hexachlorobu	0.500	0.427	14.6	84	0.01
102	TM	Naphthalene	0.500	0.453	9.4	85	0.01
103	TM	123Trichlben	0.500	0.437	12.6	84	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCV3.D Vial: 28
Acq On : 9 Dec 2010 10:26 Operator: APG
Sample : 72301,CCV,1 Inst : VMS1
Misc : 5.0 mL H20 PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 10 11:51 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 10 11:51:27 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.94	96	890444	1.00	mg/kg	0.01 NA%
66) d5-CHLOROBENZENE**ISTD**	16.95	117	737510	1.00	mg/kg	0.02 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.20	152	377853	1.00	mg/kg	0.02 NA%
System Monitoring Compounds						
42) SURRDibrflma	8.66	113	315164	1.023	mg/kg	0.01
Spiked Amount 0.950	Range 77 - 121		Recovery = 108 %			
45) SURR12DCAd4	9.30	102	73654	1.009	mg/kg	0.01
Spiked Amount 0.950	Range 77 - 119		Recovery = 106 %			
59) SURRd8Tolule	13.42	98	908189	1.050	mg/kg	0.02
Spiked Amount 0.950	Range 84 - 126		Recovery = 111 %			
81) SURR4BrFBenz	20.06	95	329924	1.002	mg/kg	0.01
Spiked Amount 0.950	Range 88 - 128		Recovery = 105 %			
Target Compounds						Qvalue
2) Dichlorodi	1.90	85	135575	0.4718	mg/kg	98
3) Chloromethan	2.17	50	150023	0.5324	mg/kg	100
4) Vinylchlorid	2.33	62	180403	0.5409	mg/kg	99
5) Bromomethane	2.82	94	164221	0.6520	mg/kg	97
6) Chloroethane	2.99	64	121195	1.6857	mg/kg	98
7) Trichlorofma	3.41	101	200831	0.4800	mg/kg	99
8) Dichloroflmethane	3.39	67	285287	0.4939	mg/kg	99
9) Ethylether	3.96	59	109225	0.4924	mg/kg	94
10) dichlorotfluoroethan	4.05	67	161292	0.4879	mg/kg	99
11) propyleneoxide	4.09	58	382350	5.0758	mg/kg	96
12) Acrolein	4.23	56	122256	3.1881	mg/kg	99
13) 11dichlorthe	4.32	96	116496	0.4853	mg/kg	98
14) Trichlorotfluoroeth	4.32	101	282656	1.0036	mg/kg	99
15) Acetone	4.52	43	523298	4.1821	mg/kg	99
16) Iodomethane	4.58	142	350474	1.0213	mg/kg	98
17) Carbon Dislf	4.65	76	838983	1.0128	mg/kg	99
18) allylchloride	5.00	41	302325	1.0272	mg/kg	98
19) methylacetate	5.10	74	63253	0.5993	mg/kg	95
20) Methylchlorid	5.26	84	191613	0.4369	mg/kg	97
21) t12dichlorte	5.72	96	139171	0.4848	mg/kg	99
22) tbutylalcohol	5.63	59	558247	16.3886	mg/kg	81
23) MtBE	5.71	73	390850	0.5025	mg/kg	86
24) Acrylonitrile	5.77	53	304374	2.4979	mg/kg	97
25) Hexane	6.17	57	228333	0.8995	mg/kg	100
26) 11dichlorota	6.52	63	205259	0.5045	mg/kg	100
27) Vinylacetate	6.67	43	2484121	4.7771	mg/kg	99
28) chloroprene	6.66	53	307349	1.0213	mg/kg	97
29) Diisopether	6.64	45	383199	0.4939	mg/kg#	91
30) ETBE	7.33	59	357229	0.4898	mg/kg	98
31) 22dichloropr	7.59	77	174684	0.5293	mg/kg	99
32) c12dichlorte	7.66	96	152954	0.5065	mg/kg	96
33) 2Butanone	7.74	43	715467	4.3414	mg/kg	99
34) Ethylacetate	7.86	43	175355	0.6173	mg/kg	99
35) propionitrile	7.91	54	198398	4.1826	mg/kg	99
36) Bromochlorma	8.14	128	86325	0.5195	mg/kg	98
37) methacrylonitrile	8.16	67	146038	1.0007	mg/kg#	89
38) tetrahydofur	8.20	42	445193	4.5822	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCV3.D Vial: 28
Acq On : 9 Dec 2010 10:26 Operator: APG
Sample : 72301,CCV,1 Inst : VMS1
Misc : 5.0 mL H20 PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 10 11:51 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 10 11:51:27 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	8.33	83	240441	0.5131 mg/kg	99
40) 111trichlota	8.57	97	185330	0.5156 mg/kg	98
41) Cyclohexane	8.61	56	164749	0.5004 mg/kg	97
43) Carbtetraclo	8.88	119	160092	0.5270 mg/kg	98
44) 11dicloprope	8.90	110	63260	0.4968 mg/kg	99
46) Benzene	9.33	78	473876	0.5023 mg/kg	99
47) 12dichlorota	9.45	62	160042	0.5068 mg/kg	99
48) TAME	9.58	73	363920	0.4633 mg/kg	99
49) Trichloroete	10.71	95	128515	0.4957 mg/kg	99
50) methylcyclohexane	11.01	83	166821	0.4751 mg/kg	95
51) 12dicloropra	11.22	63	113384	0.5016 mg/kg	98
52) 23Dicl1propene	11.36	75	188956	0.4959 mg/kg	97
53) Dibromometha	11.50	93	116806	0.5175 mg/kg	99
54) methylmethacrylate	11.55	69	105885	0.5173 mg/kg	99
55) Bromodiclrma	11.90	83	165154	0.4947 mg/kg	97
56) 2CLEVE	12.61	63	466196	2.4906 mg/kg	98
57) c13dicloproe	12.89	75	192751	0.5097 mg/kg	99
58) 4Meth2pentan	13.27	43	1461383	4.7042 mg/kg	99
60) Toluene	13.57	92	317201	0.5202 mg/kg	98
61) t13Dicloprop	14.25	75	169678	0.4956 mg/kg	99
62) ethylmethacrylate	14.46	69	356672	0.9867 mg/kg	99
63) 112Triclotha	14.66	83	109987	0.5130 mg/kg	99
64) Tetrachlorte	14.84	166	137070	0.5045 mg/kg	99
65) 13Diclorpropa	15.03	76	201477	0.4957 mg/kg	100
67) 2Hexanone	15.30	43	1115259	4.2124 mg/kg	100
68) Clorodibrmta	15.59	129	149893	0.4589 mg/kg	99
69) 12Dibrometha	15.80	107	154428	0.4536 mg/kg	99
70) 1Clhexane	17.01	55	93789	0.4410 mg/kg	96
71) Chlorobenzen	17.01	112	361842	0.4581 mg/kg	99
72) 1112tetclota	17.28	131	115306	0.4472 mg/kg	98
73) Ethylbenzene	17.31	91	555089	0.4601 mg/kg	99
74) m p-Xylene	17.62	106	443011	0.9377 mg/kg	98
75) o-Xylene	18.65	106	207101	0.4446 mg/kg	96
76) Styrene	18.71	104	355931	0.4580 mg/kg	98
77) Bromoform	19.23	173	104170	0.4645 mg/kg	99
78) Isopropylben	19.63	105	512986	0.4553 mg/kg	100
80) cyclohexanone	19.93	55	38750	4.3862 mg/kg	96
82) Bromobenzene	20.41	156	157242	0.4809 mg/kg	96
83) 1122Tetrclta	20.64	83	190814	0.4766 mg/kg	97
84) 123triclproa	20.67	75	137255	0.4939 mg/kg	97
85) n-Propylbenz	20.74	91	588563	0.4748 mg/kg	99
86) 14dichloro2butene	20.67	75	137255	0.4939 mg/kg#	98
87) 2chlorotolue	20.95	91	349316	0.4880 mg/kg	99
88) 4chlorotolue	21.25	91	398506	0.4777 mg/kg	99
89) 135Trimebenz	21.25	105	384166	0.4716 mg/kg	96
90) tbutylbenzen	22.11	119	324066	0.4588 mg/kg	100
91) 124Trimetben	22.27	105	387904	0.4723 mg/kg	99
92) sbutylbenzen	22.72	105	483062	0.4712 mg/kg	100
93) 13Diclorbenz	23.01	146	258655	0.4762 mg/kg	99
94) pIsopropylto	23.15	119	386201	0.4706 mg/kg	99
95) 14dichlorobe	23.26	146	266736	0.4625 mg/kg	100
96) 12dichlorobe	24.28	146	254613	0.4675 mg/kg	99
97) nButylbenzen	24.30	91	342485	0.4603 mg/kg	99
98) 12dibromo3cl	26.57	157	38448	0.4410 mg/kg	98
99) 135Trichlorobenzene	27.05	180	163274	0.4640 mg/kg	99
100) 124trichlobe	28.71	180	143933	0.4599 mg/kg	99
101) Hexachlorobu	29.11	225	54564	0.4266 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCV3.D Vial: 28
Acq On : 9 Dec 2010 10:26 Operator: APG
Sample : 72301,CCV,1 Inst : VMS1
Misc : 5.0 mL H20 PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 10 11:51 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 10 11:51:27 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

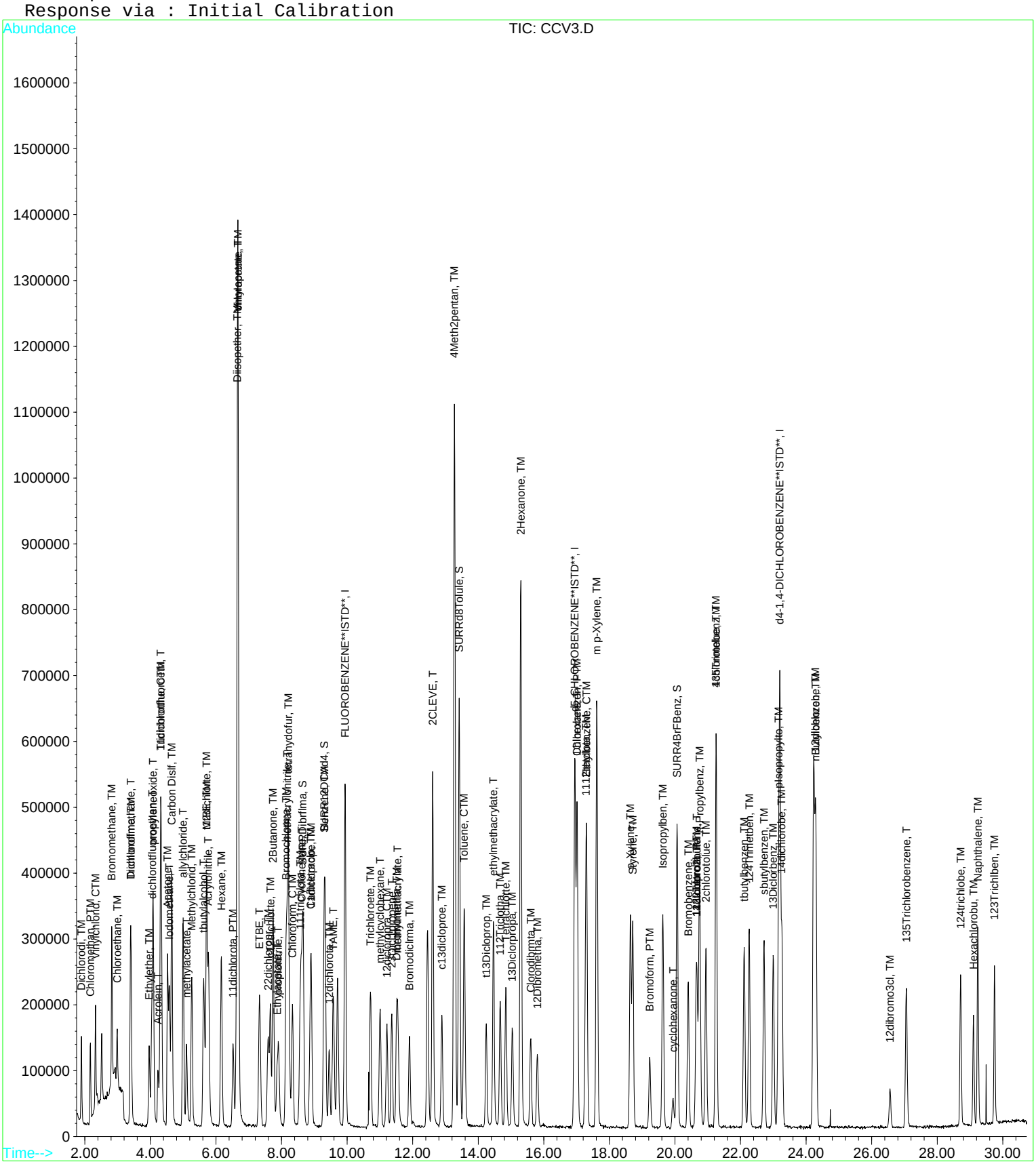
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Naphthalene	29.23	128	440574	0.4532	mg/kg	99
103) 123Trichlben	29.75	180	126625	0.4375	mg/kg	98

(#) = qualifier out of range (m) = manual integration
CCV3.D PS120210.M Fri Dec 10 11:52:56 2010

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\CCV3.D Vial: 28
Acq On : 9 Dec 2010 10:26 Operator: APG
Sample : 72301,CCV,1 Inst : VMS1
Misc : 5.0 mL H20 PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 10 11:51 2010 Quant Results File: PS120210.RES

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 10 11:51:27 2010
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL
DOCUMENTS

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\LCS1.D Vial: 4
Acq On : 8 Dec 2010 9:08 Operator: APG
Sample : 72301,LCSS,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 9:39 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.94	96	1158162	1.00	mg/kg	0.01 NA%
66) d5-CHLOROBENZENE**ISTD**	16.93	117	909038	1.00	mg/kg	0.00 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.18	152	502387	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
42) SURRDibrflma	8.66	113	395173	0.987	mg/kg	0.01
Spiked Amount 0.950	Range 77 - 121		Recovery = 104 %			
45) SURR12DCAd4	9.30	102	94840	0.999	mg/kg	0.01
Spiked Amount 0.950	Range 77 - 119		Recovery = 105 %			
59) SURRd8Tolule	13.41	98	1119563	0.995	mg/kg	0.01
Spiked Amount 0.950	Range 84 - 126		Recovery = 105 %			
81) SURR4BrFBenz	20.04	95	399972	0.914	mg/kg	0.00
Spiked Amount 0.950	Range 88 - 128		Recovery = 96 %			
Target Compounds						Qvalue
2) Dichlorodi	1.92	85	182167	0.4874	mg/kg	98
3) Chloromethan	2.19	50	209346	0.5732	mg/kg	96
4) Vinylchlorid	2.35	62	244368	0.5633	mg/kg	98
5) Bromomethane	2.84	94	205766	0.6238	mg/kg	96
6) Chloroethane	3.01	64	154143	1.6472	mg/kg	99
7) Trichlorofma	3.42	101	258554	0.4744	mg/kg	99
8) Dichloroflmethane	3.41	67	368279	0.4902	mg/kg	99
9) Ethylether	3.98	59	148308	0.5140	mg/kg	98
10) dichlorotfluoroethan	4.06	67	203058	0.4722	mg/kg	95
11) propyleneoxide	4.10	58	474298	4.8410	mg/kg	94
12) Acrolein	4.25	56	232187	4.6551	mg/kg	98
13) 11dichlorthe	4.34	96	157618	0.5048	mg/kg	94
14) Trichlorotfluoroeth	4.34	101	362962	0.9908	mg/kg	98
15) Acetone	4.54	43	636405	3.8848	mg/kg	100
16) Iodomethane	4.59	142	509104	1.1138	mg/kg	99
17) Carbon Dislf	4.66	76	924360	0.8579	mg/kg	100
18) allylchloride	5.02	41	325108	0.8493	mg/kg	98
19) methylacetate	5.12	74	82123	0.5982	mg/kg	99
20) Methylchlorid	5.27	84	252216	0.4459	mg/kg	96
21) t12dichlorte	5.72	96	189330	0.5071	mg/kg	97
22) tbutylalcohol	5.64	59	680970	15.3702	mg/kg	80
23) MtBE	5.72	73	508607	0.5027	mg/kg#	54
24) Acrylonitrile	5.78	53	386416	2.4381	mg/kg	99
25) Hexane	6.18	57	315407	0.9553	mg/kg	98
26) 11dichlorota	6.53	63	272270	0.5145	mg/kg	97
27) Vinylacetate	6.68	43	3268751	4.8300	mg/kg	99
28) chloroprene	6.67	53	389721	0.9957	mg/kg	96
29) Diisopether	6.64	45	499355	0.4948	mg/kg#	93
30) ETBE	7.33	59	467589	0.4929	mg/kg	99
31) 22dichloropr	7.59	77	227698	0.5305	mg/kg	98
32) c12dichlorte	7.66	96	201704	0.5136	mg/kg	97
33) 2Butanone	7.74	43	876946	4.0912	mg/kg	99
34) Ethylacetate	7.86	43	210968	0.5680	mg/kg	99
35) propionitrile	7.91	54	259480	4.2058	mg/kg	99
36) Bromochlorma	8.15	128	116710	0.5400	mg/kg	98
37) methacrylonitrile	8.16	67	189676	0.9993	mg/kg#	87
38) tetrahydofur	8.20	42	563389	4.4583	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\LCS1.D Vial: 4
Acq On : 8 Dec 2010 9:08 Operator: APG
Sample : 72301,LCSS,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 9:39 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	8.33	83	320587	0.5260	mg/kg	99
40)	111trichlota	8.57	97	250492	0.5358	mg/kg	96
41)	Cyclohexane	8.61	56	207774	0.4852	mg/kg	94
43)	Carbtetraclo	8.87	119	206876	0.5236	mg/kg	99
44)	11dicloprope	8.90	110	86148	0.5202	mg/kg	92
46)	Benzene	9.33	78	632586	0.5156	mg/kg	98
47)	12dichlorota	9.45	62	203545	0.4955	mg/kg	99
48)	TAME	9.57	73	504698	0.4940	mg/kg	100
49)	Trichloroete	10.70	95	174677	0.5180	mg/kg	97
50)	methylcyclohexane	11.00	83	219634	0.4809	mg/kg	97
51)	12dicloropra	11.21	63	144166	0.4903	mg/kg	99
52)	23Dicl1propene	11.36	75	246215	0.4968	mg/kg	98
53)	Dibromometha	11.50	93	154422	0.5260	mg/kg	97
54)	methylmethacrylate	11.55	69	141608	0.5319	mg/kg	98
55)	Bromodiclrma	11.89	83	218486	0.5032	mg/kg	98
56)	2CLEVE	12.60	63	597000	2.4521	mg/kg	98
57)	c13dicloproe	12.88	75	238363	0.4846	mg/kg	100
58)	4Meth2pentan	13.26	43	1864838	4.6153	mg/kg	99
60)	Toluene	13.56	92	419226	0.5286	mg/kg	98
61)	t13Dicloprop	14.24	75	213027	0.4783	mg/kg	99
62)	ethylmethacrylate	14.45	69	483024	1.0274	mg/kg	98
63)	112Triclotha	14.65	83	136120	0.4881	mg/kg	98
64)	Tetrachlorte	14.83	166	185331	0.5244	mg/kg	98
65)	13Diclorpropa	15.02	76	262856	0.4972	mg/kg	99
67)	2Hexanone	15.28	43	1424175	4.3642	mg/kg	99
68)	Clorodibrmta	15.59	129	188814	0.4690	mg/kg	98
69)	12Dibrometha	15.79	107	205984	0.4908	mg/kg	95
70)	1Clhexane	16.99	55	124870	0.4799	mg/kg	98
71)	Chlorobenzen	17.00	112	484180	0.4973	mg/kg	98
72)	1112tetclota	17.26	131	158010	0.4972	mg/kg	98
73)	Ethylbenzene	17.29	91	748530	0.5033	mg/kg	99
74)	m p-Xylene	17.60	106	591977	1.0166	mg/kg	100
75)	o-Xylene	18.63	106	277625	0.4835	mg/kg	97
76)	Styrene	18.69	104	480125	0.5013	mg/kg	98
77)	Bromoform	19.22	173	121746	0.4404	mg/kg	97
78)	Isopropylben	19.61	105	702778	0.5060	mg/kg	99
80)	cyclohexanone	19.92	55	51760	4.4065	mg/kg	99
82)	Bromobenzene	20.39	156	215145	0.4949	mg/kg	95
83)	1122Tetrclta	20.63	83	253653	0.4765	mg/kg	98
84)	123triclproa	20.66	75	180172	0.4876	mg/kg	97
85)	n-Propylbenz	20.73	91	816163	0.4951	mg/kg	99
86)	14dichloro2butene	20.66	75	180172	0.4876	mg/kg#	100
87)	2chlorotolue	20.93	91	467798	0.4915	mg/kg	99
88)	4chlorotolue	21.23	91	544395	0.4909	mg/kg	97
89)	135Trimebenz	21.23	105	526296	0.4859	mg/kg	97
90)	tbutylbenzen	22.09	119	463573	0.4937	mg/kg	98
91)	124Trimetben	22.25	105	530363	0.4857	mg/kg	99
92)	sbutylbenzen	22.70	105	665957	0.4885	mg/kg	99
93)	13Diclorbenz	22.98	146	349153	0.4835	mg/kg	99
94)	pIsopropylto	23.14	119	551586	0.5056	mg/kg	98
95)	14dichlorobe	23.24	146	375118	0.4892	mg/kg	99
96)	12dichlorobe	24.26	146	350571	0.4842	mg/kg	98
97)	nButylbenzen	24.28	91	474158	0.4793	mg/kg	99
98)	12dibromo3cl	26.55	157	52707	0.4547	mg/kg	99
99)	135Trichlorobenzene	27.04	180	226024	0.4831	mg/kg	99
100)	124trichlobe	28.69	180	194691	0.4679	mg/kg	98
101)	Hexachlorobu	29.09	225	78175	0.4597	mg/kg	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\LCS1.D Vial: 4
Acq On : 8 Dec 2010 9:08 Operator: APG
Sample : 72301,LCSS,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 9:39 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

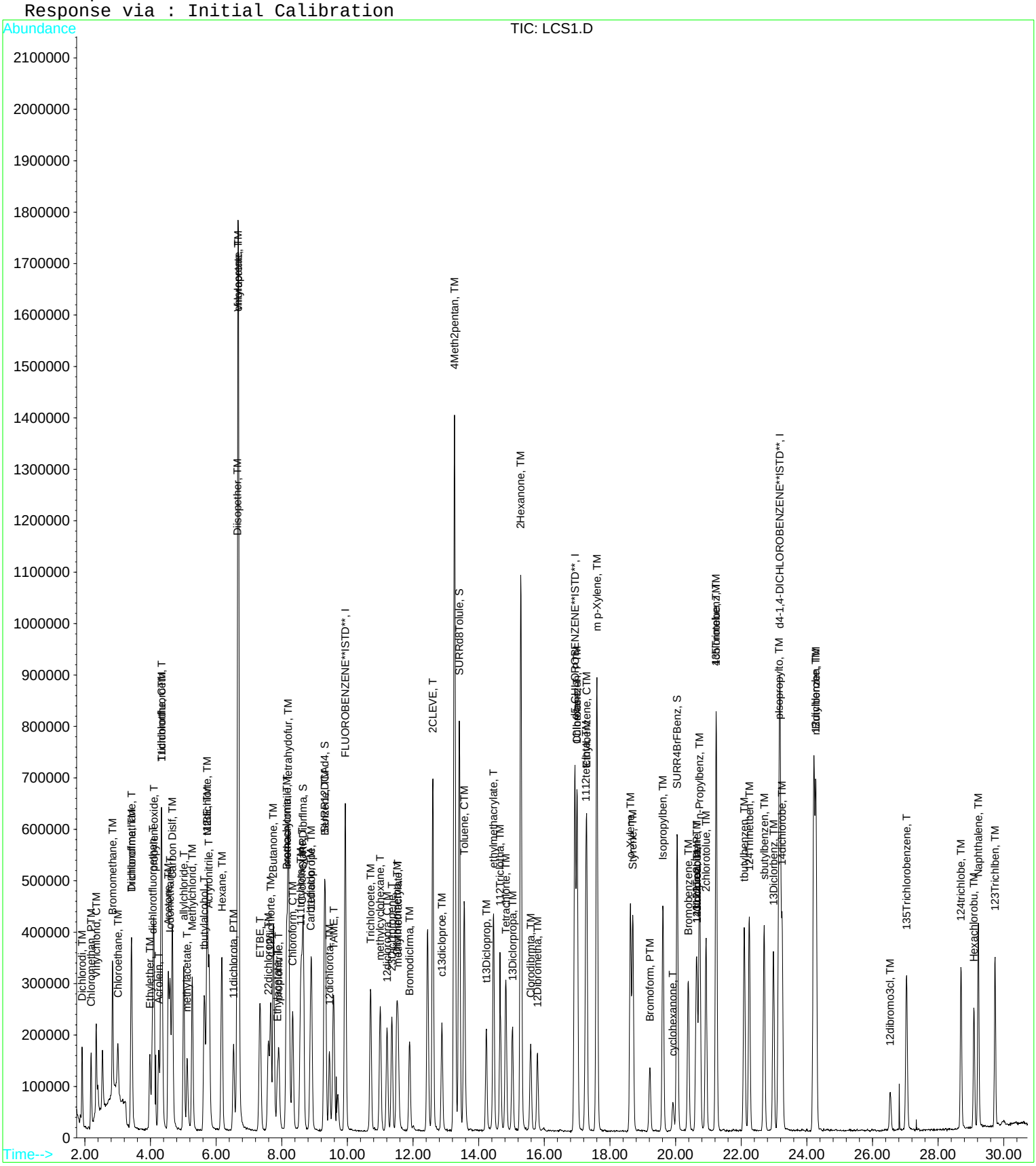
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Naphthalene	29.22	128	591034	0.4573	mg/kg	99
103) 123Trichlben	29.74	180	181381	0.4713	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\LCS1.D Vial: 4
Acq On : 8 Dec 2010 9:08 Operator: APG
Sample : 72301,LCSS,1 Inst : VMS1
Misc : 0.5/5.0 mg/kg, 5.0 mL PURGED+ ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 9:39 2010 Quant Results File: PS120210.RES

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration



Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\MB1.D Vial: 5
Acq On : 8 Dec 2010 9:47 Operator: APG
Sample : 72301,MBS,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 10:18 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.93	96	1017428	1.00	mg/kg	0.00 NA%
66) d5-CHLOROBENZENE**ISTD**	16.93	117	839358	1.00	mg/kg	0.00 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.18	152	449935	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
42) SURRDibrflma	8.64	113	363186	1.032	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 121		Recovery = 109 %			
45) SURR12DCAd4	9.28	102	85058	1.019	mg/kg	0.00
Spiked Amount 0.950	Range 77 - 119		Recovery = 107 %			
59) SURRd8Tolule	13.40	98	1013960	1.026	mg/kg	0.00
Spiked Amount 0.950	Range 84 - 126		Recovery = 108 %			
81) SURR4BrFBenz	20.05	95	372258	0.949	mg/kg	0.00
Spiked Amount 0.950	Range 88 - 128		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.18	50	4676	Below	Cal	95
4) Vinylchlorid	2.39	62	1072	N.D.		
5) Bromomethane	2.84	94	16062	Below	Cal #	54
6) Chloroethane	2.91	64	1361	Below	Cal #	1
7) Trichlorofma	0.00	101	0	N.D.		
8) Dichloroflmethane	3.40	67	1203	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	4.02	67	1239	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.56	43	17394	Below	Cal	93
16) Iodomethane	4.58	142	9601	0.2488	mg/kg	93
17) Carbon Dislf	4.65	76	4605	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	5.12	74	18676	0.1458	mg/kg	93
20) Methylchlorid	5.25	84	60497	Below	Cal	99
21) t12dichlorte	0.00	96	0	N.D.		
22) tbutylalcohol	5.66	59	15108	N.D.		
23) MtBE	0.00	73	0	N.D.		
24) Acrylonitrile	0.00	53	0	N.D.		
25) Hexane	6.15	57	1440	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	6.64	53	1138	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	7.76	43	11471	N.D.		
34) Ethylacetate	7.86	43	37026	0.0814	mg/kg	89
35) propionitrile	7.95	54	1895	N.D.		
36) Bromochlorma	0.00	128	0	N.D.		
37) methacrylonitrile	0.00	67	0	N.D.		
38) tetrahydofur	8.24	42	5058	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\MB1.D Vial: 5
Acq On : 8 Dec 2010 9:47 Operator: APG
Sample : 72301,MBS,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 10:18 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
41)	Cyclohexane	8.59	56	1216	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	9.33	78	1723	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	Trichloroete	0.00	95	0	N.D.		
50)	methylcyclohexane	10.99	83	1490	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23Dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	Bromodiclrma	0.00	83	0	N.D.		
56)	2CLEVE	0.00	63	0	N.D.		
57)	c13dicloproe	0.00	75	0	N.D.		
58)	4Meth2pentan	13.27	43	1150	N.D.		
60)	Toluene	13.56	92	1234	N.D.		
61)	t13Dicloprop	0.00	75	0	N.D.		
62)	ethylmethacrylate	0.00	69	0	N.D.		
63)	112Triclotha	0.00	83	0	N.D.		
64)	Tetrachlorte	0.00	166	0	N.D.		
65)	13Diclorpropa	0.00	76	0	N.D.		
67)	2Hexanone	15.29	43	3095	N.D.		
68)	Clorodibrmta	0.00	129	0	N.D.		
69)	12Dibrometha	0.00	107	0	N.D.		
70)	1Clhexane	17.01	55	1058	Below	Cal #	38
71)	Chlorobenzen	0.00	112	0	N.D.		
72)	1112tetclota	0.00	131	0	N.D.		
73)	Ethylbenzene	17.28	91	1327	N.D.		
74)	m p-Xylene	0.00	106	0	N.D.		
75)	o-Xylene	0.00	106	0	N.D.		
76)	Styrene	0.00	104	0	N.D.		
77)	Bromoform	0.00	173	0	N.D.		
78)	Isopropylben	19.60	105	1752	N.D.		
80)	cyclohexanone	19.91	55	3605	0.3427	mg/kg#	94
82)	Bromobenzene	0.00	156	0	N.D.		
83)	1122Tetrclta	0.00	83	0	N.D.		
84)	123triclproa	0.00	75	0	N.D.		
85)	n-Propylbenz	20.73	91	2662	N.D.		
86)	14dichloro2butene	0.00	75	0	N.D.		
87)	2chlorotolue	20.93	91	1659	N.D.		
88)	4chlorotolue	21.26	91	1460	N.D.		
89)	135Trimebenz	21.25	105	1944	N.D.		
90)	tbutylbenzen	22.07	119	1879	N.D.		
91)	124Trimetben	22.26	105	1974	N.D.		
92)	sbutylbenzen	22.70	105	3003	N.D.		
93)	13Diclorbenz	22.98	146	1138	N.D.		
94)	pIsopropylto	23.13	119	2251	N.D.		
95)	14dichlorobe	23.21	146	1545	N.D.		
96)	12dichlorobe	24.27	146	1149	N.D.		
97)	nButylbenzen	24.28	91	4008	N.D.		
98)	12dibromo3cl	0.00	157	0	N.D.		
99)	135Trichlorobenzene	27.03	180	2097	N.D.		
100)	124trichlobe	28.69	180	2758	N.D.		
101)	Hexachlorobu	29.08	225	1565	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\MB1.D Vial: 5
Acq On : 8 Dec 2010 9:47 Operator: APG
Sample : 72301,MBS,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 10:18 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

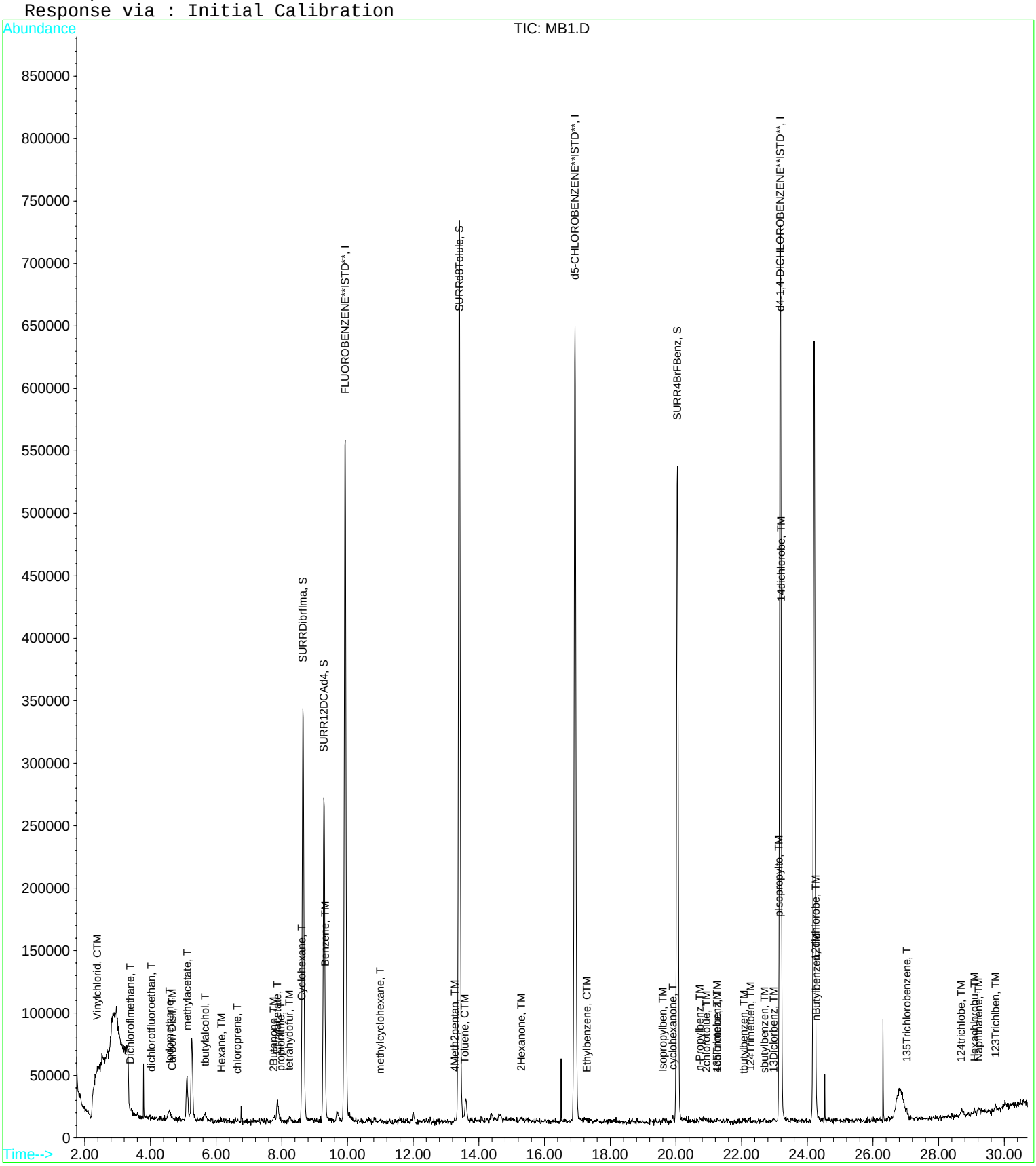
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Naphthalene	29.23	128	5873	N.D.	
103) 123Trichlben	29.73	180	2147	N.D.	

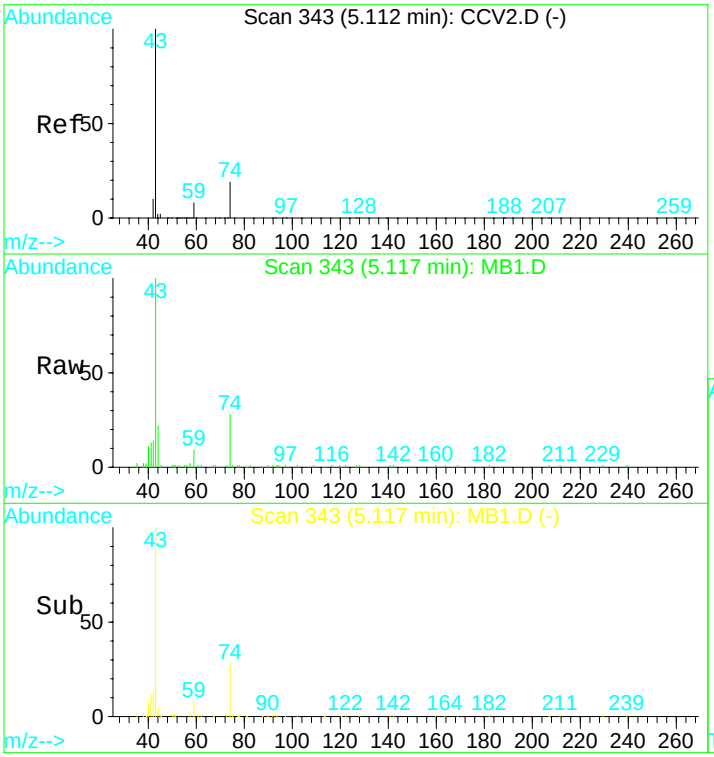
(#) = qualifier out of range (m) = manual integration
MB1.D PS120210.M Thu Dec 09 08:14:54 2010 Page 182 Page 3

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\MB1.D Vial: 5
Acq On : 8 Dec 2010 9:47 Operator: APG
Sample : 72301,MBS,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 10:18 2010 Quant Results File: PS120210.RES

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration

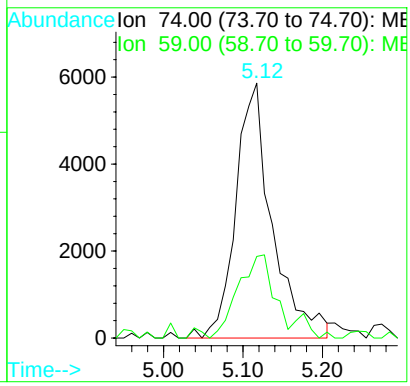




#19
methylacetate
Concen: 0.15 mg/kg
RT: 5.12 min Scan# 343
Delta R.T. 0.02 min
Lab File: MB1.D
Acq: 8 Dec 2010 9:47

Tgt Ion: 74 Resp: 18676

Ion	Ratio	Lower	Upper
74	100		
59	35.9	11.9	51.9



Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877669MS.D Vial: 35
Acq On : 9 Dec 2010 14:59 Operator: APG
Sample : 72301,MSS877669,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
 Quant Time: Dec 9 15:30 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
   IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.96	96	938909	1.00	mg/kg	0.04
						NA%
66) d5-CHLOROBENZENE**ISTD**	16.97	117	726433	1.00	mg/kg	0.04
						NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.22	152	396186	1.00	mg/kg	0.04
						NA%
System Monitoring Compounds						
42) SURRDibrflma	8.68	113	319465	0.984	mg/kg	0.04
Spiked Amount 0.950	Range 77 - 121		Recovery = 104 %			
45) SURR12DCAd4	9.32	102	71771	0.932	mg/kg	0.04
Spiked Amount 0.950	Range 77 - 119		Recovery = 98 %			
59) SURRd8Tolule	13.44	98	900006	0.987	mg/kg	0.05
Spiked Amount 0.950	Range 84 - 126		Recovery = 104 %			
81) SURR4BrFBenz	20.09	95	322745	0.935	mg/kg	0.04
Spiked Amount 0.950	Range 88 - 128		Recovery = 98 %			
Target Compounds						Qvalue
2) Dichlorodi	1.91	85	163275	0.5389	mg/kg	99
3) Chloromethan	2.17	50	158603	0.5339	mg/kg	97
4) Vinylchlorid	2.33	62	181560	0.5163	mg/kg	99
5) Bromomethane	2.83	94	183888	0.6996	mg/kg	97
6) Chloroethane	3.00	64	123109	1.6221	mg/kg	94
7) Trichlorofma	3.42	101	191606	0.4280	mg/kg	99
8) Dichloroflmethane	3.41	67	274003	0.4499	mg/kg	97
9) Ethylether	3.99	59	108195	0.4626	mg/kg	96
10) dichlorotfluoroethan	4.06	67	154501	0.4432	mg/kg	98
11) propyleneoxide	4.10	58	342163	4.3079	mg/kg	98
12) Acrolein	4.25	56	114604	2.8343	mg/kg	98
13) 11dichlorthe	4.34	96	119726	0.4730	mg/kg	96
14) Trichlorotfluoroeth	4.34	101	283049	0.9531	mg/kg	98
15) Acetone	4.55	43	456354	3.3908	mg/kg	97
16) Iodomethane	4.60	142	319246	0.9136	mg/kg	99
17) Carbon Dislf	4.66	76	818209	0.9367	mg/kg	100
18) allylchloride	5.02	41	273528	0.8814	mg/kg	96
19) methylacetate	5.13	74	71347	0.6419	mg/kg	94
20) Methylchlorid	5.28	84	174161	0.3336	mg/kg	97
21) t12dichlorte	5.74	96	145024	0.4791	mg/kg	97
22) tbutylalcohol	5.65	59	530944	14.7825	mg/kg	82
23) MtBE	5.74	73	388210	0.4733	mg/kg	83
24) Acrylonitrile	5.80	53	283595	2.2072	mg/kg	100
25) Hexane	6.19	57	229403	0.8570	mg/kg	98
26) 11dichlorota	6.54	63	205248	0.4784	mg/kg	97
27) Vinylacetate	6.69	43	2411971	4.4187	mg/kg	99
28) chloroprene	6.68	53	304356	0.9592	mg/kg	99
29) Diisopether	6.66	45	368695	0.4507	mg/kg#	92
30) ETBE	7.35	59	349723	0.4547	mg/kg	99
31) 22dichloropr	7.62	77	155564	0.4470	mg/kg	99
32) c12dichlorte	7.68	96	149615	0.4699	mg/kg	97
33) 2Butanone	7.76	43	651566	3.7496	mg/kg	98
34) Ethylacetate	7.88	43	109481	0.3491	mg/kg	97
35) propionitrile	7.93	54	190158	3.8020	mg/kg	99
36) Bromochlorma	8.16	128	83511	0.4766	mg/kg	96
37) methacrylonitrile	8.18	67	133357	0.8667	mg/kg#	91
38) tetrahydofur	8.23	42	423362	4.1326	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877669MS.D Vial: 35
Acq On : 9 Dec 2010 14:59 Operator: APG
Sample : 72301,MSS877669,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
 Quant Time: Dec 9 15:30 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	8.36	83	225679	0.4567	mg/kg	99
40)	111trichlota	8.59	97	182454	0.4814	mg/kg	98
41)	Cyclohexane	8.63	56	156346	0.4504	mg/kg	91
43)	Carbtetraclo	8.90	119	155014	0.4839	mg/kg	99
44)	11dicloprope	8.94	110	63148	0.4703	mg/kg	94
46)	Benzene	9.35	78	469646	0.4721	mg/kg	97
47)	12dichlorota	9.48	62	151596	0.4552	mg/kg	100
48)	TAME	9.60	73	373228	0.4506	mg/kg	98
49)	Trichloroete	10.73	95	127800	0.4675	mg/kg	97
50)	methylcyclohexane	11.03	83	166213	0.4489	mg/kg	98
51)	12dicloropra	11.24	63	107715	0.4519	mg/kg	99
52)	23Dicl1propene	11.39	75	183767	0.4574	mg/kg	98
53)	Dibromometha	11.53	93	108120	0.4543	mg/kg	99
54)	methylmethacrylate	11.57	69	101787	0.4716	mg/kg	97
55)	Bromodiclrma	11.93	83	159961	0.4544	mg/kg	97
56)	2CLEVE	12.64	63	442533	2.2421	mg/kg	98
57)	c13dicloproe	12.91	75	179608	0.4504	mg/kg	97
58)	4Meth2pentan	13.30	43	1422815	4.3437	mg/kg	98
60)	Toluene	13.59	92	313940	0.4883	mg/kg	96
61)	t13Dicloprop	14.27	75	148582	0.4115	mg/kg	97
62)	ethylmethacrylate	14.49	69	355548	0.9328	mg/kg	99
63)	112Triclotha	14.70	83	107888	0.4772	mg/kg	97
64)	Tetrachlorte	14.86	166	127531	0.4451	mg/kg	96
65)	13Diclorpropa	15.06	76	194186	0.4531	mg/kg	97
67)	2Hexanone	15.31	43	1071636	4.1093	mg/kg	100
68)	Clorodibrmta	15.62	129	138641	0.4310	mg/kg	98
69)	12Dibrometha	15.82	107	147413	0.4396	mg/kg	96
70)	1Clhexane	17.03	55	96403	0.4621	mg/kg	95
71)	Chlorobenzen	17.03	112	344003	0.4421	mg/kg	100
72)	1112tetclota	17.29	131	111706	0.4398	mg/kg	98
73)	Ethylbenzene	17.32	91	545551	0.4590	mg/kg	100
74)	m p-Xylene	17.64	106	431166	0.9265	mg/kg	99
75)	o-Xylene	18.66	106	207417	0.4521	mg/kg	98
76)	Styrene	18.74	104	343657	0.4490	mg/kg	100
77)	Bromoform	19.26	173	89837	0.4067	mg/kg	99
78)	Isopropylben	19.65	105	445819	0.4017	mg/kg	99
80)	cyclohexanone	19.95	55	39753	4.2915	mg/kg#	97
82)	Bromobenzene	20.42	156	154862	0.4517	mg/kg	96
83)	1122Tetrclta	20.67	83	170676	0.4065	mg/kg	98
84)	123triclproa	20.70	75	129865	0.4452	mg/kg	99
85)	n-Propylbenz	20.76	91	581003	0.4470	mg/kg	99
86)	14dichloro2butene	20.70	75	129865	0.4452	mg/kg#	97
87)	2chlorotolue	20.96	91	337655	0.4499	mg/kg	100
88)	4chlorotolue	21.28	91	535293	0.6120	mg/kg	85
89)	135Trimebenz	21.27	105	412598	0.4830	mg/kg	98
90)	tbutylbenzen	22.13	119	328111	0.4431	mg/kg	99
91)	124Trimetben	22.28	105	387782	0.4503	mg/kg	98
92)	sbutylbenzen	22.73	105	483971	0.4502	mg/kg	100
93)	13Diclorbenz	23.02	146	256891	0.4511	mg/kg	98
94)	pIsopropylto	23.18	119	428996	0.4986	mg/kg	99
95)	14dichlorobe	23.28	146	266977	0.4415	mg/kg	99
96)	12dichlorobe	24.30	146	245442	0.4298	mg/kg	97
97)	nButylbenzen	24.32	91	351969	0.4512	mg/kg	99
98)	12dibromo3cl	26.57	157	34434	0.3767	mg/kg	99
99)	135Trichlorobenzene	27.07	180	160910	0.4361	mg/kg	98
100)	124trichlobe	28.73	180	141167	0.4302	mg/kg	97
101)	Hexachlorobu	29.12	225	58652	0.4374	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877669MS.D Vial: 35
Acq On : 9 Dec 2010 14:59 Operator: APG
Sample : 72301,MSS877669,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
 Quant Time: Dec 9 15:30 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

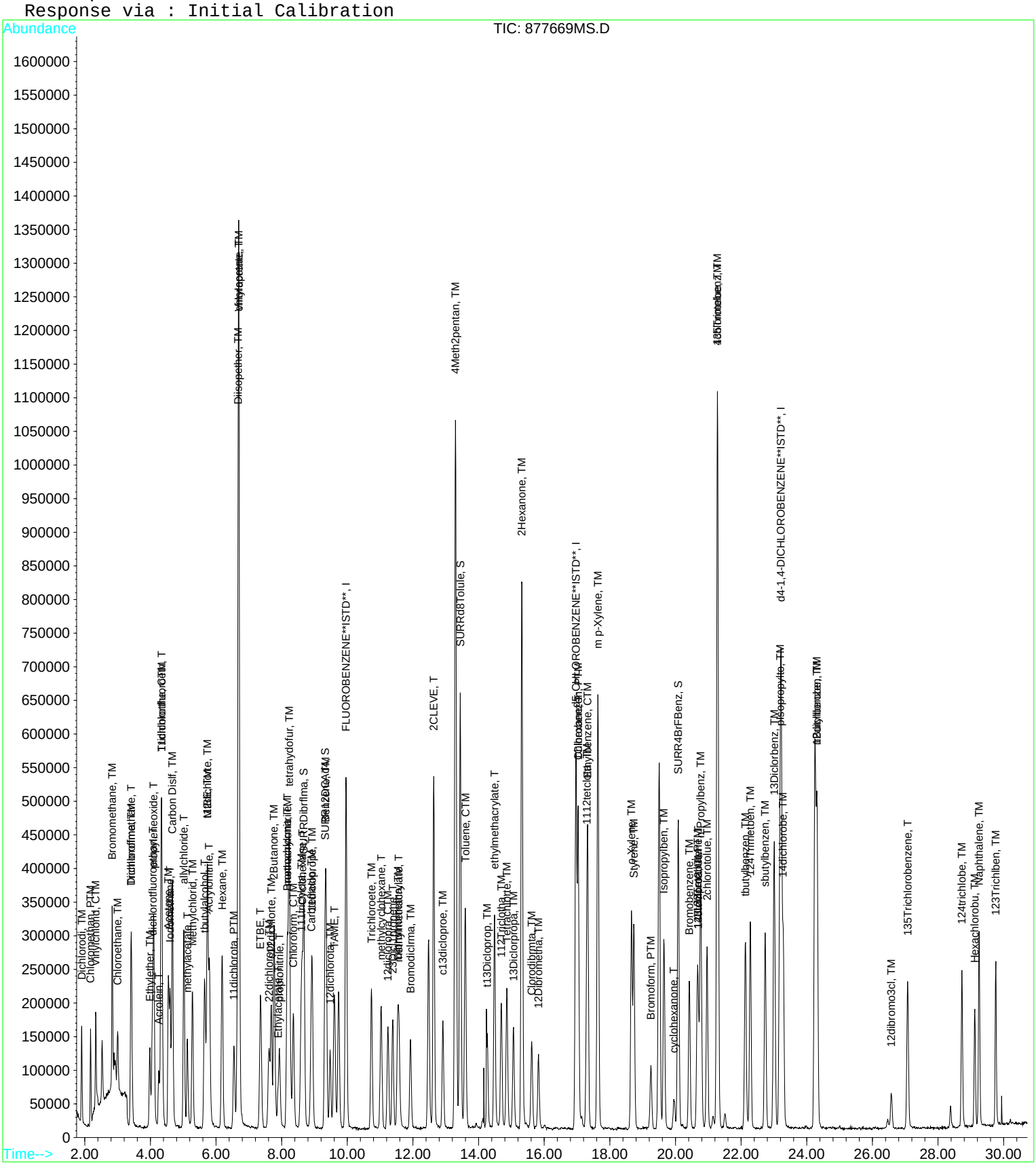
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Naphthalene	29.25	128	432799	0.4246	mg/kg	99
103) 123Trichlben	29.76	180	129417	0.4264	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877669MS.D Vial: 35
Acq On : 9 Dec 2010 14:59 Operator: APG
Sample : 72301,MSS877669,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 9 15:30 2010 Quant Results File: PS120210.RES

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 10 11:51:27 2010
Response via : Initial Calibration



Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877669SD.D Vial: 36
Acq On : 9 Dec 2010 15:37 Operator: APG
Sample : 72301,MSDS877669,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 9 16:08 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	9.97	96	959283	1.00	mg/kg	0.04 NA%
66) d5-CHLOROBENZENE**ISTD**	16.96	117	744096	1.00	mg/kg	0.04 NA%
79) d4-1,4-DICHLOROBENZENE**IS	23.22	152	403632	1.00	mg/kg	0.04 NA%
System Monitoring Compounds						
42) SURRDibrflma	8.68	113	323476	0.975	mg/kg	0.04
Spiked Amount 0.950	Range 77 - 121		Recovery = 103 %			
45) SURR12DCAd4	9.32	102	77607	0.987	mg/kg	0.04
Spiked Amount 0.950	Range 77 - 119		Recovery = 104 %			
59) SURRd8Tolule	13.44	98	906451	0.973	mg/kg	0.04
Spiked Amount 0.950	Range 84 - 126		Recovery = 102 %			
81) SURR4BrFBenz	20.08	95	333953	0.949	mg/kg	0.04
Spiked Amount 0.950	Range 88 - 128		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.91	85	161392	0.5214	mg/kg	98
3) Chloromethan	2.18	50	160004	0.5268	mg/kg	95
4) Vinylchlorid	2.34	62	175287	0.4879	mg/kg	97
5) Bromomethane	2.84	94	170249	0.6230	mg/kg	97
6) Chloroethane	3.00	64	123236	1.5882	mg/kg	98
7) Trichlorofma	3.42	101	191165	0.4164	mg/kg	97
8) Dichloroflmethane	3.41	67	273171	0.4390	mg/kg	99
9) Ethylether	3.98	59	111308	0.4658	mg/kg	96
10) dichlorotfluoroethan	4.06	67	153504	0.4310	mg/kg	96
11) propyleneoxide	4.10	58	345022	4.2516	mg/kg	96
12) Acrolein	4.25	56	113658	2.7512	mg/kg	95
13) 11dichlorthe	4.34	96	120566	0.4662	mg/kg	95
14) Trichlorotfluoroeth	4.35	101	281889	0.9290	mg/kg	98
15) Acetone	4.55	43	469612	3.4180	mg/kg	98
16) Iodomethane	4.60	142	368074	1.0014	mg/kg	97
17) Carbon Dislf	4.67	76	830109	0.9302	mg/kg	99
18) allylchloride	5.02	41	279780	0.8824	mg/kg	96
19) methylacetate	5.13	74	75090	0.6616	mg/kg	97
20) Methylchlorid	5.28	84	169393	0.3025	mg/kg	98
21) t12dichlorte	5.75	96	144668	0.4678	mg/kg	97
22) tbutylalcohol	5.65	59	575794	15.6907	mg/kg	80
23) MtBE	5.75	73	388151	0.4632	mg/kg#	55
24) Acrylonitrile	5.80	53	286156	2.1799	mg/kg	99
25) Hexane	6.19	57	246503	0.9014	mg/kg	98
26) 11dichlorota	6.55	63	197678	0.4510	mg/kg	99
27) Vinylacetate	6.69	43	2297797	4.1370	mg/kg	99
28) chloroprene	6.69	53	301131	0.9289	mg/kg	100
29) Diisopether	6.66	45	376795	0.4508	mg/kg#	80
30) ETBE	7.35	59	344159	0.4380	mg/kg	99
31) 22dichloropr	7.62	77	148414	0.4174	mg/kg	97
32) c12dichlorte	7.68	96	150271	0.4619	mg/kg	98
33) 2Butanone	7.76	43	664998	3.7456	mg/kg	99
34) Ethylacetate	7.89	43	109037	0.3393	mg/kg	99
35) propionitrile	7.93	54	194236	3.8010	mg/kg	98
36) Bromochlorma	8.16	128	81851	0.4572	mg/kg	99
37) methacrylonitrile	8.19	67	132078	0.8401	mg/kg	95
38) tetrahydofur	8.23	42	428764	4.0964	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877669SD.D Vial: 36
Acq On : 9 Dec 2010 15:37 Operator: APG
Sample : 72301,MSDS877669,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 9 16:08 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	8.35	83	225203	0.4461 mg/kg	99
40)	111trichlota	8.59	97	179729	0.4641 mg/kg	98
41)	Cyclohexane	8.63	56	163695	0.4615 mg/kg	96
43)	Carbtetraclo	8.91	119	149583	0.4570 mg/kg	99
44)	11dicloprope	8.92	110	61298	0.4469 mg/kg	97
46)	Benzene	9.36	78	468203	0.4607 mg/kg	97
47)	12dichlorota	9.48	62	159485	0.4687 mg/kg	98
48)	TAME	9.60	73	369900	0.4371 mg/kg	99
49)	Trichloroete	10.74	95	127868	0.4578 mg/kg	100
50)	methylcyclohexane	11.03	83	168862	0.4464 mg/kg	97
51)	12dicloropra	11.24	63	106654	0.4379 mg/kg	99
52)	23Dicl1propene	11.38	75	183231	0.4464 mg/kg	99
53)	Dibromometha	11.53	93	102267	0.4206 mg/kg	98
54)	methylmethacrylate	11.57	69	98928	0.4487 mg/kg	97
55)	Bromodiclrma	11.93	83	164160	0.4565 mg/kg	98
56)	2CLEVE	12.63	63	443865	2.2011 mg/kg	98
57)	c13dicloproe	12.91	75	177345	0.4353 mg/kg	98
58)	4Meth2pentan	13.29	43	1386910	4.1441 mg/kg	98
60)	Toluene	13.60	92	301949	0.4597 mg/kg	99
61)	t13Dicloprop	14.27	75	142105	0.3852 mg/kg	97
62)	ethylmethacrylate	14.48	69	353210	0.9070 mg/kg	99
63)	112Triclotha	14.69	83	102416	0.4434 mg/kg	99
64)	Tetrachlorte	14.86	166	128696	0.4397 mg/kg	98
65)	13Diclorpropa	15.07	76	188199	0.4298 mg/kg	97
67)	2Hexanone	15.32	43	1043184	3.9053 mg/kg	98
68)	Clorodibrmta	15.63	129	134711	0.4088 mg/kg	99
69)	12Dibrometha	15.82	107	145659	0.4240 mg/kg	96
70)	1Clhexane	17.03	55	94233	0.4390 mg/kg	96
71)	Chlorobenzen	17.04	112	348478	0.4372 mg/kg	99
72)	1112tetclota	17.30	131	110105	0.4232 mg/kg	97
73)	Ethylbenzene	17.33	91	545960	0.4485 mg/kg	100
74)	m p-Xylene	17.64	106	434442	0.9114 mg/kg	97
75)	o-Xylene	18.67	106	205660	0.4376 mg/kg	99
76)	Styrene	18.74	104	346508	0.4420 mg/kg	99
77)	Bromoform	19.25	173	90260	0.3989 mg/kg	97
78)	Isopropylben	19.65	105	436113	0.3836 mg/kg	99
80)	cyclohexanone	19.96	55	45212	4.7908 mg/kg	97
82)	Bromobenzene	20.43	156	152235	0.4359 mg/kg	96
83)	1122Tetrclta	20.67	83	176015	0.4115 mg/kg	98
84)	123triclproa	20.69	75	126901	0.4268 mg/kg	96
85)	n-Propylbenz	20.76	91	570312	0.4306 mg/kg	100
86)	14dichloro2butene	20.69	75	126901	0.4268 mg/kg#	92
87)	2chlorotolue	20.97	91	336980	0.4407 mg/kg	100
88)	4chlorotolue	21.28	91	528802	0.5935 mg/kg	84
89)	135Trimebenz	21.28	105	404634	0.4650 mg/kg	99
90)	tbutylbenzen	22.13	119	331153	0.4389 mg/kg	98
91)	124Trimetben	22.28	105	387228	0.4414 mg/kg	100
92)	sbutylbenzen	22.73	105	465763	0.4253 mg/kg	99
93)	13Diclorbenz	23.02	146	252436	0.4351 mg/kg	99
94)	pIsopropylto	23.17	119	425983	0.4860 mg/kg	99
95)	14dichlorobe	23.28	146	263705	0.4281 mg/kg	99
96)	12dichlorobe	24.30	146	249962	0.4297 mg/kg	99
97)	nButylbenzen	24.32	91	349845	0.4402 mg/kg	98
98)	12dibromo3cl	26.58	157	34342	0.3687 mg/kg	95
99)	135Trichlorobenzene	27.07	180	162251	0.4317 mg/kg	99
100)	124trichlobe	28.72	180	141091	0.4220 mg/kg	98
101)	Hexachlorobu	29.13	225	58516	0.4283 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877669SD.D Vial: 36
Acq On : 9 Dec 2010 15:37 Operator: APG
Sample : 72301,MSDS877669,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
 Quant Time: Dec 9 16:08 2010 Quant Results File: PS120210.RES

Quant Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Wed Dec 08 09:04:34 2010
Response via : Initial Calibration
DataAcq Meth : PS120210

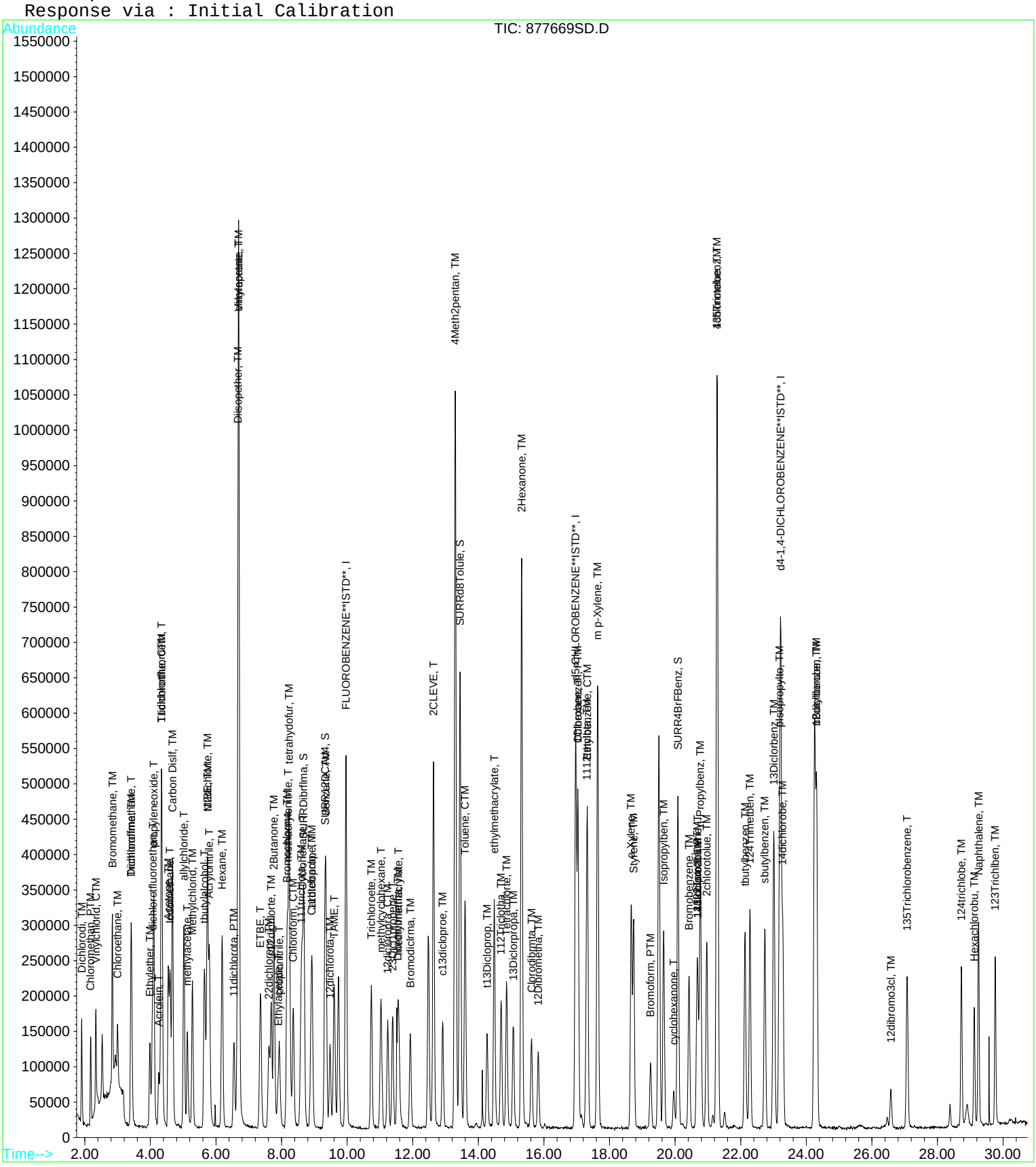
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Naphthalene	29.25	128	433454	0.4174 mg/kg	99
103) 123Trichlben	29.76	180	125950	0.4073 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\VMS1\DATA\DEC0810\877669SD.D Vial: 36
Acq On : 9 Dec 2010 15:37 Operator: APG
Sample : 72301,MSDS877669,1 Inst : VMS1
Misc : 1.0 mL Ext/5.0 mL PURGED + ISTD/SSTD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 9 16:08 2010 Quant Results File: PS120210.RES

Method : C:\INSTARCH\VMS1\METHODS\PS120210.M (RTE Integrator)
Title : VOC 8260
Last Update : Fri Dec 10 11:51:27 2010
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
LOGBOOK
DOCUMENTS

VOC 8260 QSM SOIL Analytical Run
72301 on 12/7/2010

Date Analyzed: 12/8/10

Date Entered: 12/13/10 APG

Date Reviewed: _____

Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82743	877662	ASTU5-VOC-B	12/2/2010 1355		USACE - LOUISVILLE	RAVENNA	VOC 8260 QSM	35675	S	4	
82743	877663	ASTU5-VOC-S	12/2/2010 1350		USACE - LOUISVILLE	RAVENNA	VOC 8260 QSM	35675	S	4	
82743	877667	DLASS-033-0001-SO	12/2/2010 1045		USACE - LOUISVILLE	RAVENNA	VOC 8260 QSM	35675	S	4	
82743	877668	DLASS-043-0001-SO	12/2/2010 1110		USACE - LOUISVILLE	RAVENNA	VOC 8260 QSM	35675	S	4	
82743	877669	DLASS-003-0001-SO	12/2/2010 0930	Designated MS/MSD	USACE - LOUISVILLE	RAVENNA	VOC 8260 QSM	35675	S	4	
82743	877670	DLASS-003-0002-SO	12/2/2010 0935		USACE - LOUISVILLE	RAVENNA	VOC 8260 QSM	35675	S	4	
82743	877671	DLASS-023-0001-SO	12/2/2010 0950		USACE - LOUISVILLE	RAVENNA	VOC 8260 QSM	35675	S	4	
82743	877672	DLASS-015-0001-SO	12/2/2010 1020		USACE - LOUISVILLE	RAVENNA	VOC 8260 QSM	35675	S	4	
	878679			MBS			VOC 8260 QSM	35675			
	878680			LCSS			VOC 8260 QSM	35675			
	878681	DLASS-003-0001-SO	12/2/2010 0930	MSS 877669			VOC 8260 QSM	35675			
	878682	DLASS-003-0001-SO	12/2/2010 0930	MSDS 878681			VOC 8260 QSM	35675			

12 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil/Sg-Sludge/GW-GroundWater/M-Misc Waste/SW-Surface Water/A-Air/WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 12/7/2010

Prep Batch 35,675

Prepped By:: APG

Date Prepped: 12/7/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	878679	MBS		VOC 8260 QSM	SOLID	10.0	10.0			
	878680	LCSS		VOC 8260 QSM	SOLID	10.0	10.0			
82743	877662			VOC 8260 QSM	SOIL	5.0	5.77		N	
	877663			VOC 8260 QSM	SOIL	5.0	4.52		N	
	877667			VOC 8260 QSM	SOIL	5.0	6.22		N	
	877668			VOC 8260 QSM	SOIL	5.0	6.68		N	
	877669	*		VOC 8260 QSM	SOIL	5.0	5.91		N	
	877670			VOC 8260 QSM	SOIL	5.0	5.09		N	
	877671			VOC 8260 QSM	SOIL	5.0	5.83		N	
	877672			VOC 8260 QSM	SOIL	5.0	6.23		N	
	878681	MSS	877669	VOC 8260 QSM	SOIL	5.0	4.68			
	878682	MSDS	878681	VOC 8260 QSM	SOIL	5.0	5.69			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

VOC SOILS PRESERVED - PREP BENCHSHEET

Prep Batch #:	35675
Method:	8260
Analyst:	APG
Date:	12/07/2010
Time:	11:10

NON-LUST

	Sample ID			Sample Weight (g)		MeOH Added (mL)
1	877662			5.77		5.0
2	877663			4.52		5.0
3	877667			6.22		5.0
4	877668			6.68		5.0
5	877669			5.91		5.0
6	877670			5.09		5.0
7	877671			5.83		5.0
8	877672			6.23		5.0
9						
10	MS877669			4.68		5.0
11	MSD877669			5.69		5.0
12						
13						
14						
15						
16						
17						
18						
19						
20						

*Samples are preserved at a 1:1 ratio, weight to volume with methanol

VMS1

Sequence Date 12/8/10 Method 8260 Matrix Soil Loaded By AP6

	Sample ID #	Dilution 1:	pH for Waters	Comments
1	BFB1			50µL
2	IB1			
3	CCV1			0.5 | 5.0 mg/kg
4	LCS1			↓
5	MB1			
6	877662			
7	877667			
8	877668			
9	877669			
10	877670			
11	877671			
12	877672			
13	877680			
14	877681			
15	877682			
16	877683			
17	877684			
18	877685			
19	877663			
20	IB2			
21	DA992			moist/total
22	445E36			↓
23	BFB2			
24	IB3			
25	CCV2			
26	CCB1			
27	IB4			
28	CCV3			0.5 | 5.0 mg/kg
29	IB6			
30	877686			
31	877687			
32	877688			
33	877689			
34	877690			
35	877664MS			0.5 | 5.0 mg/kg
36	877664SD			↓
37	877687MS			
38	877687SD			
39	IB7			moist 112910-03
40				

Unless otherwise specified, waters are loaded undiluted and soil extracts are loaded at 1.0 ml / 50.0 ml of DI Water.

Standard References, Standards Log Book

	Concentration (µg/ml)	Preparation Date	Standard Prep Number
8260 ISTD	80		
8260 SSTD	100		
8260 ISTD/SSTD	80	12/2/10	V8260 3183
8260 BFB STANDARD	50	↓	V8260 3180
8260 ICV/SPIKING STD	100/1000	↓	V8260 3184
8260 CCV/CALIB. STD.	100/1000		V8260 3185

Reviewed By:_____

INDEPENDENT DATA REVIEW CHECKLIST			Method: GCMS (EPA SW-846 8260)					
Analysis Date	LIMs Run #(s):	Analyst/Data Interpreter	Independent Reviewer	Date of Review	Approved?			Instrument
					Yes	No		
12/8/2010	72301,72302	APG	RLD	12/13/2010	Yes			VMS-1
Instructions: Complete one checklist per analytical run. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section and may require the initiation of a Nonconformance Report.								

Requirement:	Acceptance criteria	Analyst Review		Independent Review		Comments:
		Yes	No	Yes	No	
I. BFB Tune Check						
Was a BFB tune check analyzed with acceptable results?	Relative abundancecriteria met?	Yes		Yes		
II. Initial Calibration Verification (ICV)						
Was initial calibration performed using a minimum of five standard concentratrion levels?	Lowest standard at or near MDL/LOD?	Yes		Yes		
Were System Performance Check (SPC) compounds acceptable?	Avg. RRF> 0.1; 0.3?	Yes		Yes		IF no, analyses stopped
Were the Calibration Check (CC) compounds average RF's less than 15% deviation ? (Or alternatively no greater than 30% if generating results using linear regression?)		Yes		Yes		IF no, analyses stopped
Was an ICV analyzed?		Yes		Yes		
Were SPC compounds acceptable?	RRF> 0.1; 0.3?	Yes		Yes		IF no, analyses stopped
Were CC compounds acceptable?	%D < 20%	Yes		Yes		IF no, analyses stopped
Were all other compounds acceptable?	%D < 20% or project/progam specific	Yes		Yes		IF no, reanalyzed ICV to address failures
Was Initial Calibration Blank (ICB) analyzed?		Yes		Yes		
Were the ICB results for all target analytes less than the limit of detection (LOD).	<LOD or < project/program specific limits	Yes		Yes		IF no, another calibration blank analyzed
III. Continuing Calibration Verification (CCV)						
Was an acceptable BFB tune check run at the beginningof every twelve hour shift?	Relative abundance criteria met?	Yes		Yes		
Was a CCV analyzed after every 12 hour tune check?		Yes		Yes		
Were SPC compounds acceptable?	Avg. RRF> 0.1; 0.3?	Yes		Yes		IF no, analyses stopped
Were CC compounds acceptable?	%D < 20%	Yes		Yes		IF no, analyses stopped
Were all other compounds acceptable?	%D < 20% or project/progam specific		No		No	
If applicable, did the number of failures exceed sporatic marginal failure limits?	<10% failing or see project/program limits		No		No	If yes, samples reanalyzed
If necessary, were the results for outlying compounds qualified?		Yes		Yes		If yes, results qualified "Z"

IV. Blanks						
Was a Method Blank (MB) analyzed prior to analysis of samples?		Yes		Yes		
Were the MB results for all target analytes less than the limit of detection (LOD)?	*All target analytes <LOD or < project/program specific limits		No		No	*see SOP for more detailed criteria
If analytes were detected in the MB with no associated positives in the samples, no further action is needed. If the analyte detects in the MB were greater than the acceptance criteria and there were detects in the samples, was the data qualified.?		Yes		Yes		If yes, affected results qulified "B"
V. Laboratory Control Spike (LCS)						
Was a LCS analyzed at the required frequency?	1 per 20 samples or project/program specific.	Yes		Yes		
Were the LCS recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.		No		No	Chloroethane failed high. No Flag
If applicable, were associated sample detects (and non-detects for low recoveries) qualified?		Yes		Yes		If yes, affected results qualified "Q"
Was the LCS a second source to the initial calibration standards?		Yes		Yes		
VI. Matrix Spike/Matrix Spike Duplicate (MS/MSD)						
Was a Martrix Spike (MS) and a Matrix Spike Duplicate (MSD) analyzed at the required frequency?	1 per 20 samples or project/program specific.	Yes		Yes		
Were the MS/MSD recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.		No		No	
If No, were detects in the parent sample qualified, and were nondetects for analytes with low MS/MSD recoveries also qualified?		Yes				If yes, affected results qualified "M"
Is the relative percent difference (RPD) for each analyte between the MS and MSD acceptable?	Default 20%, or see internally generated limits, or client specific	Yes		Yes		If no, affected results qualified "Y"
VII. Sample Analyses						
Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		Yes		Yes		
Were surrogate recoveries for all samples and QC within acceptance criteria?	Default 70-130%, or see internally generated program limits, or client specified limits.	Yes		Yes		If no, samples with high surrogate recoveries and no associated analyte detects were not reanalyzed
If possible, were the affected samples reanalyzed?						IF no, see below **
**Were reported sample results with failing surrogate recoveries qualified?						If yes, affected results qualified "S"
Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed? If not qualify (X).	Target upper middle range of calibration curve.	Yes		Yes		
Did all samples meet hold time and preservation criteria as defined by method/program?	pH < 2 = 14 days, pH >2 = 7 days. (other criteria may apply)	Yes		Yes		If analyzed past hold, qualify "H" If improperly preserved qualify "T"
Was a sample with detects between LOD and 5x LOD reanalyzed if following a sample with high level detects exceeding calibration range?	Detects are not attributed to carryover	Yes		Yes		
Were all samples and QC injected within 12 hours of BFB tune check?		Yes		Yes		If no, affected samples reanalyzed
Were internal standard recoveries acceptable relevant to associated CCV?	Response = -50 to +200%; Ret. time = +/- 30 sec.	Yes		Yes		If no, affected samples reanalyzed

VIII. Records and Reporting						
Is sequence file / injection log present in the data package?		Yes		Yes		
Were all data, calculations, and values verified in LIMS upon completion of data capture?		Yes		Yes		
Were reported results with amounts exceeding acceptance criteria flagged with appropriate qualifier and, if needed, a NCR completed?		Yes		Yes		
Was the integrity of the sample kept intact? If not, was a NCR completed?		Yes		Yes		

Non-applicable cells are left blank

Comments:

pl_ilog
Injection Log Summary Report

Method : N:\METHODS\PS120210.M
Title : VOC 8260
Start (Tune) File ID : N:\DATA\DEC0810\BFB1.D
Injection Date : 8 Dec 2010 Log Time Period (hrs) : ALL
Injection Time : 07:34 Total files within period : 38
Sample Directory : N:\DATA\DEC0810\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
IB1	1.00	1.00	1.00	INSTRUMENT BLANK 5.0 mL H20 PURGED +	8 Dec 2010	07:51
CCV1	1.00	1.00	1.00	72301,CCV,1 0.5/5.0 mg/kg, 5.0 m	8 Dec 2010	08:29
LCS1	1.00	1.00	1.00	72301,LCSS,1 0.5/5.0 mg/kg, 5.0 m	8 Dec 2010	09:08
MB1	1.00	1.00	1.00	72301,MBS,1 1.0 mL Ext/5.0 mL PU	8 Dec 2010	09:47
877662	1.00	1.00	1.00	72301,877662,1 1.0 mL Ext/5.0 mL PU	8 Dec 2010	10:26
877667	1.00	1.00	1.00	72301,877667,1 1.0 mL Ext/5.0 mL PU	8 Dec 2010	11:04
877668	1.00	1.00	1.00	72301,877668,1 1.0 mL Ext/5.0 mL PU	8 Dec 2010	11:44
877669	1.00	1.00	1.00	72301,877669,1 1.0 mL Ext/5.0 mL PU	8 Dec 2010	12:22
877670	1.00	1.00	1.00	72301,877670,1 1.0 mL Ext/5.0 mL PU	8 Dec 2010	13:01
877671	1.00	1.00	1.00	72301,877671,1 1.0 mL Ext/5.0 mL PU	8 Dec 2010	13:40
877672	1.00	1.00	1.00	72301,877672,1 1.0 mL Ext/5.0 mL PU	8 Dec 2010	14:18
877663	1.00	1.00	1.00	72301,877663,1 1.0 mL Ext/5.0 mL PU	8 Dec 2010	18:50
BFB2	1.00	1.00	1.00	72301,BFB,1 50 ng	9 Dec 2010	07:34
IB3	1.00	1.00	1.00	INSTRUMENT BLANK 5.0 mL H20 PURGED +	9 Dec 2010	07:51
CCV2	1.00	1.00	1.00	72301,CCV,1 0.5/5.0 mg/kg, 5.0 m	9 Dec 2010	08:30
CCB1	1.00	1.00	1.00	72301,CCB,1 1.0 mL Ext/5.0 mL PU	9 Dec 2010	09:08
IB4	1.00	1.00	1.00	MEOH 061608-3 5.0 mL H20 PURGED +	9 Dec 2010	09:48
CCV3	1.00	1.00	1.00	72301,CCV,1 5.0 mL H20 PURGED +	9 Dec 2010	10:26
IB6	1.00	1.00	1.00	INSTRUMENT BLANK 5.0 mL H20 PURGED +	9 Dec 2010	11:05
877669MS	1.00	1.00	1.00	72301,MSS877669,1 1.0 mL Ext/5.0 mL PU	9 Dec 2010	14:59
877669SD	1.00	1.00	1.00	72301,MSDS877669,1 1.0 mL Ext/5.0 mL PU	9 Dec 2010	15:37

VMS1

Sequence Date 12/2/10 C Method 8260 Matrix Soil Loaded By AP6

	Sample ID #	Dilution 1:	pH for Waters	Comments
1	BFB1			Soil
2	IB1			
3	IB2			
4	Cals1			0.05 ug/kg
5	Cals2			0.1
6	Cals3			0.25
7	Cals4			0.5
8	Cals5			1.0
9	Cals6			1.5
10	Cals7			2.0
11	IB3			
12	Cals8			4.0
13	IB4			
14	ICV1			0.5
15	ICV2			1.5
16	IB5			
17	IB6			
18	ICB1			
19	BFB2			
20	IB7			
21	Cals1R			0.05 ug/kg
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				AP6 12/6/10
32				
33				
34				
35				
36				
37				
38				
39				
40				

Unless otherwise specified, waters are loaded undiluted and soil extracts are loaded at 1.0 ml / 50.0 ml of DI Water.

Standard References, Standards Log Book

	Concentration (µg/ml)	Preparation Date	Standard Prep Number
8260 ISTD	80	12/2/10	VOCM 3581
8260 SSTD	100		VOCM 3582
8260 ISTD/SSTD	80		VOCM 5383
8260 BFB STANDARD	50		VOCM 3580
8260.ICV/SPIKING STD	100/1000		VOCM 3584
8260 CCV/CALIB. STD.	100/1000		VOCM 3585

Reviewed By:_____

pl_ilog
Injection Log Summary Report

Method : N:\METHODS\PS120210.M
Title : VOC 8260
Start (Tune) File ID : N:\DATA\DEC0210C\BFB1.D
Injection Date : 2 Dec 2010 Log Time Period (hrs) : ALL
Injection Time : 15:37 Total files within period : 20
Sample Directory : N:\DATA\DEC0210C\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
IB1	1.00	1.00	1.00	INSTRUMENT BLANK 5.0 mL H20 PURGED +	2 Dec 2010	15:55
IB2	1.00	1.00	1.00	INSTRUMENT BLANK 5.0 mL H20 PURGED +	2 Dec 2010	16:34
CALS2	1.00	1.00	1.00	SOIL CALIB. STD. 0.10/1.00 mg/kg, 5.0	2 Dec 2010	17:51
CALS3	1.00	1.00	1.00	SOIL CALIB. STD. 0.25/2.50 mg/kg, 5.0	2 Dec 2010	18:30
CALS4	1.00	1.00	1.00	SOIL CALIB. STD. 0.5/5.0 mg/kg, 5.0 m	2 Dec 2010	19:08
CALS5	1.00	1.00	1.00	SOIL CALIB. STD. 1.00/10.0 mg/kg, 5.0	2 Dec 2010	19:47
CALS6	1.00	1.00	1.00	SOIL CALIB. STD. 1.50/15.0 mg/kg, 5.0	2 Dec 2010	20:25
CALS7	1.00	1.00	1.00	SOIL CALIB. STD. 2.00/20.0 mg/kg, 5.0	2 Dec 2010	21:04
IB3	1.00	1.00	1.00	INSTRUMENT BLANK 5.0 mL H20 PURGED +	2 Dec 2010	21:42
CALS8	1.00	1.00	1.00	SOIL CALIB. STD. 4.00/40.0 mg/kg, 5.0	2 Dec 2010	22:21
IB4	1.00	1.00	1.00	INSTRUMENT BLANK 5.0 mL H20 PURGED +	2 Dec 2010	22:59
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF 0.5/5.0 mg/kg, 5.0 m	2 Dec 2010	23:38
IB5	1.00	1.00	1.00	INSTRUMENT BLANK 5.0 mL H20 PURGED +	3 Dec 2010	00:54
IB6	1.00	1.00	1.00	INSTRUMENT BLANK 5.0 mL H20 PURGED +	3 Dec 2010	01:33
ICB1	1.00	1.00	1.00	INITIAL CALIB. BLANK 5.0 mL H20 PURGED +	3 Dec 2010	02:12
BFB2	1.00	1.00	1.00	50.0 ng BFB, DIRCT I 50 ng	3 Dec 2010	08:02
IB7	1.00	1.00	1.00	INSTRUMENT BLANK 5.0 mL H20 PURGED +	3 Dec 2010	08:19
CALS1R	1.00	1.00	1.00	SOIL CALIB. STD. 0.05/0.50 mg/kg, 5.0	3 Dec 2010	10:18

Standard Prep	Log ID# / Concentration	Dilution solvent Lot #	prep	Final Conc.	Exp. Date	Prep By Date	ID #	
								1
8260 CCV/	⑥ V516 2000 ug/mL	JT Baker MeOH Lot # H46E14	150 uL of ① + 300 uL of ② & ③ + 2250 uL of MeOH	100 ug/mL	11/11/10	11/9/10	VOC04	1
Calib. Std.	⑤ V570 1000 ug/mL					AP6	3567	2
	③ V552							
8020/8021 Istd.	V559 2000 ug/mL	J.T. Baker MeOH Lot # H45E36	1 mL into 25 mL MeOH	80 ug/mL	5/11/11	11/11/10 BMS	VOC04 3568	3 4
8020/8021 Sstd.	V560 2000 ug/mL		0.5 mL into 10 mL MeOH	100 ug/mL	5/11/11	11/11/10 BMS	VOC04 3569	5 6
8020/8021 Istd/Sstd.	V559 2000 ug/mL V560 2000 ug/mL		1 mL of each into 25 mL MeOH	80 ug/mL	5/11/11	11/11/10 BMS	VOC04 3570	7 8
8020/8021 CCV Std	V574 1000 ug/mL		1 mL into 10 mL MeOH	100 ug/mL	5/11/11	11/11/10 BMS	VOC04 3571	9 10
8020/8021 ICV/Spiking Std.	V567 1000 ug/mL		1 mL into 10 mL MeOH	100 ug/mL	5/11/11	11/11/10 BMS	VOC04 3572	11 12
8260 BFB	V502 2000 ug/mL		750 uL 4-BFB + 2925 uL MeOH	50 ug/L	11/23/10	11/16/10 AP6	VOC04 3573	13 14
8260 ISTD	V573 2500 ug/mL		320 uL of Std. into 10 mL VFV MeOH	80 ug/L			VOC04 3574	15 16
8260 SSTD	① V552 2500 ug/mL ② V539 2000 ug/mL		120 uL of ① + 150 uL of ② + 2730 uL of MeOH	100 ug/L			VOC04 3575	17 18
8260 ISTD/SSTD	① V573 ② V552 > 2500 ug/mL ③ V539 2000 ug/mL		320 uL of ① & ② + 400 uL of ③ into 10 mL VFV MeOH	80 ug/mL			VOC04 3576	19 20
8260 ICV/ Spiking Std.	④ V540 2000 ug/mL ⑤ V581 1000 ug/mL		150 uL of ① + 300 uL of ② & ③ + 2250 uL of MeOH	100 ug/mL			VOC04 3577	21 22
8260 CCV/ Calib. Std	⑥ V580 1000/10000 ug/mL ③ V582 1000 ug/mL			100 ug/mL			VOC04 3578	23 24
8020/8021 Istd/Sstd	V576 2000 ug/mL V560 2000 ug/mL		1 mL of each into 25 mL MeOH	80 ug/mL	5/16/11	11/16/10 BMS	VOC04 3579	25 26
8260 BFB	V502 2000 ug/mL		750 uL of Std. into + 2925 uL of MeOH	50 ug/L	12/9/10	AP6 12/2/10	VOC04 3580	27 28
8260 ISTD	V573 2500 ug/mL		320 uL of Std. into 10 mL VFV MeOH	80 ug/L			VOC04 3581	29 30
8260 SSTD	① V552 2500 ug/mL ② V539 2000 ug/mL		120 uL of ① + 150 uL of ② + 2730 uL of MeOH	100 ug/L			VOC04 3582	31 32
								33

		1	2	3	4	5	6
	Standard Prep	Log ID # Concentration	Dilution Solvent	Prep	Final Conc.	Exp. Date	Prep By Date	ID #
1	8260	OV573 — 2500 µg/L OV552	JT Baker meoH Lot # H46544	320 µL + ⓘ & ⓙ 4 400 µL + ⓘ No 10 mL ⓚ V meoH	80 µg/mL	12/9/10	AP	VOC04
2	ISTD/SSTD	OV539 2000 µg/L					12/2/10	3583
3	8260 ICV	OV540 2000 µg/L OV529 1000/100000 µg/L		150 µL + ⓘ & 200 µL + ⓘ & ⓙ 4 2250 µL + meoH	100 µg/L			VOC04
4	Spiking Std.	OV581 1000 µg/L						3584
5	8260 CCV	OV568 2000 µg/L OV580 1000/100000 µg/L			100 µg/mL			VOC04
6	Calib - Std	OV582 1000 µg/mL						3585
7	8260					12/20/10	AP	VOC04
8	BFB						12/13/10	3586
9	8260 ICV							VOC04
10	Spiking Std							3587
11	8260 CCV							VOC04
12	Calib. Std.							3588
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CTI VOLATILE STANDARDS LOGBOOK 1

CTI STANDARD NUMBER (EXAMPLE = CTIV001*)	COMPOUND or SOLUTION NAME	COMPOUND / SOLUTION SUPPLIER	STANDARD'S PART NUMBER	STANDARD'S LOT #	STANDARD CONCENTRATION [1] and EXPIRATION DATE	NEAT (N) or SOLUTION (S) (If neat list % purity, if solution list solvent)	DATE REC'D and ANALYST'S INITIALS	COMMENTS
V514	8260 Add	SPEX XQ-3754	C1090701004		1000 ug/mL/10,000 ug/mL 8/30/12	MeOH	1/8/09 BMS	3 x 1
V515	1,2-Dcm-d4	ultra-Sci	STS-210	CC-2980	2000ug/mL oct-2010	meoh	8/1/10 AP6	4 x 1
V516	8260 Voc Mix	ULTRA	DWM-588	CF-3011	2000 ug/ml Aug-2012	MeOH	8/28/09 BMS	4 x 1
V517	8260 ISTD.	RESTEK	30241	A065778	2,500 ug/ml Feb-2014	MeOH	9/1/09 BMS	4 x 1
V518	8260 SSTD.	RESTEK	30240	A067082	2,500 ug/ml 4/2014	MeOH	9/1/09 BMS	3 x 1
V519	8260 Spe Add.	SPEX	XQ-4006	C1090612010	1000 ug/mL 9/10/10	meoh	9/15/09 AP6	3 x 1
V520	8260 Spe. Add.	SPEX	XQ-4006	C1090612011	1000 ug/mL 9/10/10	meoh	9/15/09 AP6	3 x 1
V521	T-Butyl ethyl eth	SPEX	S-645	C1090527008	1000 ug/mL 9/9/12	meoh	9/15/09 AP6	2 x 1
V522	T-Amyl methyl eth	SPEX	S-265	C1090773003	1000 ug/mL 9/9/12	meoh	9/15/09 AP6	2 x 1
V523	1,3,5-Trichlorobenz	SPEX	S-3590	R1041207010	1000 ug/mL 9/9/12	meoh	9/15/09 AP6	2 x 1
V524	8260 Add	SPEX	XQ-3754	C1091013007	1000/10,000 ug/mL 1/12/10	MeOH	10/19/09 BMS	3 x 1
V525	8260 Add	SPEX	XQ-3754	C1091013008	1000/10,000 ug/mL 1/12/10	MeOH	10/19/09 BMS	3 x 1
V526	Pentyl Acetate	SPEX	S-2976	T1091009002	1000 ug/mL 10/14/10	MeOH	10/19/09 BMS	2 x 1
V527	Methanol	SPEX	S-2380	C1090626004	1000 ug/mL 10/14/12	DI H_2O	10/21/09 BMS	1
V528	1-Butanol	SPEX	S-610	R1041116004	1000 ug/mL 10/14/12	MeOH	10/21/09 BMS	2 x 1
V529	2-Nitropropane	SPEX	S-2732	R1040713002	1000 ug/mL 10/14/12	MeOH	10/21/09 BMS	2 x 1
V530	2-methyl-1-propanol	SPEX	S-2585	R1040517005	1000 ug/mL 10/14/12	MeOH	10/21/09 BMS	2 x 1
V531	Acetic Acid 2-methyl- butyl ester	TCI America	A1076	AYO1	neat 10/26/10	—	10/26/09 AP6	1 bottle (25 mL)
V532	Pentachloroethane	SPEX	S-2940	R1031215007	1000 ug/mL 10/21/12	MeOH	10/28/09 BMS	2 x 1

*= If multiple vials of the same lot number and expiration date are received the standard will be given one CTI Standard # and each vial will have a alpha designation asigned to it. (Example = Three vials of DRO standard solution, CTI001A-C)

1= If multiple analytes and all of the concentrations vary, mark VARIES.

CTI VOLATILE STANDARDS LOGBOOK 1

CTI STANDARD NUMBER (EXAMPLE = CTIV001*)	COMPOUND or SOLUTION NAME	COMPOUND / SOLUTION SUPPLIER	STANDARD'S PART NUMBER	STANDARD'S LOT #	STANDARD CONCENTRATION [1] and EXPIRATION DATE	NEAT (N) or SOLUTION (S) (If neat list % purity, if solution list solvent)	DATE REC'D and ANALYST'S INITIALS	COMMENTS
V533	Allyl chloride	SPEX	S-210	R107021601 2	1000 ug/mL 10/21/12	MeOH	10/28/09 BMS	2x1
V534	Ethyl methacrylate	SPEX	S-1975	D108101400 2	1000 ug/mL 10/21/12	MeOH	10/28/09 BMS	2x1
V535	2-Chloro-1,3-butadiene	SPEX	S-930A	C1091007003	1000 ug/mL 10/22/11	MeOH	10/28/09 BMS	2x1
V536	Methacrylonitrile	SPEX	S-2375	R1040119005	1000 ug/mL 10/21/12	MeOH	10/28/09 BMS	2x1
V537	Hexachloroethane	SPEX	S-2155	T1090820014	1000 ug/mL 10/21/12	MeOH	10/28/09 BMS	2x1
V538	2-Methyl-1-Propanol	SPEX	S-2585	M1091103005	1000 ug/mL 11/12/12	meoH	11/5/09 MG	2x1
V539	1,2-dichlorobenzene-d4	ULTRA	STS-210	CC-2980A	2000 ug/mL 11/12/12	MeOH	12/2/09 BMS	4x1
V540	8260 VOC Mix	AccuStandard	M-502-10X	209061075	2000 ug/mL 06/08/12	MeOH	12/21/09 BMS	5x1
V541	8260 Istd.	SPEX	8260A-I	R1040621002	2000 ug/mL 12/16/12	MeOH	01/05/10 BMS	1
V542	8260 Sstd.	SPEX	8260A-S	R1061102006	2000 ug/mL 12/16/12	MeOH	01/05/10 BMS	1
V543	8260 surr. std	Restek	30240	A068324	2500 ug/mL 6/14	meoH	1/6/10 APG	2x1
V544	8260 int. std	Restek	30241	A065778	2500 ug/mL 2/14	meoH	1/6/10 APG	3x1
V545	Fluorobenzene	Ultra	STS-160	CE-4128	2000 ug/mL 12/12	MeOH	01/28/10 BMS	4x1
V546	ααα-trifluorotoluene	Ultra	STS-220N	CE-1903	2000 ug/mL 6/12	MeOH	01/28/10 BMS	4x1
V547	8260 Addition	SPEX	XQ-3754	C1100303006	1000/10,000 ug/mL 6/16/10	MeOH	03/19/10 BMS	2x1
V548	8260 Addition	SPEX	XQ-3754	C1100303007	1000/10,000 ug/mL 6/16/10	MeOH	03/19/10 BMS	2x1
V549	8260 Special Add'n	SPEX	XQ-4006	C1100304015	1000 ug/mL 9/14/10	MeOH	03/19/10 BMS	2x1
V550	8260 Special Add'n	SPEX	XQ-4006	C1100317006	1000 ug/mL 9/14/10	MeOH	03/19/10 BMS	2x1
V551	unleaded gas std	Restek	30205	A070008	50000 ug/mL 10/16	meoH	4/20/10 APG	2x1

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CTI STANDARD NUMBER (EXAMPLE = CTIV001*)	COMPOUND or SOLUTION NAME	COMPOUND / SOLUTION SUPPLIER	STANDARD'S PART NUMBER	STANDARD'S LOT #	STANDARD CONCENTRATION [1] and EXPIRATION DATE	NEAT (N) or SOLUTION (S) (If neat list % purity, if solution list solvent)	DATE REC'D and ANALYST'S INITIALS	COMMENTS
V552	8260 surr	Restek	30240	A070414	2500 ug/mL 9/14	MeOH	4/20/10 AP	4 x 1
V553	8260 int std	RestEK	30241	A069128	2500 ug/mL 9/14	MeOH	4/20/10 AP	4 x 1
V554	1,2 Dich-d4	~~Restek~~ ultra sci	CC-2980A ↔ STS-210		2000 ug/mL 11/12	MeOH	4/22/10 AP	4 x 1
V555	tert-Butyl ethyl ether	SPEX	C1090527008 ↔ S-645		1000 ug/mL 5/2/13	MeOH	05/05/10 Bms	2 x 1
V556	1,3,5-trichlorobenzene	SPEX	S-3590	C1100421022	1000 ug/mL 5/2/13	MeOH	05/05/10 Bms	2 x 1
V557	tert-Amyl methyl ether	SPEX	S-265	R1041206003	1000 ug/mL 5/2/13	MeOH	05/05/10 Bms	1
V558	tert-Amyl methyl ether	SPEX	S-265	C1090723003	1000 ug/mL 5/2/13	MeOH	05/05/10 Bms	1
V559	Fluorobenzene	ULTRA	STS-160	CE-4128	2000 ug/mL 12/12	MeOH	06/02/10 Bms	4 x 1
V560	para-trifluorotoluene	ULTRA	STS-220N	CE-4103	2000 ug/mL 6/12	MeOH	06/02/10 Bms	4 x 1
V561	8260 Special Add'n	SPEX	XQ-4006	C1100603012	1000 ug/mL 12/5/10	MeOH	06/11/10 Bms	2 x 1
V562	8260 Special Add'n	SPEX	XQ-4006	C1100601011	1000 ug/mL 12/5/10	MeOH	06/11/10 Bms	2 x 1
V563	Propionitrile	SPEX	S-3195	C1090826006	1000 ug/mL 6/8/14	MeOH	06/14/10 Bms	2 x 1
V564	Propionitrile	SPEX	S-3195	C1090609018	1000 ug/mL 6/8/14	MeOH	06/14/10 Bms	1
V565	8260 Add	SPEX	XQ-3754	C1100616021	2000 ug/mL 9/20/10	MeOH	6/23/10 AP	1
V566	8260 Add	SPEX	XQ-3754	C1100616018	2000 ug/mL 9/20/10	MeOH	6/23/10 AP	1
V567	PVOC/GRO Mix	Ultra Sci.	~~CF-3163~~ UST-100 RD 7/12	CF-3160	1000 ug/mL 8/31/12	MeOH	7/12/10 RD	4 x 1 mL
V568	8260 VOC Mix	Ultra Sci.	DWM-588	CG-1703	2000 ug/mL 6/30/13	MeOH	7/12/10 RD	4 x 1 mL
V569	8260 Addition	SPEX	XQ-5501	C1100630011	1000 ug/mL 1/3/11	MeOH	7/12/10 Bms	3 x 1
V570	8260 Addition	SPEX	XQ-5501	C1100630012	1000 ug/mL 1/3/11	MeOH	7/12/10 Bms	3 x 1

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7/23/10

CTI VOLATILE STANDARDS LOGBOOK 1

CTI STANDARD NUMBER (EXAMPLE = CTIV001*)	COMPOUND or SOLUTION NAME	COMPOUND / SOLUTION SUPPLIER	STANDARD'S PART NUMBER	STANDARD'S LOT #	STANDARD CONCENTRATION [1] and EXPIRATION DATE	NEAT (N) or SOLUTION (S) (If neat list % purity, if solution list solvent)	DATE REC'D and ANALYST'S INITIALS	COMMENTS
V571	8260 Special Addition	SPEX	XQ-5500-R1	C1100702005	1000 ug/mL 1/3/11	MeOH	7/12/10 BMS	3x1
V572	8260 Special Addition	SPEX	XQ-5500-R1	C1100702006	1000 ug/mL 1/3/11	MeOH	7/12/10 BMS	3x1
V573	8260 IST()	Restek	30241	A072440	2500 ug/mL 1/15	meOH	7/16/10 APb	4x1
V574	AVOC/Gromix	Restek	30095	A066306	1000 ug/mL 4/16	meOH	7/16/10 APb	~~4x1~~ 4x1
V575	124-TMB 2-methylpentane	SPEX	VO-CTWI-1	T1100910001	1000 ug/mL 9/9/13	MeOH	9/14/10 BMS	4x1
V576	Fluorobenzene	ULTRA	~~CE-4~~ STS-160	CE-4128	2000 ug/mL 12/12	MeOH	9/27/10 BMS	4x1
V577	1,2-dichlorobenzene-d4	ULTRA	STS-210	CG-1939	2000 ug/mL 6/14	MeOH	9/27/10 BMS	4x1
V578	~~SPEX~~ 2-nitro propane	SPEX	S-2732	R1040713002	1000 ug/mL 10/13	meoH	10/27/10 APb	2x1
V579	8260 Addition	SPEX	VO-CTWI-4	C1101029006	1000 ug/mL 5/7/11	MeOH	11/12/10 BMS	2x1
V580	8260 Addition	SPEX	VO-CTWI-4	C1101029007	1000 ug/mL 5/7/11	MeOH	11/12/10 BMS	2x1
V581	8260 Special Addition	SPEX	VO-CTWI-5	C1101101002	1000 ug/mL 5/7/11	MeOH	11/12/10 BMS	2x1
V582	8260 Special Addition	SPEX	VO-CTWI-5	C1101101003	1000 ug/mL 5/7/11	MeOH	11/12/10 BMS	2x1
V583	4-Bromofluorobenzene	ULTRA	STS-110N	CF-5373	2000 ug/mL 1/14	MeOH	11/19/10 BMS	4x1
V584	~~para~~-trifluorotoluene	ULTRA	STS-220N	CE-1903	2000 ug/mL 6/12	MeOH	11/19/10 BMS	4x1

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SEMI-VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL SUMMARY
DOCUMENTS

CT LABORATORIES
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1B

SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DAASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	10.03 (g/L)	CTL Sample ID:	877664
% Solids:	98.3	Date Received:	12/03/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/08/2010 / 16:30
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35715
Analytical Run #:	72515	Dilution Factor:	10.00
Date & Time Analyzed:	12/15/2010 / 15:32	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
206-44-0	Fluoranthene	9000		260	1000	4100	4100
85-01-8	Phenanthrene	5500		260	1000	4100	4100
129-00-0	Pyrene	6200		260	1000	4100	4100

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1B

SEMIVOLATILE ORGANICS ANALYSIS

Sample Description: **DAASS-041-0001-SO**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	10.03 (g/L)	CTL Sample ID:	877664
% Solids:	98.3	Date Received:	12/03/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/08/2010 / 16:30
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35715
Analytical Run #:	72515	Dilution Factor:	1.00
Date & Time Analyzed:	12/15/2010 / 20:10	GPC Cleanup Date/Time:	12/12/2010 / 16:00
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
Concentration Units:	ug/kg		

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
120-82-1	1,2,4-Trichlorobenzene	21	U	21	100	410	410
95-50-1	1,2-Dichlorobenzene	24	U	24	100	410	410
541-73-1	1,3-Dichlorobenzene	20	U	20	100	410	410
106-46-7	1,4-Dichlorobenzene	19	U	19	100	410	410
90-12-0	1-Methylnaphthalene	530		25	100	410	410
95-95-4	2,4,5-Trichlorophenol	130	U	130	410	510	510
88-06-2	2,4,6-Trichlorophenol	130	U	130	410	510	510
120-83-2	2,4-Dichlorophenol	120	U	120	410	510	510
105-67-9	2,4-Dimethylphenol	100	U	100	100	410	410
51-28-5	2,4-Dinitrophenol	700	U	700	1000	2000	2300
121-14-2	2,4-Dinitrotoluene	24	U	24	100	410	410
87-65-0	2,6-Dichlorophenol	140	U	140	410	510	510
606-20-2	2,6-Dinitrotoluene	24	U	24	100	410	410
91-58-7	2-Chloronaphthalene	23	U	23	100	410	410
95-57-8	2-Chlorophenol	340	U	340	410	510	1100
91-57-6	2-Methylnaphthalene	1000		25	100	410	410
95-48-7	2-Methylphenol	430	U	430	510	1000	1400
88-74-4	2-Nitroaniline	23	U	23	100	410	410
88-75-5	2-Nitrophenol	280	U	280	410	510	950
1319-77-3	3 & 4-Methylphenol	660	U	660	1000	2000	2200
91-94-1	3,3'-Dichlorobenzidine	150	U	150	410	510	510
99-09-2	3-Nitroaniline	22	U	22	410	1000	1000
534-52-1	4,6-Dinitro-2-methylphenol	270	U	270	410	1000	1000
101-55-3	4-Bromophenyl-phenyl ether	25	U	25	100	410	410

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1B

SEMIVOLATILE ORGANICS ANALYSIS

Sample Description: **DAASS-041-0001-SO**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	10.03 (g/L)	CTL Sample ID:	877664
% Solids:	98.3	Date Received:	12/03/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/08/2010 / 16:30
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35715
Analytical Run #:	72515	Dilution Factor:	1.00
Date & Time Analyzed:	12/15/2010 / 20:10	GPC Cleanup Date/Time:	12/12/2010 / 16:00
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
59-50-7	4-Chloro-3-methylphenol	390	U	390	410	510	1300
106-47-8	4-Chloroaniline	40	U	40	100	410	410
7005-72-3	4-Chlorophenyl-phenyl ether	26	U	26	100	410	410
100-01-6	4-Nitroaniline	30	U	30	410	1000	1000
100-02-7	4-Nitrophenol	410	U	410	410	1000	1300
83-32-9	Acenaphthene	660		24	100	410	410
208-96-8	Acenaphthylene	100	J	24	100	410	410
98-86-2	Acetophenone	82	J	76	100	410	410
62-53-3	Aniline	31	U	31	100	410	410
120-12-7	Anthracene	1200		24	100	410	410
103-33-3/122-66-7	Azobenzene & 1,2-Diphenylhydra	56	U	56	200	810	810
92-87-5	Benzidine	960	U	960	1000	2000	3200
56-55-3	Benzo(a)anthracene	3400		25	100	410	410
50-32-8	Benzo(a)pyrene	3200		23	100	410	410
205-99-2	Benzo(b)fluoranthene	4800		25	100	410	410
191-24-2	Benzo(g,h,i)perylene	1700		22	100	410	410
207-08-9	Benzo(k)fluoranthene	1500		25	100	410	410
65-85-0	Benzoic acid	300	U	300	510	2000	2000
100-51-6	Benzyl alcohol	84	U	84	510	1000	1000
111-91-1	Bis(2-chloroethoxy)methane	23	U	23	100	410	410
111-44-4	Bis(2-chloroethyl)ether	25	U	25	100	410	410
108-60-1	Bis(2-chloroisopropyl)ether	30	U	30	100	410	410
117-81-7	Bis(2-ethylhexyl)phthalate	360	J	88	100	1000	1000
85-68-7	Butylbenzylphthalate	74	U	74	100	410	410

CT LABORATORIES
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1B

SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DAASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	10.03 (g/L)	CTL Sample ID:	877664
% Solids:	98.3	Date Received:	12/03/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/08/2010 / 16:30
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35715
Analytical Run #:	72515	Dilution Factor:	1.00
Date & Time Analyzed:	12/15/2010 / 20:10	GPC Cleanup Date/Time:	12/12/2010 / 16:00
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
86-74-8	Carbazole	780		28	100	410	410
218-01-9	Chrysene	3400		25	100	410	410
53-70-3	Dibenzo(a,h)anthracene	460		22	100	410	410
132-64-9	Dibenzofuran	330	J	24	100	410	410
84-66-2	Diethylphthalate	65	U	65	100	410	410
131-11-3	Dimethylphthalate	64	U	64	100	410	410
84-74-2	Di-n-butylphthalate	140	J	80	100	410	410
117-84-0	Di-n-octylphthalate	60	U	60	100	410	410
86-73-7	Fluorene	540		25	100	410	410
118-74-1	Hexachlorobenzene	28	U	28	100	410	410
87-68-3	Hexachlorobutadiene	63	U	63	100	410	410
77-47-4	Hexachlorocyclopentadiene	53	U	53	100	410	410
67-72-1	Hexachloroethane	33	U	33	100	410	410
193-39-5	Indeno(1,2,3-cd)pyrene	1600		23	100	410	410
78-59-1	Isophorone	51	U	51	100	410	410
91-20-3	Naphthalene	500		21	100	410	410
98-95-3	Nitrobenzene	60	U	60	100	410	410
62-75-9	N-Nitrosodimethylamine	79	U	79	100	410	410
621-64-7	N-Nitroso-di-n-propylamine	71	U	71	100	410	410
86-30-6/122-39-4	N-Nitrosodiphenylamine & Diphn	51	U	51	200	810	810
930-55-2	N-Nitrosopyrrolidine	57	U	57	100	410	410
87-86-5	Pentachlorophenol	240	U	240	410	1000	1000
108-95-2	Phenol	160	U	160	410	510	540
110-86-1	Pyridine	40	U	40	100	410	410

CT LABORATORIES
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1B

SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DAASS-040-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	9.97 (g/L)	CTL Sample ID:	877666
% Solids:	98.2	Date Received:	12/03/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/08/2010 / 16:30
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35715
Analytical Run #:	72515	Dilution Factor:	10.00
Date & Time Analyzed:	12/15/2010 / 15:51	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
56-55-3	Benzo(a)anthracene	13000		260	1000	4100	4100
50-32-8	Benzo(a)pyrene	12000		230	1000	4100	4100
205-99-2	Benzo(b)fluoranthene	18000		260	1000	4100	4100
207-08-9	Benzo(k)fluoranthene	5400		260	1000	4100	4100
218-01-9	Chrysene	13000		260	1000	4100	4100
206-44-0	Fluoranthene	31000		270	1000	4100	4100
85-01-8	Phenanthrene	18000		270	1000	4100	4100
129-00-0	Pyrene	23000		270	1000	4100	4100

CT LABORATORIES
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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description: **DAASS-040-0001-SO**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	9.97 (g/L)	CTL Sample ID:	877666
% Solids:	98.2	Date Received:	12/03/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/08/2010 / 16:30
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35715
Analytical Run #:	72515	Dilution Factor:	1.00
Date & Time Analyzed:	12/15/2010 / 20:29	GPC Cleanup Date/Time:	12/12/2010 / 16:00
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
120-82-1	1,2,4-Trichlorobenzene	21	U	21	100	410	410
95-50-1	1,2-Dichlorobenzene	25	U	25	100	410	410
541-73-1	1,3-Dichlorobenzene	20	U	20	100	410	410
106-46-7	1,4-Dichlorobenzene	19	U	19	100	410	410
90-12-0	1-Methylnaphthalene	390	J	26	100	410	410
95-95-4	2,4,5-Trichlorophenol	130	U	130	410	510	510
88-06-2	2,4,6-Trichlorophenol	130	U	130	410	510	510
120-83-2	2,4-Dichlorophenol	120	U	120	410	510	510
105-67-9	2,4-Dimethylphenol	100	U	100	100	410	410
51-28-5	2,4-Dinitrophenol	700	U	700	1000	2000	2300
121-14-2	2,4-Dinitrotoluene	25	U	25	100	410	410
87-65-0	2,6-Dichlorophenol	140	U	140	410	510	510
606-20-2	2,6-Dinitrotoluene	25	U	25	100	410	410
91-58-7	2-Chloronaphthalene	23	U	23	100	410	410
95-57-8	2-Chlorophenol	350	U	350	410	510	1100
91-57-6	2-Methylnaphthalene	380	J	26	100	410	410
95-48-7	2-Methylphenol	430	U	430	510	1000	1400
88-74-4	2-Nitroaniline	23	U	23	100	410	410
88-75-5	2-Nitrophenol	290	U	290	410	510	960
1319-77-3	3 & 4-Methylphenol	660	U	660	1000	2000	2200
91-94-1	3,3'-Dichlorobenzidine	150	U	150	410	510	510
99-09-2	3-Nitroaniline	22	U	22	410	1000	1000
534-52-1	4,6-Dinitro-2-methylphenol	280	U	280	410	1000	1000
101-55-3	4-Bromophenyl-phenyl ether	26	U	26	100	410	410

CT LABORATORIES
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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description: **DAASS-040-0001-SO**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	9.97 (g/L)	CTL Sample ID:	877666
% Solids:	98.2	Date Received:	12/03/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/08/2010 / 16:30
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35715
Analytical Run #:	72515	Dilution Factor:	1.00
Date & Time Analyzed:	12/15/2010 / 20:29	GPC Cleanup Date/Time:	12/12/2010 / 16:00
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
59-50-7	4-Chloro-3-methylphenol	390	U	390	410	510	1300
106-47-8	4-Chloroaniline	40	U	40	100	410	410
7005-72-3	4-Chlorophenyl-phenyl ether	27	U	27	100	410	410
100-01-6	4-Nitroaniline	31	U	31	410	1000	1000
100-02-7	4-Nitrophenol	410	U	410	410	1000	1300
83-32-9	Acenaphthene	2000		25	100	410	410
208-96-8	Acenaphthylene	280	J	25	100	410	410
98-86-2	Acetophenone	77	U	77	100	410	410
62-53-3	Aniline	32	U	32	100	410	410
120-12-7	Anthracene	3200		25	100	410	410
103-33-3/122-66-7	Azobenzene & 1,2-Diphenylhydra	56	U	56	200	820	820
92-87-5	Benzidine	970	U	970	1000	2000	3300
191-24-2	Benzo(g,h,i)perylene	3700		22	100	410	410
65-85-0	Benzoic acid	300	U	300	510	2000	2000
100-51-6	Benzyl alcohol	85	U	85	510	1000	1000
111-91-1	Bis(2-chloroethoxy)methane	23	U	23	100	410	410
111-44-4	Bis(2-chloroethyl)ether	26	U	26	100	410	410
108-60-1	Bis(2-chloroisopropyl)ether	31	U	31	100	410	410
117-81-7	Bis(2-ethylhexyl)phthalate	130	J	89	100	1000	1000
85-68-7	Butylbenzylphthalate	75	U	75	100	410	410
86-74-8	Carbazole	2500		29	100	410	410
53-70-3	Dibenzo(a,h)anthracene	1700		22	100	410	410
132-64-9	Dibenzofuran	690		25	100	410	410
84-66-2	Diethylphthalate	65	U	65	100	410	410

CT LABORATORIES
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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DAASS-040-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	9.97 (g/L)	CTL Sample ID:	877666
% Solids:	98.2	Date Received:	12/03/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/08/2010 / 16:30
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35715
Analytical Run #:	72515	Dilution Factor:	1.00
Date & Time Analyzed:	12/15/2010 / 20:29	GPC Cleanup Date/Time:	12/12/2010 / 16:00
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
131-11-3	Dimethylphthalate	64	U	64	100	410	410
84-74-2	Di-n-butylphthalate	81	U	81	100	410	410
117-84-0	Di-n-octylphthalate	60	U	60	100	410	410
86-73-7	Fluorene	1600		26	100	410	410
118-74-1	Hexachlorobenzene	29	U	29	100	410	410
87-68-3	Hexachlorobutadiene	63	U	63	100	410	410
77-47-4	Hexachlorocyclopentadiene	53	U	53	100	410	410
67-72-1	Hexachloroethane	34	U	34	100	410	410
193-39-5	Indeno(1,2,3-cd)pyrene	4100		23	100	410	410
78-59-1	Isophorone	51	U	51	100	410	410
91-20-3	Naphthalene	250	J	21	100	410	410
98-95-3	Nitrobenzene	60	U	60	100	410	410
62-75-9	N-Nitrosodimethylamine	80	U	80	100	410	410
621-64-7	N-Nitroso-di-n-propylamine	71	U	71	100	410	410
86-30-6/122-39-4	N-Nitrosodiphenylamine & Diphn	51	U	51	200	820	820
930-55-2	N-Nitrosopyrrolidine	57	U	57	100	410	410
87-86-5	Pentachlorophenol	250	U	250	410	1000	1000
108-95-2	Phenol	160	U	160	410	510	540
110-86-1	Pyridine	40	U	40	100	410	410

CT Laboratories

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SEMIVOLATILE ORGANICS ANALYSIS (MB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:		SDG No.:	82743
Sample wt/vol:	10.00 (g/L)	CTL Sample ID:	879025
% Solids:		Date Received:	12/03/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/08/2010 / 16:30
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35715
Analytical Run #:	72515	Dilution Factor:	1.00
Cleanup Date/Time/Type:	12/12/2010 16:00 (GPC)		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/

Concentration Units: ug/kg

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
120-82-1	1,2,4-Trichlorobenzene	12/15/2010 14:18	200	U	200	200	
95-50-1	1,2-Dichlorobenzene	12/15/2010 14:18	200	U	200	200	
541-73-1	1,3-Dichlorobenzene	12/15/2010 14:18	200	U	200	200	
106-46-7	1,4-Dichlorobenzene	12/15/2010 14:18	200	U	200	200	
90-12-0	1-Methylnaphthalene	12/15/2010 14:18	200	U	200	200	
95-95-4	2,4,5-Trichlorophenol	12/15/2010 14:18	250	U	250	250	
88-06-2	2,4,6-Trichlorophenol	12/15/2010 14:18	250	U	250	250	
120-83-2	2,4-Dichlorophenol	12/15/2010 14:18	250	U	250	250	
105-67-9	2,4-Dimethylphenol	12/15/2010 14:18	200	U	200	200	
51-28-5	2,4-Dinitrophenol	12/15/2010 14:18	1000	U	1000	1000	
121-14-2	2,4-Dinitrotoluene	12/15/2010 14:18	200	U	200	200	
87-65-0	2,6-Dichlorophenol	12/15/2010 14:18	250	U	250	250	
606-20-2	2,6-Dinitrotoluene	12/15/2010 14:18	200	U	200	200	
91-58-7	2-Chloronaphthalene	12/15/2010 14:18	200	U	200	200	
95-57-8	2-Chlorophenol	12/15/2010 14:18	250	U	250	250	
91-57-6	2-Methylnaphthalene	12/15/2010 14:18	200	U	200	200	
95-48-7	2-Methylphenol	12/15/2010 14:18	500	U	500	500	
88-74-4	2-Nitroaniline	12/15/2010 14:18	200	U	200	200	
88-75-5	2-Nitrophenol	12/15/2010 14:18	250	U	250	250	
1319-77-3	3 & 4-Methylphenol	12/15/2010 14:18	1000	U	1000	1000	
91-94-1	3,3'-Dichlorobenzidine	12/15/2010 14:18	250	U	250	250	
99-09-2	3-Nitroaniline	12/15/2010 14:18	500	U	500	500	
534-52-1	4,6-Dinitro-2-methylphenol	12/15/2010 14:18	500	U	500	500	

CT Laboratories

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SEMIVOLATILE ORGANICS ANALYSIS (MB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:		SDG No.:	82743
Sample wt/vol:	10.00 (g/L)	CTL Sample ID:	879025
% Solids:		Date Received:	12/03/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/08/2010 / 16:30
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35715
Analytical Run #:	72515	Dilution Factor:	1.00
Cleanup Date/Time/Type:	12/12/2010 16:00 (GPC)		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
101-55-3	4-Bromophenyl-phenyl ether	12/15/2010 14:18	200	U	200	200	
59-50-7	4-Chloro-3-methylphenol	12/15/2010 14:18	250	U	250	250	
106-47-8	4-Chloroaniline	12/15/2010 14:18	200	U	200	200	
7005-72-3	4-Chlorophenyl-phenyl ether	12/15/2010 14:18	200	U	200	200	
100-01-6	4-Nitroaniline	12/15/2010 14:18	200	U	200	200	
100-02-7	4-Nitrophenol	12/15/2010 14:18	500	U	500	500	
83-32-9	Acenaphthene	12/15/2010 14:18	200	U	200	200	
208-96-8	Acenaphthylene	12/15/2010 14:18	200	U	200	200	
98-86-2	Acetophenone	12/15/2010 14:18	200	U	200	200	
62-53-3	Aniline	12/15/2010 14:18	200	U	200	200	
120-12-7	Anthracene	12/15/2010 14:18	200	U	200	200	
103-33-3/122-66-7	Azobenzene & 1,2-Diphenylhydra	12/15/2010 14:18	400	U	400	400	
92-87-5	Benzidine	12/15/2010 14:18	1000	U	1000	1000	
56-55-3	Benzo(a)anthracene	12/15/2010 14:18	200	U	200	200	
50-32-8	Benzo(a)pyrene	12/15/2010 14:18	200	U	200	200	
205-99-2	Benzo(b)fluoranthene	12/15/2010 14:18	200	U	200	200	
191-24-2	Benzo(g,h,i)perylene	12/15/2010 14:18	200	U	200	200	
207-08-9	Benzo(k)fluoranthene	12/15/2010 14:18	200	U	200	200	
65-85-0	Benzoic acid	12/15/2010 14:18	291	U	291	291	
100-51-6	Benzyl alcohol	12/15/2010 14:18	500	U	500	500	
111-91-1	Bis(2-chloroethoxy)methane	12/15/2010 14:18	200	U	200	200	
111-44-4	Bis(2-chloroethyl)ether	12/15/2010 14:18	200	U	200	200	
108-60-1	Bis(2-chloroisopropyl)ether	12/15/2010 14:18	200	U	200	200	

CT Laboratories

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SEMIVOLATILE ORGANICS ANALYSIS (MB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:		SDG No.:	82743
Sample wt/vol:	10.00 (g/L)	CTL Sample ID:	879025
% Solids:		Date Received:	12/03/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/08/2010 / 16:30
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35715
Analytical Run #:	72515	Dilution Factor:	1.00
Cleanup Date/Time/Type:	12/12/2010 16:00 (GPC)		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
117-81-7	Bis(2-ethylhexyl)phthalate	12/15/2010 14:18	500	U	500	500	
85-68-7	Butylbenzylphthalate	12/15/2010 14:18	200	U	200	200	
86-74-8	Carbazole	12/15/2010 14:18	200	U	200	200	
218-01-9	Chrysene	12/15/2010 14:18	200	U	200	200	
53-70-3	Dibenzo(a,h)anthracene	12/15/2010 14:18	200	U	200	200	
132-64-9	Dibenzofuran	12/15/2010 14:18	200	U	200	200	
84-66-2	Diethylphthalate	12/15/2010 14:18	200	U	200	200	
131-11-3	Dimethylphthalate	12/15/2010 14:18	200	U	200	200	
84-74-2	Di-n-butylphthalate	12/15/2010 14:18	200	U	200	200	
117-84-0	Di-n-octylphthalate	12/15/2010 14:18	200	U	200	200	
206-44-0	Fluoranthene	12/15/2010 14:18	200	U	200	200	
86-73-7	Fluorene	12/15/2010 14:18	200	U	200	200	
118-74-1	Hexachlorobenzene	12/15/2010 14:18	200	U	200	200	
87-68-3	Hexachlorobutadiene	12/15/2010 14:18	200	U	200	200	
77-47-4	Hexachlorocyclopentadiene	12/15/2010 14:18	200	U	200	200	
67-72-1	Hexachloroethane	12/15/2010 14:18	200	U	200	200	
193-39-5	Indeno(1,2,3-cd)pyrene	12/15/2010 14:18	200	U	200	200	
78-59-1	Isophorone	12/15/2010 14:18	200	U	200	200	
91-20-3	Naphthalene	12/15/2010 14:18	200	U	200	200	
98-95-3	Nitrobenzene	12/15/2010 14:18	200	U	200	200	
62-75-9	N-Nitrosodimethylamine	12/15/2010 14:18	200	U	200	200	
621-64-7	N-Nitroso-di-n-propylamine	12/15/2010 14:18	200	U	200	200	
86-30-6/122-39-4	N-Nitrosodiphenylamine & Diphn	12/15/2010 14:18	400	U	400	400	

CT Laboratories

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SEMIVOLATILE ORGANICS ANALYSIS (MB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:		SDG No.:	82743
Sample wt/vol:	10.00 (g/L)	CTL Sample ID:	879025
% Solids:		Date Received:	12/03/2010
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	12/08/2010 / 16:30
Analytical Method:	EPA 8270C	Analytical Prep Batch #	35715
Analytical Run #:	72515	Dilution Factor:	1.00
Cleanup Date/Time/Type:	12/12/2010 16:00 (GPC)		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
	Concentration Units:	ug/kg	

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	DL/LOD	Control Limit	RL
930-55-2	N-Nitrosopyrrolidine	12/15/2010 14:18	200	U	200	200	
87-86-5	Pentachlorophenol	12/15/2010 14:18	500	U	500	500	
85-01-8	Phenanthrene	12/15/2010 14:18	200	U	200	200	
108-95-2	Phenol	12/15/2010 14:18	250	U	250	250	
129-00-0	Pyrene	12/15/2010 14:18	200	U	200	200	
110-86-1	Pyridine	12/15/2010 14:18	200	U	200	200	

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SOIL SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

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

Analytical Method: EPA 8270C SDG: 82743

Analytical Run #: 72515

CTLab #	874693				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100		35	125	
Surr: 2-Fluorobiphenyl	100		45	105	
Surr: 2-Fluorophenol	100		35	105	
Surr: Nitrobenzene-d5	100		35	100	
Surr: Phenol-d5	100		40	100	
Surr: Terphenyl-d14	100		30	125	
CTLab #	**874694**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100		35	125	
Surr: 2-Fluorobiphenyl	100		45	105	
Surr: 2-Fluorophenol	100		35	105	
Surr: Nitrobenzene-d5	100		35	100	
Surr: Phenol-d5	100		40	100	
Surr: Terphenyl-d14	100		30	125	
CTLab #	**877664**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	59	35	125	
Surr: 2-Fluorobiphenyl	100	73	45	105	
Surr: 2-Fluorophenol	100	57	35	105	
Surr: Nitrobenzene-d5	100	67	35	100	
Surr: Phenol-d5	100	68	40	100	
Surr: Terphenyl-d14	100	74	30	125	
CTLab #	**877666**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	53	35	125	
Surr: 2-Fluorobiphenyl	100	67	45	105	
Surr: 2-Fluorophenol	100	48	35	105	
Surr: Nitrobenzene-d5	100	60	35	100	
Surr: Phenol-d5	100	61	40	100	
Surr: Terphenyl-d14	100	83	30	125	
CTLab #	**879025**	Sample Type:		Method Blank	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	57.2	35	125	
Surr: 2-Fluorobiphenyl	100	61.1	45	105	
Surr: 2-Fluorophenol	100	48.1	35	105	
Surr: Nitrobenzene-d5	100	48.2	35	100	
Surr: Phenol-d5	100	57.6	40	100	
Surr: Terphenyl-d14	100	66.4	30	125	

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SOIL SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Analytical Method:	EPA 8270C	SDG:	82743
Analytical Run #:	72515		

CTLab #	879026	Sample Type:	Lab Control Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	74.6	35	125	
Surr: 2-Fluorobiphenyl	100	67.6	45	105	
Surr: 2-Fluorophenol	100	56.4	35	105	
Surr: Nitrobenzene-d5	100	59.6	35	100	
Surr: Phenol-d5	100	64.5	40	100	
Surr: Terphenyl-d14	100	78.0	30	125	

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SOIL SEMIVOLATILE MATRIX SPIKE RECOVERY

Sample Description: **PB6-50-SSS**

Lab Name: CT Laboratories Contract: ARA INCORPORATED-BORROW

Matrix: SOIL SDG No.: 82699

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

Analytical Run #: 72544 Sample No.: 882175 Parent Sample No.: 877687

Analytical Prep Batch #: 35812 Analytical Preparation Date/Time: 12/08/2010 16:30

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
1,1'-Biphenyl	12/16/2010 13:56	50-150	1130		2330	48	*FAIL*
1,2,4,5-Tetrachlorobenzene	12/16/2010 13:56	40-129	1120	0	2330	48	
1,2,4-Trichlorobenzene	12/16/2010 13:56	45-110	1080	0	2330	46	
1,2-Dichlorobenzene	12/16/2010 13:56	45-95	1060	0	2330	45	
1,3-Dichlorobenzene	12/16/2010 13:56	40-100	1030	0	2330	44	
1,4-Dichlorobenzene	12/16/2010 13:56	35-105	1040	0	2330	45	
2,3,4,6-Tetrachlorophenol	12/16/2010 13:56	45-110	1050	0	2330	45	
2,4,5-Trichlorophenol	12/16/2010 13:56	50-110	1000	0	2330	43	*FAIL*
2,4,6-Trichlorophenol	12/16/2010 13:56	45-110	1020	0	2330	44	*FAIL*
2,4-Dichlorophenol	12/16/2010 13:56	45-110	1060	0	2330	45	
2,4-Dimethylphenol	12/16/2010 13:56	30-105	879	0	2330	38	
2,4-Dinitrophenol	12/16/2010 13:56	15-130	449	0	2330	19	
2,4-Dinitrotoluene	12/16/2010 13:56	50-115	1100	0	2330	47	*FAIL*
2,6-Dichlorophenol	12/16/2010 13:56	48-126	1070	0	2330	46	*FAIL*
2,6-Dinitrotoluene	12/16/2010 13:56	50-110	1130	0	2330	48	*FAIL*
2-Chloronaphthalene	12/16/2010 13:56	45-105	1060	0	2330	45	
2-Chlorophenol	12/16/2010 13:56	45-105	1010	0	2330	43	*FAIL*
2-Methylnaphthalene	12/16/2010 13:56	45-105	1040	0	2330	45	
2-Methylphenol	12/16/2010 13:56	40-105	995	0	2330	43	
2-Nitroaniline	12/16/2010 13:56	45-120	949	0	2330	41	*FAIL*
2-Nitrophenol	12/16/2010 13:56	40-110	1070	0	2330	46	
3 & 4-Methylphenol	12/16/2010 13:56	40-105	1030	0	2330	44	
3,3'-Dichlorobenzidine	12/16/2010 13:56	10-130	511	0	2330	22	
3-Nitroaniline	12/16/2010 13:56	25-110	793	0	2330	34	
4,6-Dinitro-2-methylphenol	12/16/2010 13:56	30-135	619	0	2330	27	*FAIL*
4-Bromophenyl-phenyl ether	12/16/2010 13:56	45-115	1140	0	2330	49	
4-Chloro-3-methylphenol	12/16/2010 13:56	45-115	985	0	2330	42	*FAIL*
4-Chloroaniline	12/16/2010 13:56	10-95	471	0	2330	20	
4-Chlorophenyl-phenyl ether	12/16/2010 13:56	45-110	1140	0	2330	49	
4-Nitroaniline	12/16/2010 13:56	35-115	1130	0	2330	48	
4-Nitrophenol	12/16/2010 13:56	15-140	796	0	2330	34	
Acenaphthene	12/16/2010 13:56	45-110	1080	0	2330	46	

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SOIL SEMIVOLATILE MATRIX SPIKE RECOVERY

Sample Description: **PB6-50-SSS**

Lab Name: CT Laboratories | Contract: ARA INCORPORATED-BORROW

Matrix: SOIL | SDG No.: 82699

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

Analytical Run #: 72544 | Sample No.: 882175 | Parent Sample No.: 877687

Analytical Prep Batch #: 35812 | Analytical Preparation Date/Time: 12/08/2010 16:30

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
Acenaphthylene	12/16/2010	13:56	45-105	1110	0	2330	48	
Acetophenone	12/16/2010	13:56	25-96	1050	0	2330	45	
Aniline	12/16/2010	13:56	14-110	311	0	2330	13	*FAIL*
Anthracene	12/16/2010	13:56	55-105	1120	0	2330	48	*FAIL*
Atrazine	12/16/2010	13:56	50-150	1070		2330	46	*FAIL*
Azobenzene & 1,2-Diphenylhydra	12/16/2010	13:56	55-115	2370	0	4660	51	*FAIL*
Benzaldehyde	12/16/2010	13:56	50-150	1080		2330	46	*FAIL*
Benzidine	12/16/2010	13:56	1-161	0	0	2330	0	*FAIL*
Benzo(a)anthracene	12/16/2010	13:56	50-110	1080	0	2330	46	*FAIL*
Benzo(a)pyrene	12/16/2010	13:56	50-110	1020	0	2330	44	*FAIL*
Benzo(b)fluoranthene	12/16/2010	13:56	45-115	1010	18	2330	43	*FAIL*
Benzo(g,h,i)perylene	12/16/2010	13:56	40-125	897	16	2330	38	*FAIL*
Benzo(k)fluoranthene	12/16/2010	13:56	45-125	1100	15	2330	47	
Benzoic acid	12/16/2010	13:56	0-110	0	0	2330	0	
Benzyl alcohol	12/16/2010	13:56	20-125	807	0	2330	35	
Bis(2-chloroethoxy)methane	12/16/2010	13:56	45-110	1040	0	2330	45	
Bis(2-chloroethyl)ether	12/16/2010	13:56	40-105	952	0	2330	41	
Bis(2-chloroisopropyl)ether	12/16/2010	13:56	20-115	976	0	2330	42	
Bis(2-ethylhexyl)phthalate	12/16/2010	13:56	45-125	1040	0	2330	45	
Butylbenzylphthalate	12/16/2010	13:56	50-125	1060	0	2330	45	*FAIL*
Caprolactam	12/16/2010	13:56	50-150	670		2330	29	*FAIL*
Carbazole	12/16/2010	13:56	45-115	1280	0	2330	55	
Chrysene	12/16/2010	13:56	55-110	1080	0	2330	46	*FAIL*
Dibenzo(a,h)anthracene	12/16/2010	13:56	40-125	1070	21	2330	45	
Dibenzofuran	12/16/2010	13:56	50-105	1120	0	2330	48	*FAIL*
Diethylphthalate	12/16/2010	13:56	50-115	1070	19	2330	45	*FAIL*
Dimethylphthalate	12/16/2010	13:56	50-110	1060	0	2330	45	*FAIL*
Di-n-butylphthalate	12/16/2010	13:56	55-110	1160	21	2330	49	*FAIL*
Di-n-octylphthalate	12/16/2010	13:56	40-130	1010	0	2330	43	
Fluoranthene	12/16/2010	13:56	55-115	1160	0	2330	50	*FAIL*
Fluorene	12/16/2010	13:56	50-110	1120	0	2330	48	*FAIL*
Hexachlorobenzene	12/16/2010	13:56	45-120	1140	0	2330	49	

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SOIL SEMIVOLATILE MATRIX SPIKE RECOVERY

Sample Description: **PB6-50-SSS**

Lab Name: CT Laboratories Contract: ARA INCORPORATED-BORROW

Matrix: SOIL SDG No.: 82699

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

Analytical Run #: 72544 Sample No.: 882175 Parent Sample No.: 877687

Analytical Prep Batch #: 35812 Analytical Preparation Date/Time: 12/08/2010 16:30

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
Hexachlorobutadiene	12/16/2010 13:56	40-115	1020	0	2330	44	
Hexachlorocyclopentadiene	12/16/2010 13:56	30-137	914	0	2330	39	
Hexachloroethane	12/16/2010 13:56	35-110	1010	0	2330	43	
Indeno(1,2,3-cd)pyrene	12/16/2010 13:56	40-120	1010	19	2330	43	
Isophorone	12/16/2010 13:56	45-110	989	0	2330	42	*FAIL*
Naphthalene	12/16/2010 13:56	40-105	1070	0	2330	46	
Nitrobenzene	12/16/2010 13:56	40-115	1050	0	2330	45	
N-Nitrosodimethylamine	12/16/2010 13:56	20-115	754	0	2330	32	
N-Nitroso-di-n-propylamine	12/16/2010 13:56	40-115	995	0	2330	43	
N-Nitrosodiphenylamine & Diphn	12/16/2010 13:56	50-115	2360	0	4660	51	
N-Nitrosopyrrolidine	12/16/2010 13:56	59-110	1030	0	2330	44	*FAIL*
Pentachlorophenol	12/16/2010 13:56	25-120	864	0	2330	37	
Phenanthrene	12/16/2010 13:56	50-110	1120	0	2330	48	*FAIL*
Phenol	12/16/2010 13:56	40-100	960	0	2330	41	
Pyrene	12/16/2010 13:56	45-125	1100	0	2330	47	
Pyridine	12/16/2010 13:56	16-121	362	0	2330	16	

Spike Recovery: 32 out of 80 outside QC limits

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SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE RECOVERY

Sample Description: **PB6-50-SSS**

Lab Name: CT Laboratories Contract: ARA INCORPORATED-BORROW

Matrix: SOIL SDG No.: 82699

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

Analytical Run #: 72544 Sample No.: 882177 Parent Sample No.: 882175

Analytical Prep Batch #: 35812 Analytical Preparation Date/Time: 12/08/2010 16:30

Analyte	Analysis Date/Time	Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
1,1'-Biphenyl	12/16/2010 14:14	1690	2340	72	39	50-150	30	*FAIL*
1,2,4,5-Tetrachlorobenzene	12/16/2010 14:14	1730	2340	74	42	40-129	30	*FAIL*
1,2,4-Trichlorobenzene	12/16/2010 14:14	1660	2340	71	41	45-110	30	*FAIL*
1,2-Dichlorobenzene	12/16/2010 14:14	1620	2340	69	41	45-95	30	*FAIL*
1,3-Dichlorobenzene	12/16/2010 14:14	1490	2340	64	36	40-100	30	*FAIL*
1,4-Dichlorobenzene	12/16/2010 14:14	1560	2340	67	39	35-105	30	*FAIL*
2,3,4,6-Tetrachlorophenol	12/16/2010 14:14	1820	2340	78	53	45-110	30	*FAIL*
2,4,5-Trichlorophenol	12/16/2010 14:14	1710	2340	73	52	50-110	30	*FAIL*
2,4,6-Trichlorophenol	12/16/2010 14:14	1610	2340	69	45	45-110	30	*FAIL*
2,4-Dichlorophenol	12/16/2010 14:14	1700	2340	73	46	45-110	30	*FAIL*
2,4-Dimethylphenol	12/16/2010 14:14	866	2340	37	2	30-105	30	
2,4-Dinitrophenol	12/16/2010 14:14	1180	2340	50	89	15-130	30	*FAIL*
2,4-Dinitrotoluene	12/16/2010 14:14	1770	2340	76	46	50-115	30	*FAIL*
2,6-Dichlorophenol	12/16/2010 14:14	1630	2340	70	41	48-126	30	*FAIL*
2,6-Dinitrotoluene	12/16/2010 14:14	1740	2340	74	42	50-110	30	*FAIL*
2-Chloronaphthalene	12/16/2010 14:14	1600	2340	68	40	45-105	30	*FAIL*
2-Chlorophenol	12/16/2010 14:14	1580	2340	68	44	45-105	30	*FAIL*
2-Methylnaphthalene	12/16/2010 14:14	1610	2340	69	42	45-105	30	*FAIL*
2-Methylphenol	12/16/2010 14:14	1440	2340	62	36	40-105	30	*FAIL*
2-Nitroaniline	12/16/2010 14:14	1600	2340	68	50	45-120	30	*FAIL*
2-Nitrophenol	12/16/2010 14:14	1660	2340	71	43	40-110	30	*FAIL*
3 & 4-Methylphenol	12/16/2010 14:14	1550	2340	66	39	40-105	30	*FAIL*
3,3'-Dichlorobenzidine	12/16/2010 14:14	239	2340	10	73	10-130	30	*FAIL*
3-Nitroaniline	12/16/2010 14:14	1250	2340	53	44	25-110	30	*FAIL*
4,6-Dinitro-2-methylphenol	12/16/2010 14:14	1590	2340	68	88	30-135	30	*FAIL*
4-Bromophenyl-phenyl ether	12/16/2010 14:14	1810	2340	77	45	45-115	30	*FAIL*
4-Chloro-3-methylphenol	12/16/2010 14:14	1500	2340	64	41	45-115	30	*FAIL*
4-Chloroaniline	12/16/2010 14:14	756	2340	32	46	10-95	30	*FAIL*
4-Chlorophenyl-phenyl ether	12/16/2010 14:14	1760	2340	75	42	45-110	30	*FAIL*
4-Nitroaniline	12/16/2010 14:14	1950	2340	83	53	35-115	30	*FAIL*
4-Nitrophenol	12/16/2010 14:14	1950	2340	83	83	15-140	30	*FAIL*
Acenaphthene	12/16/2010 14:14	1650	2340	71	42	45-110	30	*FAIL*

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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE RECOVERY

PB6-50-SSS

Lab Name: CT Laboratories Contract: ARA INCORPORATED-BORROW

Matrix: SOIL SDG No.: 82699

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

Analytical Run #: 72544 Sample No.: 882177 Parent Sample No.: 882175

Analytical Prep Batch #: 35812 Analytical Preparation Date/Time: 12/08/2010 16:30

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
Acenaphthylene	12/16/2010	14:14	1670	2340	71	40	45-105	30	*FAIL*
Acetophenone	12/16/2010	14:14	1630	2340	70	42	25-96	30	*FAIL*
Aniline	12/16/2010	14:14	260	2340	11	18	14-110	30	*FAIL*
Anthracene	12/16/2010	14:14	1770	2340	76	45	55-105	30	*FAIL*
Atrazine	12/16/2010	14:14	1790	2340	76	50	50-150	30	*FAIL*
Azobenzene & 1,2-Diphenylhydra	12/16/2010	14:14	3600	4690	77	41	55-115	30	*FAIL*
Benzaldehyde	12/16/2010	14:14	1420	2340	61	27	50-150	30	
Benzidine	12/16/2010	14:14	0	2340	0	0	1-161	30	*FAIL*
Benzo(a)anthracene	12/16/2010	14:14	1830	2340	78	51	50-110	30	*FAIL*
Benzo(a)pyrene	12/16/2010	14:14	1690	2340	72	49	50-110	30	*FAIL*
Benzo(b)fluoranthene	12/16/2010	14:14	1690	2340	71	50	45-115	30	*FAIL*
Benzo(g,h,i)perylene	12/16/2010	14:14	1620	2340	69	57	40-125	30	*FAIL*
Benzo(k)fluoranthene	12/16/2010	14:14	1850	2340	78	51	45-125	30	*FAIL*
Benzoic acid	12/16/2010	14:14	742	2340	32	200	0-110	30	*FAIL*
Benzyl alcohol	12/16/2010	14:14	1510	2340	65	60	20-125	30	*FAIL*
Bis(2-chloroethoxy)methane	12/16/2010	14:14	1570	2340	67	40	45-110	30	*FAIL*
Bis(2-chloroethyl)ether	12/16/2010	14:14	1470	2340	63	42	40-105	30	*FAIL*
Bis(2-chloroisopropyl)ether	12/16/2010	14:14	1460	2340	62	39	20-115	30	*FAIL*
Bis(2-ethylhexyl)phthalate	12/16/2010	14:14	1680	2340	72	47	45-125	30	*FAIL*
Butylbenzylphthalate	12/16/2010	14:14	1750	2340	75	49	50-125	30	*FAIL*
Caprolactam	12/16/2010	14:14	1550	2340	66	79	50-150	30	*FAIL*
Carbazole	12/16/2010	14:14	2110	2340	90	49	45-115	30	*FAIL*
Chrysene	12/16/2010	14:14	1790	2340	76	49	55-110	30	*FAIL*
Dibenzo(a,h)anthracene	12/16/2010	14:14	1780	2340	75	50	40-125	30	*FAIL*
Dibenzofuran	12/16/2010	14:14	1720	2340	74	42	50-105	30	*FAIL*
Diethylphthalate	12/16/2010	14:14	1700	2340	72	45	50-115	30	*FAIL*
Dimethylphthalate	12/16/2010	14:14	1750	2340	75	49	50-110	30	*FAIL*
Di-n-butylphthalate	12/16/2010	14:14	1810	2340	76	43	55-110	30	*FAIL*
Di-n-octylphthalate	12/16/2010	14:14	1710	2340	73	52	40-130	30	*FAIL*
Fluoranthene	12/16/2010	14:14	1920	2340	82	48	55-115	30	*FAIL*
Fluorene	12/16/2010	14:14	1770	2340	76	44	50-110	30	*FAIL*
Hexachlorobenzene	12/16/2010	14:14	1770	2340	76	43	45-120	30	*FAIL*

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Sample Description

SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE RECOVERY

PB6-50-SSS

Lab Name: CT Laboratories Contract: ARA INCORPORATED-BORROW

Matrix: SOIL SDG No.: 82699

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

Analytical Run #: 72544 Sample No.: 882177 Parent Sample No.: 882175

Analytical Prep Batch #: 35812 Analytical Preparation Date/Time: 12/08/2010 16:30

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
Hexachlorobutadiene	12/16/2010	14:14	1530	2340	65	39	40-115	30	*FAIL*
Hexachlorocyclopentadiene	12/16/2010	14:14	1170	2340	50	24	30-137	30	
Hexachloroethane	12/16/2010	14:14	1460	2340	62	36	35-110	30	*FAIL*
Indeno(1,2,3-cd)pyrene	12/16/2010	14:14	1700	2340	72	51	40-120	30	*FAIL*
Isophorone	12/16/2010	14:14	1570	2340	67	45	45-110	30	*FAIL*
Naphthalene	12/16/2010	14:14	1640	2340	70	42	40-105	30	*FAIL*
Nitrobenzene	12/16/2010	14:14	1610	2340	69	42	40-115	30	*FAIL*
N-Nitrosodimethylamine	12/16/2010	14:14	1520	2340	65	67	20-115	30	*FAIL*
N-Nitroso-di-n-propylamine	12/16/2010	14:14	1530	2340	65	42	40-115	30	*FAIL*
N-Nitrosodiphenylamine & Diphn	12/16/2010	14:14	3400	4690	72	36	50-115	30	*FAIL*
N-Nitrosopyrrolidine	12/16/2010	14:14	1670	2340	71	47	59-110	30	*FAIL*
Pentachlorophenol	12/16/2010	14:14	1700	2340	73	65	25-120	30	*FAIL*
Phenanthrene	12/16/2010	14:14	1790	2340	76	46	50-110	30	*FAIL*
Phenol	12/16/2010	14:14	1490	2340	64	43	40-100	30	*FAIL*
Pyrene	12/16/2010	14:14	1710	2340	73	43	45-125	30	*FAIL*
Pyridine	12/16/2010	14:14	848	2340	36	80	16-121	30	*FAIL*

RPD or Spike Recovery: 77 out of 80 outside QC limits

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3D

Sample Description

SOIL SEMIVOLATILE LAB CONTROL SAMPLE

LCS

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

Sample No.: 879026 SDG No.: 82743

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

Analytical Run #: 72515 Sample No.: 879026 Parent Sample No.: 0

Analytical Prep Batch #: 35715 Analytical Preparation Date/Time: 12/08/2010 16:30

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,2,4-Trichlorobenzene	12/15/2010	14:37	45-110	1280		2000	64
1,2-Dichlorobenzene	12/15/2010	14:37	45-95	1200		2000	60
1,3-Dichlorobenzene	12/15/2010	14:37	40-100	1130		2000	56
1,4-Dichlorobenzene	12/15/2010	14:37	35-105	1160		2000	58
1-Methylnaphthalene	12/15/2010	14:37	50-150	1290		2000	64
2,4,5-Trichlorophenol	12/15/2010	14:37	50-110	1420		2000	71
2,4,6-Trichlorophenol	12/15/2010	14:37	45-110	1310		2000	66
2,4-Dichlorophenol	12/15/2010	14:37	45-110	1320		2000	66
2,4-Dimethylphenol	12/15/2010	14:37	30-105	1170		2000	58
2,4-Dinitrophenol	12/15/2010	14:37	15-130	1040		2000	52
2,4-Dinitrotoluene	12/15/2010	14:37	50-115	1500		2000	75
2,6-Dichlorophenol	12/15/2010	14:37	48-126	1280		2000	64
2,6-Dinitrotoluene	12/15/2010	14:37	50-110	1580		2000	79
2-Chloronaphthalene	12/15/2010	14:37	45-105	1290		2000	64
2-Chlorophenol	12/15/2010	14:37	45-105	1220		2000	61
2-Methylnaphthalene	12/15/2010	14:37	45-105	1240		2000	62
2-Methylphenol	12/15/2010	14:37	40-105	1320		2000	66
2-Nitroaniline	12/15/2010	14:37	45-120	1310		2000	66
2-Nitrophenol	12/15/2010	14:37	40-110	1250		2000	62
3 & 4-Methylphenol	12/15/2010	14:37	40-105	1280		2000	64
3,3'-Dichlorobenzidine	12/15/2010	14:37	10-130	1880		2000	94
3-Nitroaniline	12/15/2010	14:37	25-110	1270		2000	64
4,6-Dinitro-2-methylphenol	12/15/2010	14:37	30-135	1240		2000	62
4-Bromophenyl-phenyl ether	12/15/2010	14:37	45-115	1490		2000	74
4-Chloro-3-methylphenol	12/15/2010	14:37	45-115	1220		2000	61
4-Chloroaniline	12/15/2010	14:37	10-95	775		2000	39
4-Chlorophenyl-phenyl ether	12/15/2010	14:37	45-110	1450		2000	72
4-Nitroaniline	12/15/2010	14:37	35-115	1680		2000	84
4-Nitrophenol	12/15/2010	14:37	15-140	946		2000	47

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Sample Description

LCS

SOIL SEMIVOLATILE LAB CONTROL SAMPLE

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

Sample No.: 879026 SDG No.: 82743

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

Analytical Run #: 72515 Sample No.: 879026 Parent Sample No.: 0

Analytical Prep Batch #: 35715 Analytical Preparation Date/Time: 12/08/2010 16:30

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Acenaphthene	12/15/2010	14:37	45-110	1340		2000	67
Acenaphthylene	12/15/2010	14:37	45-105	1380		2000	69
Acetophenone	12/15/2010	14:37	48-126	1250		2000	62
Aniline	12/15/2010	14:37	14-110	740		2000	37
Anthracene	12/15/2010	14:37	55-105	1490		2000	74
Azobenzene & 1,2-Diphenylhydra	12/15/2010	14:37	55-115	2950		4000	74
Benzidine	12/15/2010	14:37	1-161	377		2000	19
Benzo(a)anthracene	12/15/2010	14:37	50-110	1530		2000	76
Benzo(a)pyrene	12/15/2010	14:37	50-110	1500		2000	75
Benzo(b)fluoranthene	12/15/2010	14:37	45-115	1480		2000	74
Benzo(g,h,i)perylene	12/15/2010	14:37	40-125	1440		2000	72
Benzo(k)fluoranthene	12/15/2010	14:37	45-125	1520		2000	76
Benzoic acid	12/15/2010	14:37	0-110	428		2000	21
Benzyl alcohol	12/15/2010	14:37	20-125	893		2000	45
Bis(2-chloroethoxy)methane	12/15/2010	14:37	45-110	1270		2000	64
Bis(2-chloroethyl)ether	12/15/2010	14:37	40-105	1160		2000	58
Bis(2-chloroisopropyl)ether	12/15/2010	14:37	20-115	1160		2000	58
Bis(2-ethylhexyl)phthalate	12/15/2010	14:37	45-125	1450		2000	72
Butylbenzylphthalate	12/15/2010	14:37	50-125	1470		2000	74
Carbazole	12/15/2010	14:37	45-115	1710		2000	86
Chrysene	12/15/2010	14:37	55-110	1500		2000	75
Dibenzo(a,h)anthracene	12/15/2010	14:37	40-125	1470		2000	74
Dibenzofuran	12/15/2010	14:37	50-105	1390		2000	70
Diethylphthalate	12/15/2010	14:37	50-115	1480		2000	74
Dimethylphthalate	12/15/2010	14:37	50-110	1500		2000	75
Di-n-butylphthalate	12/15/2010	14:37	55-110	1520		2000	76
Di-n-octylphthalate	12/15/2010	14:37	40-130	1470		2000	74
Fluoranthene	12/15/2010	14:37	55-115	1600		2000	80
Fluorene	12/15/2010	14:37	50-110	1430		2000	72

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Sample Description

LCS

SOIL SEMIVOLATILE LAB CONTROL SAMPLE

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

Sample No.: 879026 SDG No.: 82743

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

Analytical Run #: 72515 Sample No.: 879026 Parent Sample No.: 0

Analytical Prep Batch #: 35715 Analytical Preparation Date/Time: 12/08/2010 16:30

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Hexachlorobenzene	12/15/2010	14:37	45-120	1460		2000	73
Hexachlorobutadiene	12/15/2010	14:37	40-115	1170		2000	58
Hexachlorocyclopentadiene	12/15/2010	14:37	30-137	1190		2000	60
Hexachloroethane	12/15/2010	14:37	35-110	1120		2000	56
Indeno(1,2,3-cd)pyrene	12/15/2010	14:37	40-120	1450		2000	72
Isophorone	12/15/2010	14:37	45-110	1220		2000	61
Naphthalene	12/15/2010	14:37	40-105	1260		2000	63
Nitrobenzene	12/15/2010	14:37	40-115	1220		2000	61
N-Nitrosodimethylamine	12/15/2010	14:37	20-115	1010		2000	50
N-Nitroso-di-n-propylamine	12/15/2010	14:37	40-115	1220		2000	61
N-Nitrosodiphenylamine & Diphn	12/15/2010	14:37	50-115	3160		4000	79
N-Nitrosopyrrolidine	12/15/2010	14:37	59-110	1290		2000	64
Pentachlorophenol	12/15/2010	14:37	25-120	1230		2000	62
Phenanthrene	12/15/2010	14:37	50-110	1490		2000	74
Phenol	12/15/2010	14:37	40-100	1220		2000	61
Pyrene	12/15/2010	14:37	45-125	1490		2000	74
Pyridine	12/15/2010	14:37	16-121	822		2000	41

Spike Recovery: 0 out of 75 outside limits

CT LABORATORIES
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SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Sample ID:	879025	SDG No.:	82743
Matrix:	SOLID	Date Extracted:	12/08/2010
Date Analyzed:	12/15/2010	Time Analyzed:	14:18
Analytical Method:	EPA 8270C	Extraction Method:	SW3545
Analytical Run #:	72515	Extraction Batch #:	35715

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

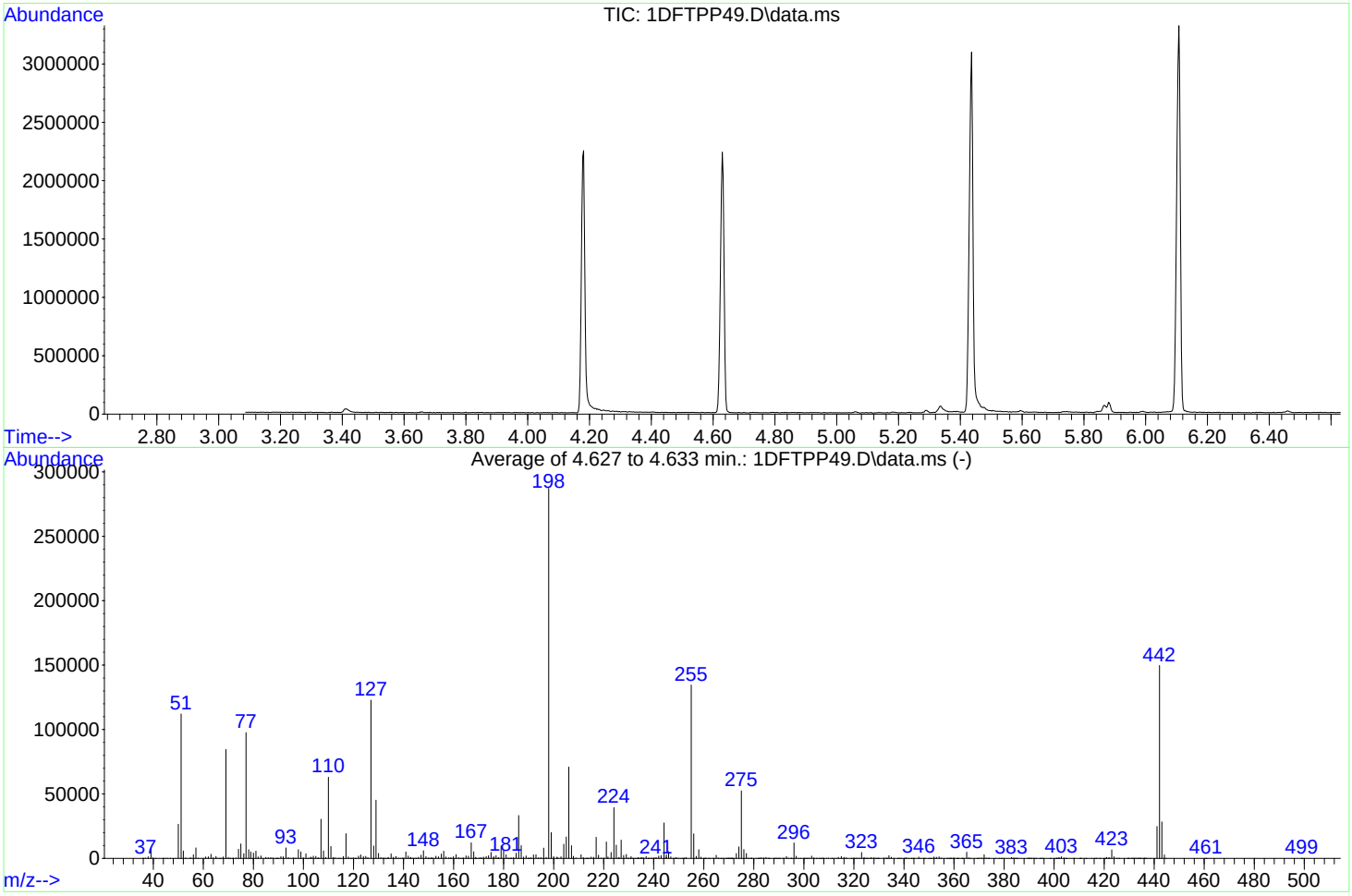
SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	MBS	879025	12/15/2010 14:18
2	LCSS	879026	12/15/2010 14:37
3	DAASS-041-0001-SO	877664	12/15/2010 15:32
4	DAASS-040-0001-SO	877666	12/15/2010 15:51
5	DAASS-041-0001-SO	877664	12/15/2010 20:10
6	DAASS-040-0001-SO	877666	12/15/2010 20:29

Data Path : C:\INSTARCH\DATA\1S121410\
Data File : 1DFTPP49.D
Acq On : 14 Dec 2010 12:48
Operator : RPN
Sample : DFTPP TUNE SVMS4570
Misc : SVMS1,25 ug DFTPP
ALS Vial : 1 Sample Multiplier: 1

RPN
10/15/10

Integration File: rteint.p

Method : C:\INSTARCH\METHOD\1DFTPP.M
Title : DFTPP TUNE Method
Last Update : Wed Dec 01 10:05:44 2010



AutoFind: Scans 543, 544, 545; Background Corrected with Scan 534

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.1	112141	PASS
68	69	0.00	2	1.4	1163	PASS
69	198	0.00	100	29.5	84589	PASS
70	69	0.00	2	0.7	550	PASS
127	198	40	60	42.8	122882	PASS
197	198	0.00	1	0.3	759	PASS
198	198	100	100	100.0	287104	PASS
199	198	5	9	7.0	20061	PASS
275	198	10	30	18.3	52485	PASS
365	198	1	100	1.7	4851	PASS
441	443	0.01	100	87.6	24829	PASS
442	198	40	100	52.2	149730	PASS
443	442	17	23	18.9	28354	PASS

pl_ilog
Injection Log Summary Report

Method : O:\INSTARCH\METHOD\1S121410.M
Title : Method for 8270 analysis
Start (Tune) File ID : O:\INSTARCH\DATA\1S121410\1DFTPP49.D
Injection Date : 14 Dec 2010 Log Time Period (hrs) : ALL
Injection Time : 12:48 Total files within period : 21
Sample Directory : O:\INSTARCH\DATA\1S121410\

Injection Log Summary Table

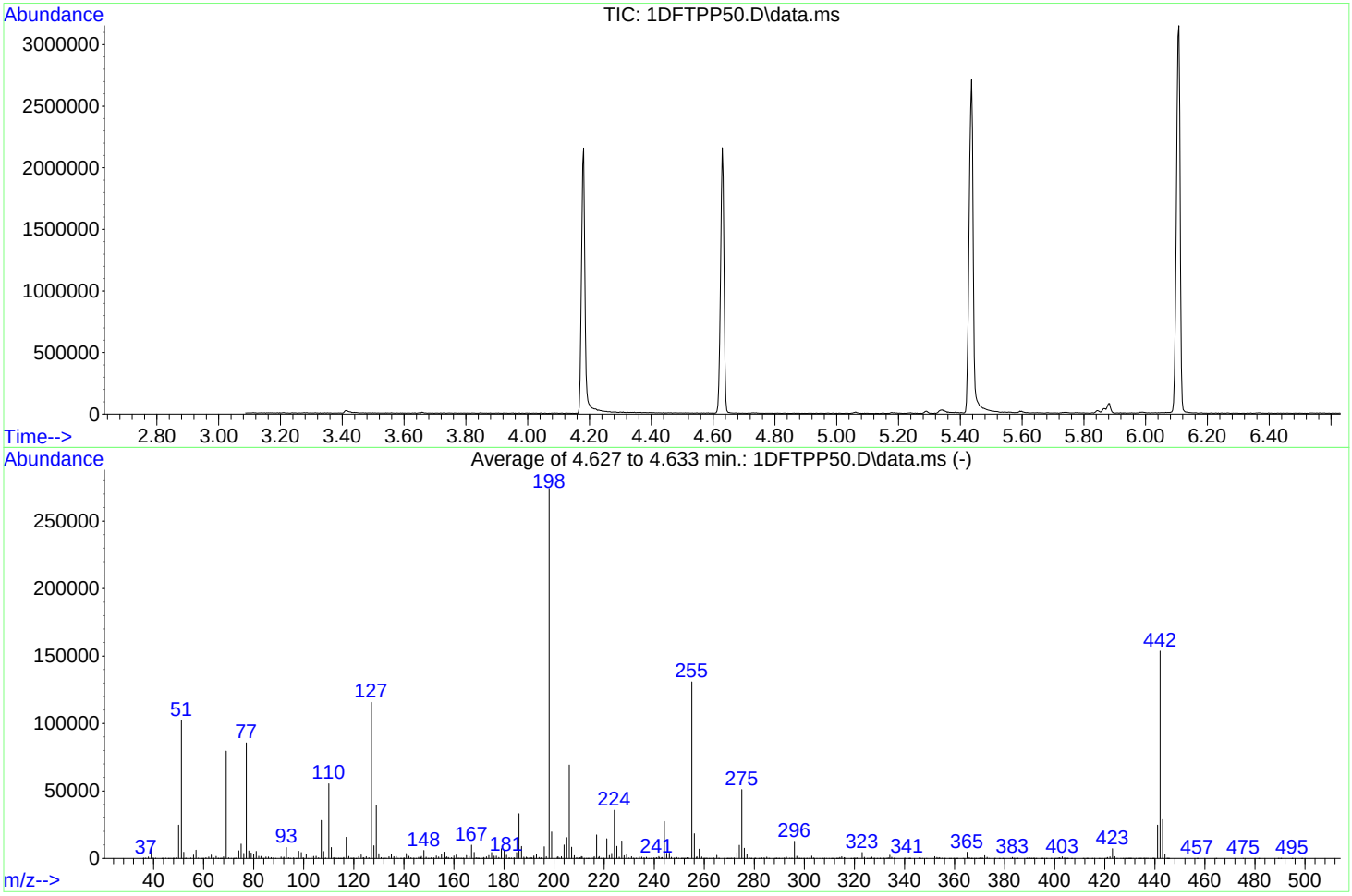
File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
1IB02	1.00	1.00	1.00	InstrumentBlank 1000uL+10ul IS S2263	14 Dec 2010	13:04
1ICAL7	1.00	1.00	1.00	I CAL 50ug/ml SVMS46 1000uL+10ul IS S2263	14 Dec 2010	13:23
1ICAL6	1.00	1.00	1.00	I CAL 40ug/ml SVMS46 1000uL+10ul IS S2263	14 Dec 2010	13:41
1ICAL5	1.00	1.00	1.00	I CAL 30ug/ml SVMS46 1000uL+10ul IS S2263	14 Dec 2010	14:00
1ICAL4	1.00	1.00	1.00	I CAL 20ug/ml SVMS46 1000uL+10ul IS S2263	14 Dec 2010	14:18
1ICAL3	1.00	1.00	1.00	I CAL 10ug/ml SVMS46 1000uL+10ul IS S2263	14 Dec 2010	14:37
1ICAL2	1.00	1.00	1.00	I CAL 5ug/ml SVMS468 1000uL+10ul IS S2263	14 Dec 2010	14:55
1ICAL1	1.00	1.00	1.00	I CAL 1ug/ml SVMS467 1000uL+10ul IS S2263	14 Dec 2010	15:14
1ICAL2R	1.00	1.00	1.00	I CAL 5ug/ml SVMS468 1000uL+10ul IS S2263	14 Dec 2010	15:36
1ICV1	1.00	1.00	1.00	ICV 20ug/ml SVMS4686 1000uL+10ul IS S2263	14 Dec 2010	15:55
1ICV2	1.00	1.00	1.00	ICV 40ug/ml SVMS4687 1000uL+10ul IS S2263	14 Dec 2010	16:13

Data Path : C:\INSTARCH\DATA\1S121510\
Data File : 1DFTPP50.D
Acq On : 15 Dec 2010 9:49
Operator : RPN
Sample : DFTPP TUNE SVMS4570
Misc : SVMS1,25 ug DFTPP
ALS Vial : 1 Sample Multiplier: 1

RPN
10/15/10

Integration File: rteint.p

Method : C:\INSTARCH\METHOD\1DFTPP.M
Title : DFTPP TUNE Method
Last Update : Wed Dec 15 13:52:17 2010



AutoFind: Scans 543, 544, 545; Background Corrected with Scan 534

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.3	102370	PASS
68	69	0.00	2	1.5	1233	PASS
69	198	0.00	100	29.0	79594	PASS
70	69	0.00	2	0.6	442	PASS
127	198	40	60	42.2	115738	PASS
197	198	0.00	1	0.5	1271	PASS
198	198	100	100	100.0	274176	PASS
199	198	5	9	7.1	19597	PASS
275	198	10	30	18.6	51080	PASS
365	198	1	100	1.7	4616	PASS
441	443	0.01	100	85.5	24696	PASS
442	198	40	100	56.1	153698	PASS
443	442	17	23	18.8	28874	PASS

pl_ilog
Injection Log Summary Report

Method : O:\INSTARCH\METHOD\1S121410.M
Title : Method for 8270 analysis
Start (Tune) File ID : O:\INSTARCH\DATA\1S121510\1DFTPP50.D
Injection Date : 15 Dec 2010 Log Time Period (hrs) : ALL
Injection Time : 09:49 Total files within period : 34
Sample Directory : O:\INSTARCH\DATA\1S121510\

Injection Log Summary Table

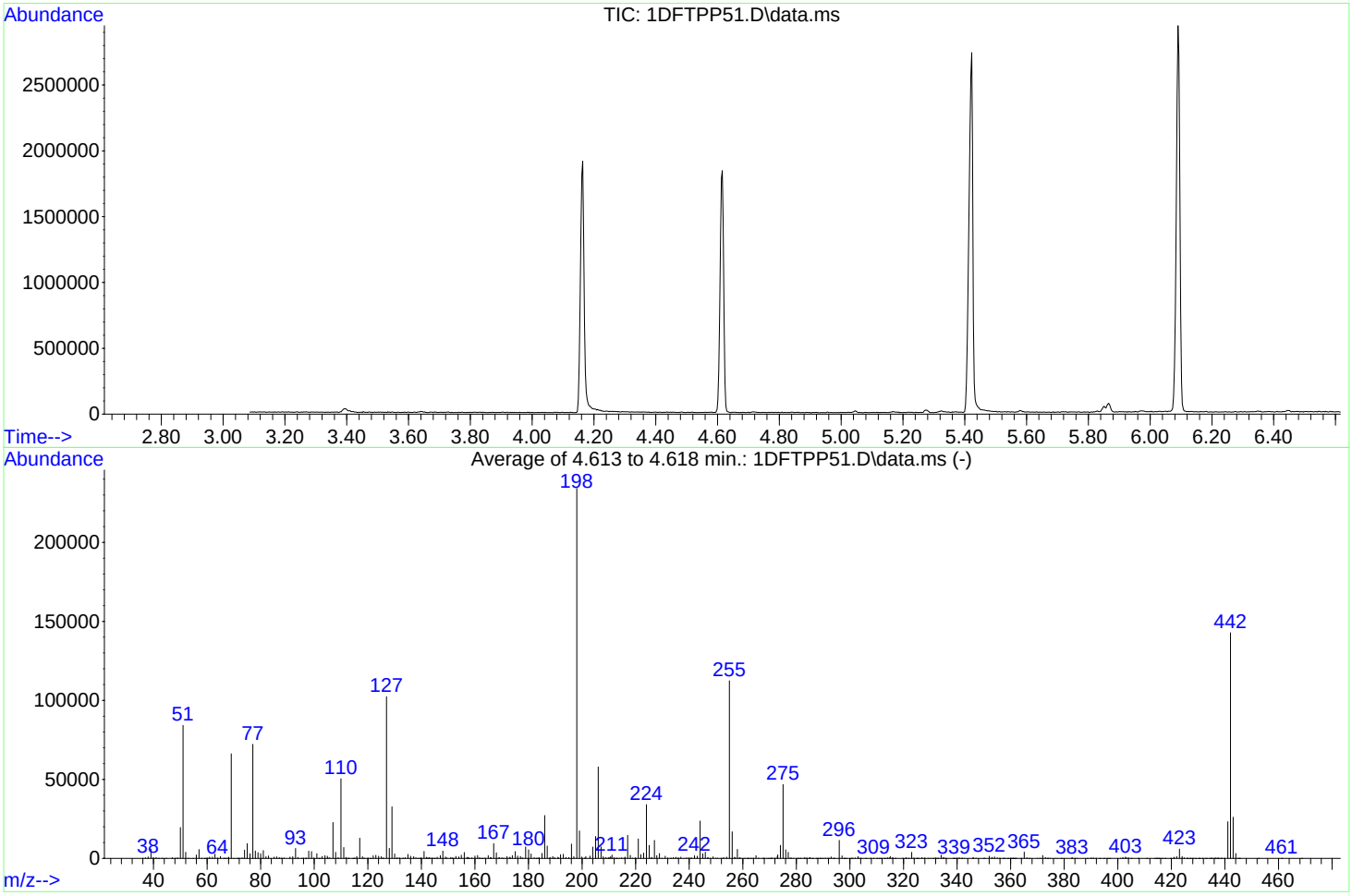
File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
1CCV45	1.00	1.00	1.00	CCV 20ug/ml SVMS4688 1000uL+10ul IS S2263	15 Dec 2010	10:05
1MBS01	1.00	1.00	1.00	72544,MBS,1 882170,500ul+5ul IS	15 Dec 2010	14:18
1LCSS01	1.00	1.00	1.00	72544,LCSS,1 882171,500ul+5ul IS	15 Dec 2010	14:37
877664D	1.00	1.00	1.00	72515,877664,10 500ul+5ul IS S2263B	15 Dec 2010	15:32
877666D	1.00	1.00	1.00	72515,877666,10 500ul+5ul IS S2263B	15 Dec 2010	15:51
877687MS	1.00	1.00	1.00	72544,MSS877687,1 882175,500ul+5ul IS	15 Dec 2010	16:28
877687SD	1.00	1.00	1.00	72544,MSDS877687,1 882177500ul+5ul IS S	15 Dec 2010	16:47
877664	1.00	1.00	1.00	72515,877664,1 500ul+5ul IS S2263B	15 Dec 2010	20:10
877666	1.00	1.00	1.00	72515,877666,1 500ul+5ul IS S2263B	15 Dec 2010	20:29

Data Path : C:\INSTARCH\DATA\1S121610\
Data File : 1DFTPP51.D
Acq On : 16 Dec 2010 12:23
Operator : RPN
Sample : DFTPP TUNE SVMS4570
Misc : SVMS1,25 ug DFTPP
ALS Vial : 1 Sample Multiplier: 1

RPN
12/27/10

Integration File: INTP57.p

Method : C:\INSTARCH\METHOD\1SS013.M
Title : Method for 8270 analysis for instrument SVMS2
Last Update : Mon Dec 27 12:11:56 2010



AutoFind: Scans 538, 539, 540; Background Corrected with Scan 528

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.0	84240	PASS
68	69	0.00	2	1.1	739	PASS
69	198	0.00	100	28.3	66212	PASS
70	69	0.00	2	0.1	97	PASS
127	198	40	60	43.7	102348	PASS
197	198	0.00	1	0.5	1121	PASS
198	198	100	100	100.0	234133	PASS
199	198	5	9	7.4	17438	PASS
275	198	10	30	20.0	46821	PASS
365	198	1	100	1.7	4018	PASS
441	443	0.01	100	88.8	23194	PASS
442	198	40	100	61.0	142848	PASS
443	442	17	23	18.3	26133	PASS

pl_ilog
Injection Log Summary Report

Method : O:\INSTARCH\METHOD\1S121410.M
Title : Method for 8270 analysis
Start (Tune) File ID : O:\INSTARCH\DATA\1S121610\1DFTPP51.D
Injection Date : 16 Dec 2010 Log Time Period (hrs) : ALL
Injection Time : 12:23 Total files within period : 31
Sample Directory : O:\INSTARCH\DATA\1S121610\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
1CCV47	1.00	1.00	1.00	CCV 20ug/ml SVMS4688 1000uL+10ul IS S2263	16 Dec 2010	12:41
877687SR	1.00	1.00	1.00	72544,MSS877687,1 882175,500ul+5ul IS	16 Dec 2010	13:56
877687DR	1.00	1.00	1.00	72544,MSDS877687,1 882177,500ul+5ul IS	16 Dec 2010	14:14

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 1ICAL4.D Date Analyzed : 14 Dec 2010
Instrument ID : SVMS1 Time Analyzed : 14:18
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	231242	3.37	780164	4.90	551500	6.79
UPPER LIMIT	462484	3.87	1560328	5.40	1103000	7.29
LOWER LIMIT	115621	2.87	390082	4.40	275750	6.29
File ID Sample						
1CCV45 CCV 20ug/	211359	3.37	699661	4.90	472601	6.79
1LCSS01 72544,LCS	211263	3.37	732492	4.89	496390	6.79
1MBS01 72544,MBS	206653	3.37	733224	4.89	514470	6.78
877664~1 72515,877	216144	3.37	764191	4.90	494222	6.79
877664D 72515,877	227313	3.37	777452	4.89	540459	6.78
877666~1 72515,877	224559	3.37	809996	4.89	587573	6.79
877666D 72515,877	208392	3.37	715659	4.89	498733	6.78
877687MS 72544,MSS	218382	3.37	752041	4.89	512771	6.78
877687SD 72544,MSD	214924	3.37	736573	4.89	516316	6.79

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

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

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

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 1ICAL4.D Date Analyzed : 14 Dec 2010
Instrument ID : SVMS1 Time Analyzed : 14:18
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	1029655	7.75	588922	9.17	565033	10.00
UPPER LIMIT	2059310	8.25	1177844	9.67	1130066	10.50
LOWER LIMIT	514828	7.25	294461	8.67	282517	9.50
File ID Sample						
1CCV45 CCV 20ug/	906957	7.75	544836	9.17	522547	10.00
1LCSS01 72544,LCS	926044	7.75	555787	9.17	528740	10.00
1MBS01 72544,MBS	932133	7.75	599924	9.16	557772	10.00
877664~1 72515,877	789924	7.76	543564	9.18	476177	10.01
877664D 72515,877	930408	7.75	617877	9.17	582116	10.00
877666~1 72515,877	953335	7.76	506327	9.19	401688	10.03
877666D 72515,877	896271	7.75	546367	9.17	530228	10.01
877687MS 72544,MSS	934422	7.75	589306	9.17	561066	10.01
877687SD 72544,MSD	962207	7.75	583182	9.17	579335	10.00

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

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

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

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 1ICAL4.D Date Analyzed : 14 Dec 2010
Instrument ID : SVMS1 Time Analyzed : 14:18
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	231242	3.37	780164	4.90	551500	6.79
UPPER LIMIT	462484	3.87	1560328	5.40	1103000	7.29
LOWER LIMIT	115621	2.87	390082	4.40	275750	6.29
File ID Sample						
1CCV47 CCV 20ug/	188839	3.34	628089	4.87	429341	6.77
877687DR 72544,MSD	216543	3.35	741121	4.87	524349	6.77
877687SR 72544,MSS	213803	3.35	731580	4.87	505254	6.77

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

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

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

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 1ICAL4.D Date Analyzed : 14 Dec 2010
Instrument ID : SVMS1 Time Analyzed : 14:18
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	1029655	7.75	588922	9.17	565033	10.00
UPPER LIMIT	2059310	8.25	1177844	9.67	1130066	10.50
LOWER LIMIT	514828	7.25	294461	8.67	282517	9.50
File ID Sample						
1CCV47 CCV 20ug/	804509	7.73	503106	9.15	492482	9.99
877687DR 72544,MSD	972446	7.73	624497	9.15	602302	9.99
877687SR 72544,MSS	925295	7.73	573724	9.15	538070	9.99

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

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

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

SEMI - VOLATILE ORGANIC ANALYSIS
SAMPLE DATA
DOCUMENTS

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\877664D.D Vial: 17
Acq On : 15 Dec 2010 15:32 Operator: RPN
Sample : 72515,877664,10 Inst : SVMS1
Misc : 500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 15:46:47 2010

RPN
12/27/10

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	3.366	152	227313	20.00	ug/mL	0.00
21) Naphthalened8	4.894	136	777452	20.00	ug/mL	0.00
39) Acenaphthened10	6.784	164	540459	20.00	ug/mL	0.00
63) Phenanthrd10	7.750	188	930408	20.00	ug/mL	0.00
75) Chrysene-d12	9.165	240	617877	20.00	ug/mL	0.00
85) Perylene-d12	10.003	264	582116	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	2.348	112	30429	5.79	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 5.79%#			
7) SURRPhenol-d5	3.042	99	31064	5.10	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 5.10%#			
22) SURRNitrbenzened5	3.979	82	13211	5.65	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 5.65%#			
44) SUR2Flbiphenyl	6.267	172	53053	7.12	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 7.12%#			
62) SUR246Tribrphenl	7.324	330	9145	5.70	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 5.70%#			
78) SURRTerphenyl-d14	8.605	244	34671	7.54	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 7.54%#			
Target Compounds						Qvalue
17) Acetophenone	3.826	105	1147	0.0702	ug/mL#	70
20) 3&4Methylphenol	3.914	108	263	0.0228	ug/mL#	39
31) Naphthalene	4.923	128	18889	0.4965	ug/mL	98
37) 2Methylnaphth	5.877	141	30273	1.0698	ug/mL	95
38) 1Methylnaphth	5.974	141	16247	0.5575	ug/mL	89
46) 2Nitroaniline	6.474	65	554	0.0740	ug/mL#	22
47) Acnaphthylene	6.673	152	5923	0.1200	ug/mL	88
48) Dimethylphtha	6.653	163	2770	0.0763	ug/mL	94
50) Acenaphthene	6.807	153	20815	0.6581	ug/mL	90
52) 24Dinitphenol	7.000	184	208	2.9222	ug/mL#	1
53) Dibenzofuran	6.934	168	13518	0.3100	ug/mL	92
54) 24Dinitrotolu	6.946	165	1551	0.1476	ug/mL#	31
55) 4-Nitrophenol	6.909	109	1508	0.5139	ug/mL#	12
56) 2,3,5,6-Tetrachlorop	7.227	232	563	0.0629	ug/mL#	67
57) 2,3,4,6-Tetrachlorop	7.227	232	563	0.0610	ug/mL#	68
58) Fluorene	7.168	166	22631	0.6378	ug/mL	97
60) Diethylphthal	7.128	149	3454	0.0952	ug/mL	75
61) 4Nitroaniline	7.204	138	2448	0.4083	ug/mL#	20
66) Azobenz&12Diphlhyd	7.278	182	5919	0.7982	ug/mL#	1
67) 4Brphlphlethr	7.520	248	2980	0.3021	ug/mL#	43
70) Phenanthrene	7.761	178	255086	5.4146	ug/mL	98
71) Anthracene	7.793	178	51579	1.0671	ug/mL	94
72) Carbazole	7.898	167	26235	0.6961	ug/mL	90
73) Dinbtylphthal	8.117	149	16515	0.2961	ug/mL	88
74) Fluoranthene	8.415	202	313017	8.8900	ug/mL	86
77) Pyrene	8.523	202	256104	6.1376	ug/mL	89
79) Btylbzylphth	8.776	149	1285	0.0702	ug/mL#	37
80) 33Diclbnzidin	9.196	252	537	Below Cal		75
81) B[a]anthracen	9.156	228	119059	3.2927	ug/mL	99
82) Chrysene	9.179	228	116529	3.4506	ug/mL	97
83) bis2Ethlhxlph	9.196	149	9324	0.3704	ug/mL	81
86) B[b]fluoranth	9.782	252	217344	6.0119	ug/mL	96
87) B[k]fluoranth	9.782	252	217798	7.1518	ug/mL	96
88) Benz[a]pyrene	9.966	252	104199	3.1211	ug/mL	90

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\877664D.D Vial: 17
Acq On : 15 Dec 2010 15:32 Operator: RPN
Sample : 72515,877664,10 Inst : SVMS1
Misc : 500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 15:46:47 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

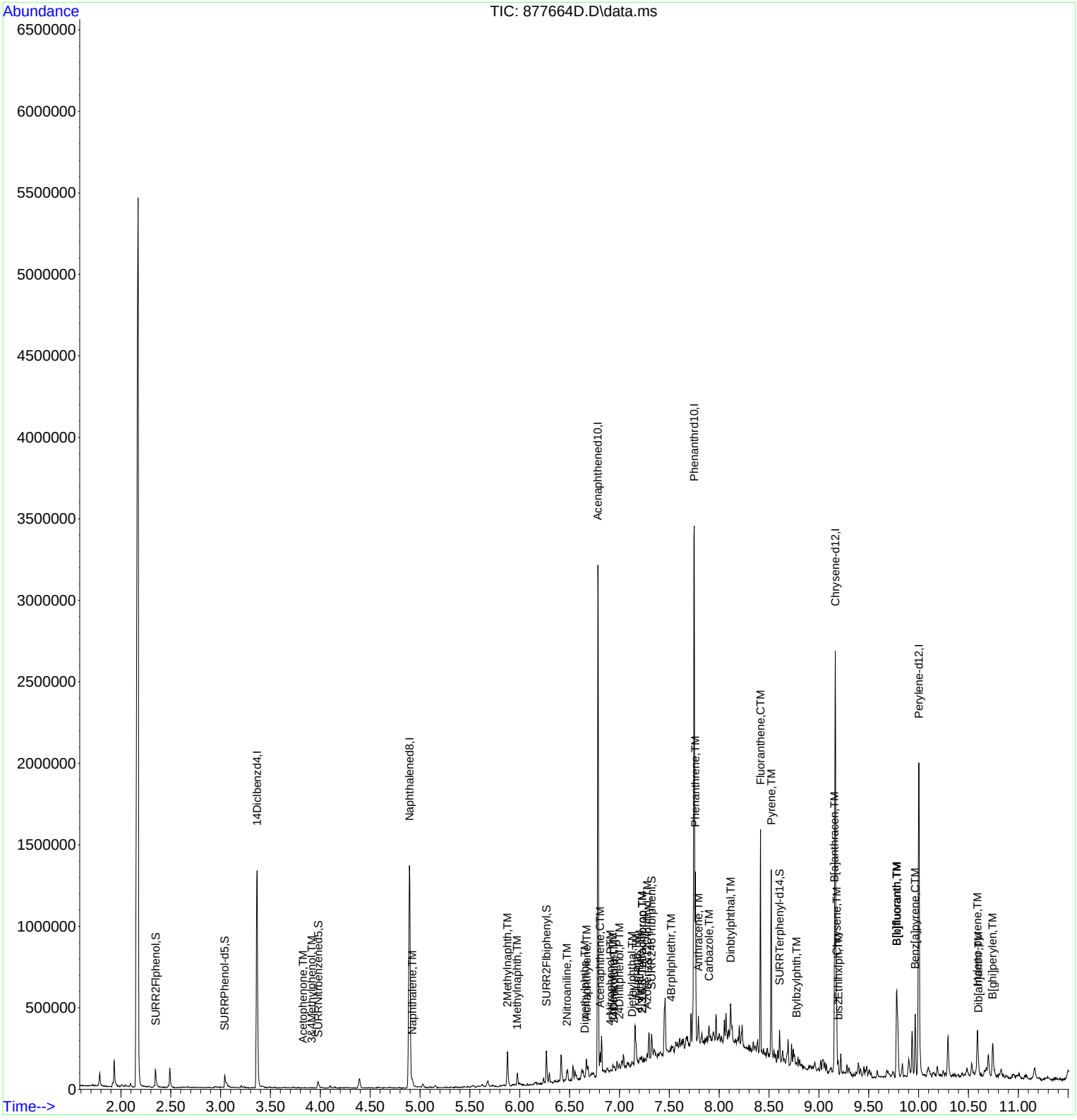
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) Indeno-pyrene	10.591	276	74867	2.2715 ug/mL	72
90) Dib[ah]anthr	10.600	278	16695	0.6482 ug/mL	93
91) B[ghi]perylen	10.742	276	72861	2.5391 ug/mL	78

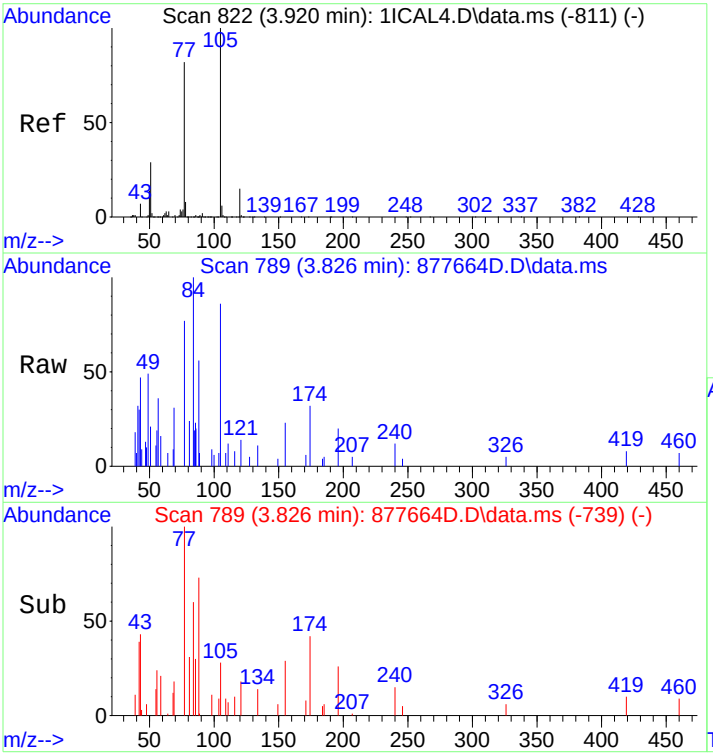
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\877664D.D Vial: 17
Acq On : 15 Dec 2010 15:32 Operator: RPN
Sample : 72515,877664,10 Inst : SVMS1
Misc : 500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 15:46:47 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

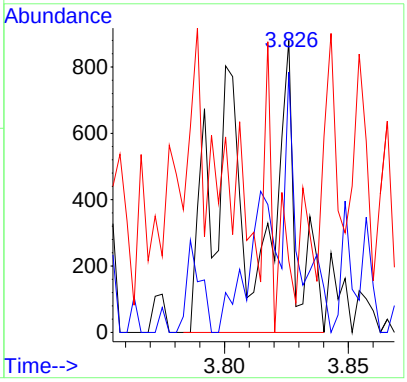


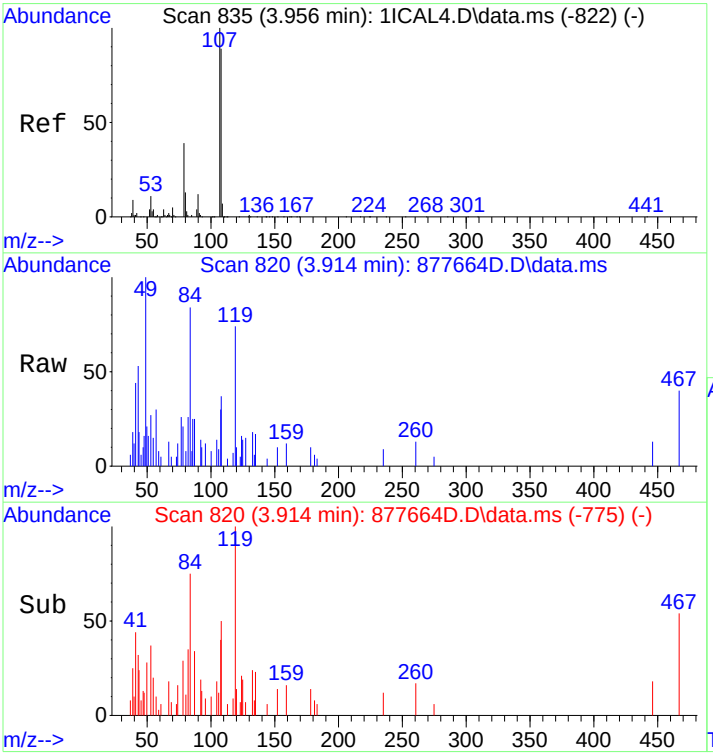


#17
Acetophenone
Concen: 0.07 ug/mL
RT: 3.826 min Scan# 789
Delta R.T. 0.028 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:105 Resp: 1147

Ion	Ratio	Lower	Upper
105	100		
77	78.8	42.6	102.6
51	0.0	13.0	73.0#

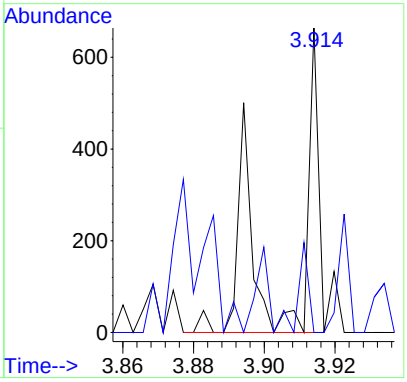


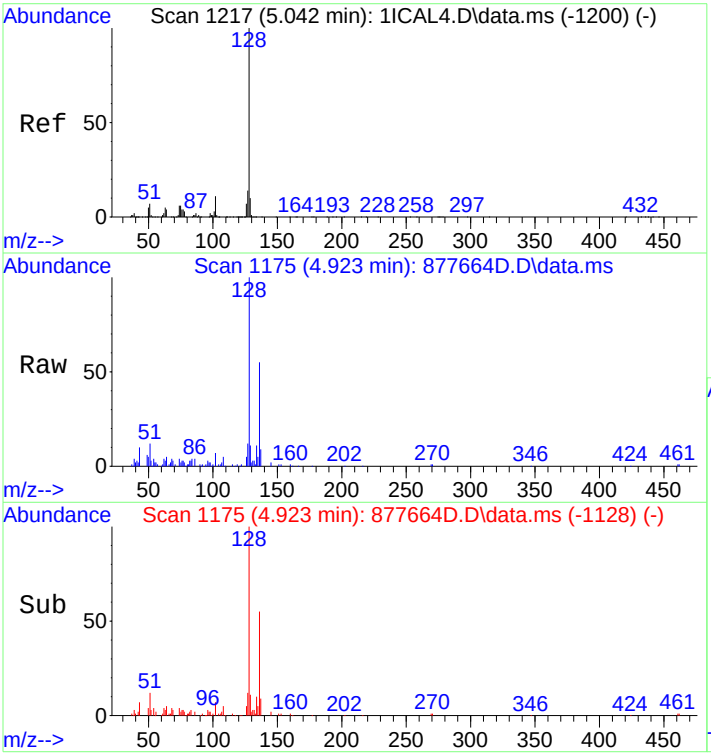


#20
3&4Methylphenol
Concen: 0.02 ug/mL
RT: 3.914 min Scan# 820
Delta R.T. 0.077 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:108 Resp: 263

Ion	Ratio	Lower	Upper
108	100		
107	44.3	77.7	137.7#

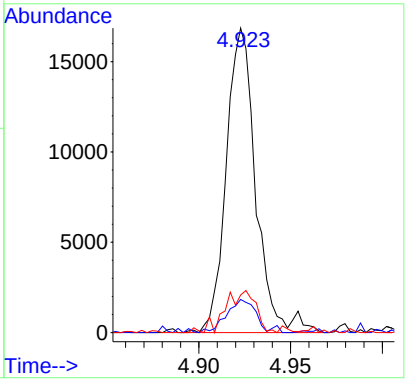


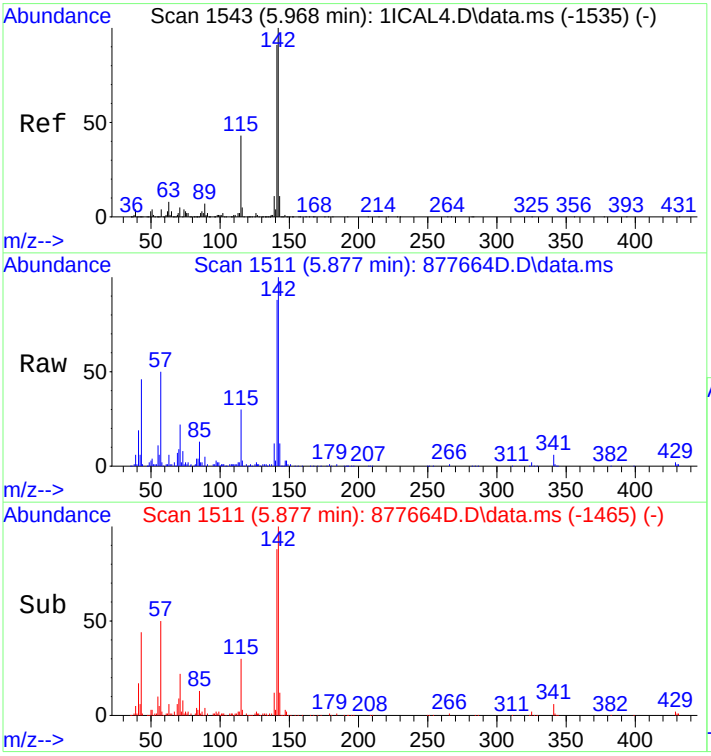


#31
Naphthalene
Concen: 0.50 ug/mL
RT: 4.923 min Scan# 1175
Delta R.T. 0.020 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:128 Resp: 18889

Ion	Ratio	Lower	Upper
128	100		
129	12.4	0.0	40.8
127	12.4	0.0	42.4

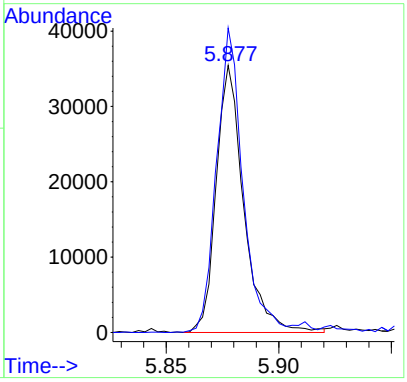


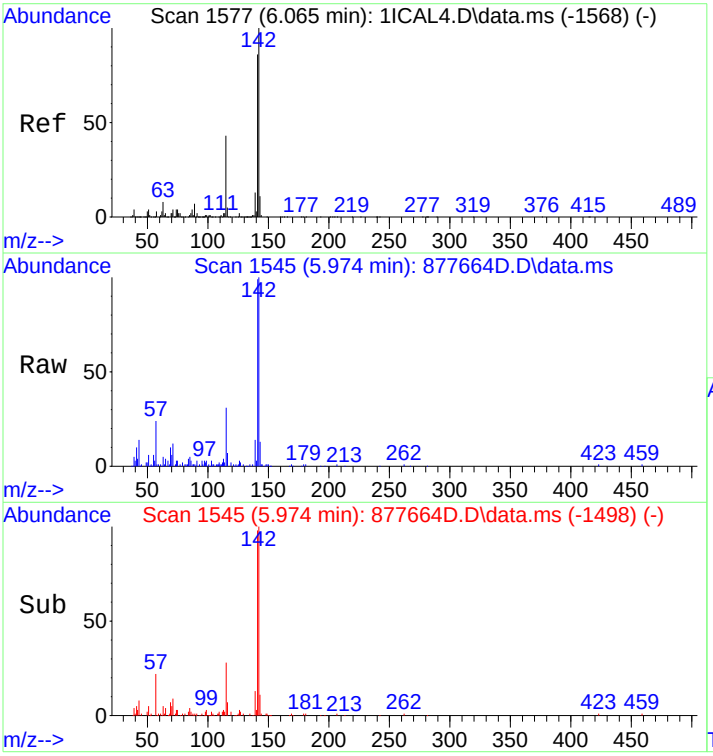


#37
2Methylnaphth
Concen: 1.07 ug/mL
RT: 5.877 min Scan# 1511
Delta R.T. 0.017 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:141 Resp: 30273

Ion	Ratio	Lower	Upper
141	100		
142	113.9	89.1	149.1

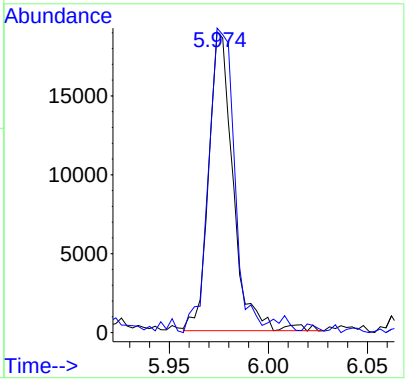


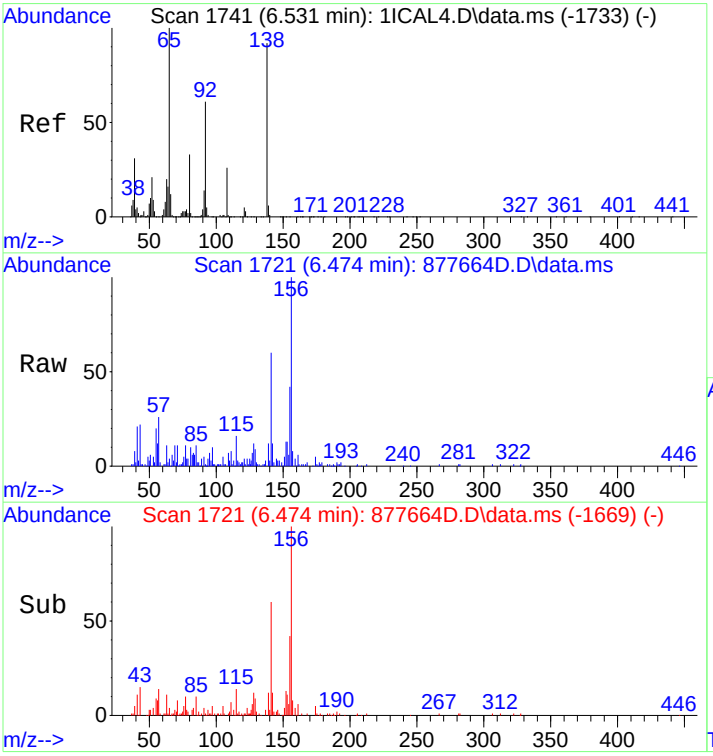


#38
1Methylnaphth
Concen: 0.56 ug/mL
RT: 5.974 min Scan# 1545
Delta R.T. 0.014 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:141 Resp: 16247

Ion	Ratio	Lower	Upper
141	100		
142	101.9	83.6	143.6

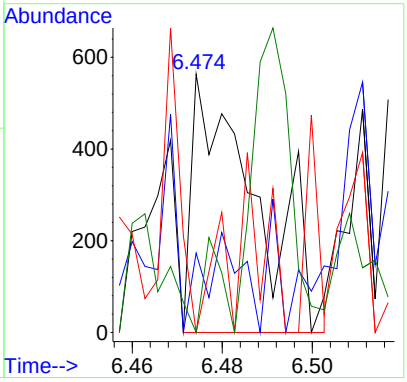


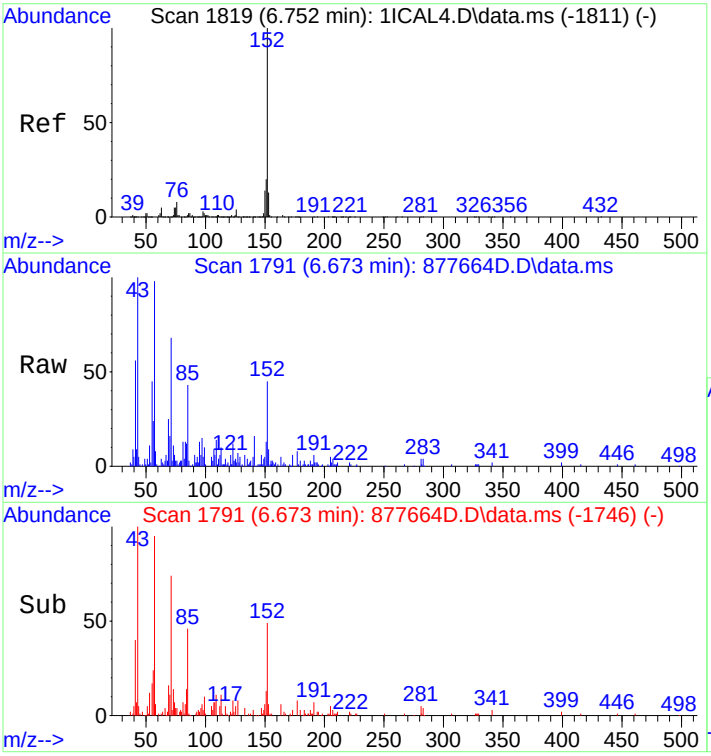


#46
2Nitroaniline
Concen: 0.07 ug/mL
RT: 6.474 min Scan# 1721
Delta R.T. 0.034 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion: 65 Resp: 554

Ion	Ratio	Lower	Upper
65	100		
92	30.7	39.9	99.9#
138	0.0	78.4	138.4#
80	0.0	0.0	55.4

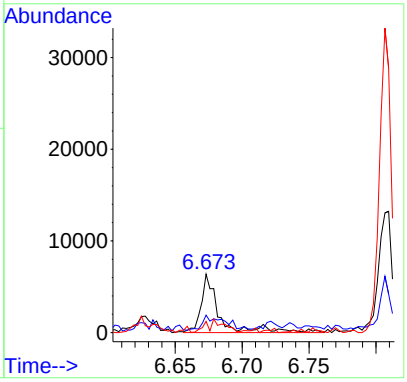


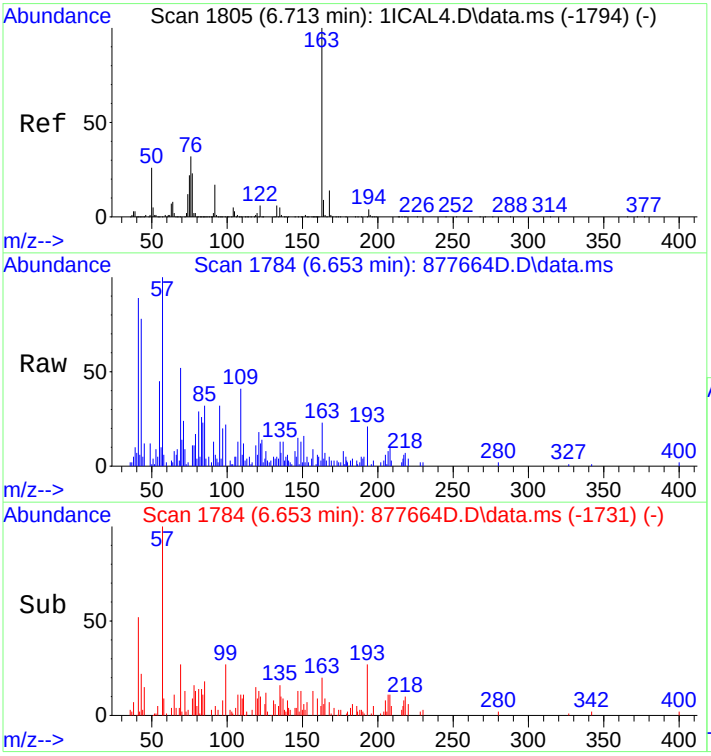


#47
Acnaphthylene
Concen: 0.12 ug/mL
RT: 6.673 min Scan# 1791
Delta R.T. 0.014 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:152 Resp: 5923

Ion	Ratio	Lower	Upper
152	100		
151	25.0	0.0	48.9
153	17.5	0.0	43.2

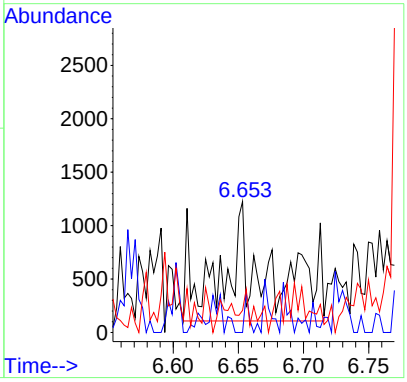


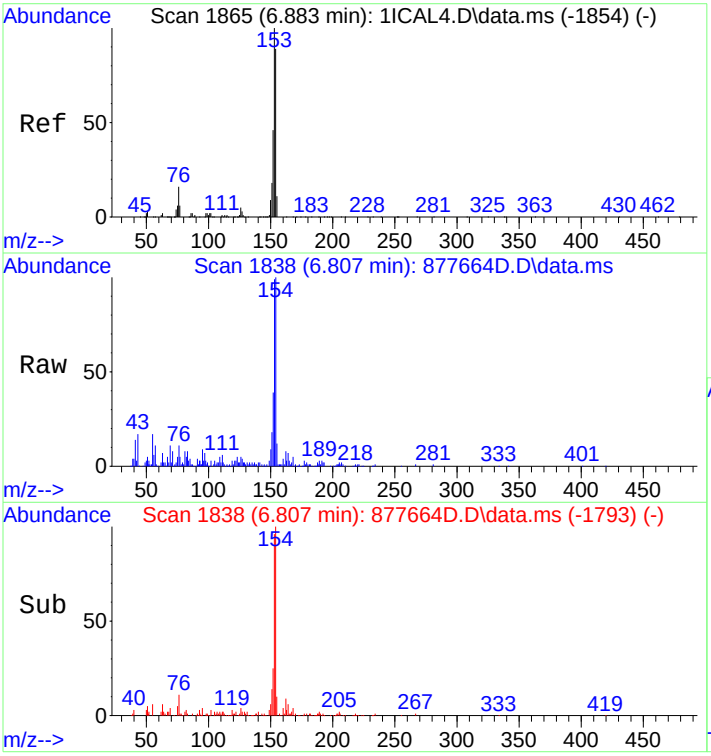


#48
Dimethylphtha
Concen: 0.08 ug/mL
RT: 6.653 min Scan# 1784
Delta R.T. 0.031 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:163 Resp: 2770

Ion	Ratio	Lower	Upper
163	100		
194	0.0	0.0	33.5
164	11.7	0.0	40.0

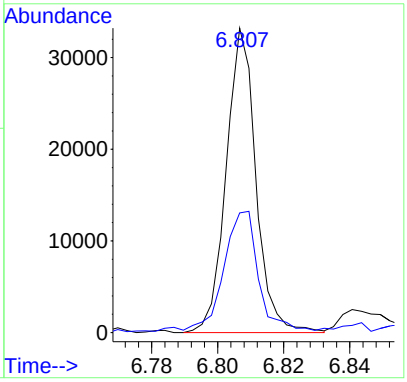


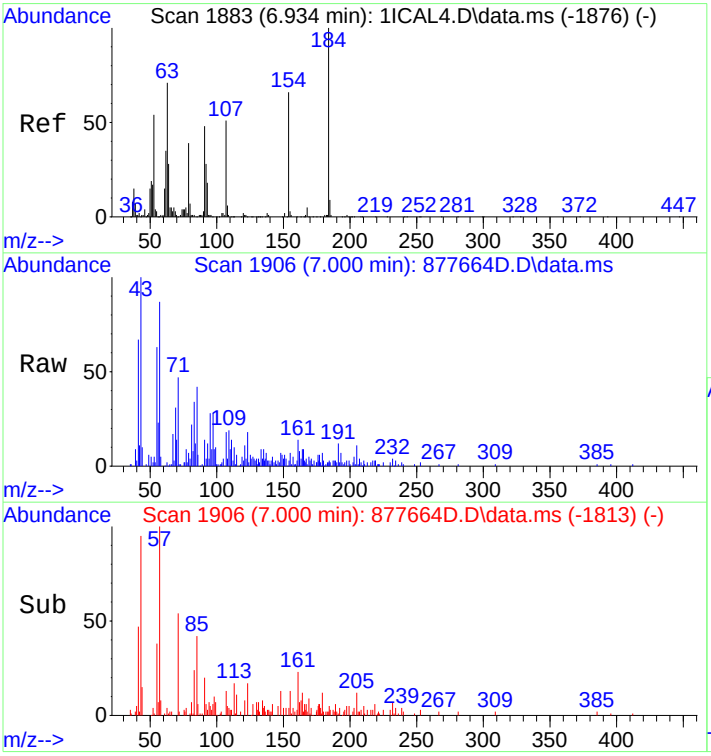


#50
Acenaphthene
Concen: 0.66 ug/mL
RT: 6.807 min Scan# 1838
Delta R.T. 0.014 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:153 Resp: 20815

Ion	Ratio	Lower	Upper
153	100		
152	38.5	15.3	75.3

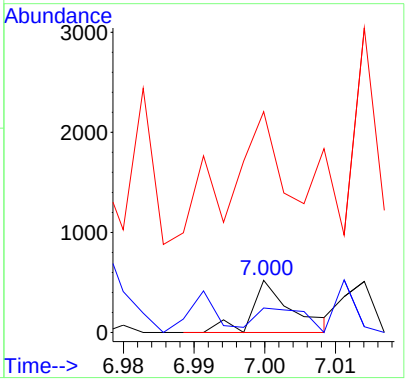


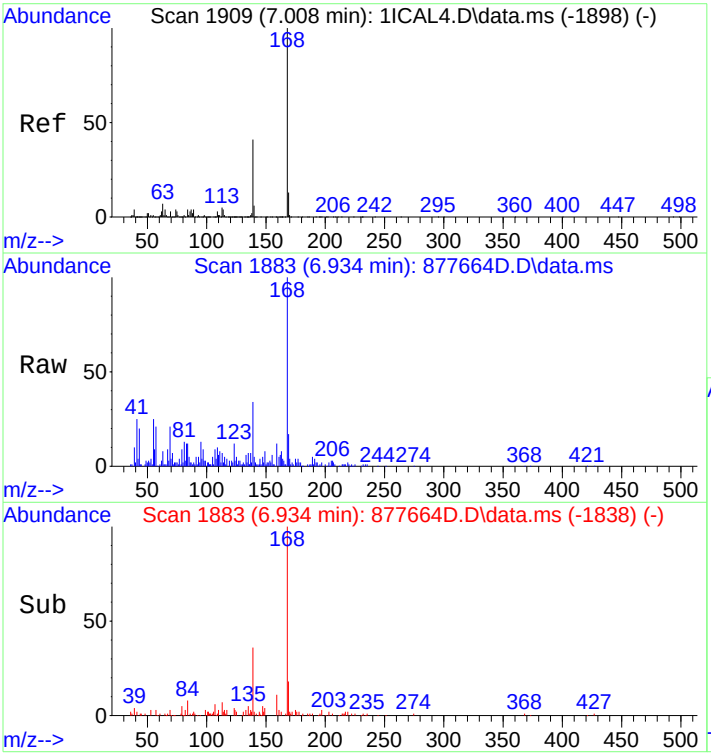


#52
24Dinitphenol
Concen: 2.92 ug/mL
RT: 7.000 min Scan# 1906
Delta R.T. 0.151 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:184 Resp: 208

Ion	Ratio	Lower	Upper
184	100		
63	46.9	63.0	123.0#
107	231.6	0.0	59.2#

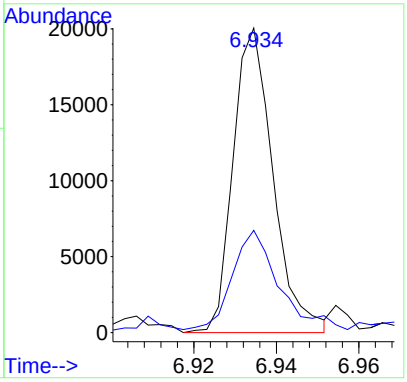


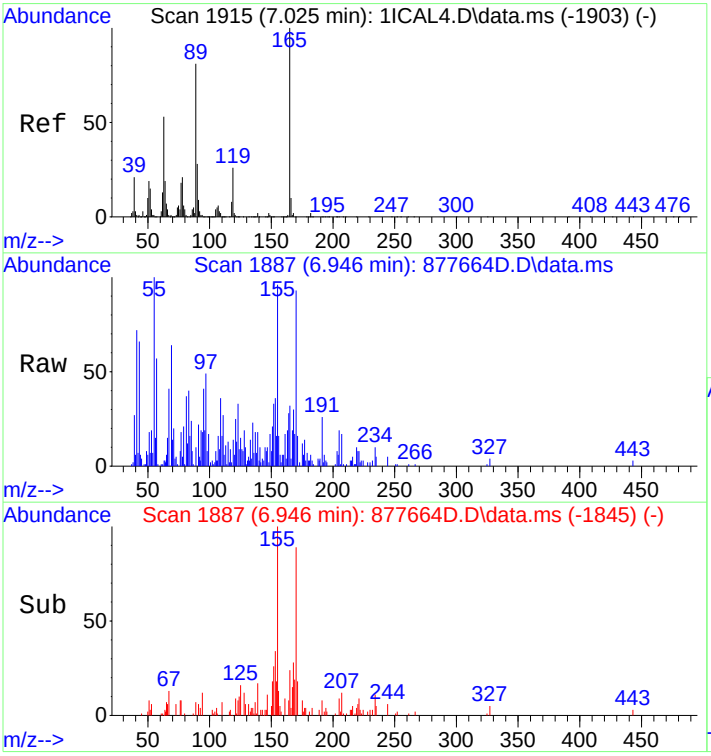


#53
Dibenzofuran
Concen: 0.31 ug/mL
RT: 6.934 min Scan# 1883
Delta R.T. 0.014 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:168 Resp: 13518

Ion	Ratio	Lower	Upper
168	100		
139	32.6	0.0	58.6

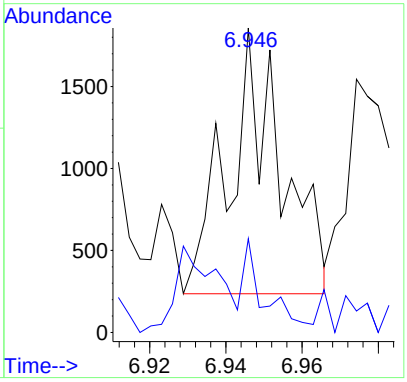


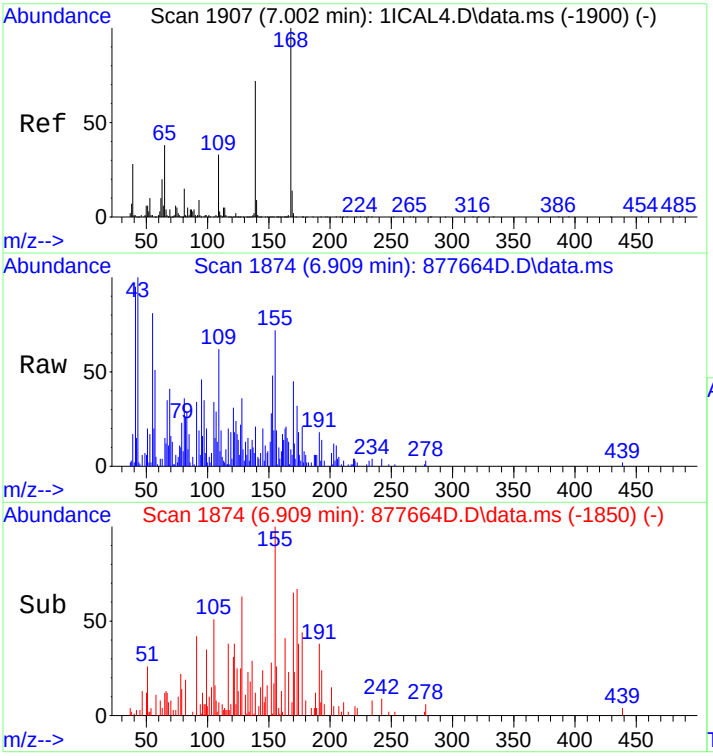


#54
24Dinitrotolu
Concen: 0.15 ug/mL
RT: 6.946 min Scan# 1887
Delta R.T. 0.006 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:165 Resp: 1551

Ion	Ratio	Lower	Upper
165	100		
89	19.2	50.0	110.0#

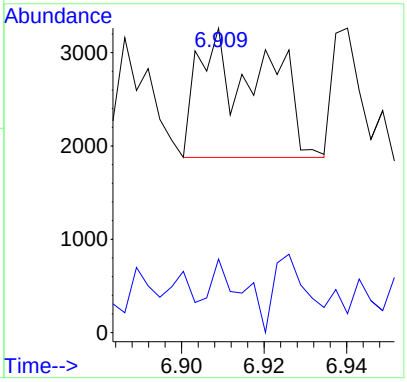


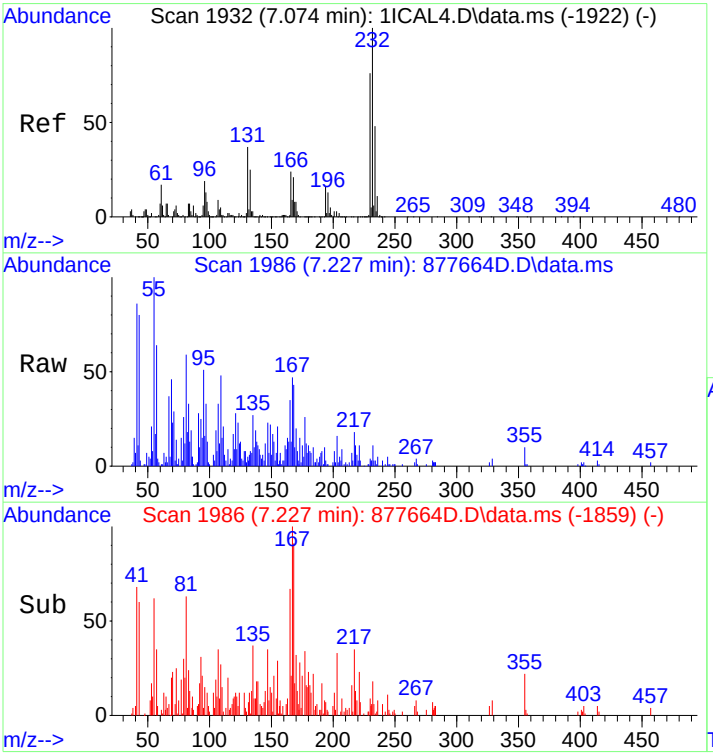


#55
4-Nitrophenol
Concen: 0.51 ug/mL
RT: 6.909 min Scan# 1874
Delta R.T. -0.011 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:109 Resp: 1508

Ion	Ratio	Lower	Upper
109	100		
65	37.5	117.5	177.5#

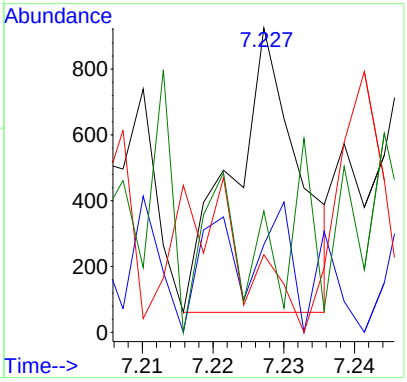


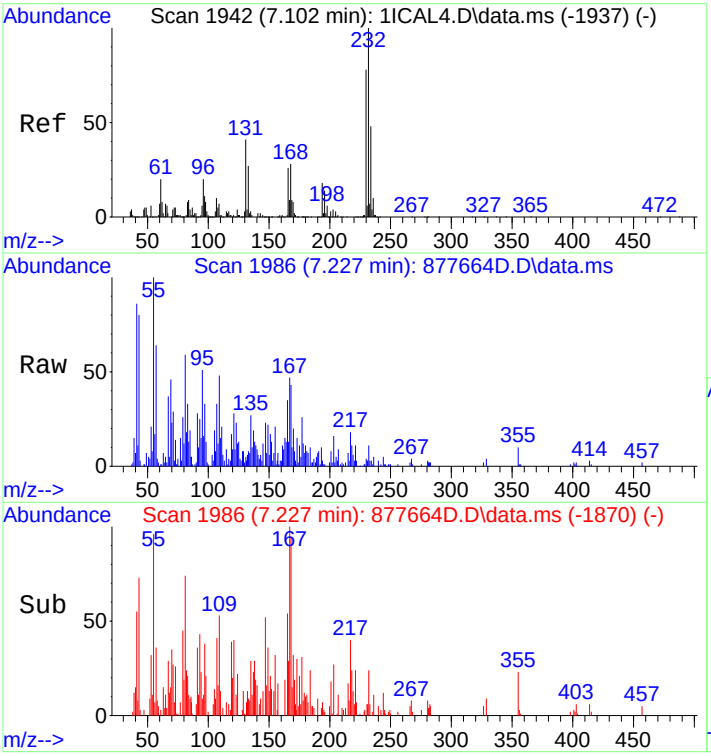


#56
2,3,5,6-Tetrachlorop
Concen: 0.06 ug/mL
RT: 7.227 min Scan# 1986
Delta R.T. 0.242 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:232 Resp: 563

Ion	Ratio	Lower	Upper
232	100		
194	30.8	0.0	46.2
234	4.6	18.2	78.2#
230	67.8	49.2	109.2

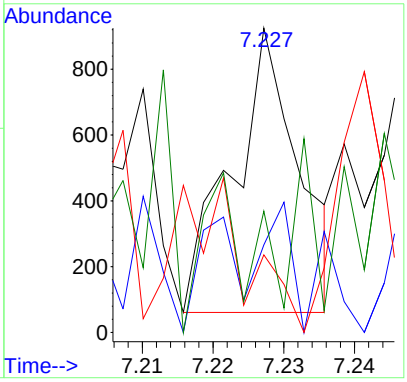


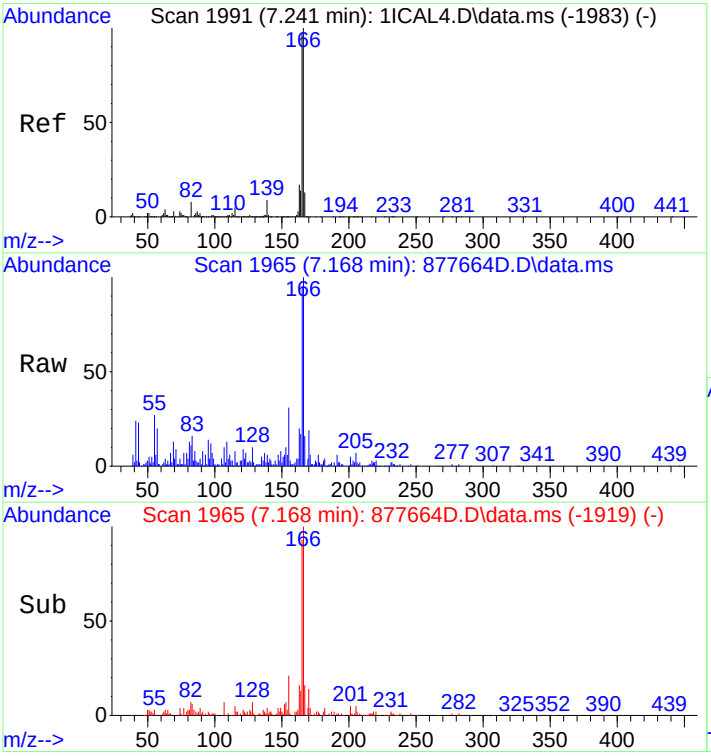


#57
2,3,4,6-Tetrachlorop
Concen: 0.06 ug/mL
RT: 7.227 min Scan# 1986
Delta R.T. 0.210 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:232 Resp: 563

Ion	Ratio	Lower	Upper
232	100		
194	30.8	0.0	46.0
234	4.6	14.8	74.8#
230	67.8	51.0	111.0

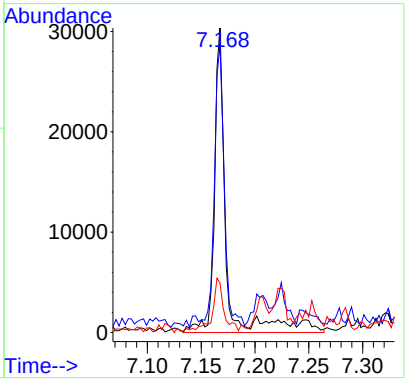


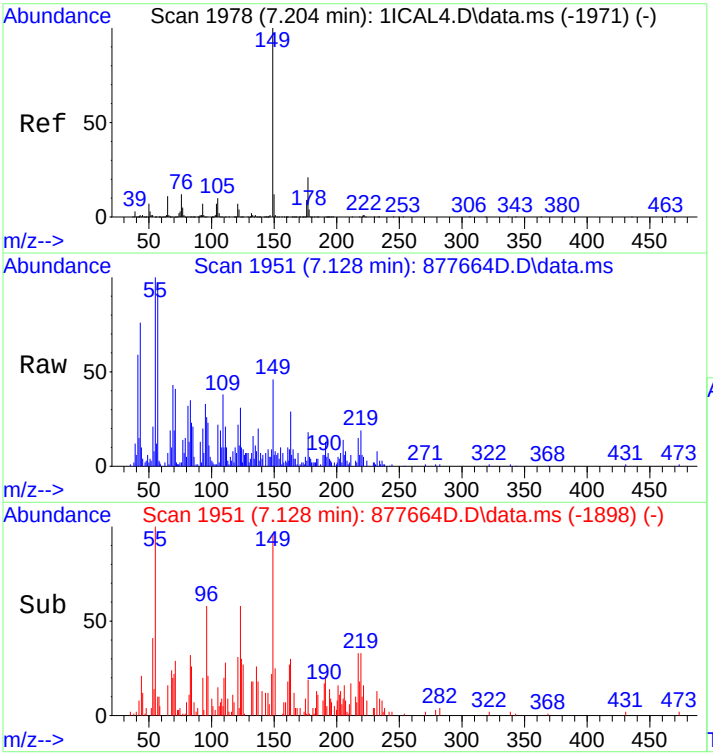


#58
Fluorene
Concen: 0.64 ug/mL
RT: 7.168 min Scan# 1965
Delta R.T. 0.017 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:166 Resp: 22631

Ion	Ratio	Lower	Upper
166	100		
165	92.4	64.4	124.4
167	15.7	0.0	43.1

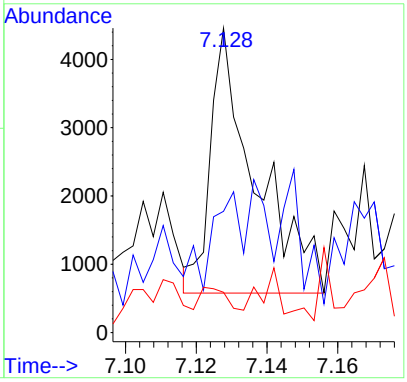


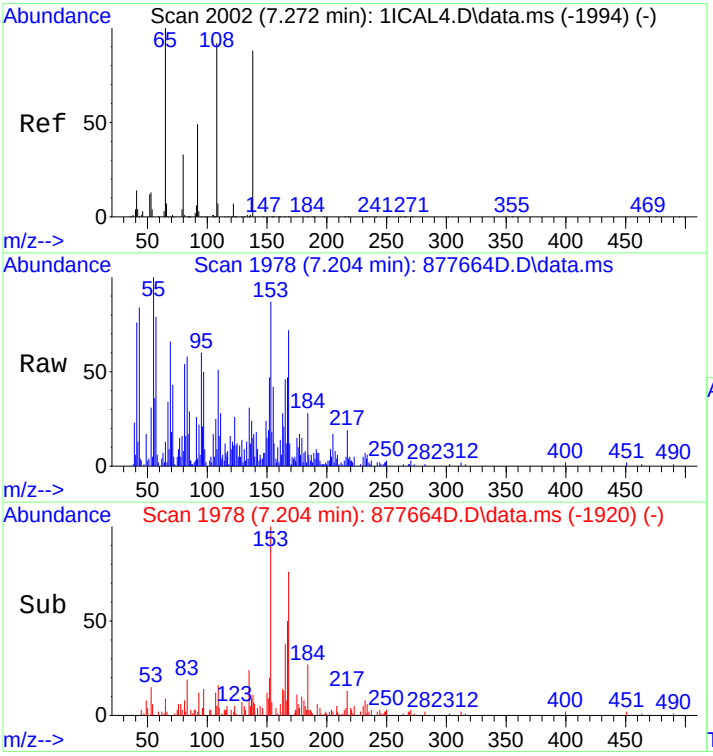


#60
Diethylphthal
Concen: 0.10 ug/mL
RT: 7.128 min Scan# 1951
Delta R.T. 0.006 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:149 Resp: 3454

Ion	Ratio	Lower	Upper
149	100		
177	34.9	0.0	50.8
150	4.9	0.0	41.2

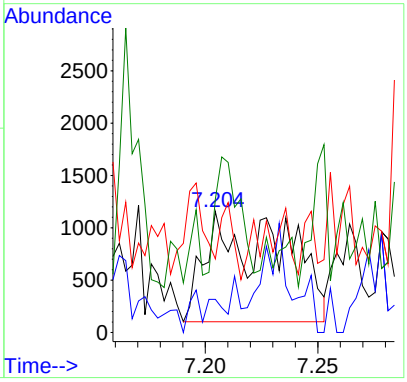


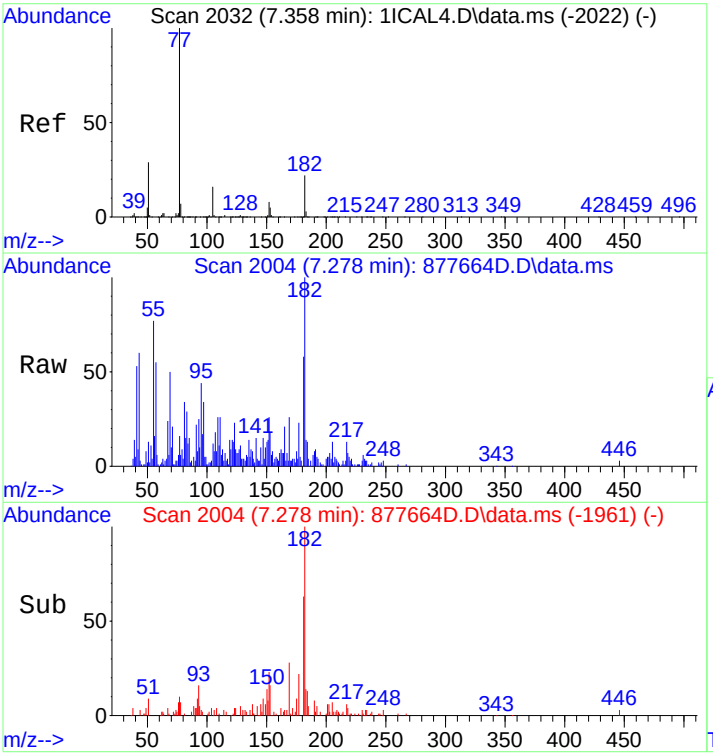


#61
4Nitroaniline
Concen: 0.41 ug/mL
RT: 7.204 min Scan# 1978
Delta R.T. 0.020 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:138 Resp: 2448

Ion	Ratio	Lower	Upper
138	100		
92	38.8	13.2	73.2
108	1.0	40.3	100.3#
139	145.8	0.0	39.9#

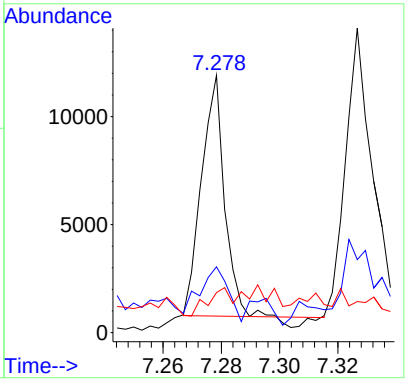


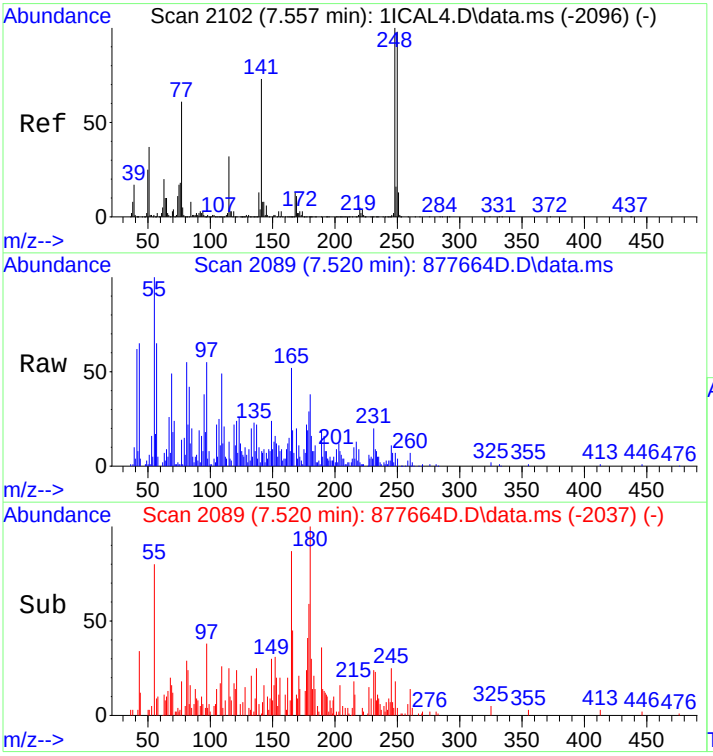


#66
Azobenz&12Diphlhyd
Concen: 0.80 ug/mL
RT: 7.278 min Scan# 2004
Delta R.T. 0.009 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:182 Resp: 5919

Ion	Ratio	Lower	Upper
182	100		
152	19.4	2.4	62.4
77	9.4	390.0	450.0#

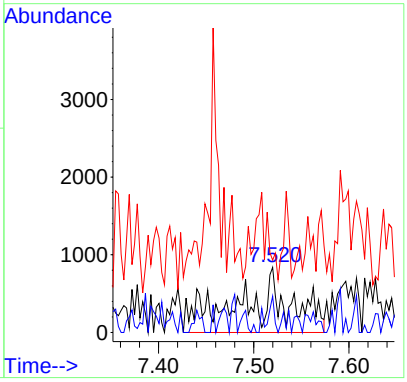


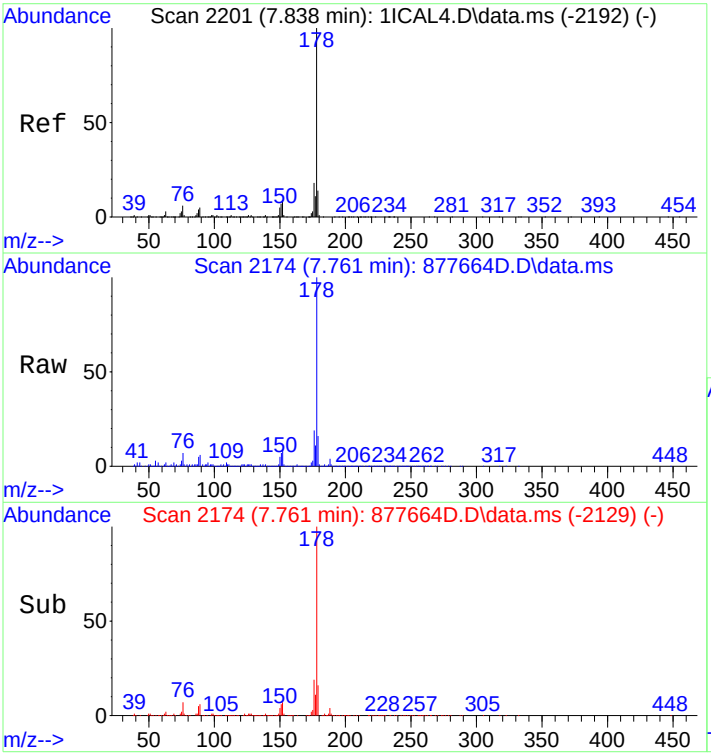


#67
4Brphlphlethr
Concen: 0.30 ug/mL
RT: 7.520 min Scan# 2089
Delta R.T. 0.048 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:248 Resp: 2980

Ion	Ratio	Lower	Upper
248	100		
250	55.8	69.0	129.0#
141	26.6	66.0	126.0#

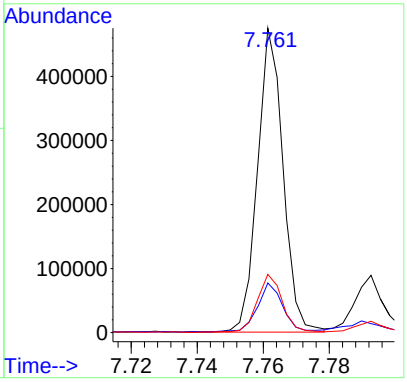


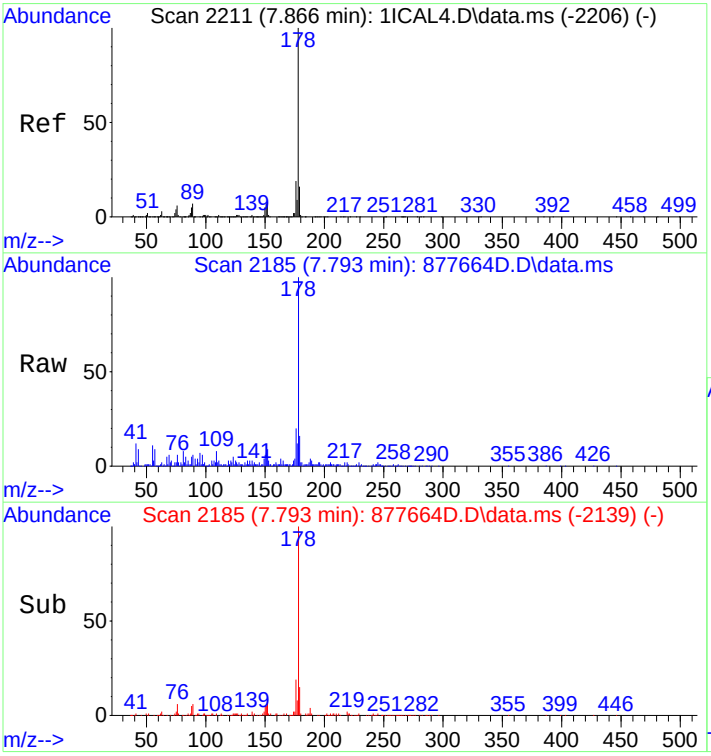


#70
Phenanthrene
Concen: 5.41 ug/mL
RT: 7.761 min Scan# 2174
Delta R.T. 0.014 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:178 Resp: 255086

Ion	Ratio	Lower	Upper
178	100		
179	16.2	0.0	45.5
176	19.0	0.0	48.2

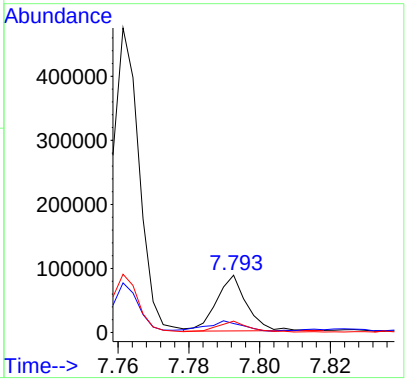


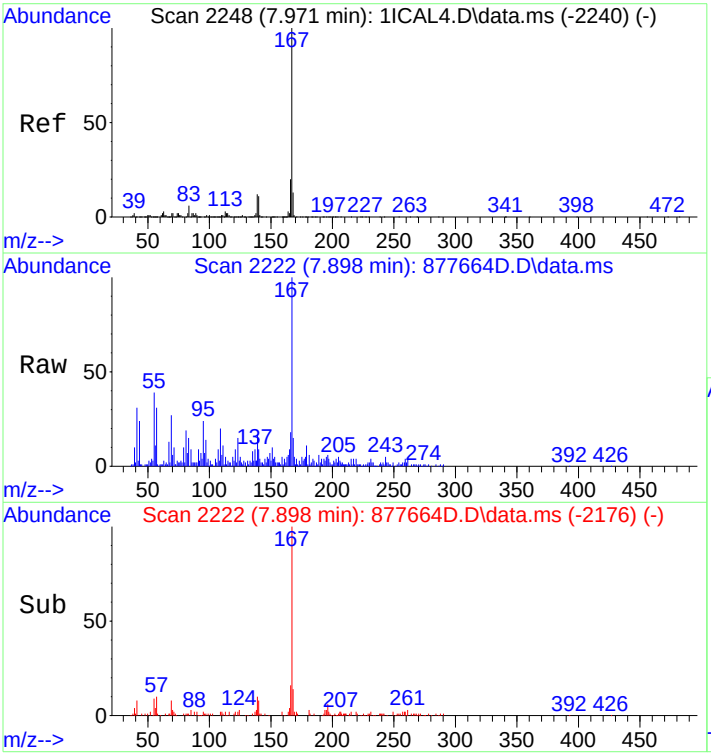


#71
Anthracene
Concen: 1.07 ug/mL
RT: 7.793 min Scan# 2185
Delta R.T. 0.017 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:178 Resp: 51579

Ion	Ratio	Lower	Upper
178	100		
179	11.4	0.0	45.3
176	19.6	0.0	48.0

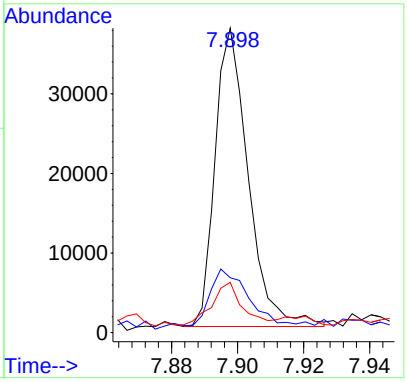


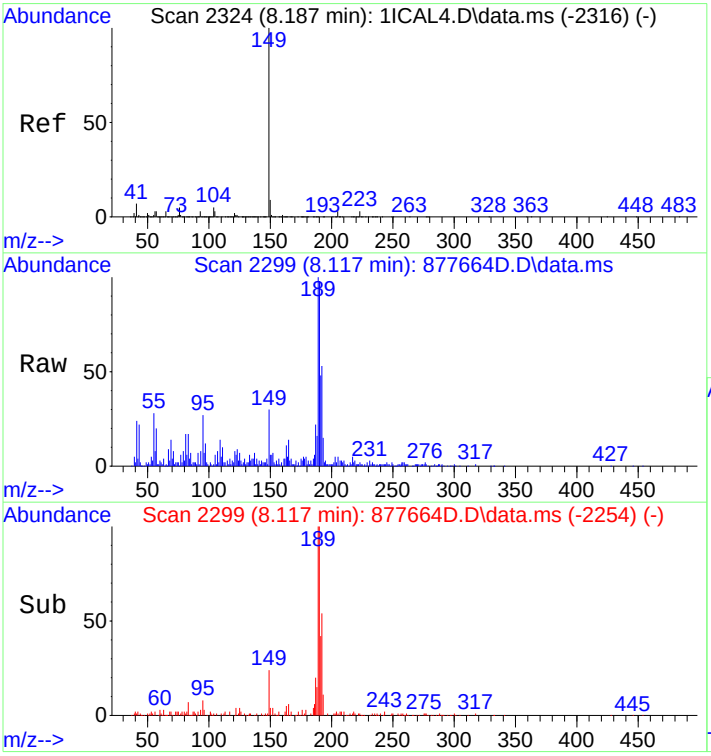


#72
Carbazole
Concen: 0.70 ug/mL
RT: 7.898 min Scan# 2222
Delta R.T. 0.017 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:167 Resp: 26235

Ion	Ratio	Lower	Upper
167	100		
166	16.0	0.0	50.5
139	14.3	0.0	40.7

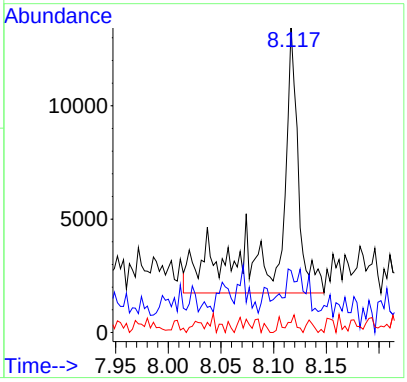


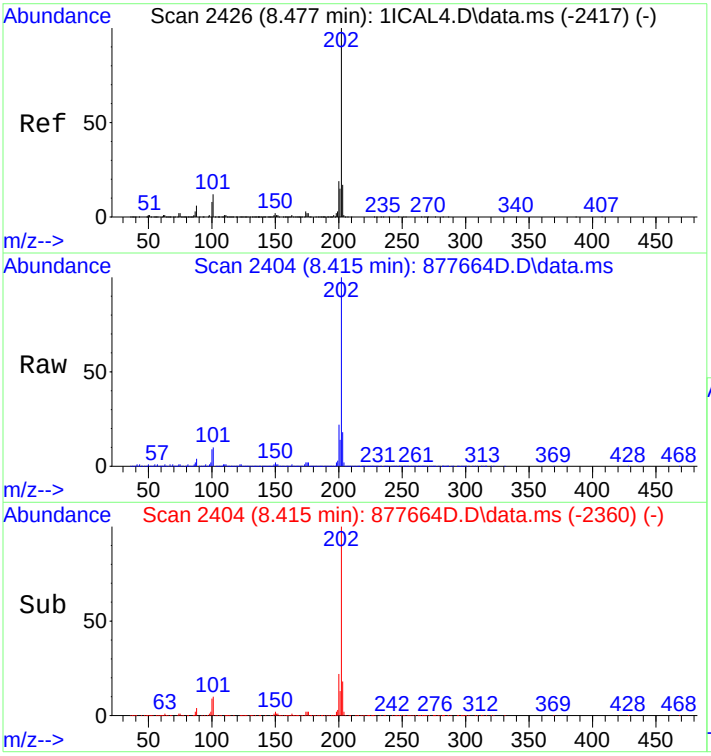


#73
Dinbtylphthal
Concen: 0.30 ug/mL
RT: 8.117 min Scan# 2299
Delta R.T. 0.014 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:149 Resp: 16515

Ion	Ratio	Lower	Upper
149	100		
150	14.2	0.0	38.9
104	3.7	0.0	32.6

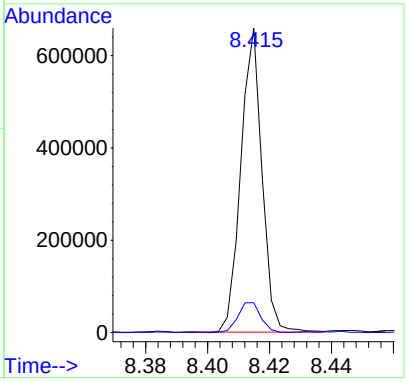


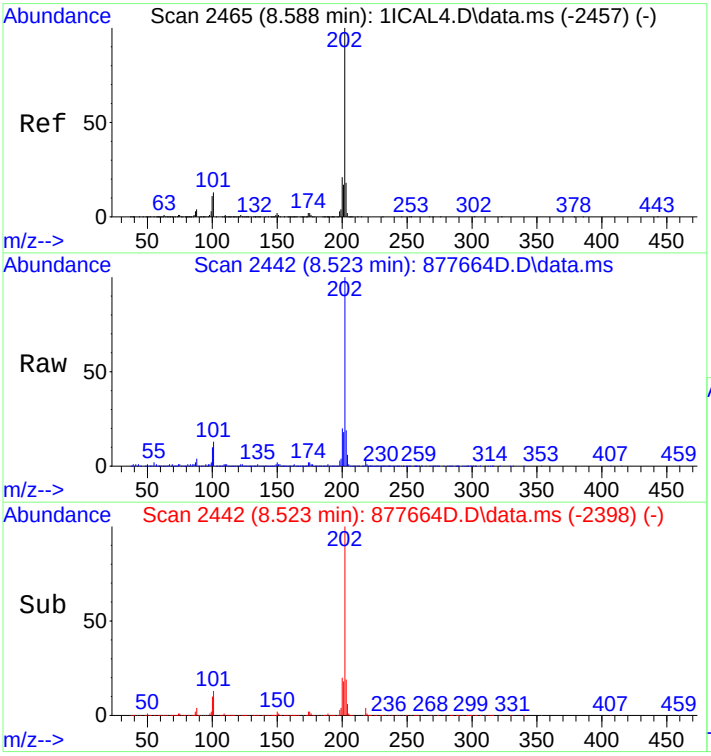


#74
Fluoranthene
Concen: 8.89 ug/mL
RT: 8.415 min Scan# 2404
Delta R.T. 0.011 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:202 Resp: 313017

Ion	Ratio	Lower	Upper
202	100		
101	9.7	0.0	45.6

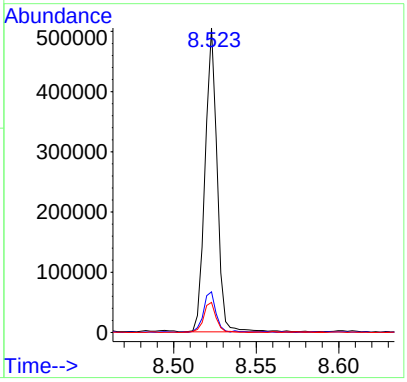


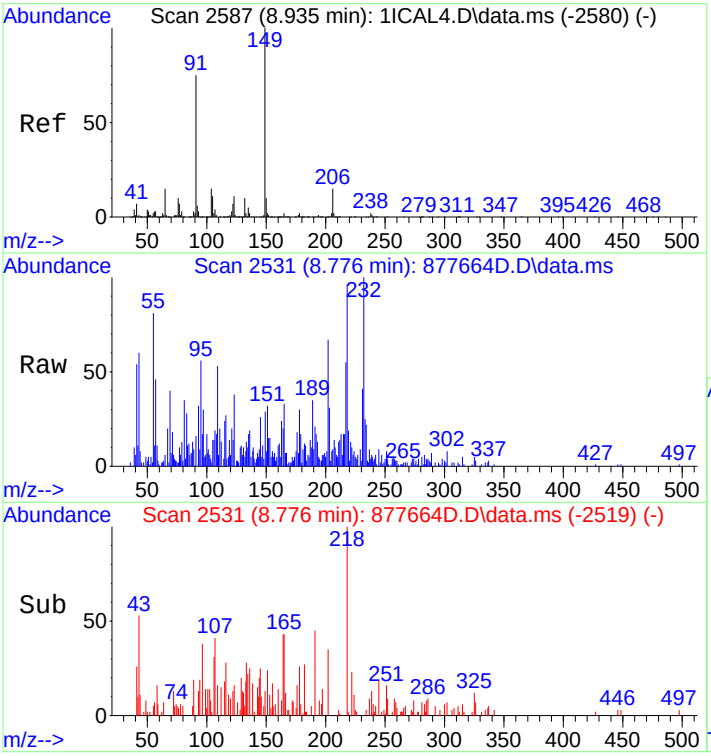


#77
Pyrene
Concen: 6.14 ug/mL
RT: 8.523 min Scan# 2442
Delta R.T. 0.011 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:202 Resp: 256104

Ion	Ratio	Lower	Upper
202	100		
101	13.2	0.0	48.5
100	9.9	0.0	44.2

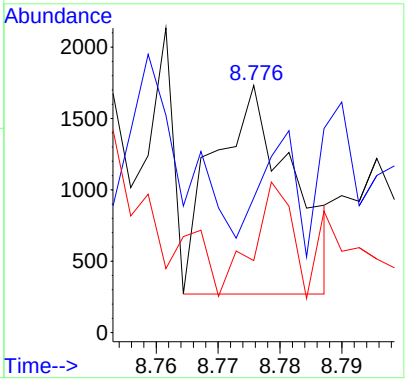


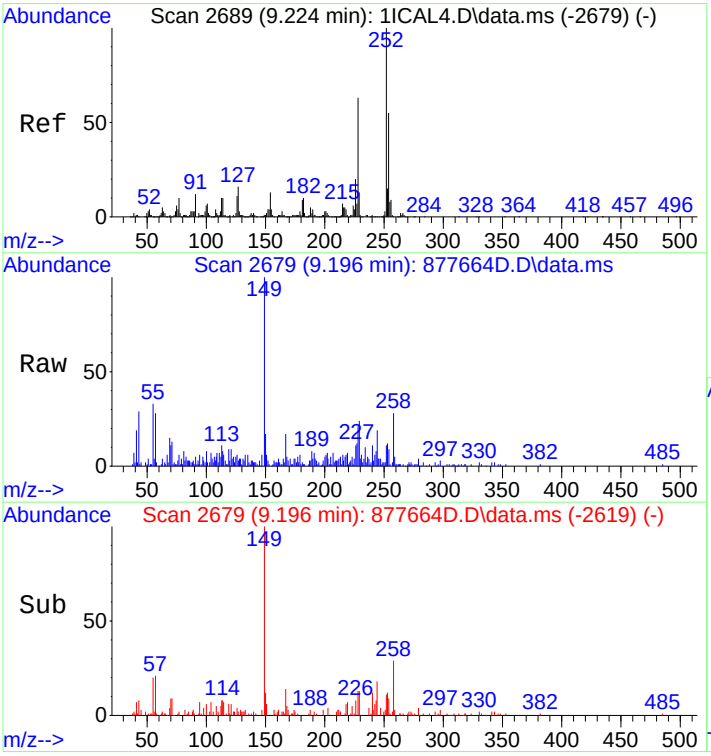


#79
Btylbzylphth
Concen: 0.07 ug/mL
RT: 8.776 min Scan# 2531
Delta R.T. -0.080 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:149 Resp: 1285

Ion	Ratio	Lower	Upper
149	100		
91	3.9	24.4	84.4#
206	0.0	0.0	46.3

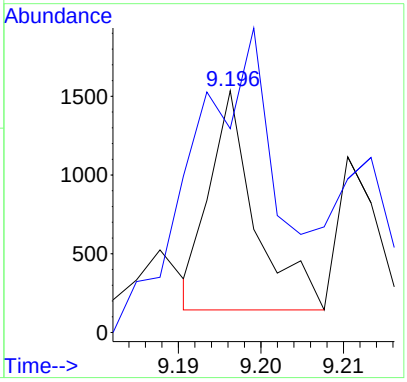


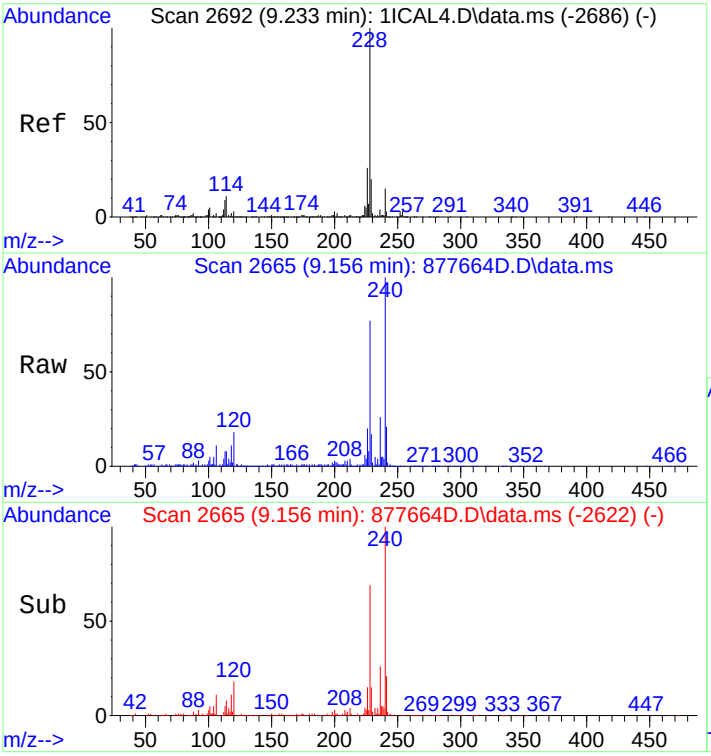


#80
33Diclbnzidin
Concen: Below ug/mL
RT: 9.196 min Scan# 2679
Delta R.T. 0.057 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:252 Resp: 537

Ion	Ratio	Lower	Upper
252	100		
254	44.8	34.5	94.5

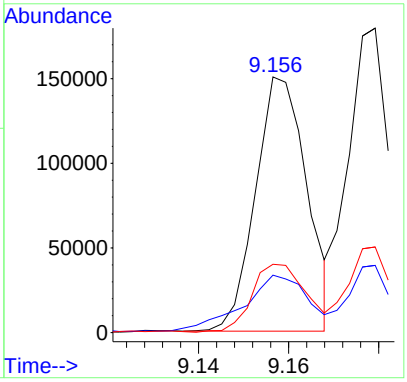


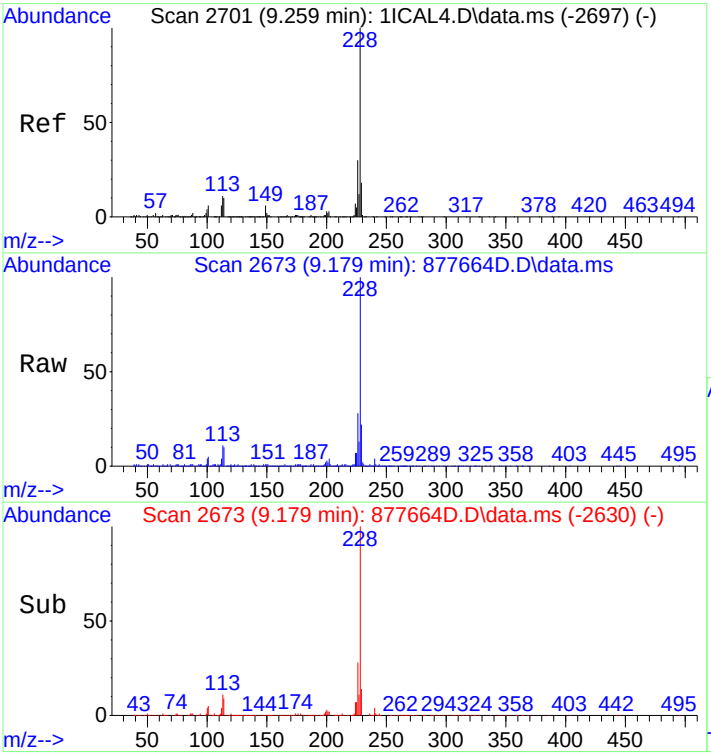


#81
B[a]anthracen
Concen: 3.29 ug/mL
RT: 9.156 min Scan# 2665
Delta R.T. 0.009 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:228 Resp: 119059

Ion	Ratio	Lower	Upper
228	100		
229	20.5	0.0	49.1
226	26.5	0.0	56.4

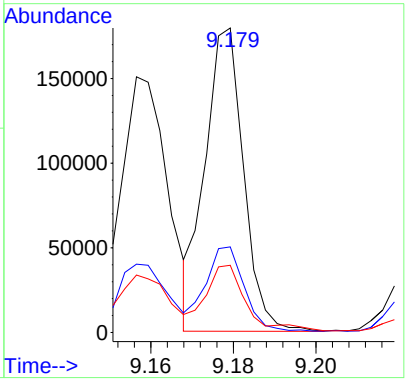


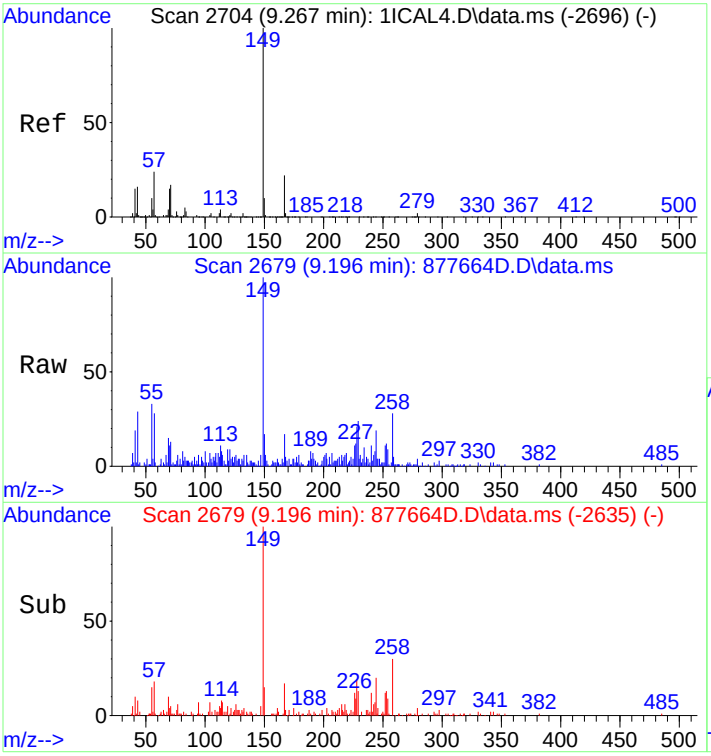


#82
Chrysene
Concen: 3.45 ug/mL
RT: 9.179 min Scan# 2673
Delta R.T. 0.009 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:228 Resp: 116529

Ion	Ratio	Lower	Upper
228	100		
226	27.8	0.0	58.9
229	21.6	0.0	50.1

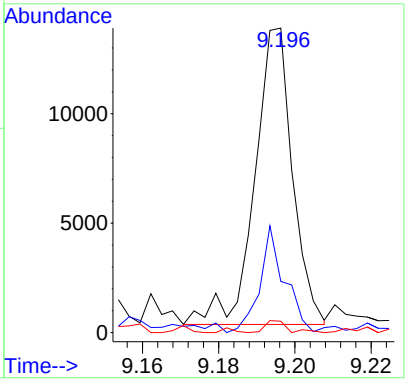


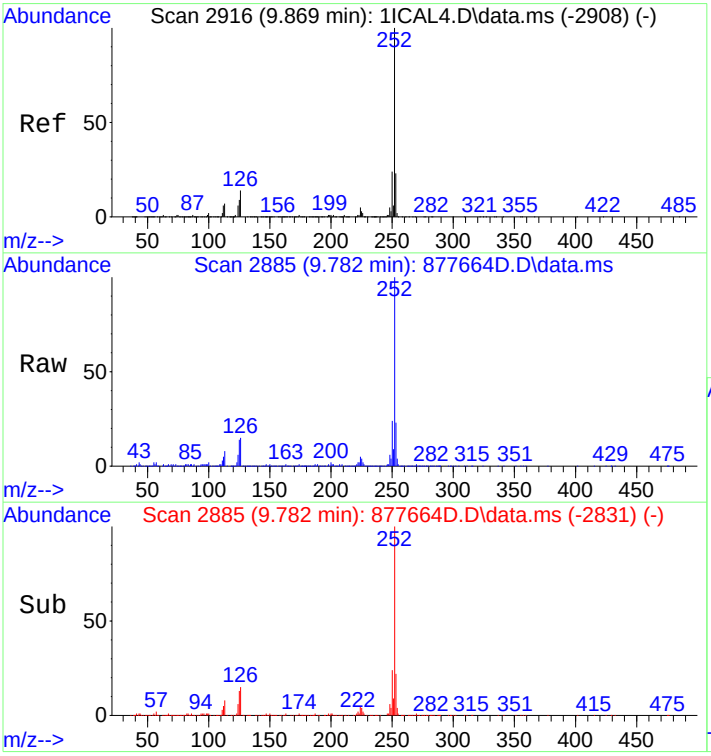


#83
bis2Ethlhxlph
Concen: 0.37 ug/mL
RT: 9.196 min Scan# 2679
Delta R.T. 0.011 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:149 Resp: 9324

Ion	Ratio	Lower	Upper
149	100		
167	15.6	0.0	56.4
279	3.9	0.0	32.7

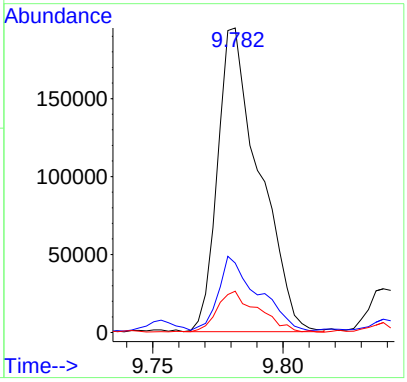


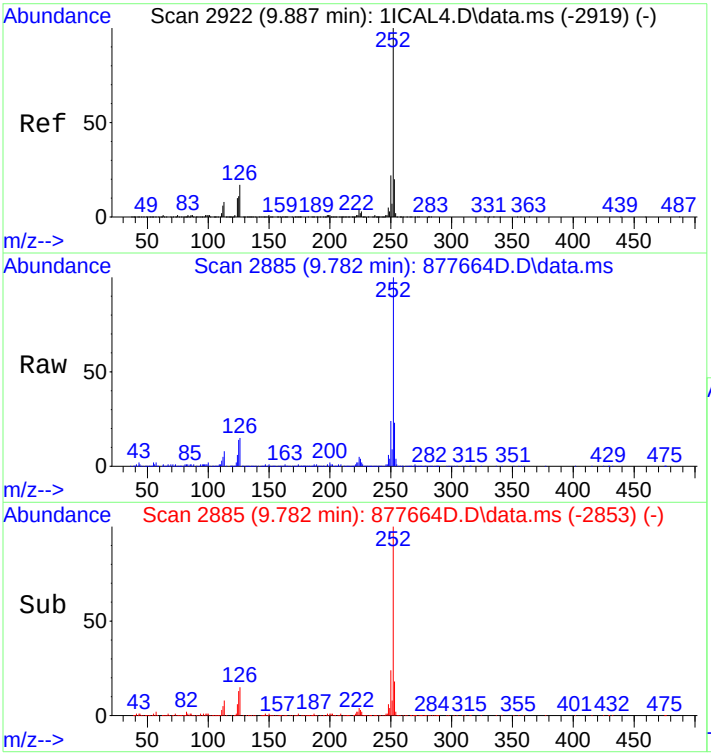


#86
B[b]fluoranth
Concen: 6.01 ug/mL
RT: 9.782 min Scan# 2885
Delta R.T. 0.009 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:252 Resp: 217344

Ion	Ratio	Lower	Upper
252	100		
253	21.8	0.0	51.1
125	13.5	0.0	46.7

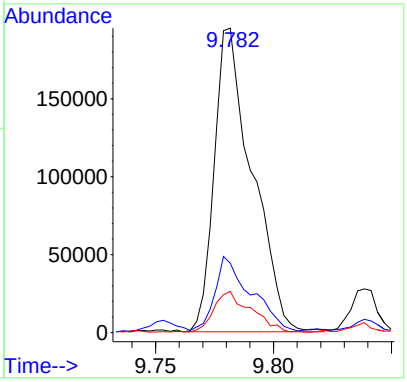


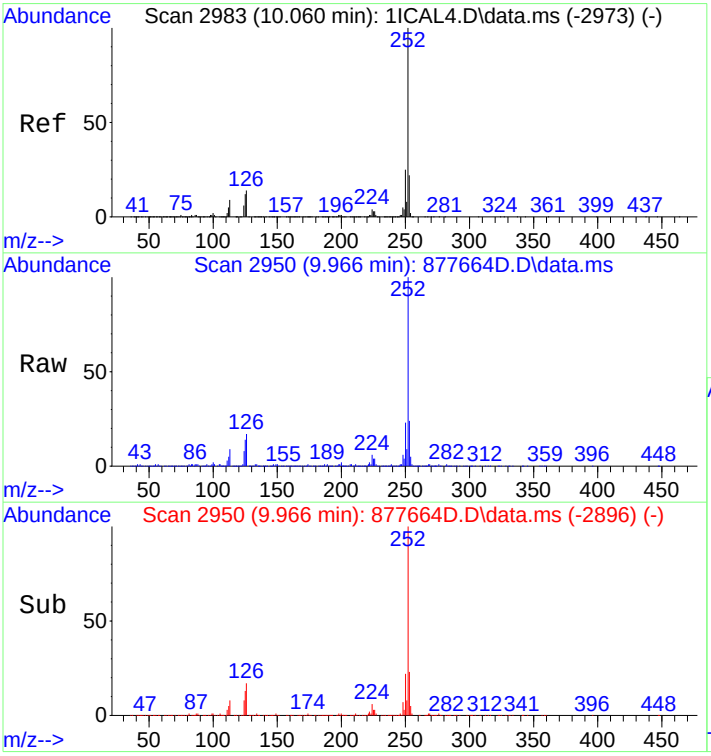


#87
B[k]fluoranth
Concen: 7.15 ug/mL
RT: 9.782 min Scan# 2885
Delta R.T. -0.009 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:252 Resp: 217798

Ion	Ratio	Lower	Upper
252	100		
253	21.8	0.0	52.0
125	13.3	0.0	47.1

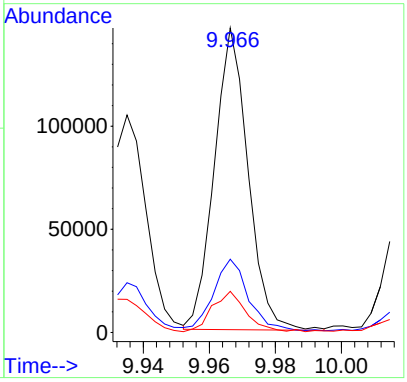


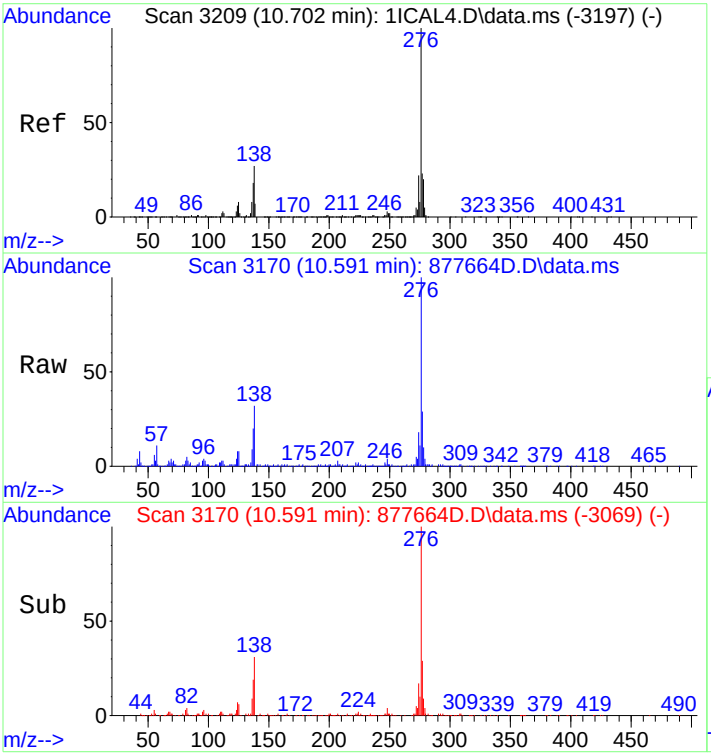


#88
Benz[a]pyrene
Concen: 3.12 ug/mL
RT: 9.966 min Scan# 2950
Delta R.T. 0.009 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:252 Resp: 104199

Ion	Ratio	Lower	Upper
252	100		
253	23.8	0.0	51.1
125	13.4	0.0	50.3

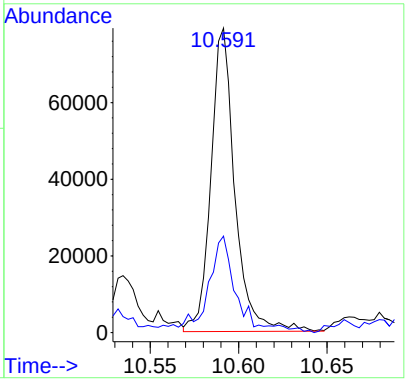


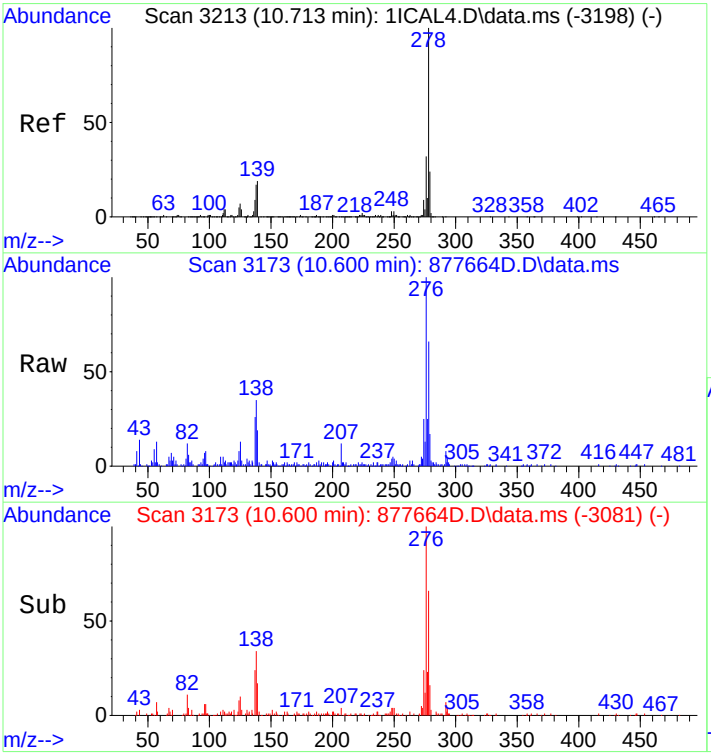


#89
Indeno-pyrene
Concen: 2.27 ug/mL
RT: 10.591 min Scan# 3170
Delta R.T. 0.009 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:276 Resp: 74867

Ion	Ratio	Lower	Upper
276	100		
138	29.5	18.6	78.6

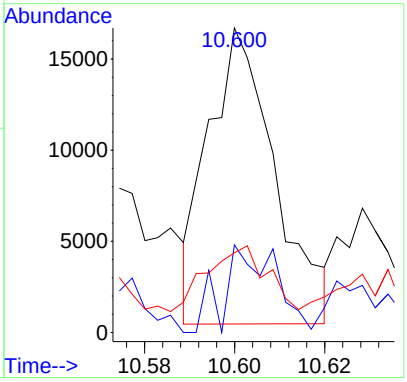


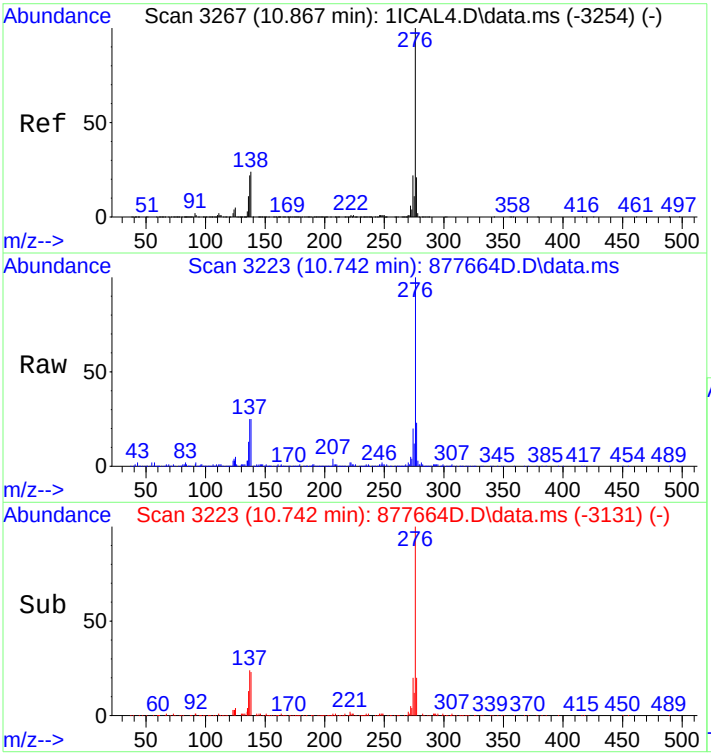


#90
Dib[ah]anthr
Concen: 0.65 ug/mL
RT: 10.600 min Scan# 3173
Delta R.T. 0.003 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:278 Resp: 16695

Ion	Ratio	Lower	Upper
278	100		
139	36.5	2.1	62.1
279	20.7	0.0	53.8

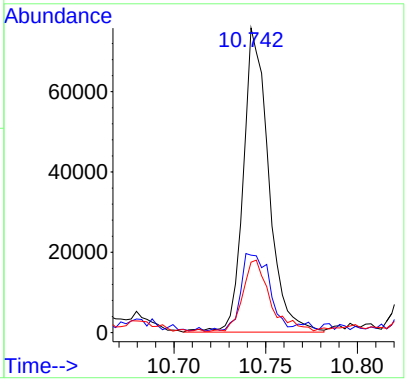




#91
B[ghi]perylen
Concen: 2.54 ug/mL
RT: 10.742 min Scan# 3223
Delta R.T. 0.003 min
Lab File: 877664D.D
Acq: 15 Dec 10 3:32 pm

Tgt Ion:276 Resp: 72861

Ion	Ratio	Lower	Upper
276	100		
138	24.4	14.7	74.7
277	22.1	0.0	53.8



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\877664 .D Vial: 32
Acq On : 15 Dec 2010 20:10 Operator: RPN
Sample : 72515,877664,1 Inst : SVMS1
Misc : 500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 28 10:20:55 2010

RPN 12/27/10

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

manual Integration: benzo(k)fluoranthene. Reason#3

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	3.368	152	216144	20.00	ug/mL	0.00
21) Naphthalened8	4.897	136	764191	20.00	ug/mL	0.00
39) Acenaphthened10	6.790	164	494222	20.00	ug/mL	0.00
63) Phenanthrd10	7.756	188	789924	20.00	ug/mL	0.00
75) Chrysene-d12	9.176	240	543564	20.00	ug/mL	0.00
85) Perylene-d12	10.015	264	476177	20.00	ug/mL	0.01
System Monitoring Compounds						
4) SURR2Flphenol	2.368	112	284725	56.94	%REC	0.03
Spiked Amount 100.000	Range 20 - 110		Recovery = 56.94%			
7) SURRPhenol-d5	3.053	99	392249	67.77	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 67.77%			
22) SURRNitrbenzened5	3.977	82	153938	66.95	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 66.95%			
44) SURR2Flbiphenyl	6.270	172	499544	73.26	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 73.26%			
62) SURR246Tribrphenl	7.329	330	86270	58.77	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 58.77%			
78) SURRTerphenyl-d14	8.614	244	300462	74.23	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 74.23%			
Target Compounds						Qvalue
2) Ntrsdimeth	1.647	74	10334	1.4278	ug/mL#	10
3) Pyridine	1.942	79	5214	0.4073	ug/mL	86
5) Aniline	3.045	93	1028	0.0635	ug/mL#	1
6) bis2Clethletr	3.090	93	577	0.0524	ug/mL	62
14) bis2clispreth	3.692	45	932	0.0422	ug/mL	72
15) 2Methylphenol	3.701	108	246	0.0221	ug/mL#	63
17) Acetophenone	3.809	105	12576	0.8097	ug/mL	76
18) Hexaclethane	3.945	117	3710	0.6718	ug/mL#	12
19) N-Ntrsdinprop	3.778	70	700	0.0917	ug/mL#	73
20) 3&4Methylphenol	3.900	108	273	0.0249	ug/mL	85
23) Nitrobenzene	4.096	77	803	0.0740	ug/mL	75
24) Isophorone	4.309	82	1489	0.0693	ug/mL	80
27) bis2clethoxym	4.676	93	578	0.0434	ug/mL#	1
30) Benzoic acid	4.710	105	5557	3.2307	ug/mL#	18
31) Naphthalene	4.923	128	182752	4.8873	ug/mL	97
33) 26Diclphenol	5.119	162	730	0.0698	ug/mL#	43
36) 4Cl3methylphe	5.806	107	1959	0.5789	ug/mL#	34
37) 2Methylnaphth	5.880	141	276884	9.9542	ug/mL	99
38) 1Methylnaphth	5.977	141	150619	5.2579	ug/mL	99
43) 245Triclpheno	6.244	196	979	0.0874	ug/mL#	23
45) 2Clnaphthalen	6.241	162	692	0.0233	ug/mL	64
46) 2Nitroaniline	6.477	65	5249	0.7667	ug/mL#	18
47) Acnaphthylene	6.676	152	44681	0.9898	ug/mL	96
48) Dimethylphtha	6.656	163	18903	0.5696	ug/mL	86
49) 26Dinitrotolu	6.727	165	3126	0.4530	ug/mL	66
50) Acenaphthene	6.809	153	188115	6.5040	ug/mL	98
51) 3Nitroaniline	6.781	138	2688	0.4832	ug/mL#	10
52) 24Dinitphenol	6.855	184	142	2.9125	ug/mL#	13
53) Dibenzofuran	6.937	168	129399	3.2451	ug/mL	92
54) 24Dinitrotolu	6.952	165	5692	0.5924	ug/mL#	22
55) 4-Nitrophenol	6.923	109	10560	3.9357	ug/mL#	1
56) 2,3,5,6-Tetrachlorop	6.986	232	1026	0.1254	ug/mL#	31
57) 2,3,4,6-Tetrachlorop	7.068	232	1568	0.1858	ug/mL#	57
58) Fluorene	7.170	166	173423	5.3452	ug/mL	99

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\877664 .D Vial: 32
Acq On : 15 Dec 2010 20:10 Operator: RPN
Sample : 72515,877664,1 Inst : SVMS1
Misc : 500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 28 10:20:55 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

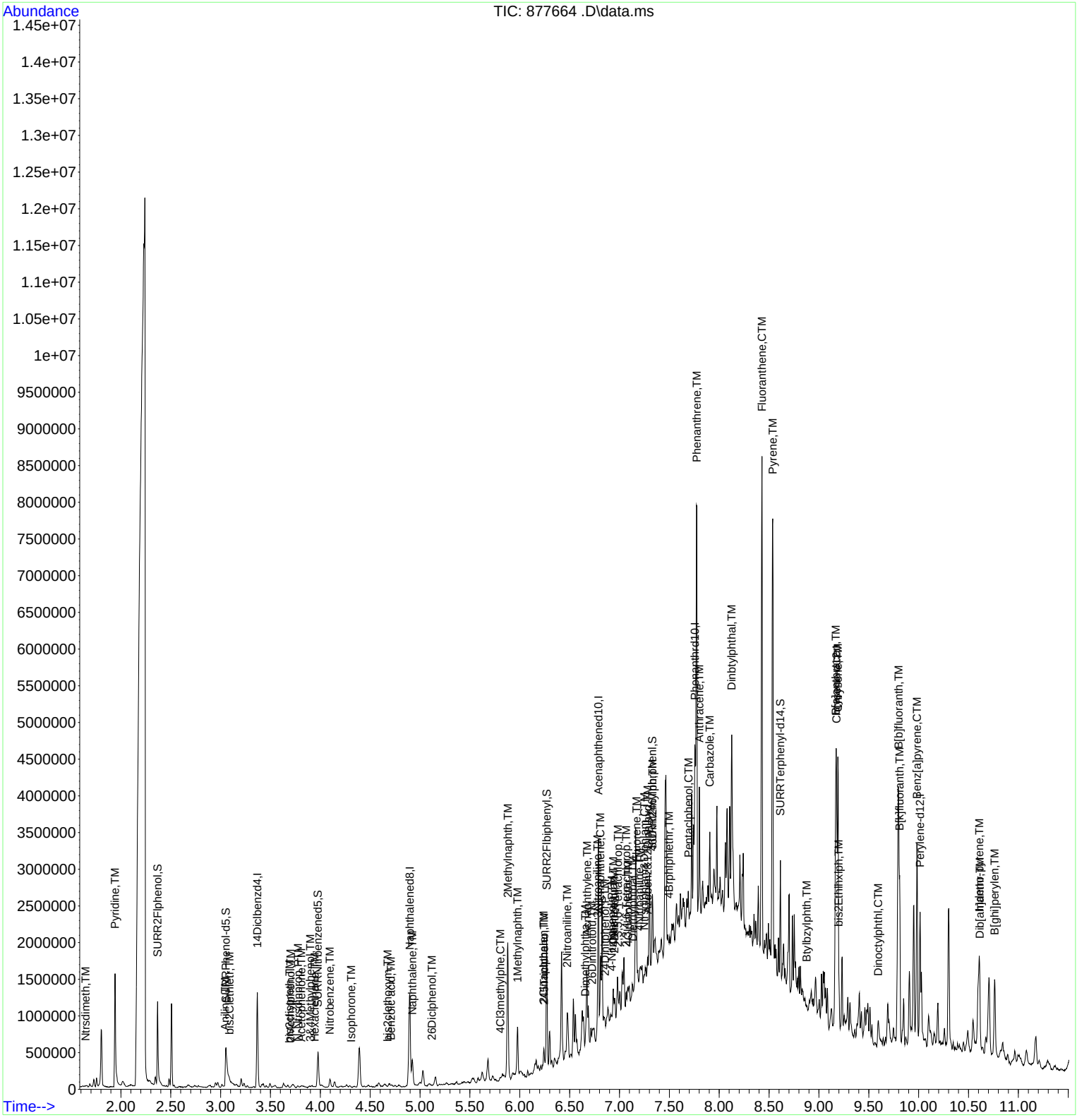
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
59) 4Clphlphlethr	7.088	204	7613	0.4608 ug/mL	78
60) Diethylphthal	7.133	149	15549	0.4686 ug/mL	98
61) 4Nitroaniline	7.199	138	1658	0.3024 ug/mL#	48
64) 46Dinit2mylph	7.332	198	2064	1.8593 ug/mL#	1
65) Ntrsdiphlam&Diphlam	7.250	169	11941	0.6868 ug/mL	78
66) Azobenz&12Diphlhyd	7.281	182	69672	11.0658 ug/mL#	1
67) 4Brphlphlethr	7.497	248	8935	1.0668 ug/mL#	10
69) Pentaclphenol	7.693	266	2730	2.3673 ug/mL#	73
70) Phenanthrene	7.776	178	2032624	50.8193 ug/mL	99
71) Anthracene	7.801	178	499617	12.1741 ug/mL	97
72) Carbazole	7.906	167	247571	7.7374 ug/mL	99
73) Dinbtylphthal	8.125	149	65173	1.3765 ug/mL	85
74) Fluoranthene	8.429	202	2380913	79.6461 ug/mL	92
76) Benzidine	8.614	184	3140	Below Cal	76
77) Pyrene	8.537	202	2018285	54.9813 ug/mL	92
79) Btylbzylphth	8.878	149	4008	0.2489 ug/mL	82
80) 33Diclbnzidin	9.162	252	1358	Below Cal #	48
81) B[a]anthracen	9.171	228	1064508	33.4651 ug/mL	97
82) Chrysene	9.191	228	1002264	33.7364 ug/mL	97
83) bis2Ethlhxlph	9.199	149	78573	3.5478 ug/mL	94
84) Dinoctylphthl	9.594	149	1032	0.0254 ug/mL	63
86) B[b]fluoranth	9.799	252	1396873	47.2347 ug/mL	95
87) B[k]fluoranth	9.810	252	378296m	15.1857 ug/mL	
88) Benz[a]pyrene	9.983	252	857453	31.3974 ug/mL	91
89) Indeno-pyrene	10.608	276	421666	15.6399 ug/mL	77
90) Dib[ah]anthr	10.614	278	95013	4.5094 ug/mL	96
91) B[ghi]perylen	10.762	276	384501	16.3804 ug/mL	89

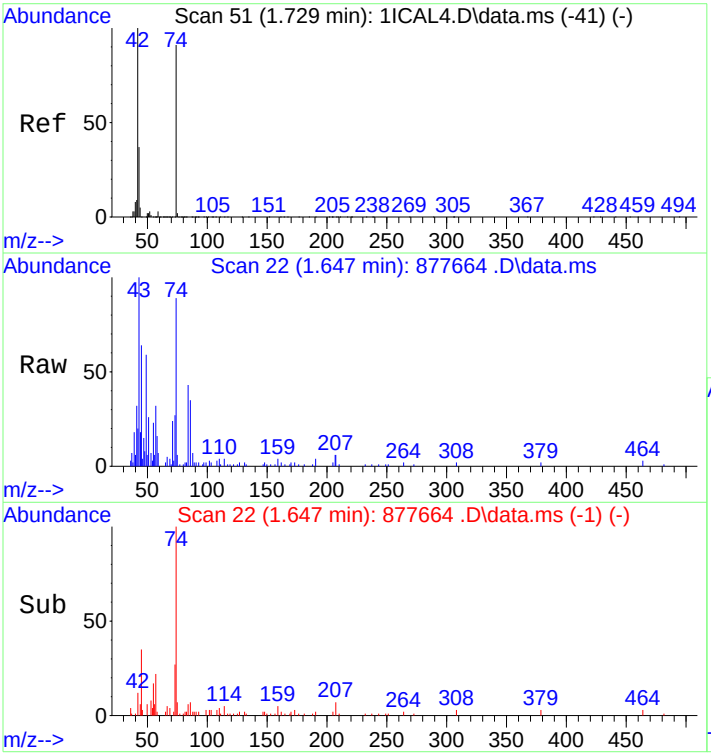
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\877664 .D Vial: 32
Acq On : 15 Dec 2010 20:10 Operator: RPN
Sample : 72515,877664,1 Inst : SVMS1
Misc : 500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 28 10:20:55 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

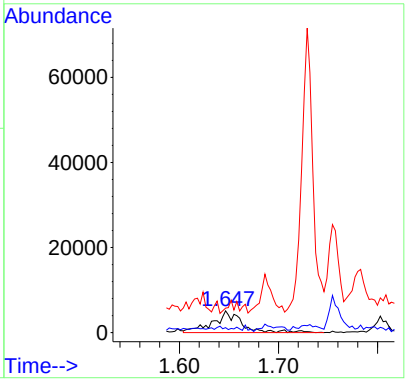


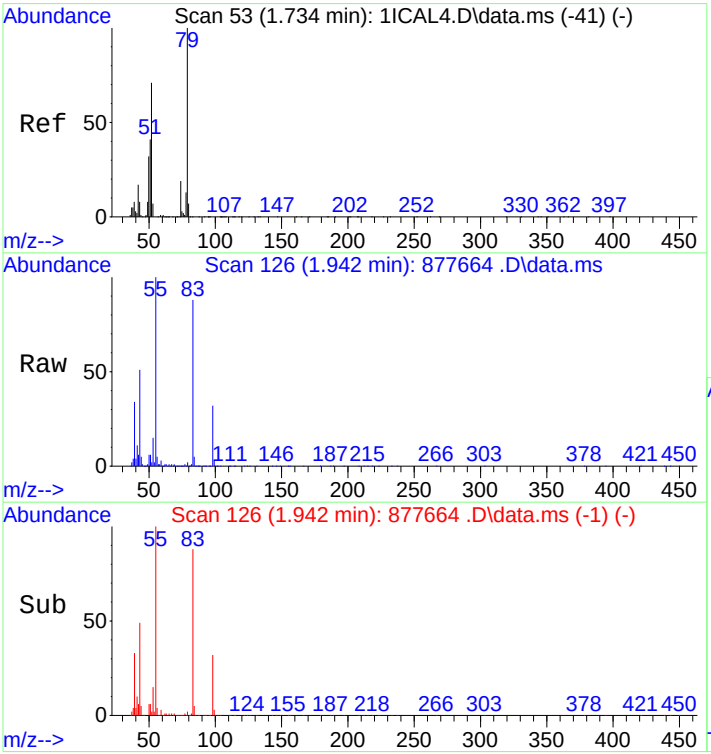


#2
Ntrsdimeth
Concen: 1.43 ug/mL
RT: 1.647 min Scan# 22
Delta R.T. -0.009 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion: 74 Resp: 10334

Ion	Ratio	Lower	Upper
74	100		
42	7.3	81.1	141.1#
43	0.0	20.5	80.5#

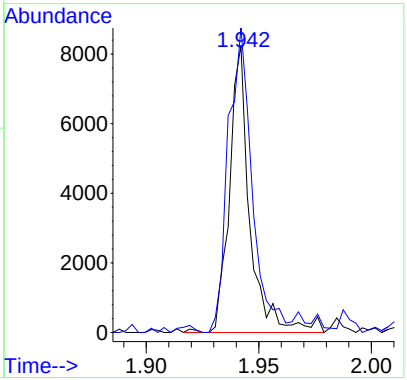


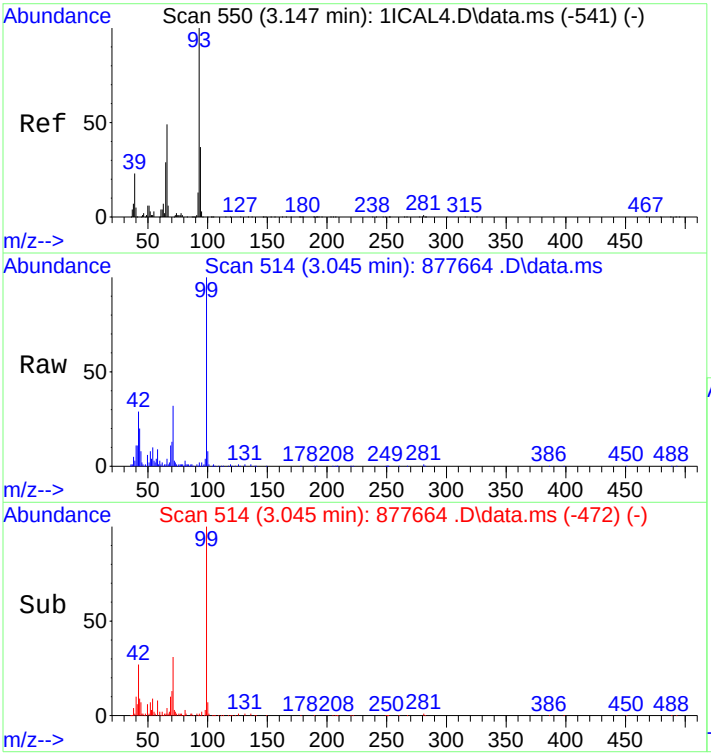


#3
Pyridine
Concen: 0.41 ug/mL
RT: 1.942 min Scan# 126
Delta R.T. 0.278 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion: 79 Resp: 5214

Ion	Ratio	Lower	Upper
79	100		
52	104.4	90.3	150.3

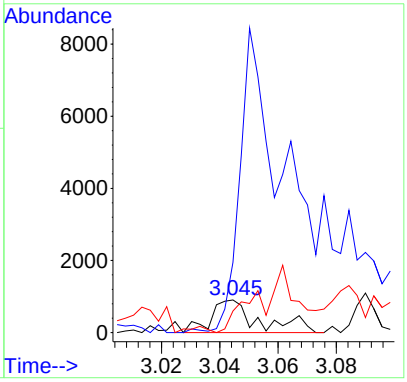


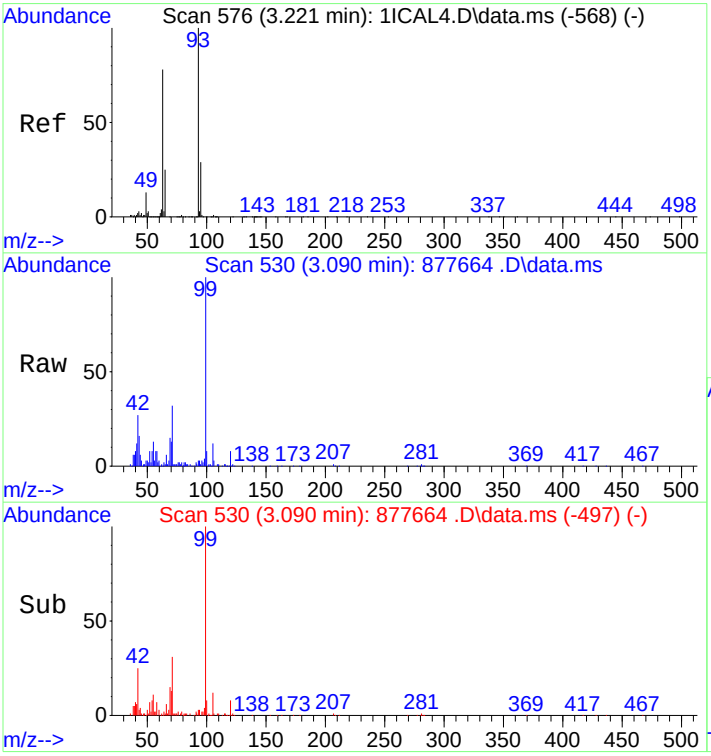


#5
Aniline
Concen: 0.06 ug/mL
RT: 3.045 min Scan# 514
Delta R.T. 0.006 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion: 93 Resp: 1028

Ion	Ratio	Lower	Upper
93	100		
66	995.9	4.4	64.4#
65	0.0	0.0	48.0

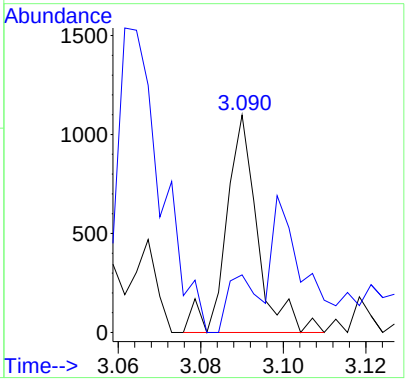


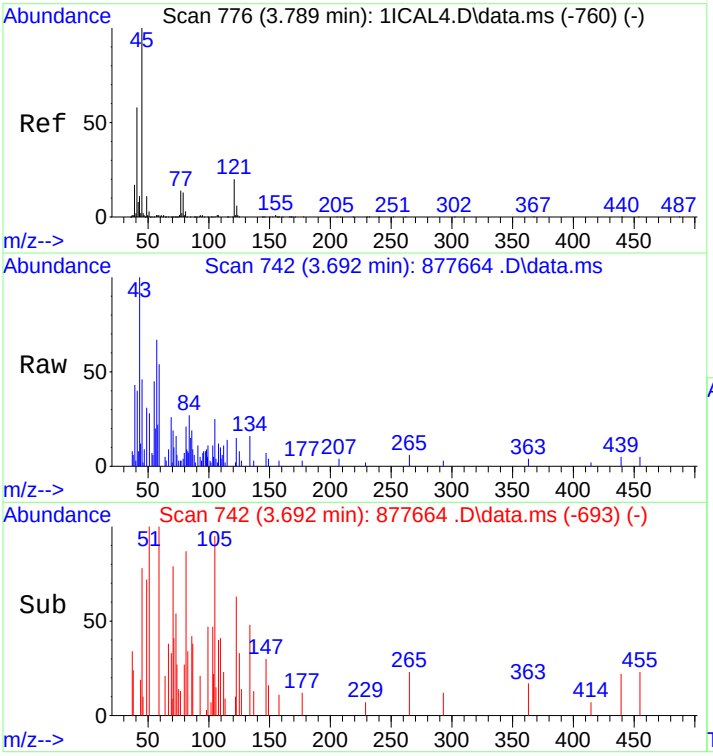


#6
bis2Clethletr
Concen: 0.05 ug/mL
RT: 3.090 min Scan# 530
Delta R.T. -0.020 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion: 93 Resp: 577

Ion	Ratio	Lower	Upper
93	100		
95	11.7	2.8	62.8

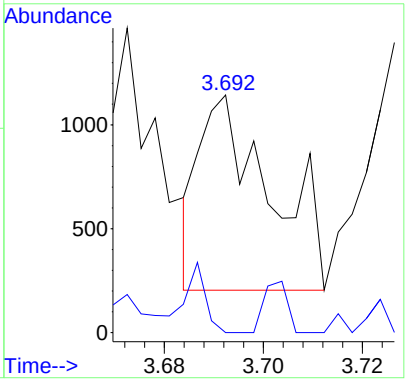


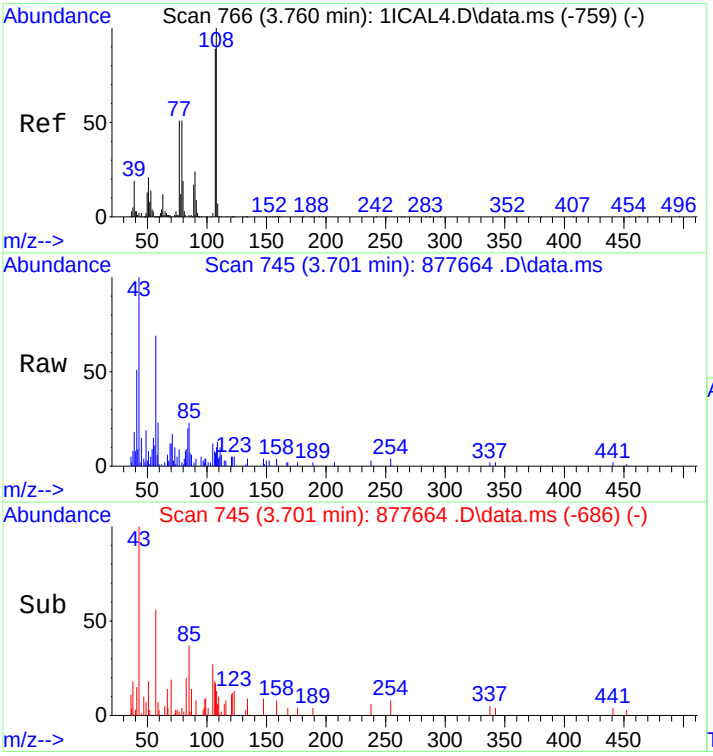


#14
bis2clispreth
Concen: 0.04 ug/mL
RT: 3.692 min Scan# 742
Delta R.T. 0.026 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion: 45 Resp: 932

Ion	Ratio	Lower	Upper
45	100		
121	0.0	0.0	40.7

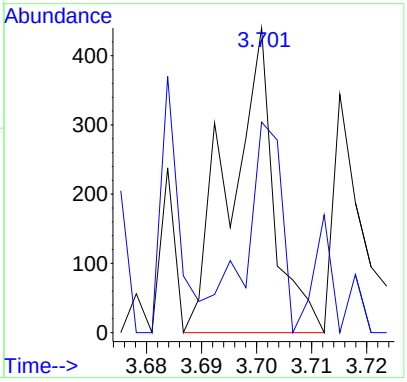


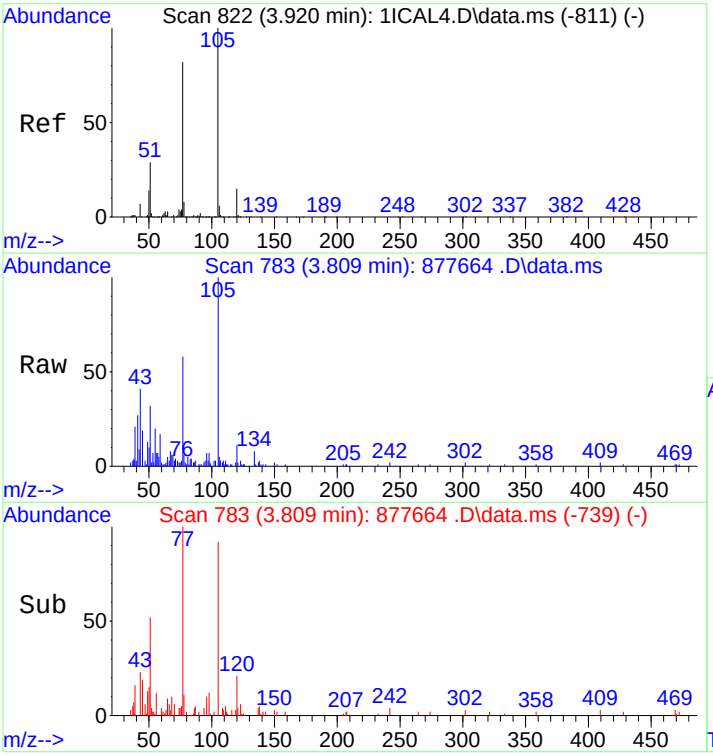


#15
2Methylphenol
Concen: 0.02 ug/mL
RT: 3.701 min Scan# 745
Delta R.T. 0.054 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:108 Resp: 246

Ion	Ratio	Lower	Upper
108	100		
107	50.5	54.2	114.2#

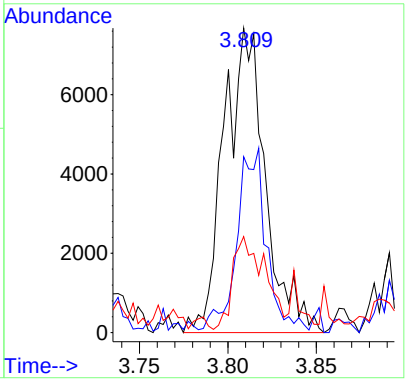


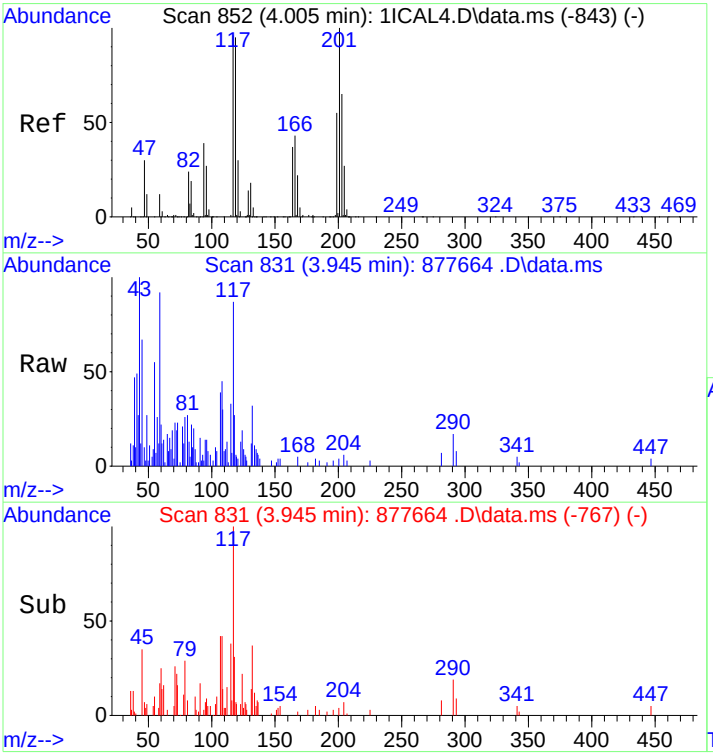


#17
Acetophenone
Concen: 0.81 ug/mL
RT: 3.809 min Scan# 783
Delta R.T. 0.011 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:105 Resp: 12576

Ion	Ratio	Lower	Upper
105	100		
77	57.2	42.6	102.6
51	21.4	13.0	73.0

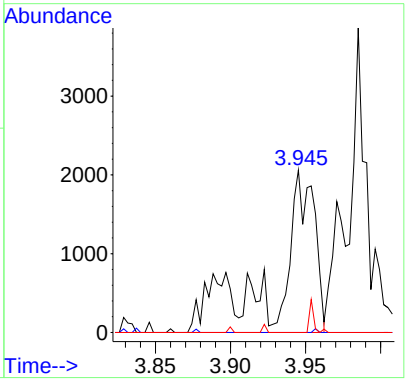


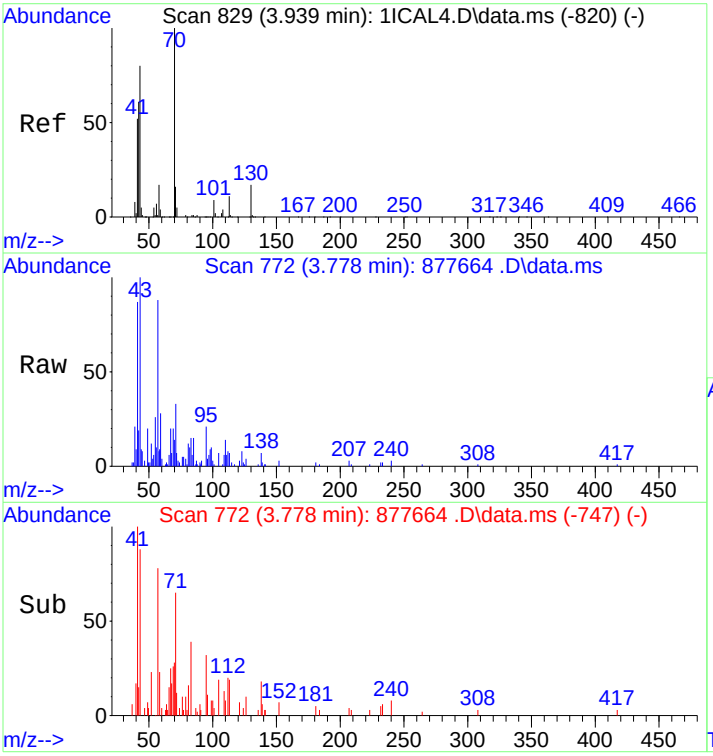


#18
Hexaclethane
Concen: 0.67 ug/mL
RT: 3.945 min Scan# 831
Delta R.T. 0.068 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:117 Resp: 3710

Ion	Ratio	Lower	Upper
117	100		
201	0.0	56.2	116.2#
199	0.0	28.9	88.9#

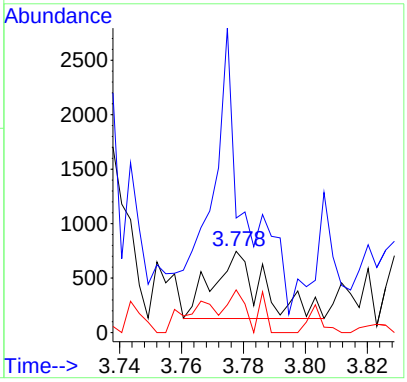


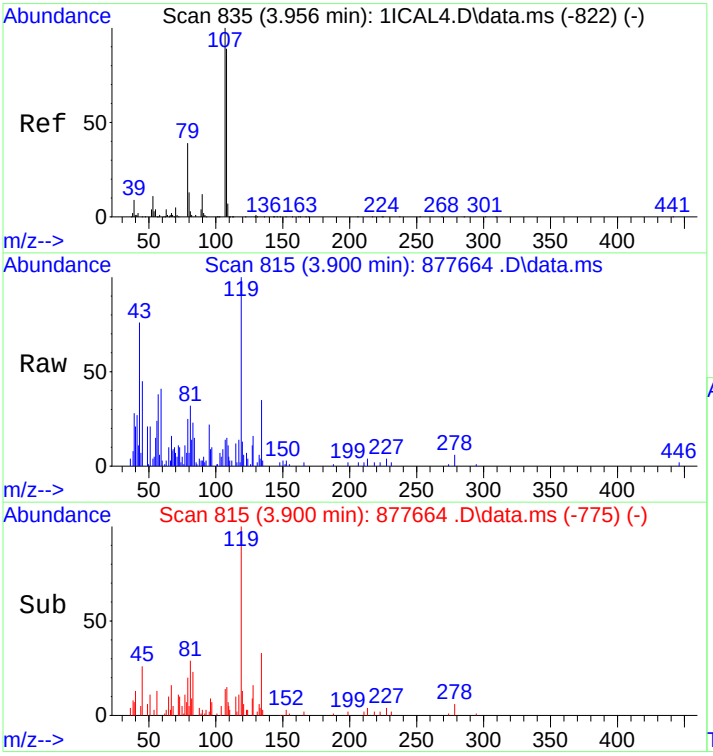


#19
N-Ntrsdinprop
Concen: 0.09 ug/mL
RT: 3.778 min Scan# 772
Delta R.T. -0.043 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion: 70 Resp: 700

Ion	Ratio	Lower	Upper
70	100		
42	77.6	38.0	98.0
113	55.6	0.0	48.2#

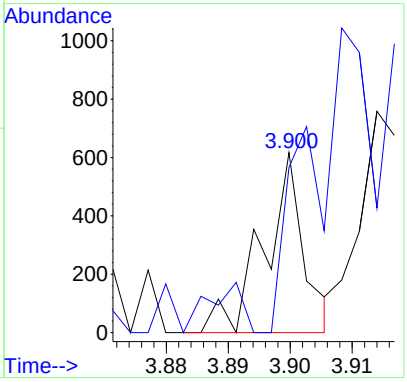


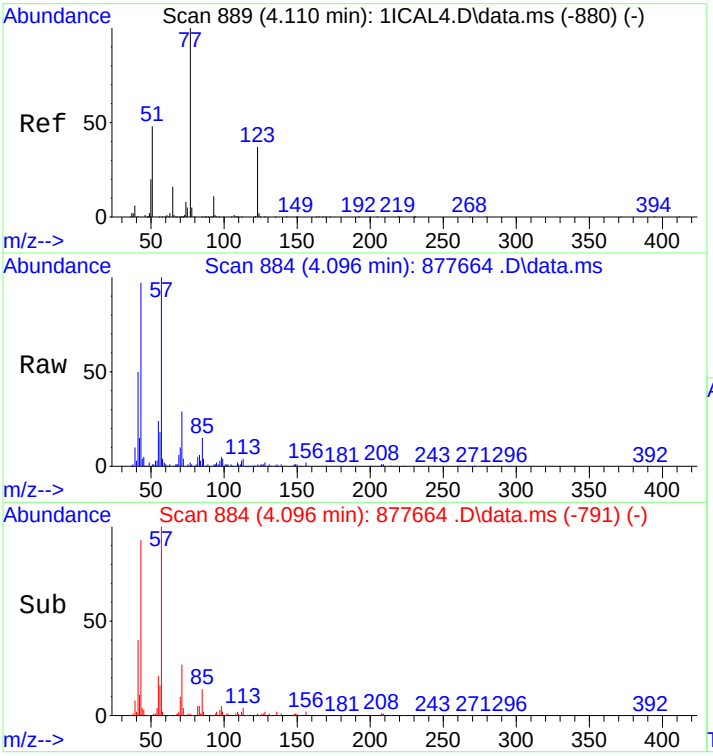


#20
3&4Methylphenol
Concen: 0.02 ug/mL
RT: 3.900 min Scan# 815
Delta R.T. 0.062 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:108 Resp: 273

Ion	Ratio	Lower	Upper
108	100		
107	91.7	77.7	137.7

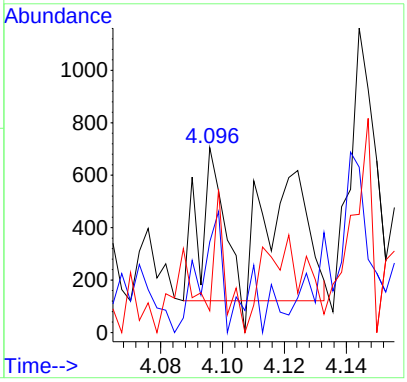


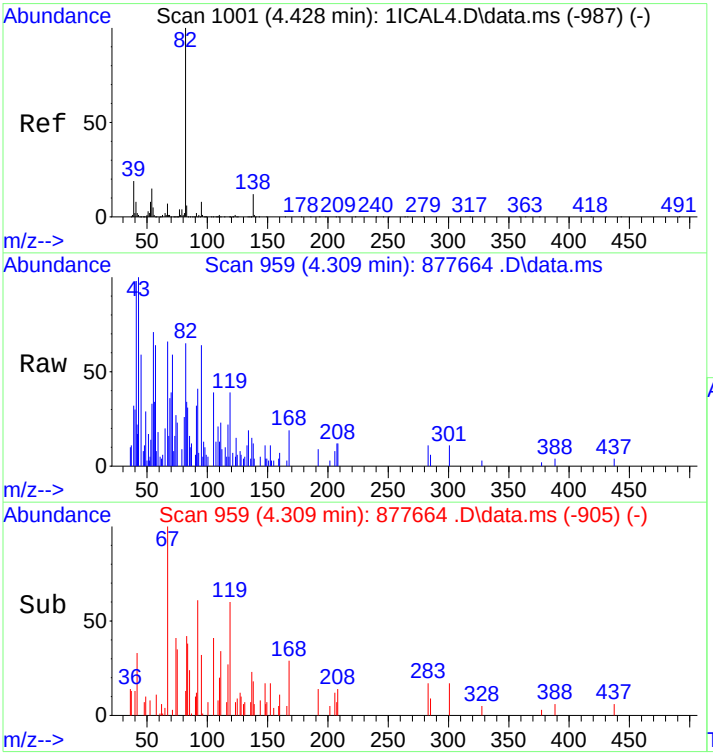


#23
Nitrobenzene
Concen: 0.07 ug/mL
RT: 4.096 min Scan# 884
Delta R.T. 0.114 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion: 77 Resp: 803

Ion	Ratio	Lower	Upper
77	100		
123	49.7	6.0	66.0
65	2.2	0.0	43.9

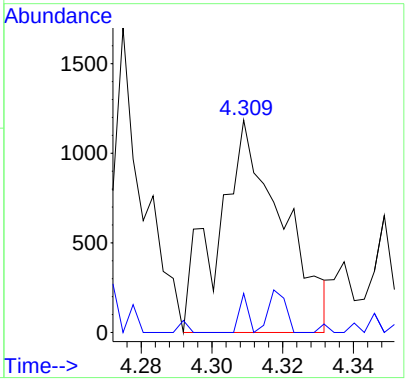


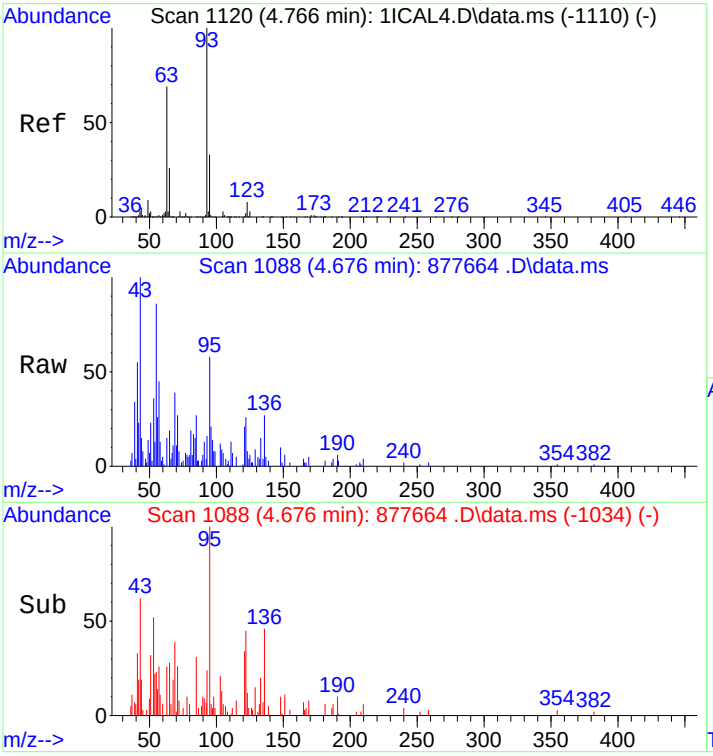


#24
Isophorone
Concen: 0.07 ug/mL
RT: 4.309 min Scan# 959
Delta R.T. 0.008 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion: 82 Resp: 1489

Ion	Ratio	Lower	Upper
82	100		
138	14.4	0.0	54.4

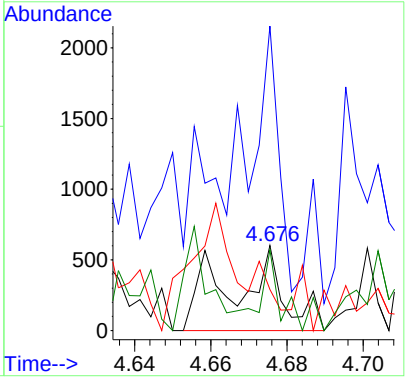


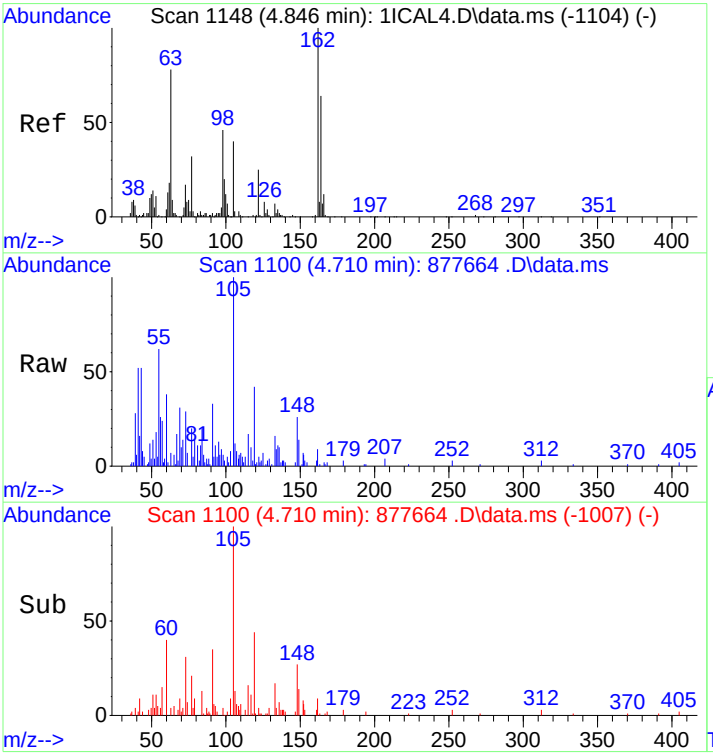


#27
bis2clethoxym
Concen: 0.04 ug/mL
RT: 4.676 min Scan# 1088
Delta R.T. 0.040 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion: 93 Resp: 578

Ion	Ratio	Lower	Upper
93	100		
95	326.1	3.0	63.0#
123	0.8	0.0	42.8
63	94.7	51.1	111.1

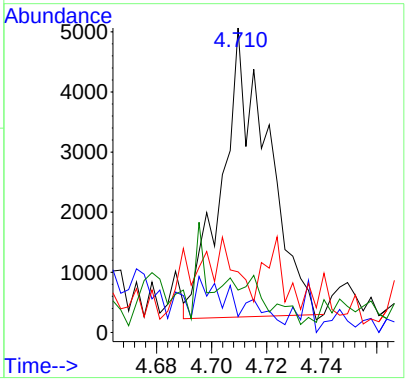


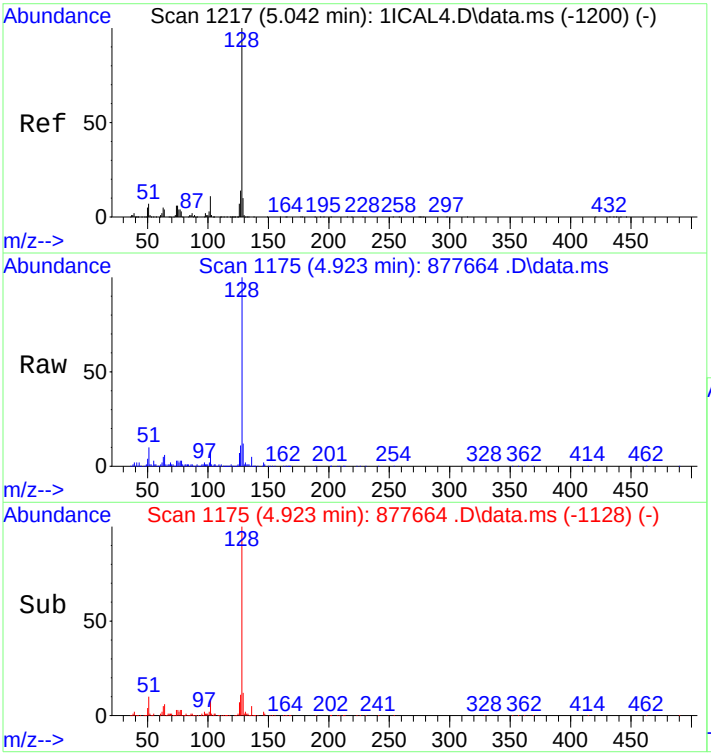


#30
Benzoic acid
Concen: 3.23 ug/mL
RT: 4.710 min Scan# 1100
Delta R.T. -0.011 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:105 Resp: 5557

Ion	Ratio	Lower	Upper
105	100		
122	1.8	63.7	123.7#
77	0.5	18.9	78.9#
51	3.4	23.7	83.7#

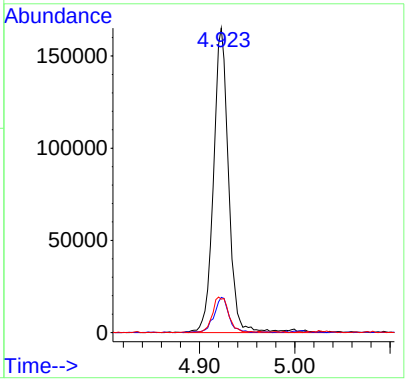


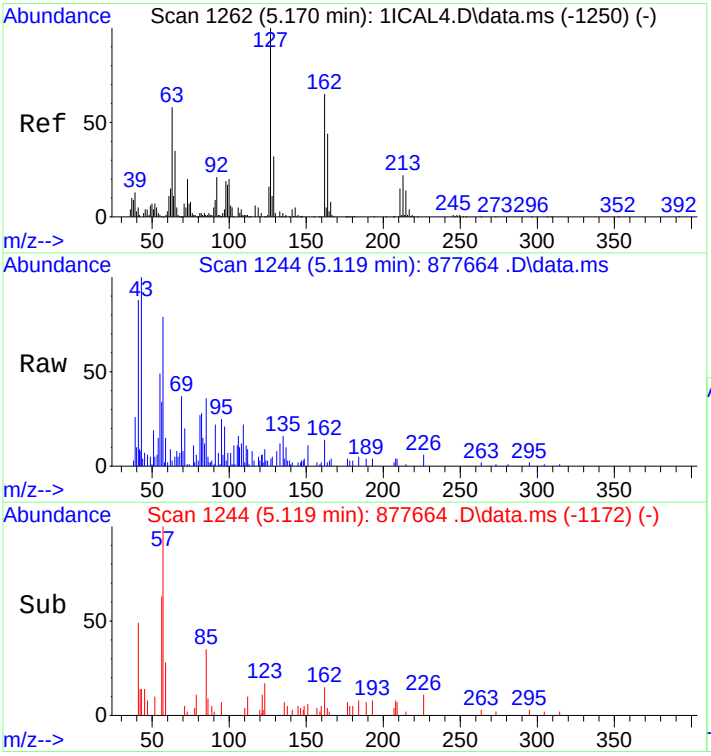


#31
Naphthalene
Concen: 4.89 ug/mL
RT: 4.923 min Scan# 1175
Delta R.T. 0.020 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:128 Resp: 182752

Ion	Ratio	Lower	Upper
128	100		
129	11.5	0.0	40.8
127	10.8	0.0	42.4

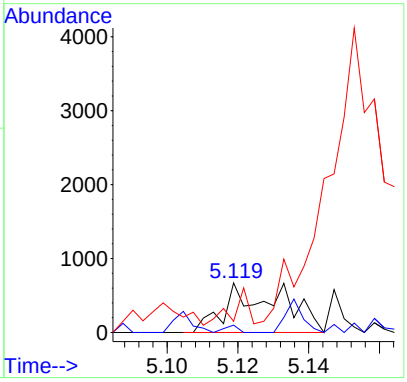


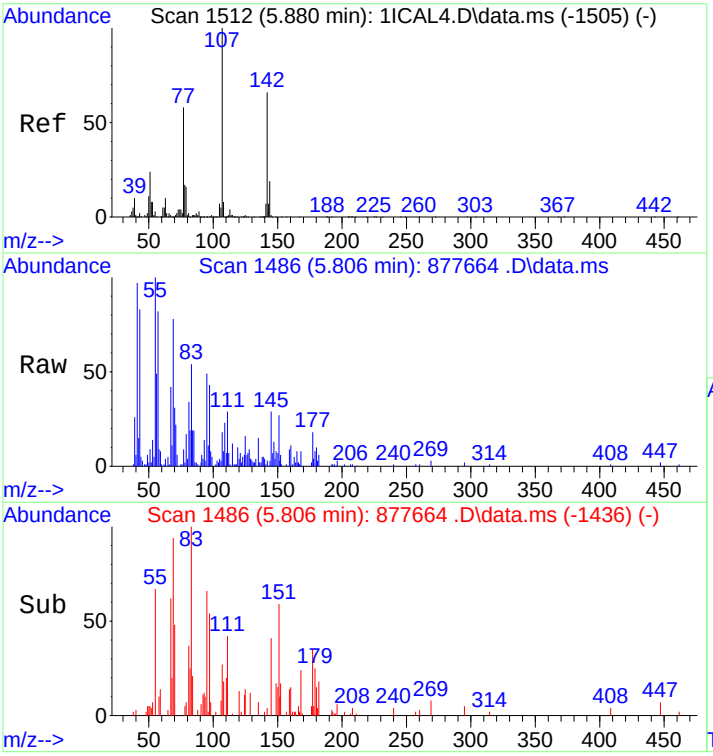


#33
26Diclphenol
Concen: 0.07 ug/mL
RT: 5.119 min Scan# 1244
Delta R.T. 0.091 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:162 Resp: 730

Ion	Ratio	Lower	Upper
162	100		
164	14.8	31.5	91.5#
98	0.0	0.0	49.8

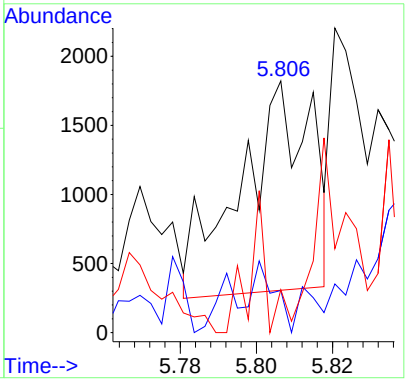


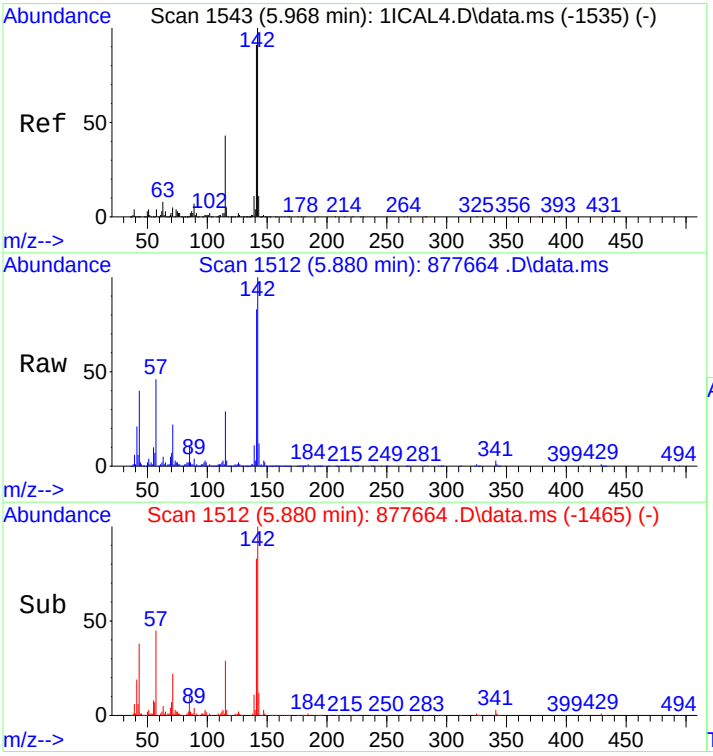


#36
4Cl3methylphe
Concen: 0.58 ug/mL
RT: 5.806 min Scan# 1486
Delta R.T. 0.028 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:107 Resp: 1959

Ion	Ratio	Lower	Upper
107	100		
142	11.5	50.0	110.0#
144	12.0	4.4	64.4

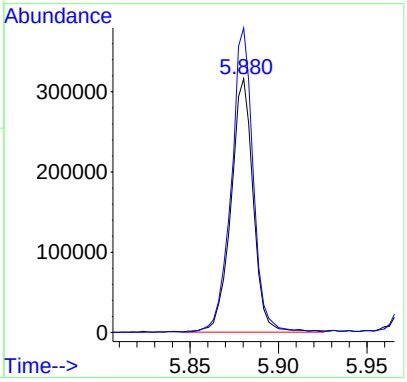


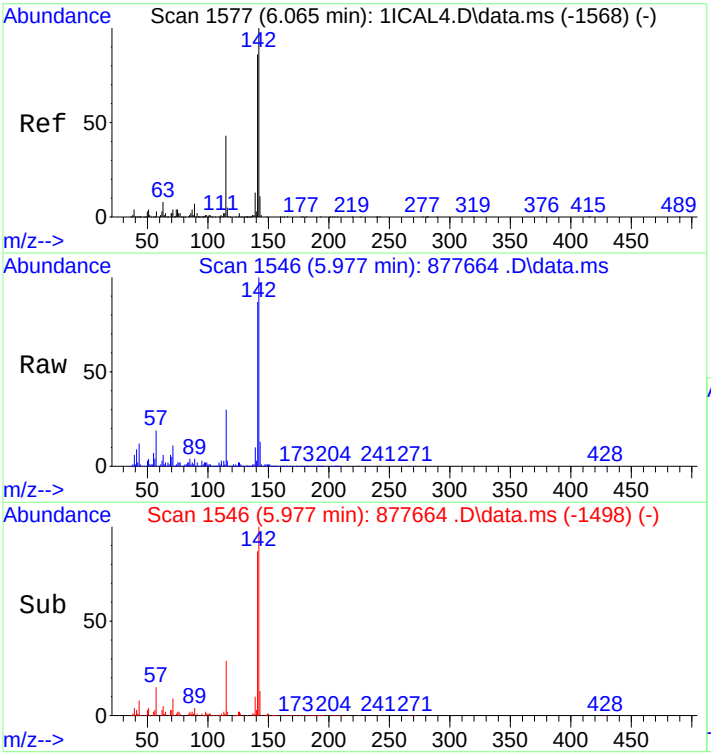


#37
2Methylnaphth
Concen: 9.95 ug/mL
RT: 5.880 min Scan# 1512
Delta R.T. 0.020 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:141 Resp: 276884

Ion	Ratio	Lower	Upper
141	100		
142	119.8	89.1	149.1

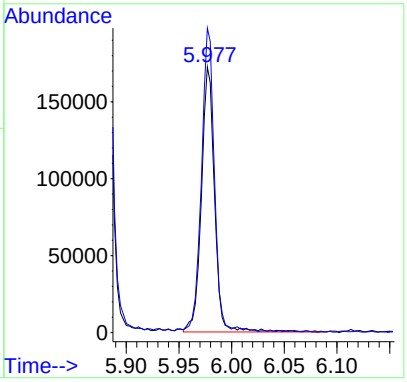


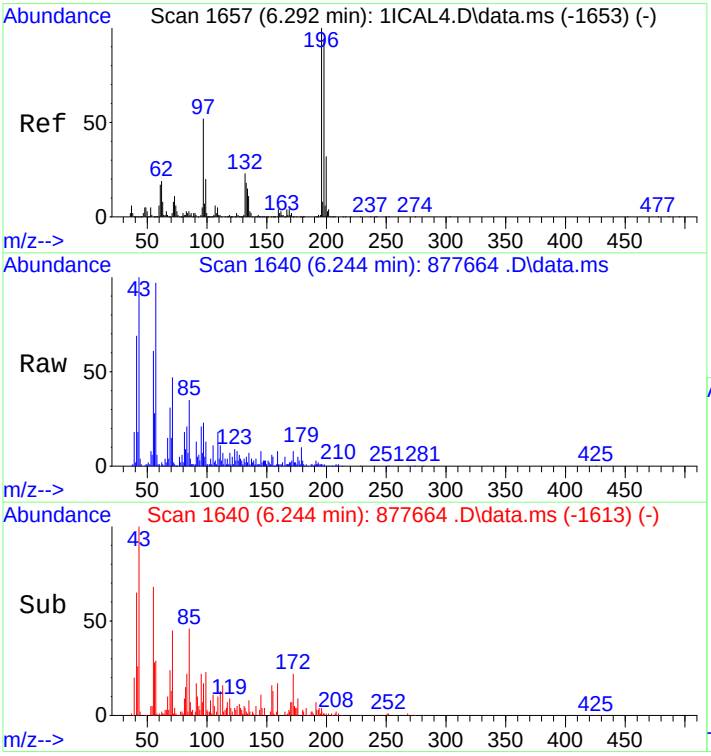


#38
1Methylnaphth
Concen: 5.26 ug/mL
RT: 5.977 min Scan# 1546
Delta R.T. 0.017 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:141 Resp: 150619

Ion	Ratio	Lower	Upper
141	100		
142	114.6	83.6	143.6

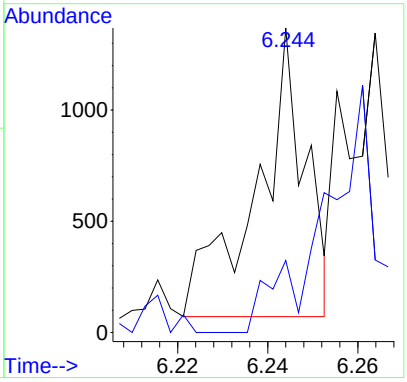


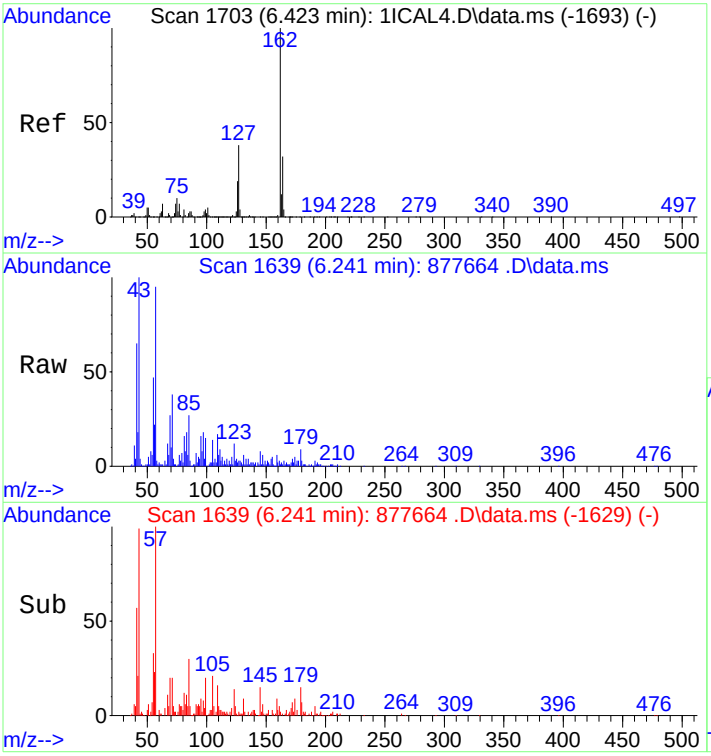


#43
245Triclpheno
Concen: 0.09 ug/mL
RT: 6.244 min Scan# 1640
Delta R.T. 0.045 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:196 Resp: 979

Ion	Ratio	Lower	Upper
196	100		
198	20.7	66.1	126.1#

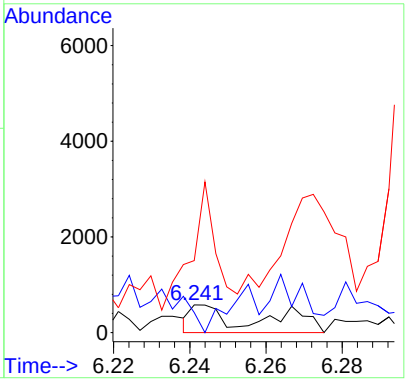


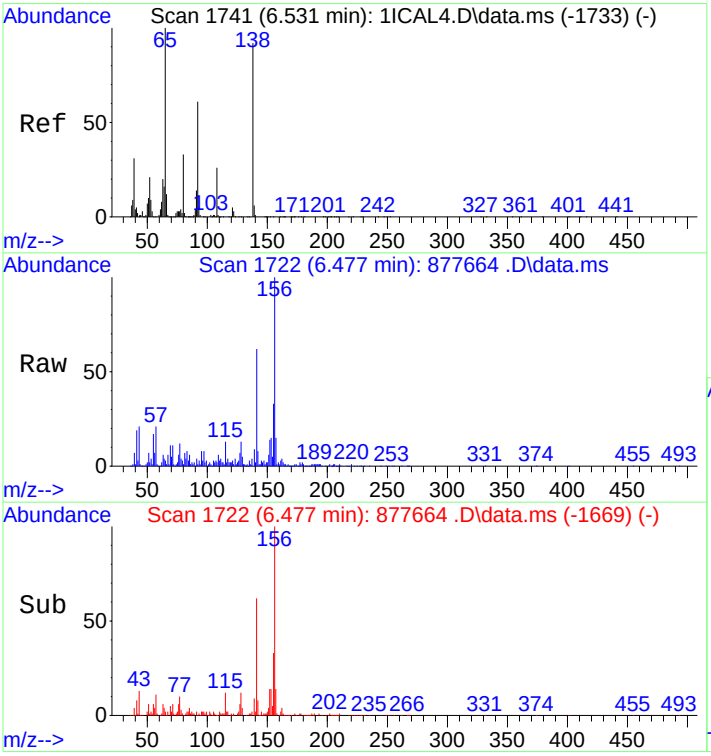


#45
2Clnaphthalen
Concen: 0.02 ug/mL
RT: 6.241 min Scan# 1639
Delta R.T. -0.085 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:162 Resp: 692

Ion	Ratio	Lower	Upper
162	100		
164	10.1	2.4	62.4
127	14.4	2.5	62.5

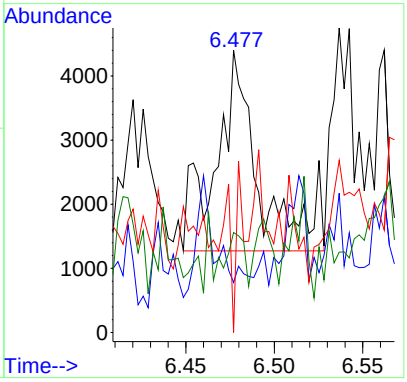


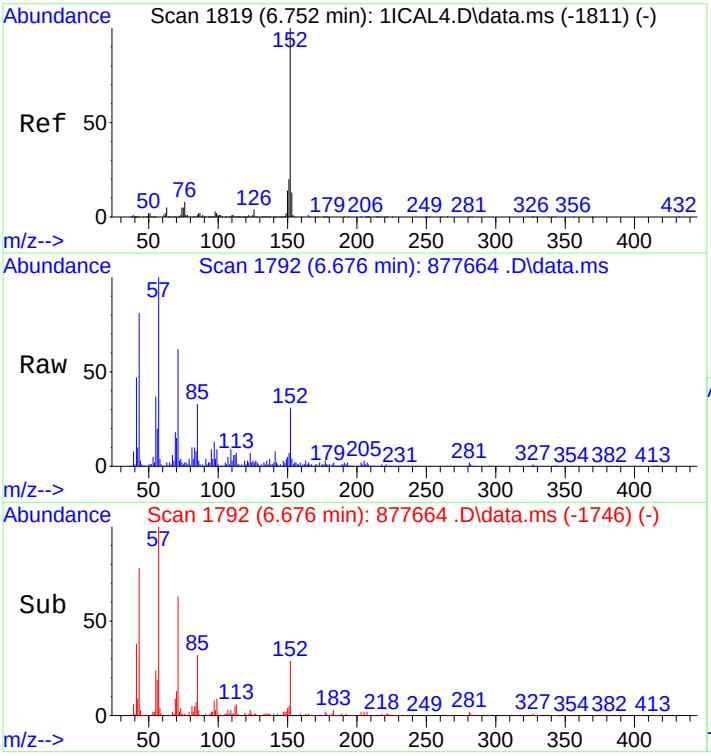


#46
2Nitroaniline
Concen: 0.77 ug/mL
RT: 6.477 min Scan# 1722
Delta R.T. 0.037 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion: 65 Resp: 5249

Ion	Ratio	Lower	Upper
65	100		
92	7.5	39.9	99.9#
138	0.0	78.4	138.4#
80	23.6	0.0	55.4

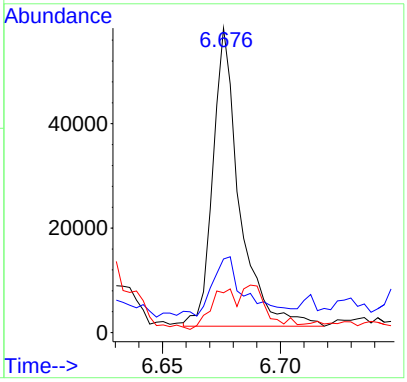


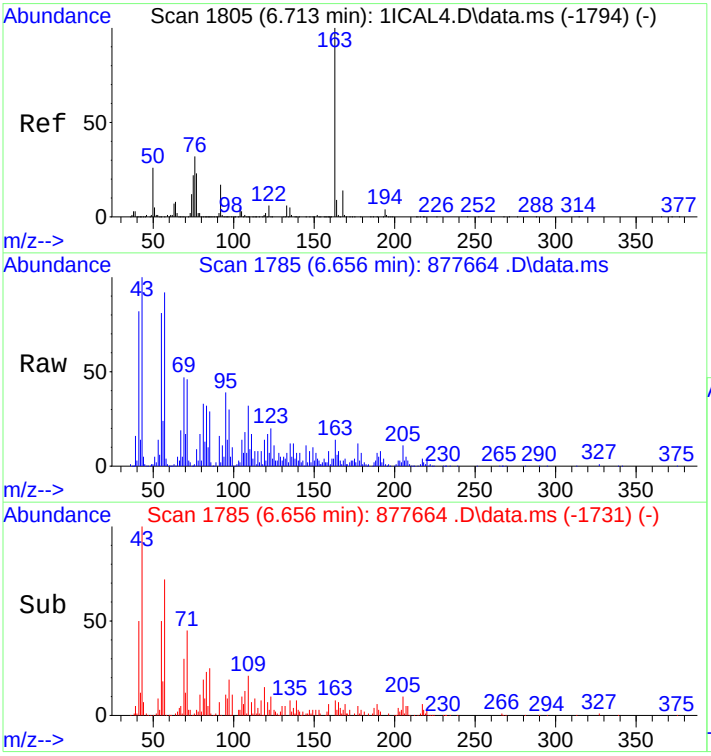


#47
Acnaphthylene
Concen: 0.99 ug/mL
RT: 6.676 min Scan# 1792
Delta R.T. 0.017 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:152 Resp: 44681

Ion	Ratio	Lower	Upper
152	100		
151	17.5	0.0	48.9
153	11.5	0.0	43.2

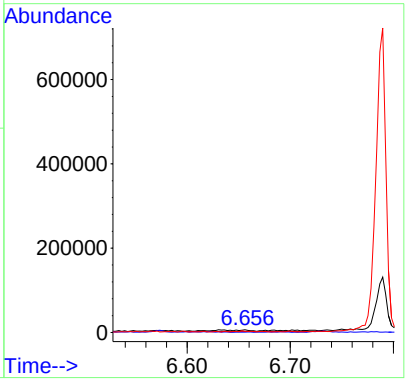


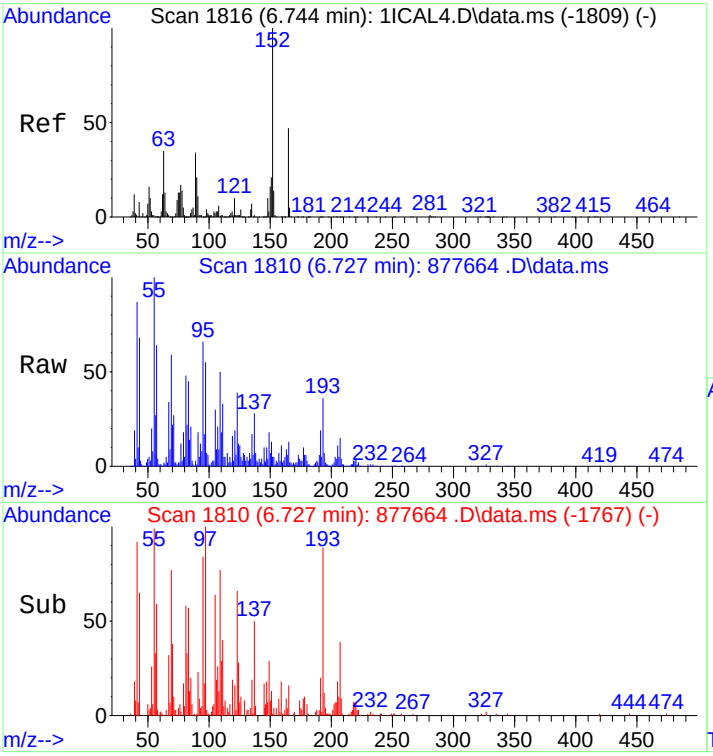


#48
Dimethylphtha
Concen: 0.57 ug/mL
RT: 6.656 min Scan# 1785
Delta R.T. 0.034 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:163 Resp: 18903

Ion	Ratio	Lower	Upper
163	100		
194	0.0	0.0	33.5
164	4.6	0.0	40.0

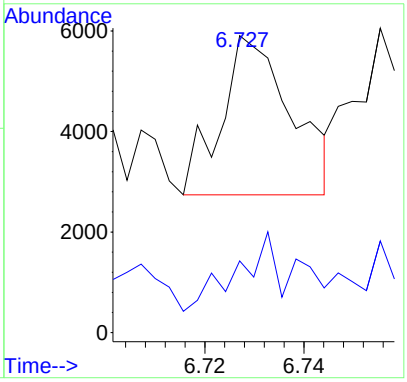


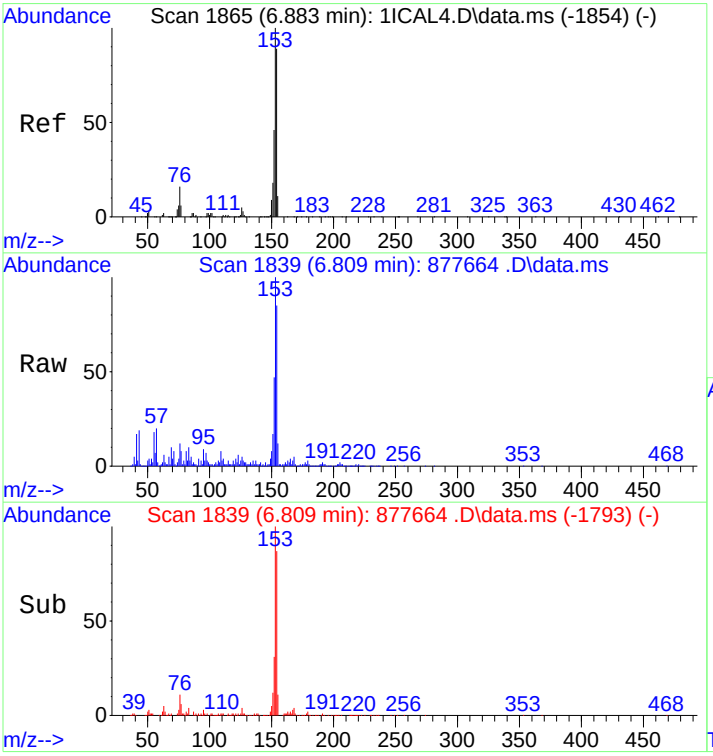


#49
26Dinitrotolu
Concen: 0.45 ug/mL
RT: 6.727 min Scan# 1810
Delta R.T. 0.071 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:165 Resp: 3126

Ion	Ratio	Lower	Upper
165	100		
89	31.6	27.0	87.0

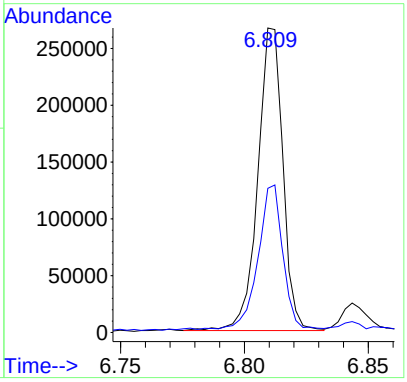


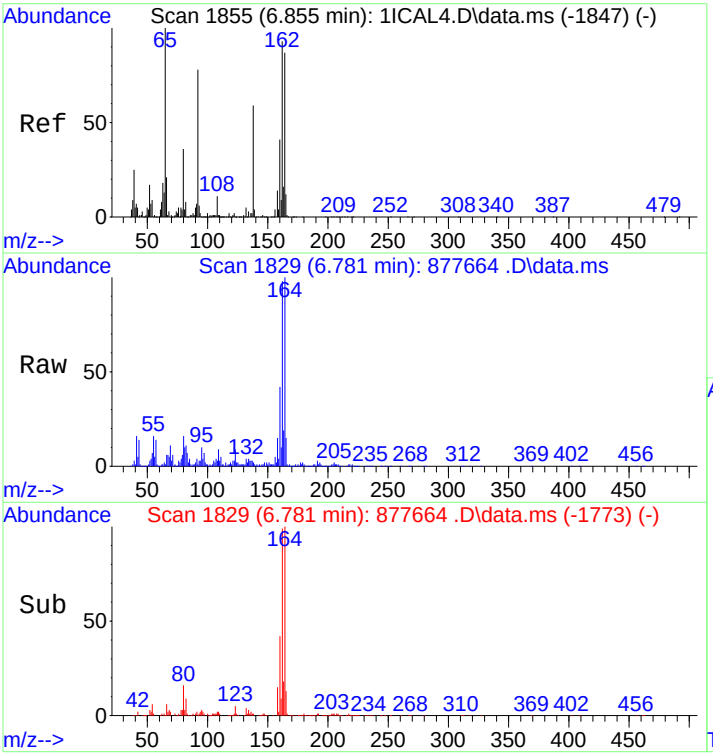


#50
Acenaphthene
Concen: 6.50 ug/mL
RT: 6.809 min Scan# 1839
Delta R.T. 0.017 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:153 Resp: 188115

Ion	Ratio	Lower	Upper
153	100		
152	46.4	15.3	75.3

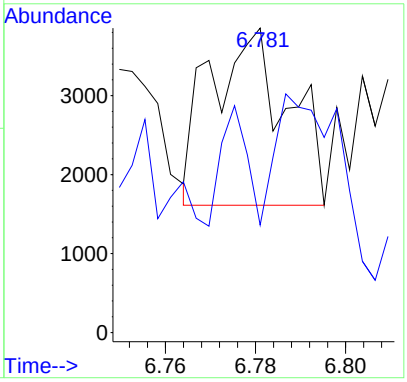


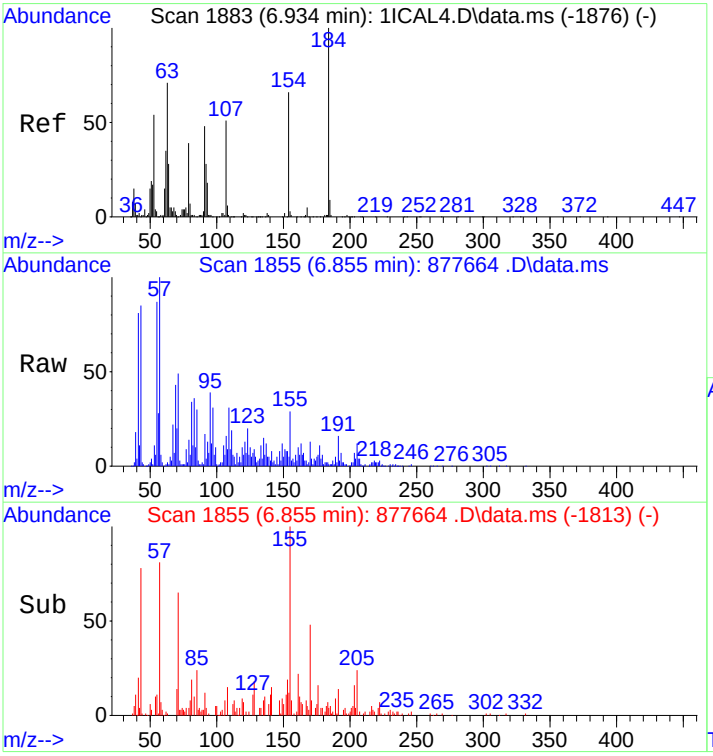


#51
3Nitroaniline
Concen: 0.48 ug/mL
RT: 6.781 min Scan# 1829
Delta R.T. 0.014 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:138 Resp: 2688

Ion	Ratio	Lower	Upper
138	100		
92	0.0	49.6	109.6#

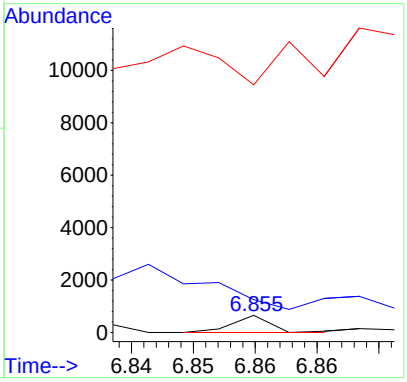


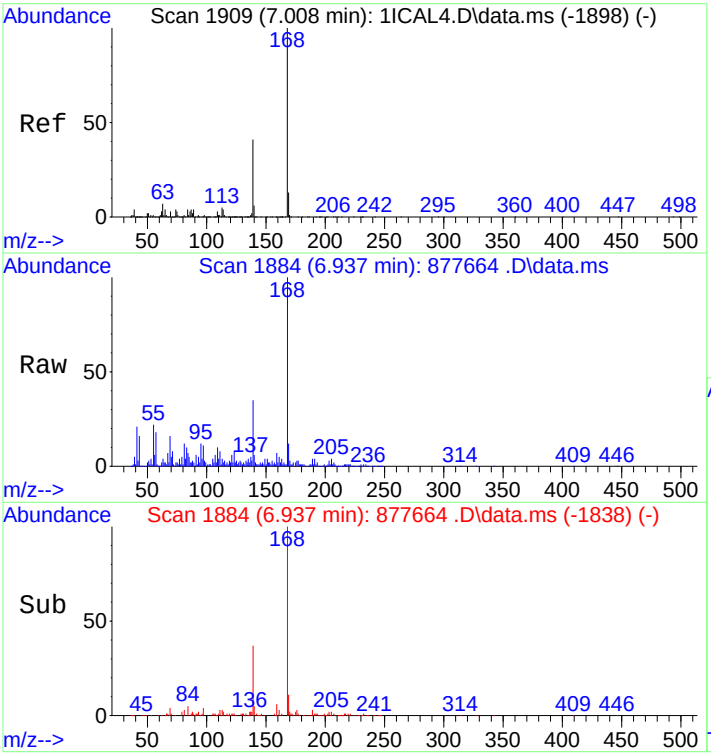


#52
24Dinitphenol
Concen: 2.91 ug/mL
RT: 6.855 min Scan# 1855
Delta R.T. 0.006 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:184 Resp: 142

Ion	Ratio	Lower	Upper
184	100		
63	0.0	63.0	123.0#
107	0.0	0.0	59.2

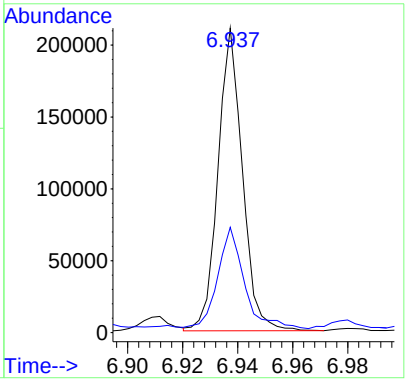


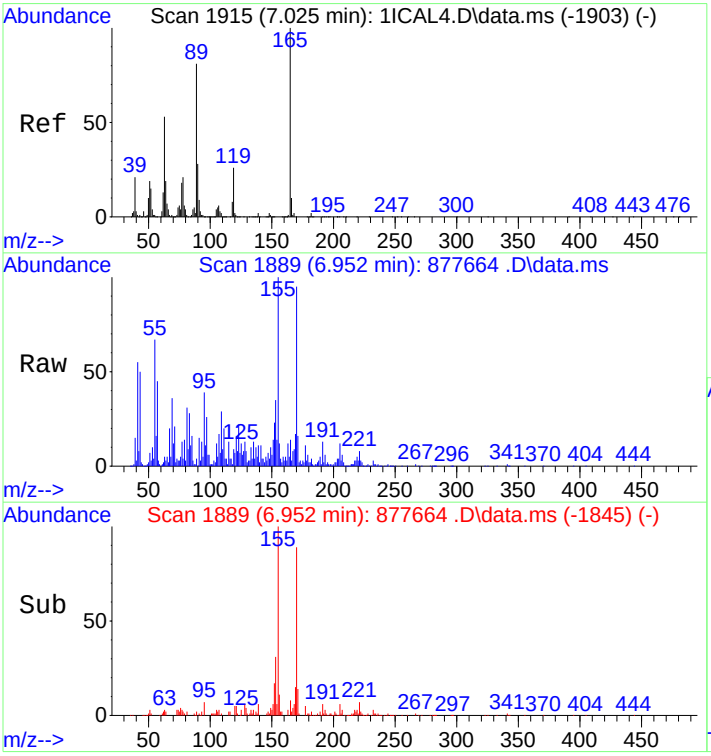


#53
Dibenzofuran
Concen: 3.25 ug/mL
RT: 6.937 min Scan# 1884
Delta R.T. 0.017 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:168 Resp: 129399

Ion	Ratio	Lower	Upper
168	100		
139	33.0	0.0	58.6

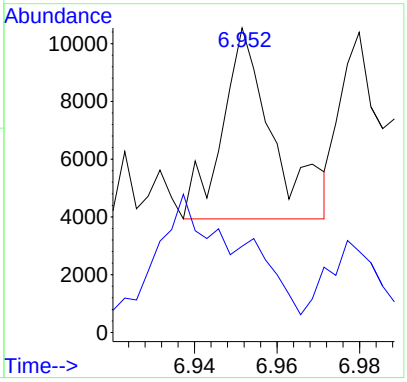


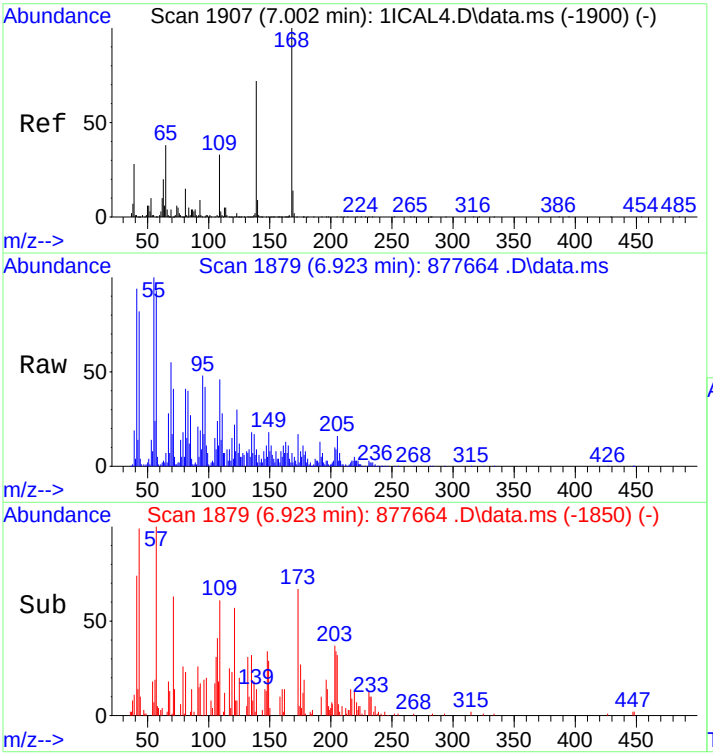


#54
24Dinitrotolu
Concen: 0.59 ug/mL
RT: 6.952 min Scan# 1889
Delta R.T. 0.011 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:165 Resp: 5692

Ion	Ratio	Lower	Upper
165	100		
89	11.0	50.0	110.0#

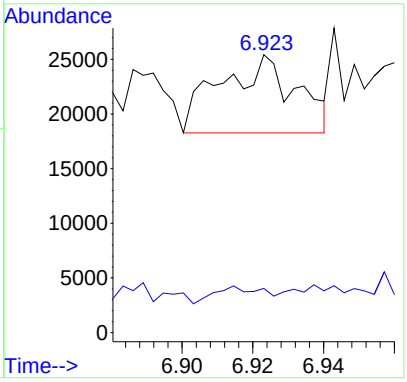


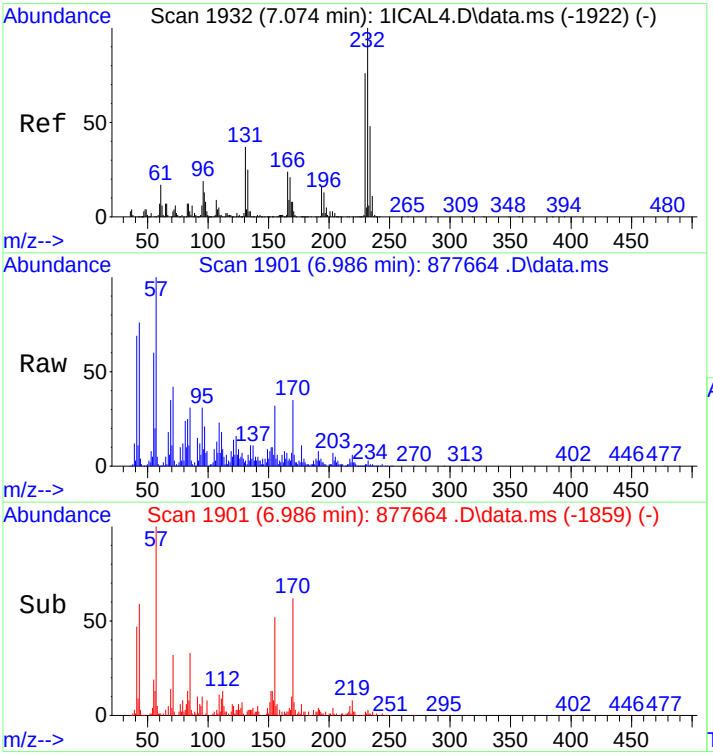


#55
4-Nitrophenol
Concen: 3.94 ug/mL
RT: 6.923 min Scan# 1879
Delta R.T. 0.003 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:109 Resp: 10560

Ion	Ratio	Lower	Upper
109	100		
65	5.7	117.5	177.5#

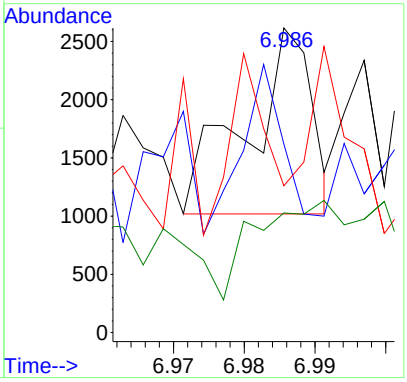


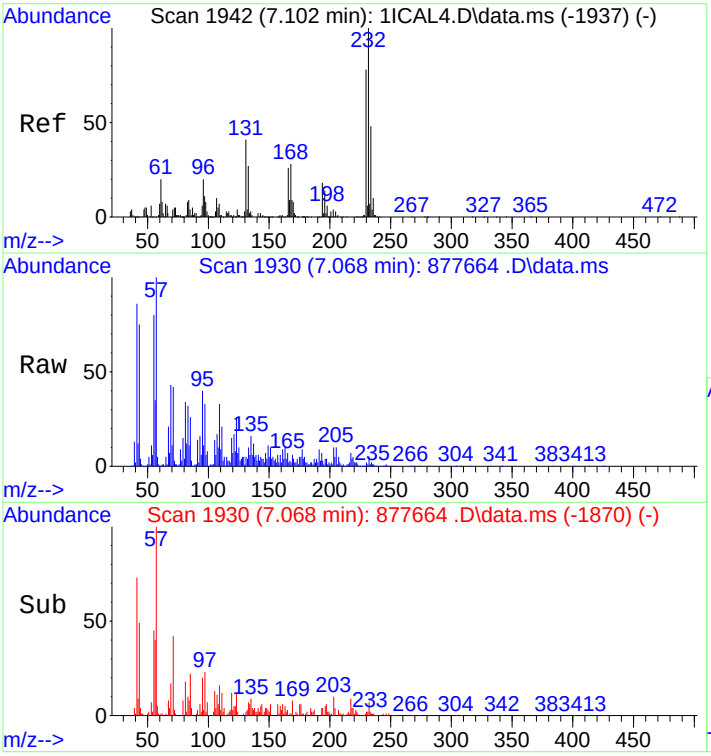


#56
2,3,5,6-Tetrachlorop
Concen: 0.13 ug/mL
RT: 6.986 min Scan# 1901
Delta R.T. -0.000 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:232 Resp: 1026

Ion	Ratio	Lower	Upper
232	100		
194	38.8	0.0	46.2
234	0.0	18.2	78.2#
230	16.9	49.2	109.2#

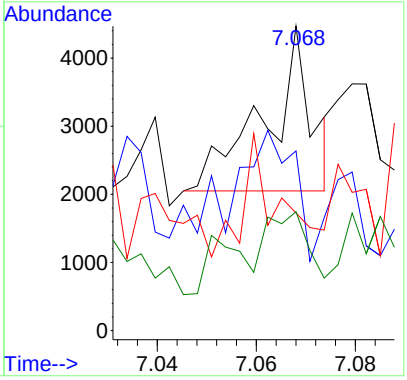


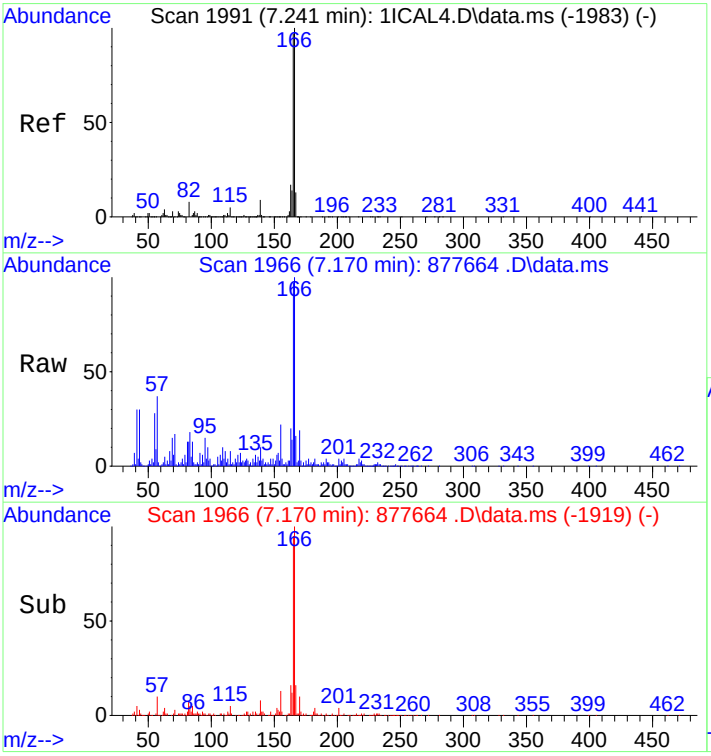


#57
2,3,4,6-Tetrachlorop
Concen: 0.19 ug/mL
RT: 7.068 min Scan# 1930
Delta R.T. 0.051 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:232 Resp: 1568

Ion	Ratio	Lower	Upper
232	100		
194	40.6	0.0	46.0
234	10.4	14.8	74.8#
230	50.3	51.0	111.0#

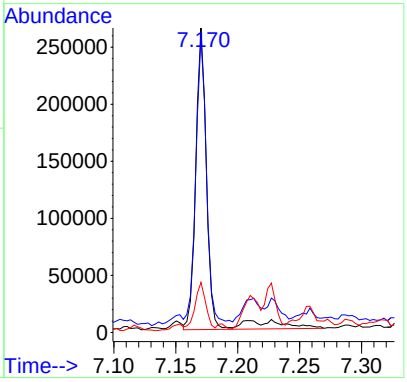


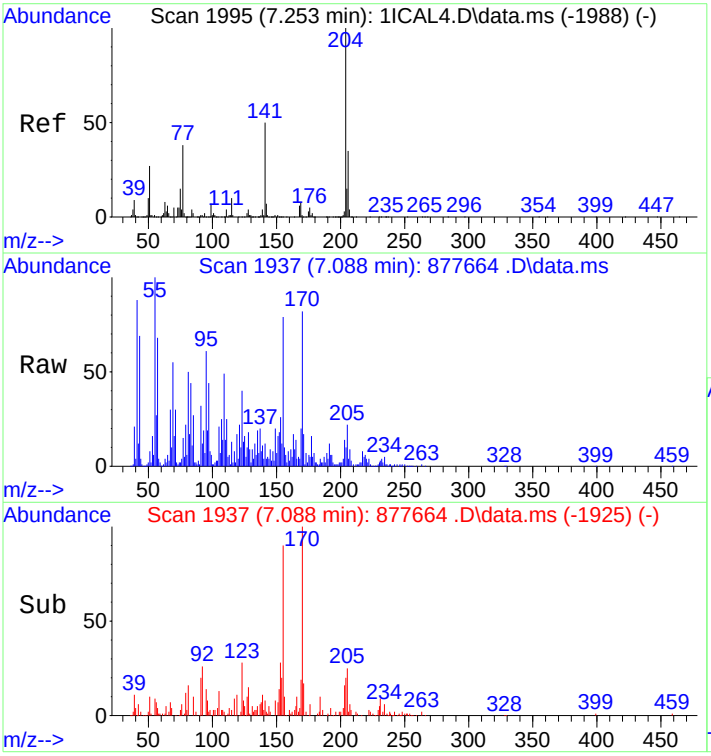


#58
Fluorene
Concen: 5.35 ug/mL
RT: 7.170 min Scan# 1966
Delta R.T. 0.020 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:166 Resp: 173423

Ion	Ratio	Lower	Upper
166	100		
165	93.8	64.4	124.4
167	14.8	0.0	43.1

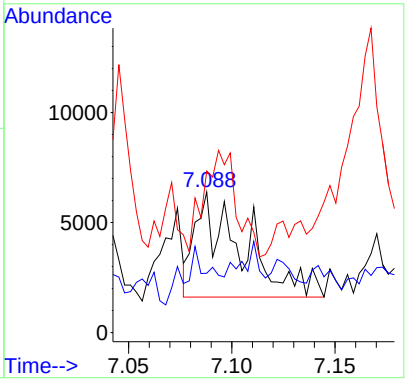


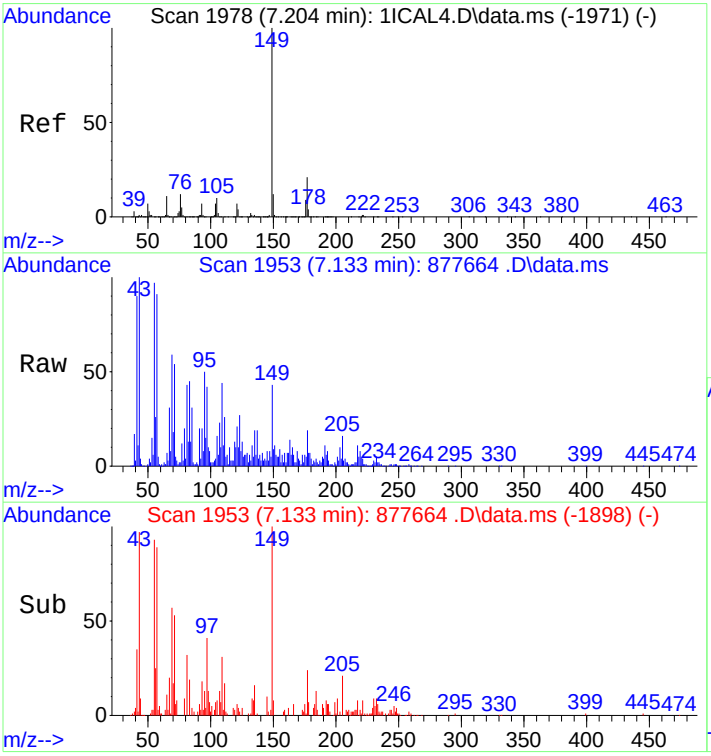


#59
4Clphlphlethr
Concen: 0.46 ug/mL
RT: 7.088 min Scan# 1937
Delta R.T. -0.080 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:204 Resp: 7613

Ion	Ratio	Lower	Upper
204	100		
206	9.8	2.0	62.0
141	60.8	22.8	82.8

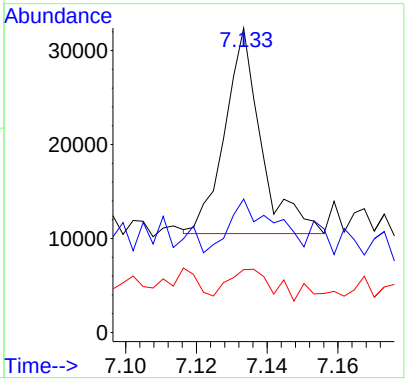


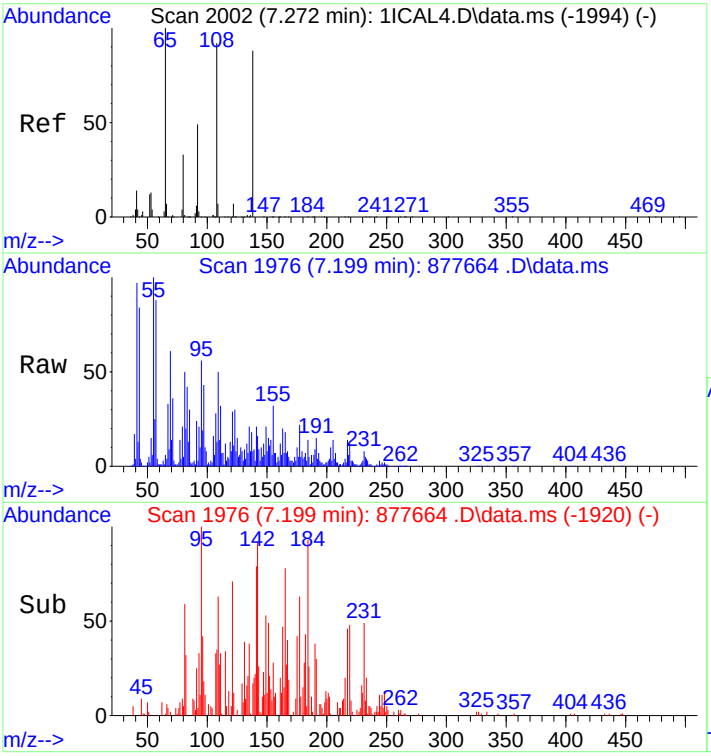


#60
Diethylphthal
Concen: 0.47 ug/mL
RT: 7.133 min Scan# 1953
Delta R.T. 0.011 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:149 Resp: 15549

Ion	Ratio	Lower	Upper
149	100		
177	19.3	0.0	50.8
150	11.5	0.0	41.2

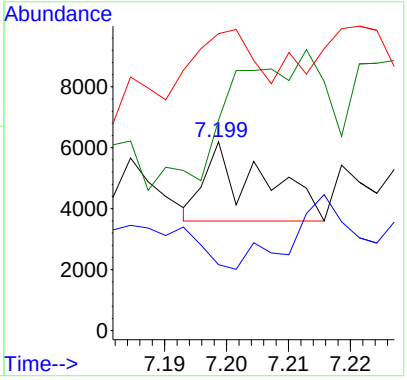


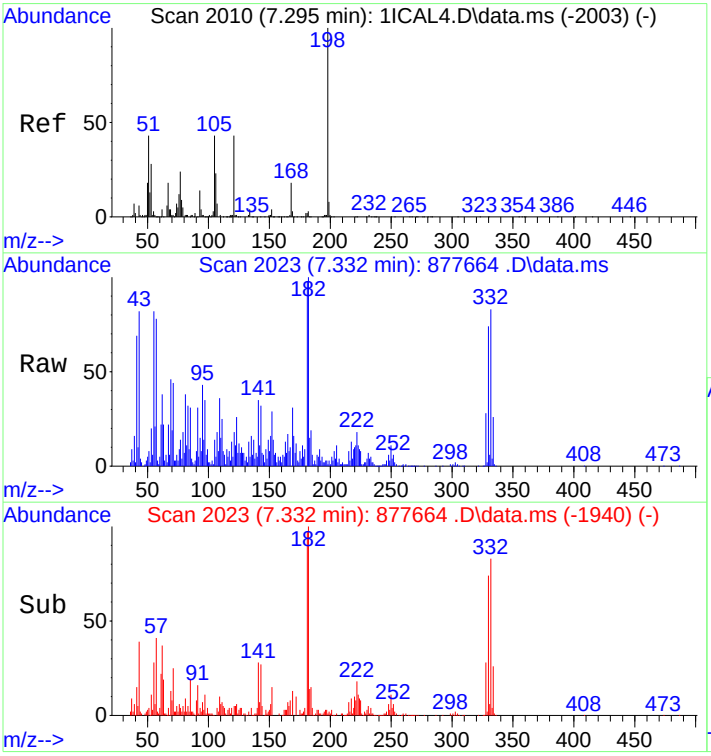


#61
4Nitroaniline
Concen: 0.30 ug/mL
RT: 7.199 min Scan# 1976
Delta R.T. 0.014 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:138 Resp: 1658

Ion	Ratio	Lower	Upper
138	100		
92	0.0	13.2	73.2#
108	46.2	40.3	100.3
139	63.5	0.0	39.9#

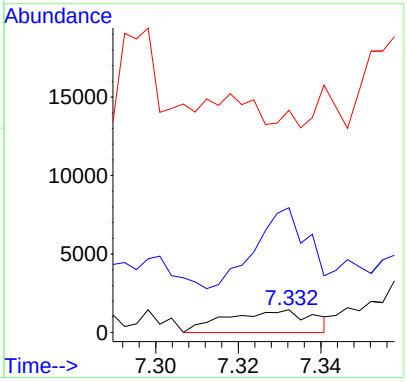


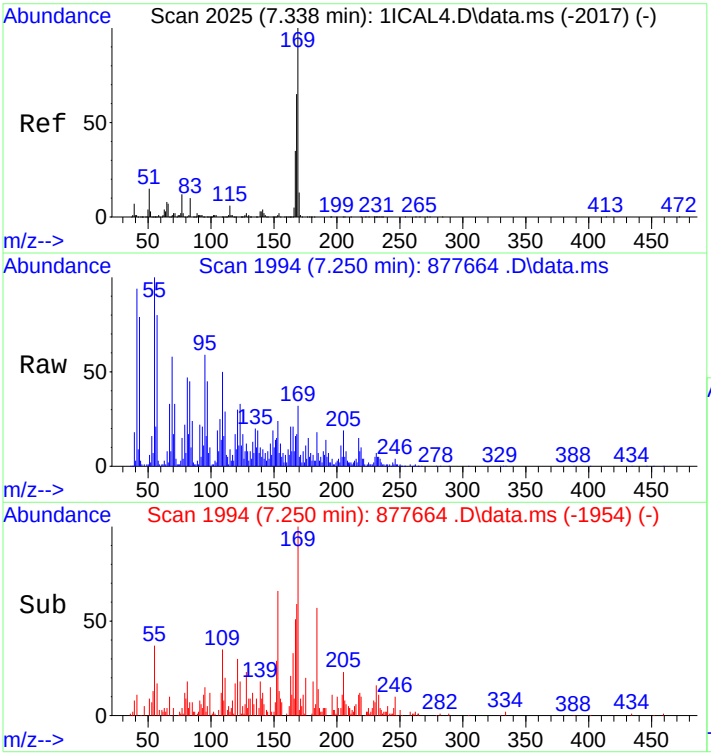


#64
46Dinit2mylph
Concen: 1.86 ug/mL
RT: 7.332 min Scan# 2023
Delta R.T. 0.122 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:198 Resp: 2064

Ion	Ratio	Lower	Upper
198	100		
51	309.0	33.4	93.4#
105	0.0	8.5	68.5#

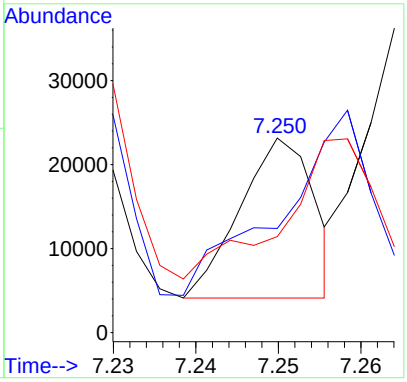


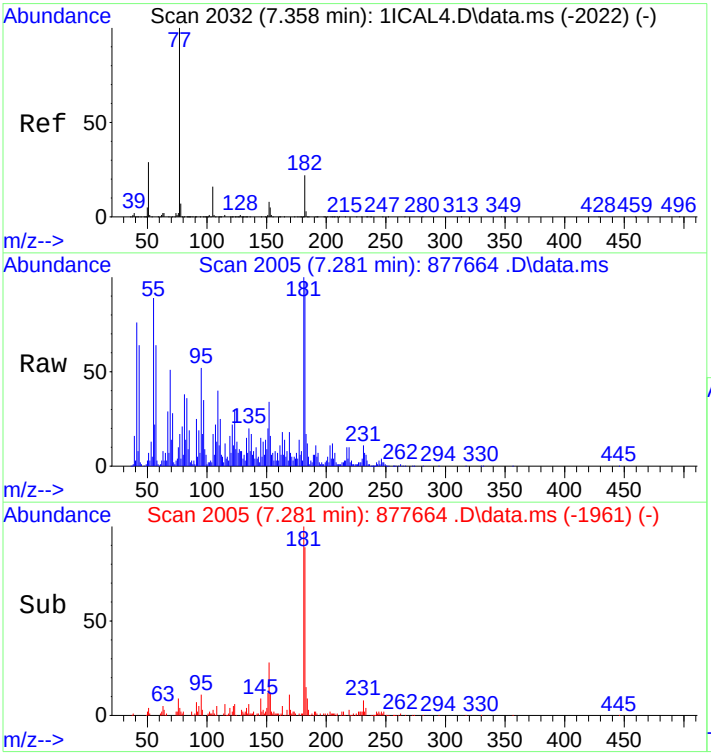


#65
Ntrsdiphlam&Diphlam
Concen: 0.69 ug/mL
RT: 7.250 min Scan# 1994
Delta R.T. -0.000 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:169 Resp: 11941

Ion	Ratio	Lower	Upper
169	100		
168	41.9	32.3	92.3
167	26.5	4.4	64.4

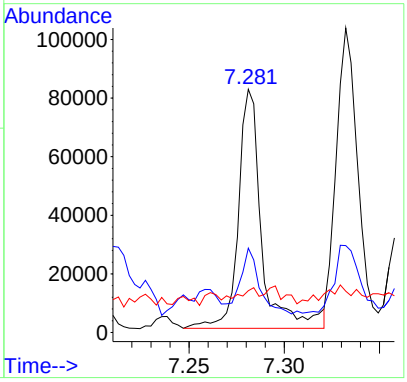


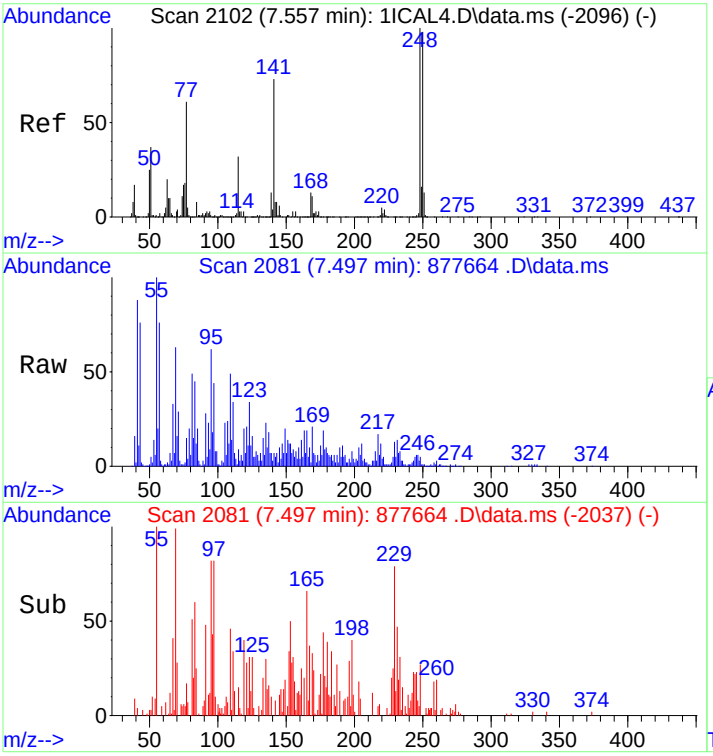


#66
Azobenz&12Diphlhyd
Concen: 11.07 ug/mL
RT: 7.281 min Scan# 2005
Delta R.T. 0.011 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:182 Resp: 69672

Ion	Ratio	Lower	Upper
182	100		
152	24.2	2.4	62.4
77	2.4	390.0	450.0#

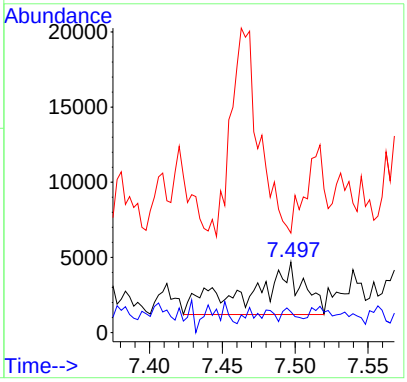


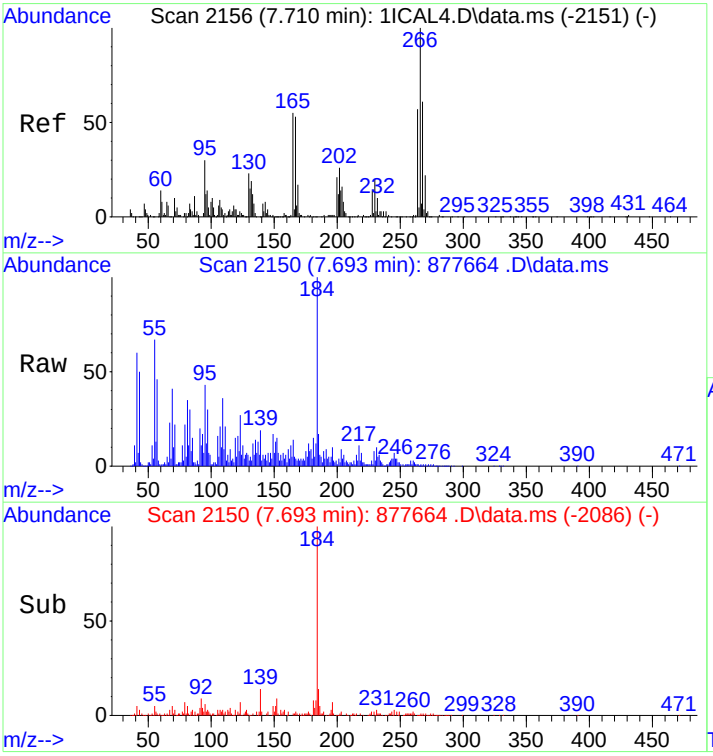


#67
4Brphlphlethr
Concen: 1.07 ug/mL
RT: 7.497 min Scan# 2081
Delta R.T. 0.026 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:248 Resp: 8935

Ion	Ratio	Lower	Upper
248	100		
250	17.6	69.0	129.0#
141	0.0	66.0	126.0#

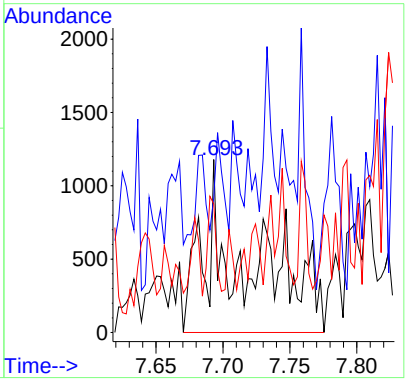


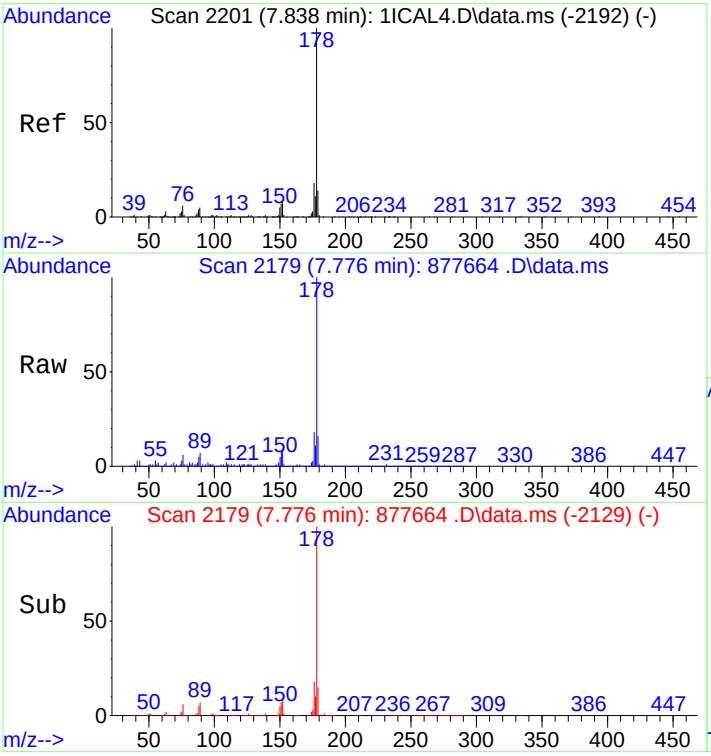


#69
Pentaclphenol
Concen: 2.37 ug/mL
RT: 7.693 min Scan# 2150
Delta R.T. 0.068 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:266 Resp: 2730

Ion	Ratio	Lower	Upper
266	100		
264	27.2	28.0	88.0#
268	51.5	31.9	91.9

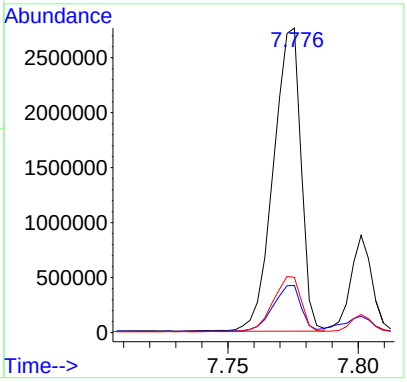


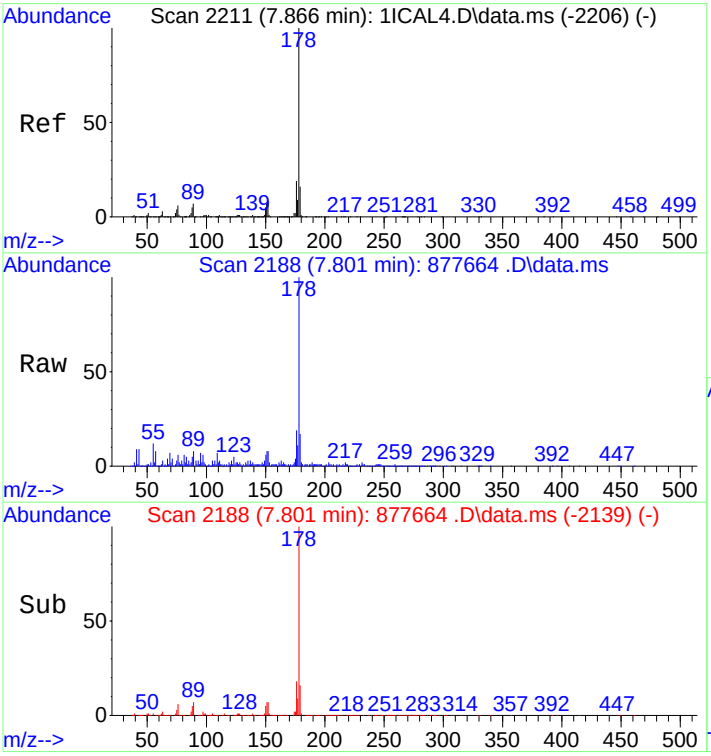


#70
Phenanthrene
Concen: 50.82 ug/mL
RT: 7.776 min Scan# 2179
Delta R.T. 0.028 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:178 Resp: 2032624

Ion	Ratio	Lower	Upper
178	100		
179	15.1	0.0	45.5
176	17.9	0.0	48.2

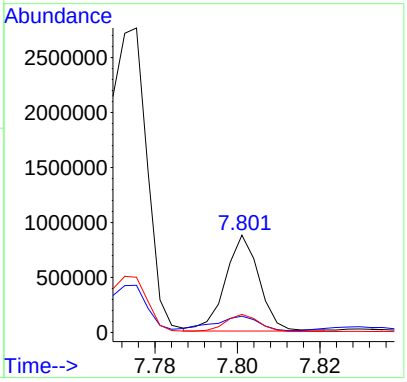


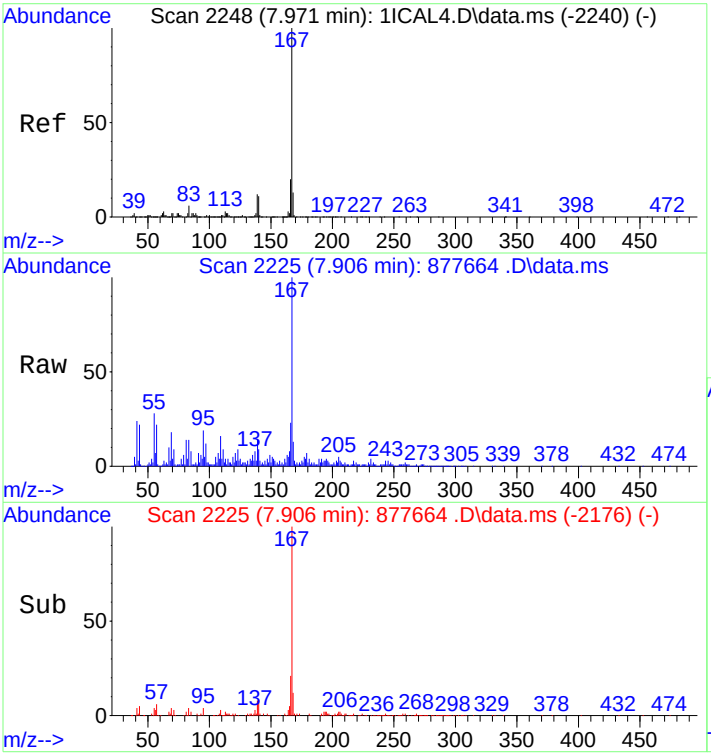


#71
Anthracene
Concen: 12.17 ug/mL
RT: 7.801 min Scan# 2188
Delta R.T. 0.026 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:178 Resp: 499617

Ion	Ratio	Lower	Upper
178	100		
179	13.0	0.0	45.3
176	18.2	0.0	48.0

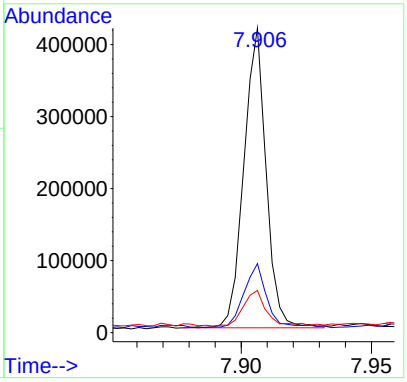


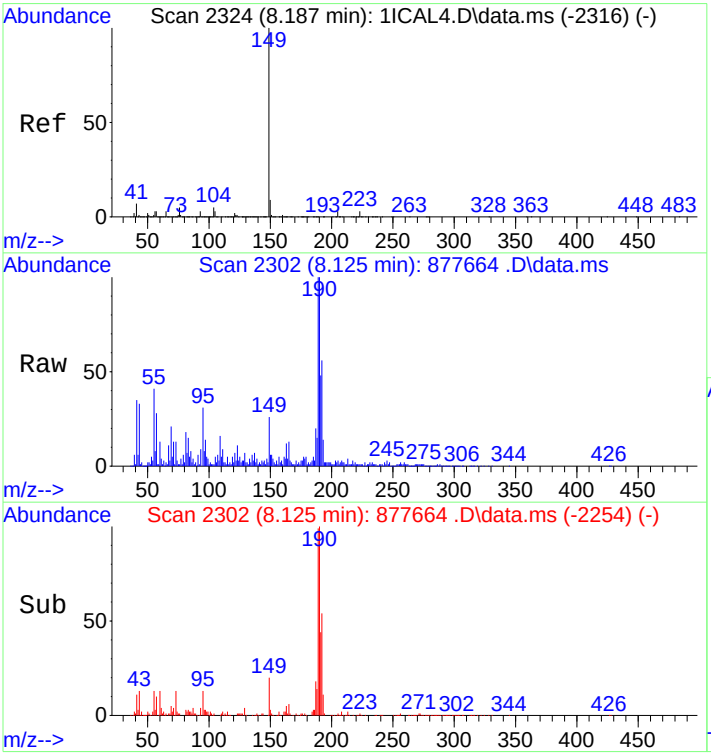


#72
Carbazole
Concen: 7.74 ug/mL
RT: 7.906 min Scan# 2225
Delta R.T. 0.026 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:167 Resp: 247571

Ion	Ratio	Lower	Upper
167	100		
166	20.7	0.0	50.5
139	11.6	0.0	40.7

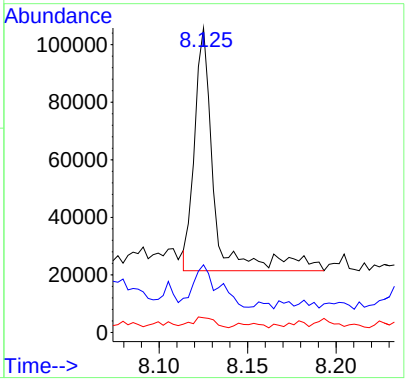


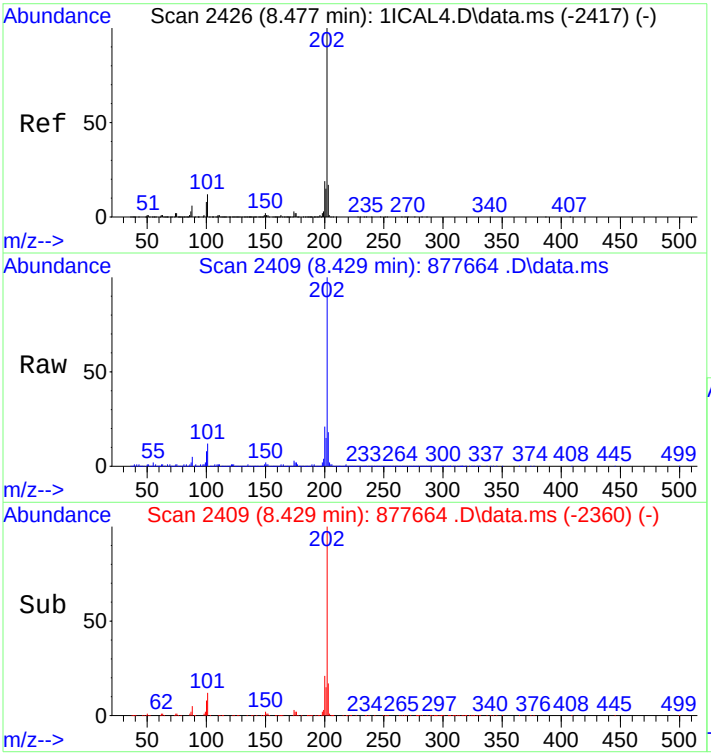


#73
Dinbtylphthal
Concen: 1.38 ug/mL
RT: 8.125 min Scan# 2302
Delta R.T. 0.023 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:149 Resp: 65173

Ion	Ratio	Lower	Upper
149	100		
150	16.1	0.0	38.9
104	2.6	0.0	32.6

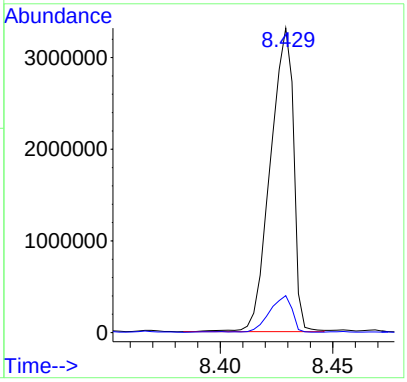


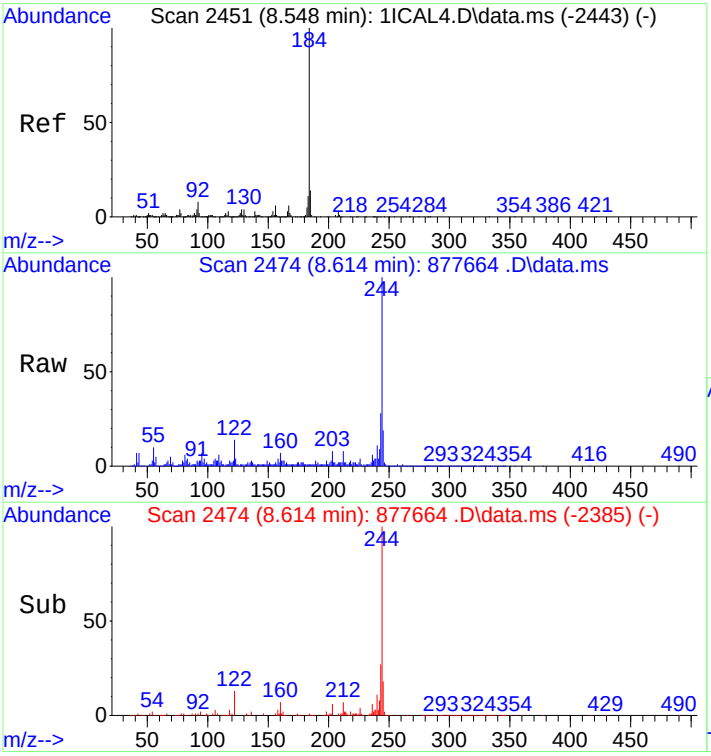


#74
Fluoranthene
Concen: 79.65 ug/mL
RT: 8.429 min Scan# 2409
Delta R.T. 0.026 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:202 Resp: 2380913

Ion	Ratio	Lower	Upper
202	100		
101	12.1	0.0	45.6

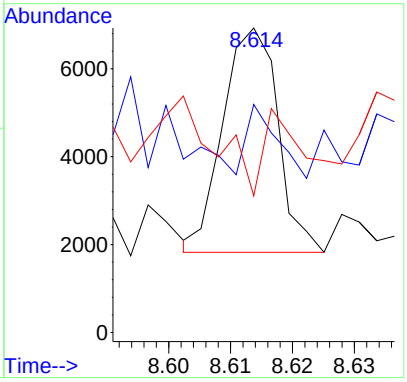


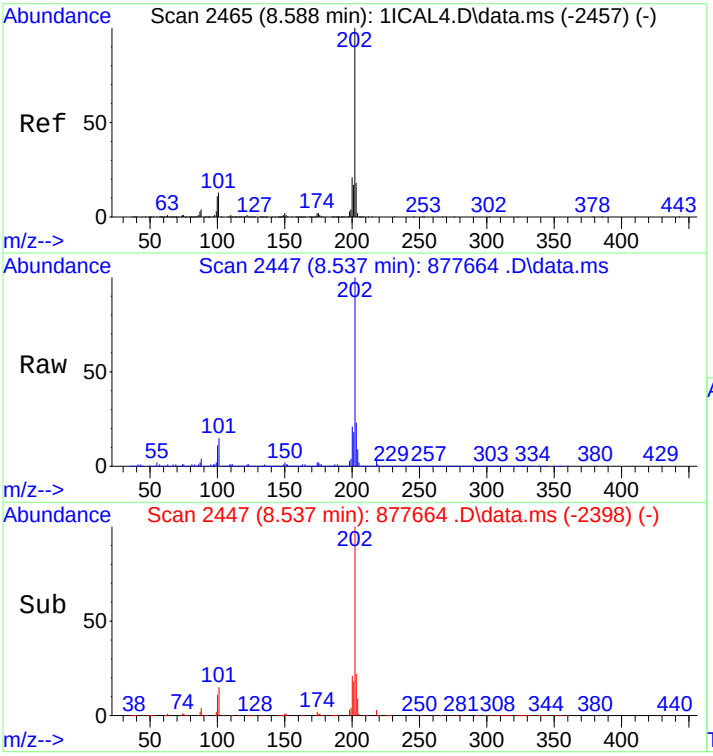


#76
Benzidine
Concen: Below ug/mL
RT: 8.614 min Scan# 2474
Delta R.T. 0.139 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:184 Resp: 3140

Ion	Ratio	Lower	Upper
184	100		
185	24.4	0.0	45.6
183	0.0	0.0	40.2

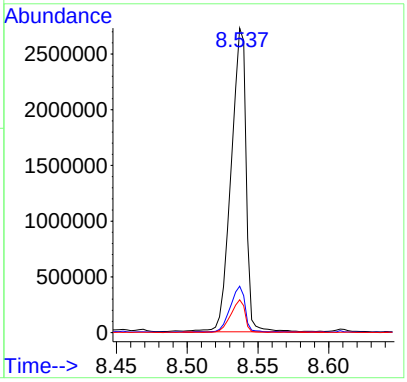


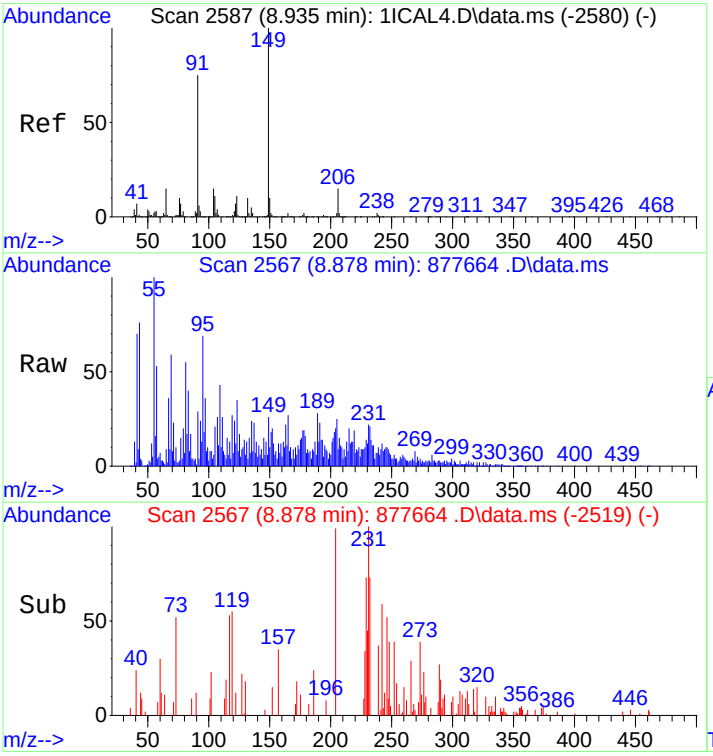


#77
Pyrene
Concen: 54.98 ug/mL
RT: 8.537 min Scan# 2447
Delta R.T. 0.026 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:202 Resp: 2018285

Ion	Ratio	Lower	Upper
202	100		
101	15.1	0.0	48.5
100	10.8	0.0	44.2

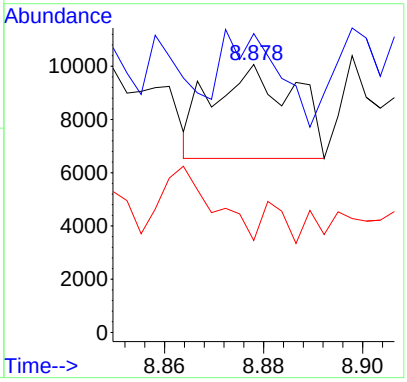


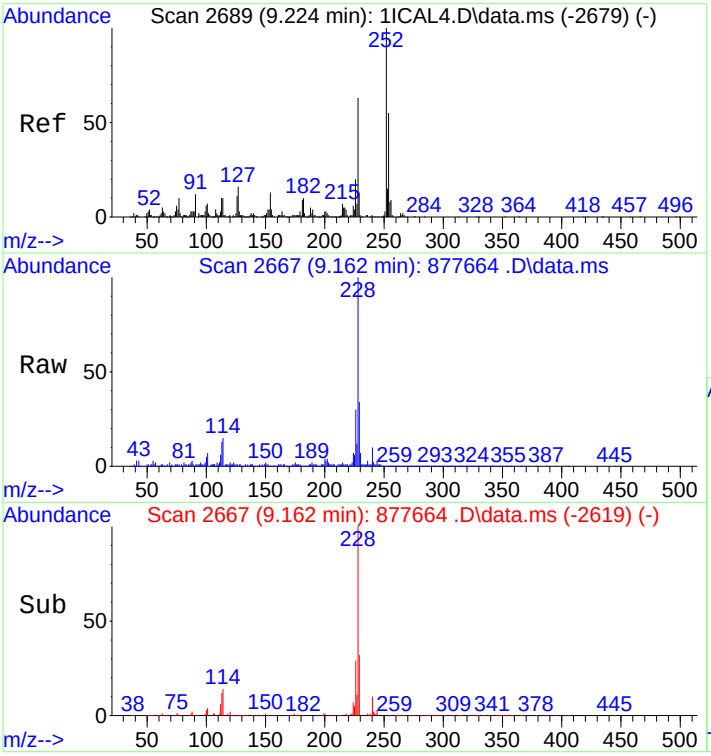


#79
Btylbzylphth
Concen: 0.25 ug/mL
RT: 8.878 min Scan# 2567
Delta R.T. 0.023 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:149 Resp: 4008

Ion	Ratio	Lower	Upper
149	100		
91	63.4	24.4	84.4
206	0.0	0.0	46.3

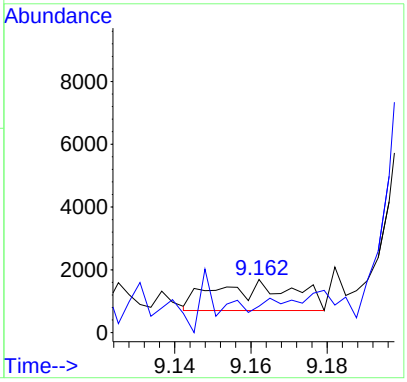


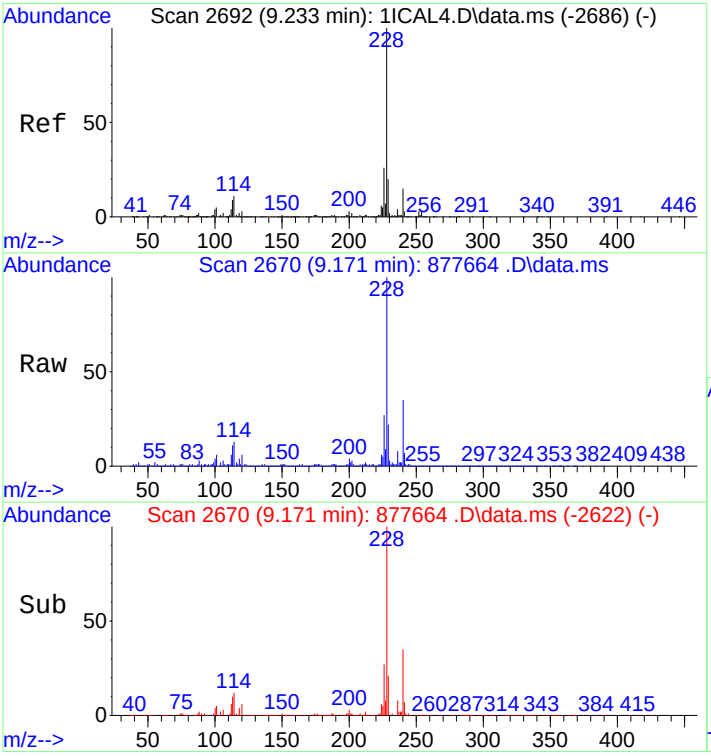


#80
33Diclbnzidin
Concen: Below ug/mL
RT: 9.162 min Scan# 2667
Delta R.T. 0.023 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:252 Resp: 1358

Ion	Ratio	Lower	Upper
252	100		
254	23.4	34.5	94.5#

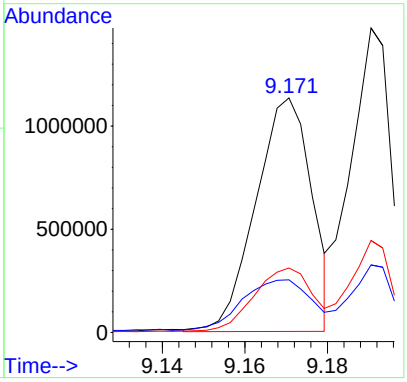


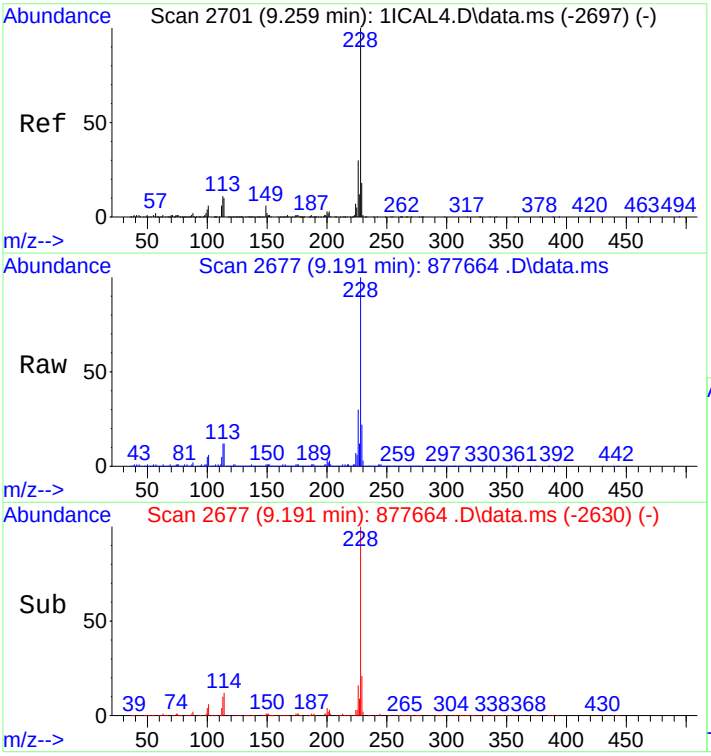


#81
B[a]anthracen
Concen: 33.47 ug/mL
RT: 9.171 min Scan# 2670
Delta R.T. 0.023 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:228 Resp: 1064508

Ion	Ratio	Lower	Upper
228	100		
229	21.7	0.0	49.1
226	27.2	0.0	56.4

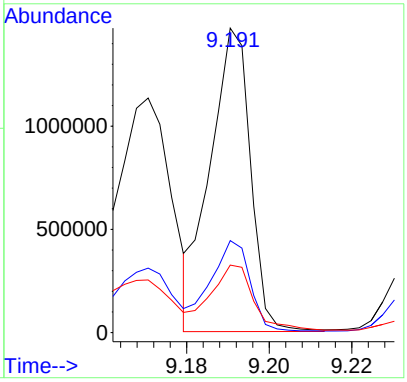


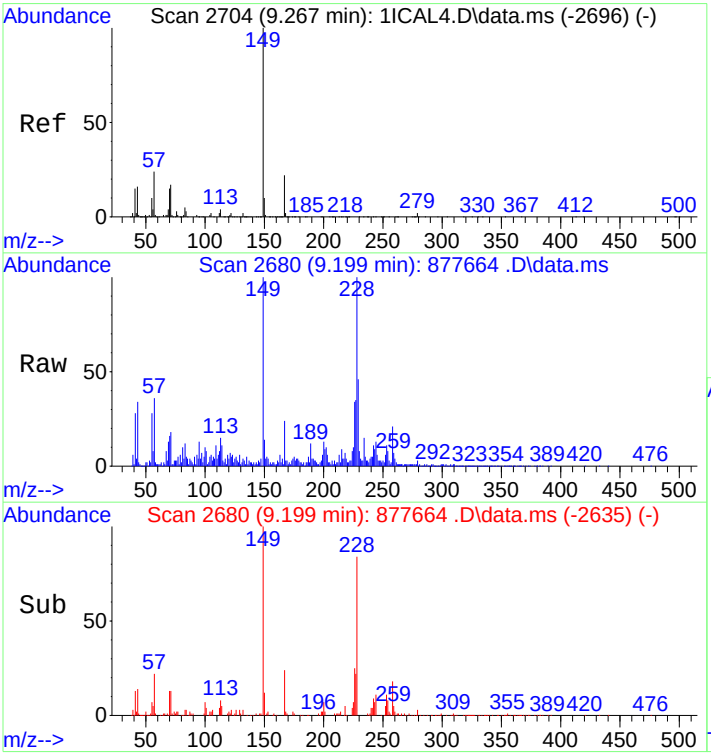


#82
Chrysene
Concen: 33.74 ug/mL
RT: 9.191 min Scan# 2677
Delta R.T. 0.020 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:228 Resp: 1002264

Ion	Ratio	Lower	Upper
228	100		
226	30.0	0.0	58.9
229	21.6	0.0	50.1

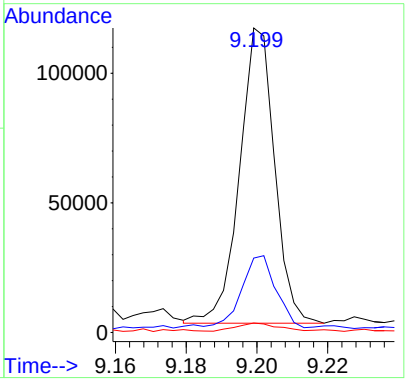


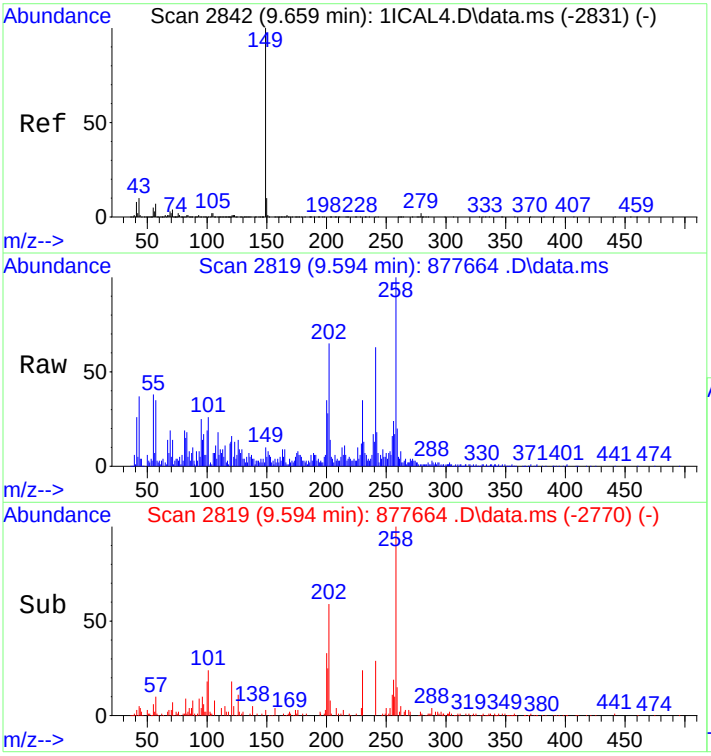


#83
bis2Ethlhxlph
Concen: 3.55 ug/mL
RT: 9.199 min Scan# 2680
Delta R.T. 0.014 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:149 Resp: 78573

Ion	Ratio	Lower	Upper
149	100		
167	23.1	0.0	56.4
279	2.3	0.0	32.7

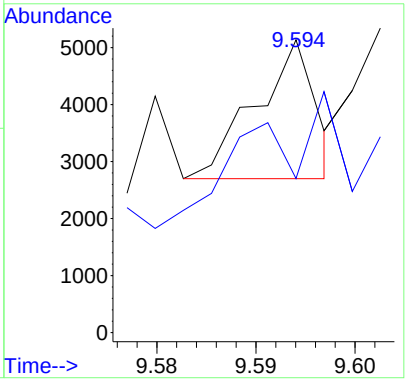


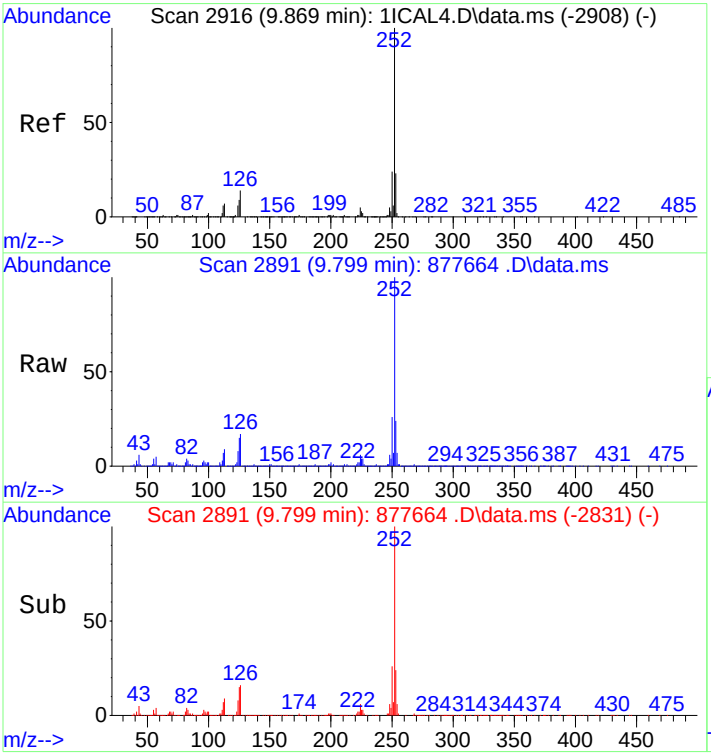


#84
Dinoctylphthl
Concen: 0.03 ug/mL
RT: 9.594 min Scan# 2819
Delta R.T. 0.026 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:149 Resp: 1032

Ion	Ratio	Lower	Upper
149	100		
150	22.9	0.0	39.4

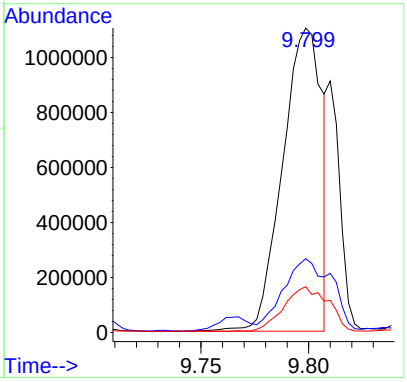


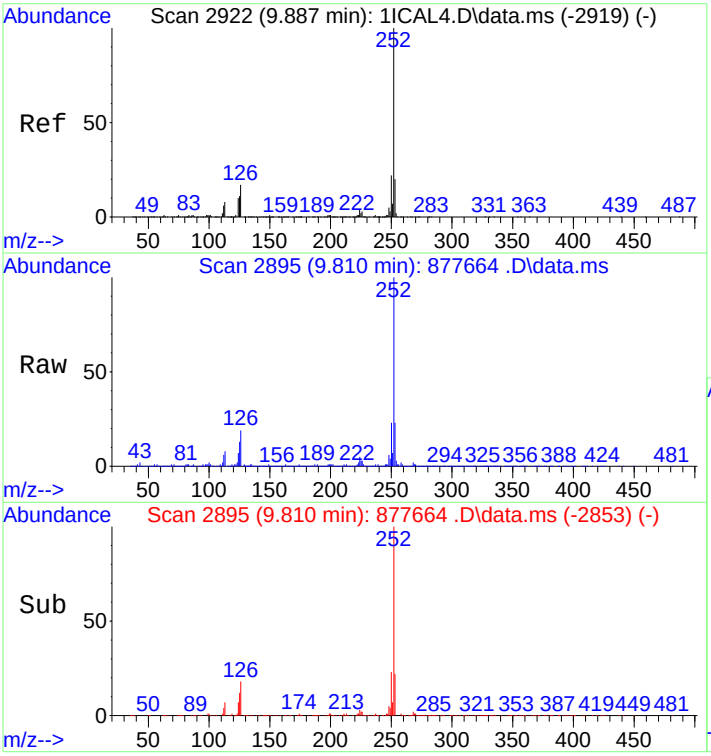


#86
B[b]fluoranth
Concen: 47.23 ug/mL
RT: 9.799 min Scan# 2891
Delta R.T. 0.026 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:252 Resp: 1396873

Ion	Ratio	Lower	Upper
252	100		
253	23.9	0.0	51.1
125	14.7	0.0	46.7

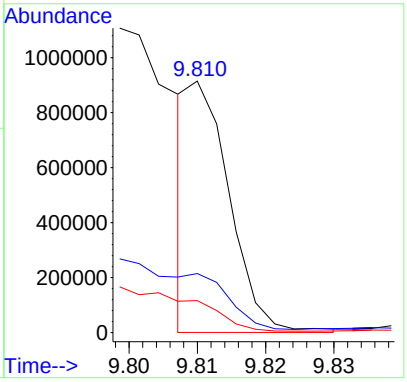


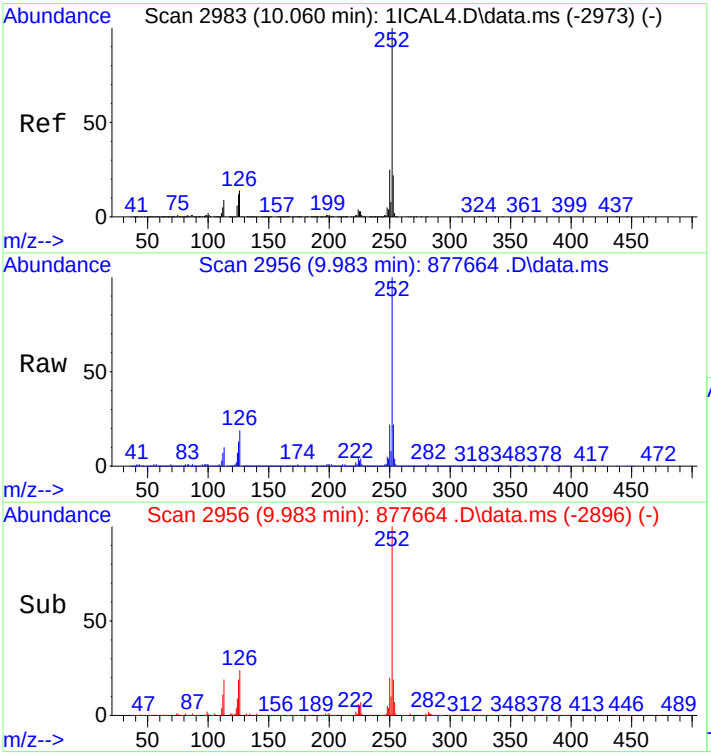


#87
B[k]fluoranth
Concen: 15.19 ug/mL m
RT: 9.810 min Scan# 2895
Delta R.T. 0.020 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:252 Resp: 378296

Ion	Ratio	Lower	Upper
252	100		
253	23.4	0.0	52.0
125	12.7	0.0	47.1

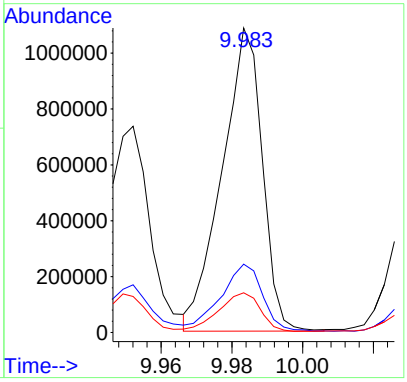


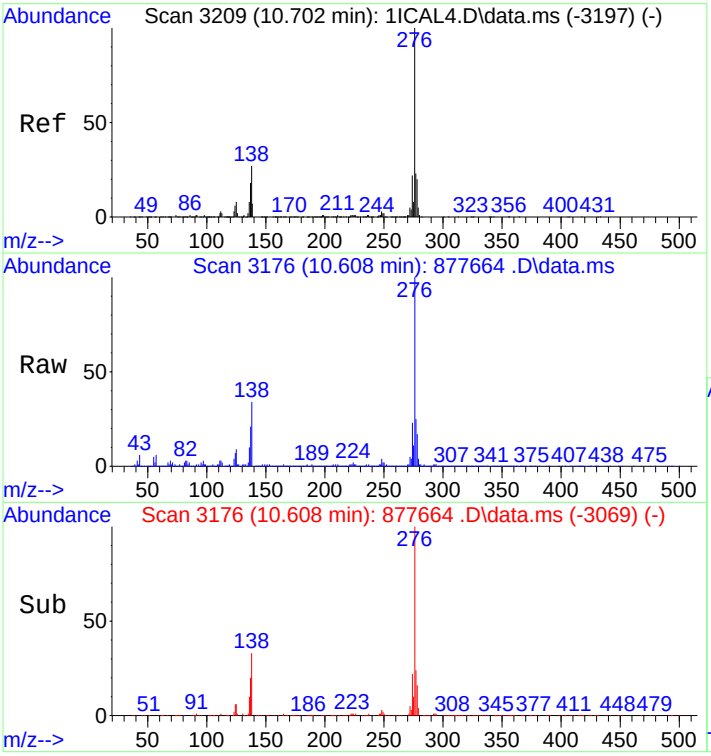


#88
Benz[a]pyrene
Concen: 31.40 ug/mL
RT: 9.983 min Scan# 2956
Delta R.T. 0.026 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:252 Resp: 857453

Ion	Ratio	Lower	Upper
252	100		
253	22.2	0.0	51.1
125	12.6	0.0	50.3

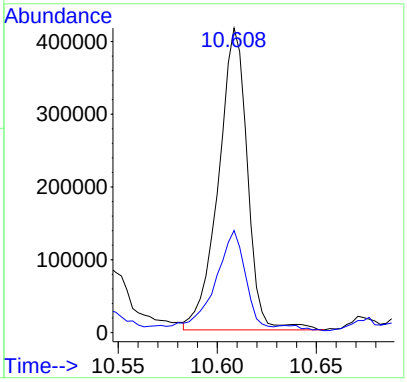


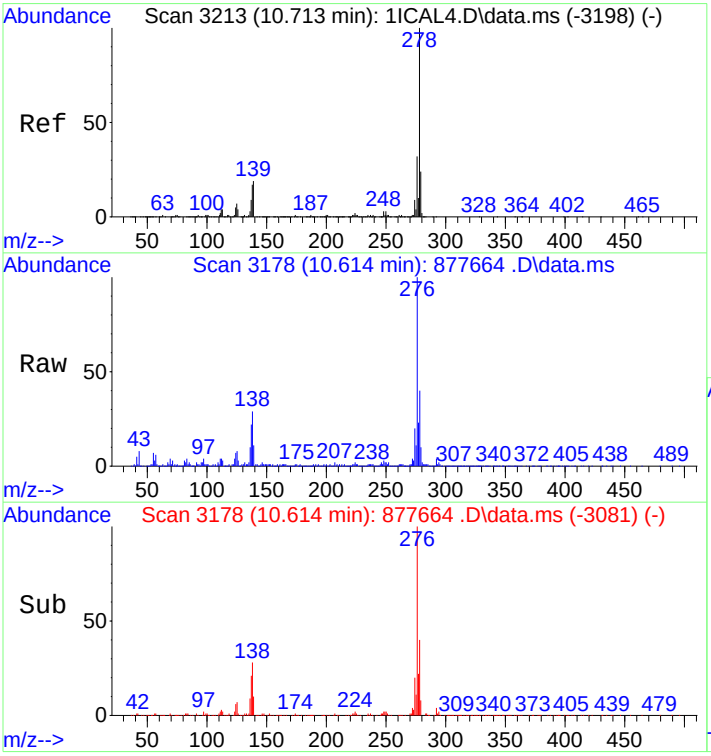


#89
Indeno-pyrene
Concen: 15.64 ug/mL
RT: 10.608 min Scan# 3176
Delta R.T. 0.026 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:276 Resp: 421666

Ion	Ratio	Lower	Upper
276	100		
138	33.2	18.6	78.6

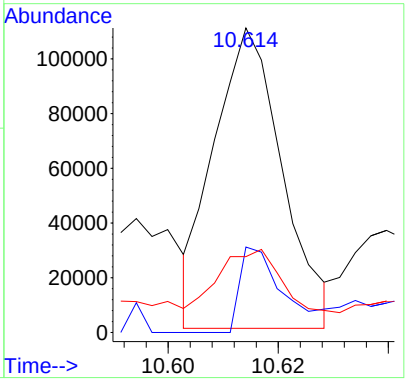


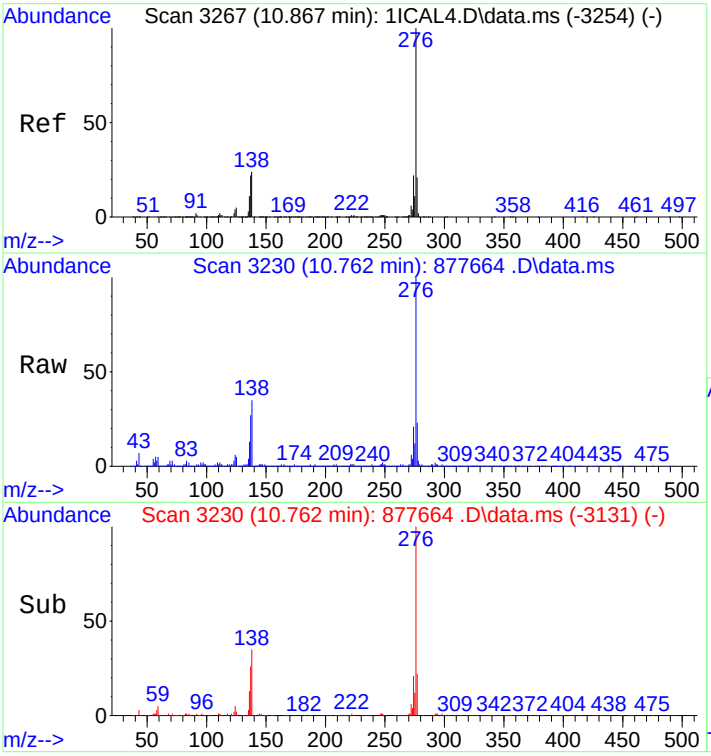


#90
Dib[ah]anthr
Concen: 4.51 ug/mL
RT: 10.614 min Scan# 3178
Delta R.T. 0.017 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:278 Resp: 95013

Ion	Ratio	Lower	Upper
278	100		
139	33.6	2.1	62.1
279	21.1	0.0	53.8

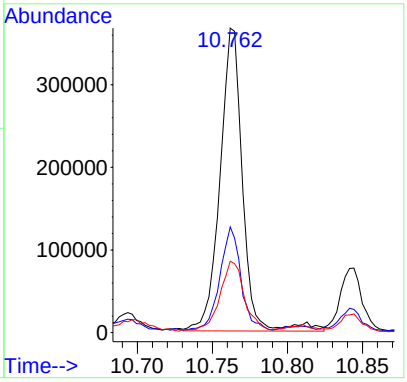


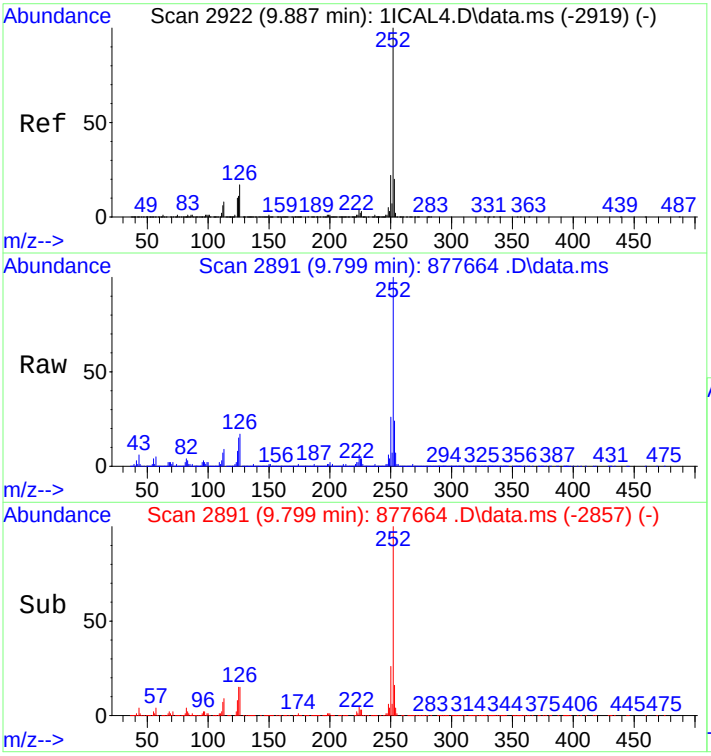


#91
B[ghi]perylen
Concen: 16.38 ug/mL
RT: 10.762 min Scan# 3230
Delta R.T. 0.023 min
Lab File: 877664 .D
Acq: 15 Dec 10 8:10 pm

Tgt Ion:276 Resp: 384501

Ion	Ratio	Lower	Upper
276	100		
138	34.2	14.7	74.7
277	22.7	0.0	53.8

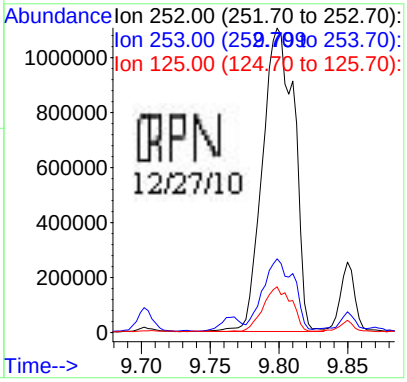




#87
B[k]fluoranth
Concen: 71.28 ug/mL
RT: 9.799 min Scan# 2891
Delta R.T. -0.003 min
Lab File: 877664 .D
Acq: 15 Dec 2010 20:10

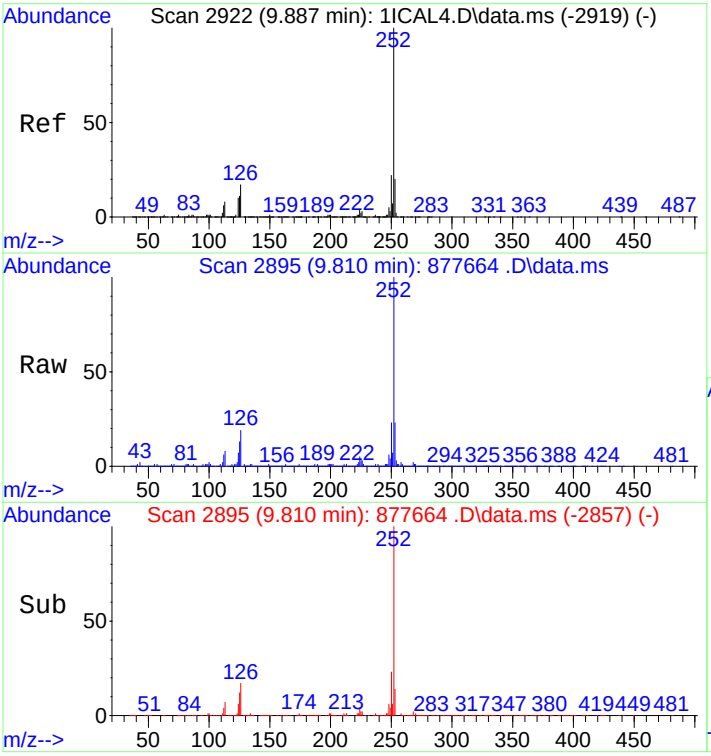
Tgt Ion:252 Resp: 1775754

Ion	Ratio	Lower	Upper
252	100		
253	23.6	0.0	52.0
125	14.7	0.0	47.1



RED
1/08/2011

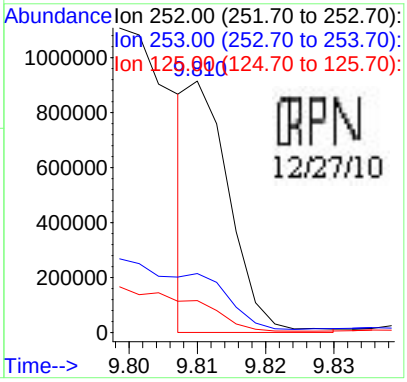
Before Manual Integration



#87
B[k]fluoranth
Concen: 15.19 ug/mL m
RT: 9.810 min Scan# 2895
Delta R.T. 0.008 min
Lab File: 877664 .D
Acq: 15 Dec 2010 20:10

Tgt Ion:252 Resp: 378296

Ion	Ratio	Lower	Upper
252	100		
253	23.4	0.0	52.0
125	12.7	0.0	47.1



RPN
12/27/10

RED
1/08/2011

After Manual Integration

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\877666D.D Vial: 18
Acq On : 15 Dec 2010 15:51 Operator: RPN
Sample : 72515,877666,10 Inst : SVMS1
Misc : 500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 28 10:38:03 2010

RPN
12/27/10

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

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

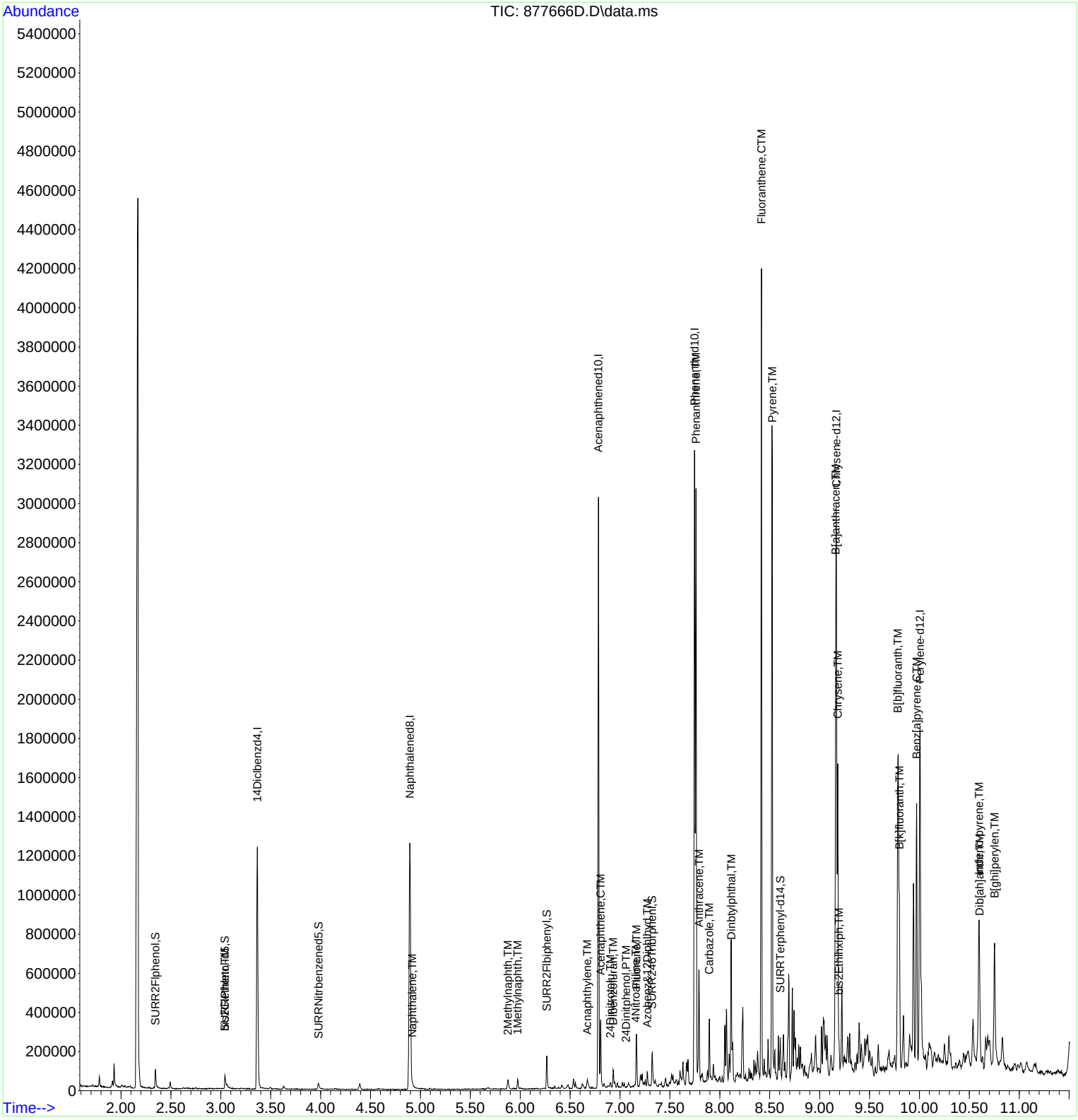
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	3.365	152	208392	20.00	ug/mL	0.00
21) Naphthalened8	4.894	136	715659	20.00	ug/mL	0.00
39) Acenaphthened10	6.784	164	498733	20.00	ug/mL	0.00
63) Phenanthrd10	7.747	188	896271	20.00	ug/mL	0.00
75) Chrysene-d12	9.168	240	546367	20.00	ug/mL	0.00
85) Perylene-d12	10.006	264	530228	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	2.345	112	23426	4.86	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 4.86%#			
7) SURRPhenol-d5	3.042	99	29236	5.24	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 5.24%#			
22) SURRNitrbenzened5	3.979	82	10775	5.00	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 5.00%#			
44) SURR2Flbiphenyl	6.267	172	45863	6.67	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 6.67%#			
62) SURR246Tribrphenl	7.321	330	7645	5.16	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 5.16%#			
78) SURRTerphenyl-d14	8.605	244	30977	7.61	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 7.61%#			
Target Compounds						Qvalue
6) bis2Clethletr	3.042	93	250	0.0235	ug/mL	74
31) Naphthalene	4.920	128	9426	0.2692	ug/mL	90
37) 2Methylnaphth	5.877	141	9768	0.3750	ug/mL	91
38) 1Methylnaphth	5.974	141	10106	0.3767	ug/mL	91
47) Acnaphthylene	6.673	152	13038	0.2862	ug/mL	94
50) Acenaphthene	6.806	153	63307	2.1690	ug/mL	99
52) 24Dinitphenol	7.062	184	105	2.9048	ug/mL#	42
53) Dibenzofuran	6.931	168	29108	0.7234	ug/mL	94
54) 24Dinitrotolu	6.903	165	902	0.0930	ug/mL#	15
58) Fluorene	7.164	166	59060	1.8039	ug/mL	94
61) 4Nitroaniline	7.159	138	698	0.1262	ug/mL#	1
66) Azobenz&12Diphlhyd	7.272	182	14828	2.0757	ug/mL#	1
70) Phenanthrene	7.761	178	809237	17.8317	ug/mL	99
71) Anthracene	7.792	178	159992	3.4359	ug/mL	99
72) Carbazole	7.895	167	89424	2.4632	ug/mL	97
73) Dinbtylphthal	8.116	149	5089	0.0947	ug/mL	71
74) Fluoranthene	8.418	202	1030805	30.3909	ug/mL	89
77) Pyrene	8.526	202	847486	22.9684	ug/mL	88
80) 33Diclbnzidin	9.196	252	2492	Below Cal	#	2
81) B[a]anthracen	9.162	228	411245	12.8620	ug/mL	98
82) Chrysene	9.182	228	391333	13.1048	ug/mL	97
83) bis2Ethlhxlph	9.193	149	2319	0.1042	ug/mL	59
86) B[b]fluoranth	9.784	252	577776	17.5457	ug/mL	95
87) B[k]fluoranth	9.798	252	147023m	5.3002	ug/mL	
88) Benz[a]pyrene	9.972	252	370849	12.1951	ug/mL	91
89) Indeno-pyrene	10.597	276	237669	7.9167	ug/mL	71
90) Dib[ah]anthr	10.603	278	55308	2.3574	ug/mL	88
91) B[ghi]perylen	10.753	276	224378	8.5845	ug/mL	85

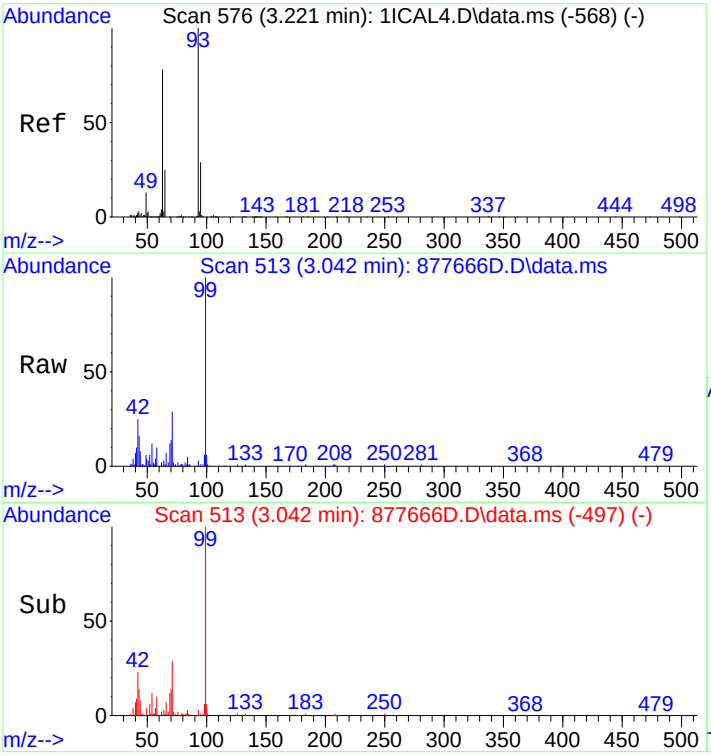
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\877666D.D Vial: 18
Acq On : 15 Dec 2010 15:51 Operator: RPN
Sample : 72515,877666,10 Inst : SVMS1
Misc : 500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 28 10:38:03 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

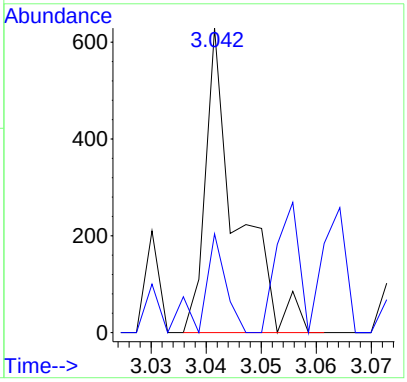


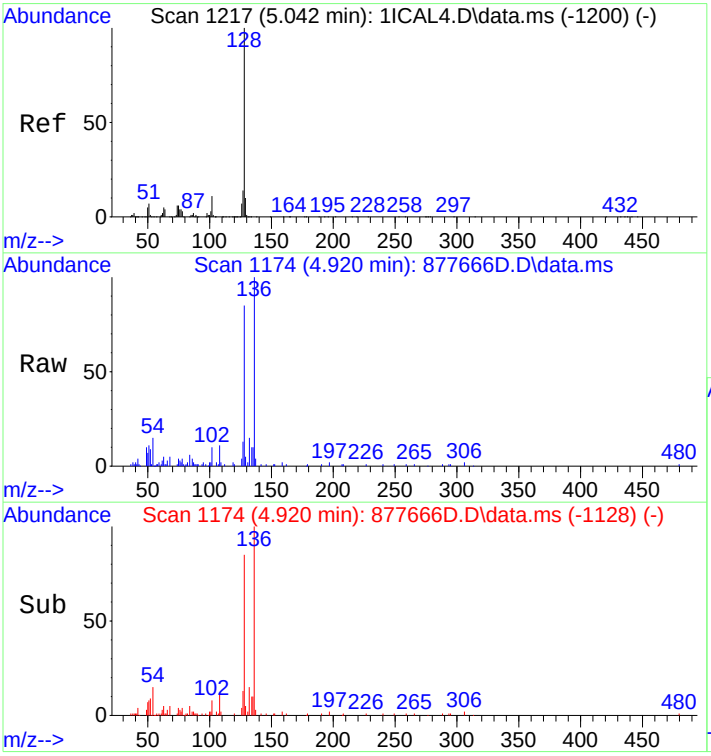


#6
bis2Clethletr
Concen: 0.02 ug/mL
RT: 3.042 min Scan# 513
Delta R.T. -0.068 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion: 93 Resp: 250

Ion	Ratio	Lower	Upper
93	100		
95	18.4	2.8	62.8

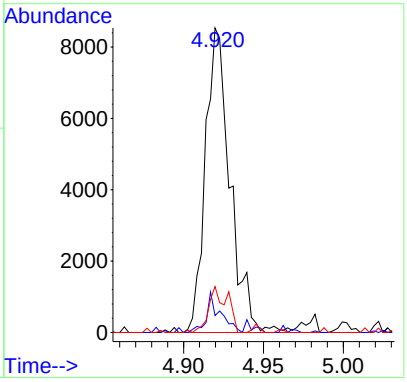


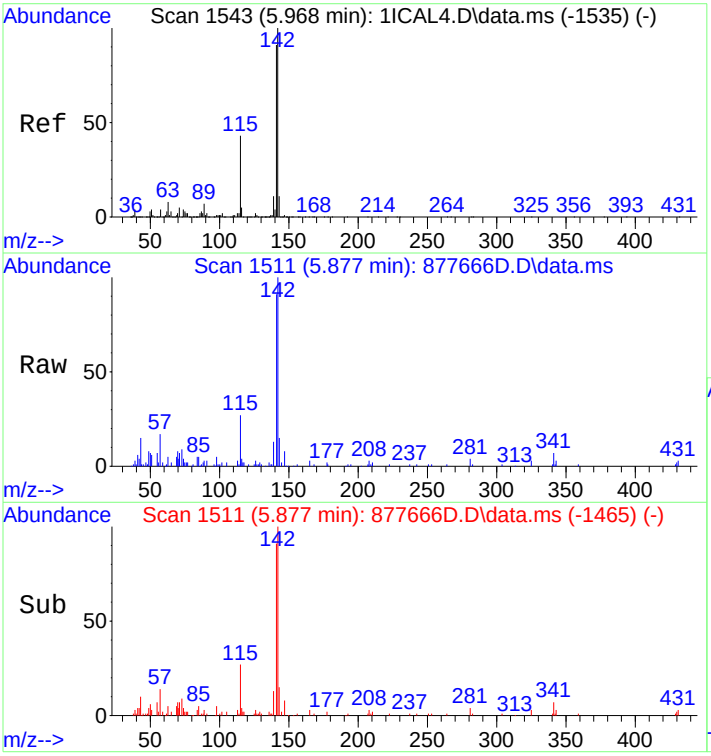


#31
Naphthalene
Concen: 0.27 ug/mL
RT: 4.920 min Scan# 1174
Delta R.T. 0.017 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:128 Resp: 9426

Ion	Ratio	Lower	Upper
128	100		
129	5.5	0.0	40.8
127	15.1	0.0	42.4

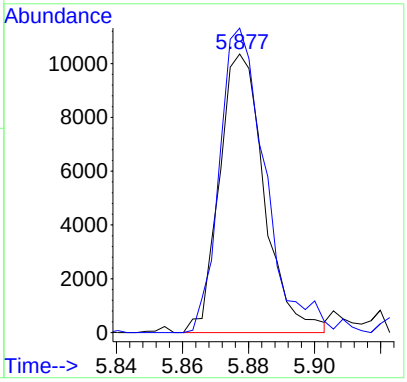


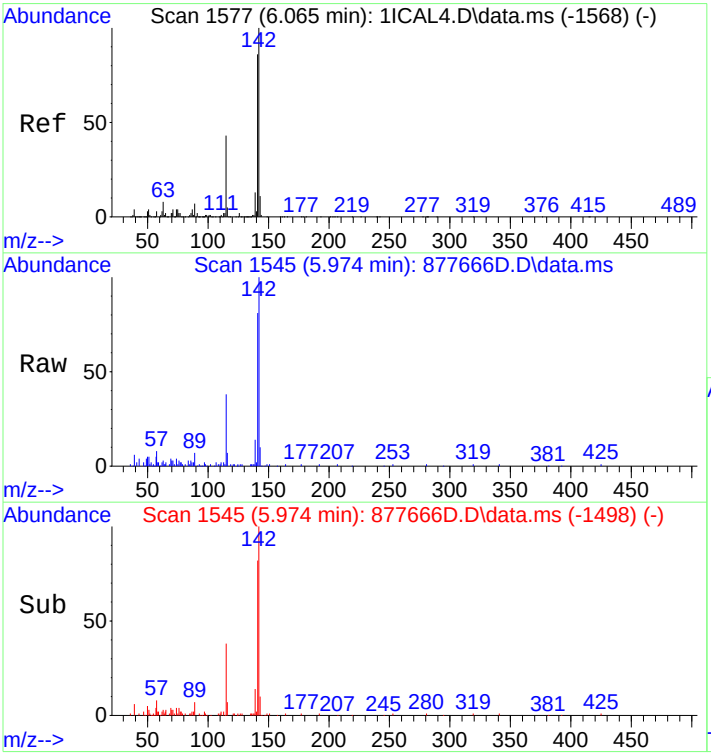


#37
2Methylnaphth
Concen: 0.37 ug/mL
RT: 5.877 min Scan# 1511
Delta R.T. 0.017 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:141 Resp: 9768

Ion	Ratio	Lower	Upper
141	100		
142	109.3	89.1	149.1

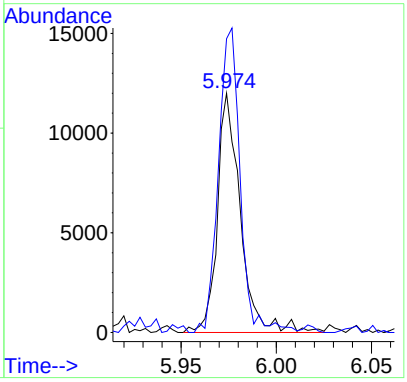


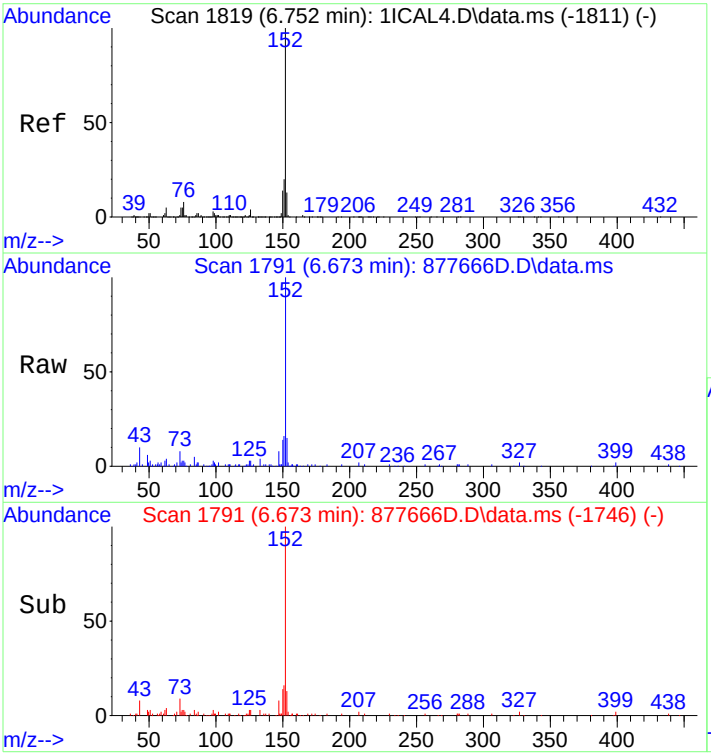


#38
1Methylnaphth
Concen: 0.38 ug/mL
RT: 5.974 min Scan# 1545
Delta R.T. 0.014 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:141 Resp: 10106

Ion	Ratio	Lower	Upper
141	100		
142	122.8	83.6	143.6

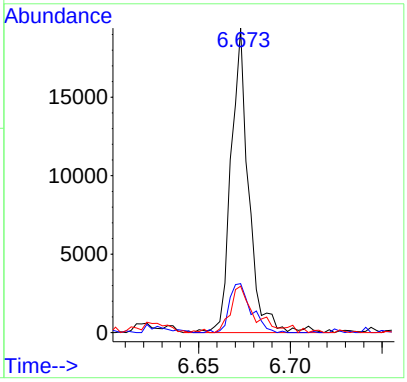


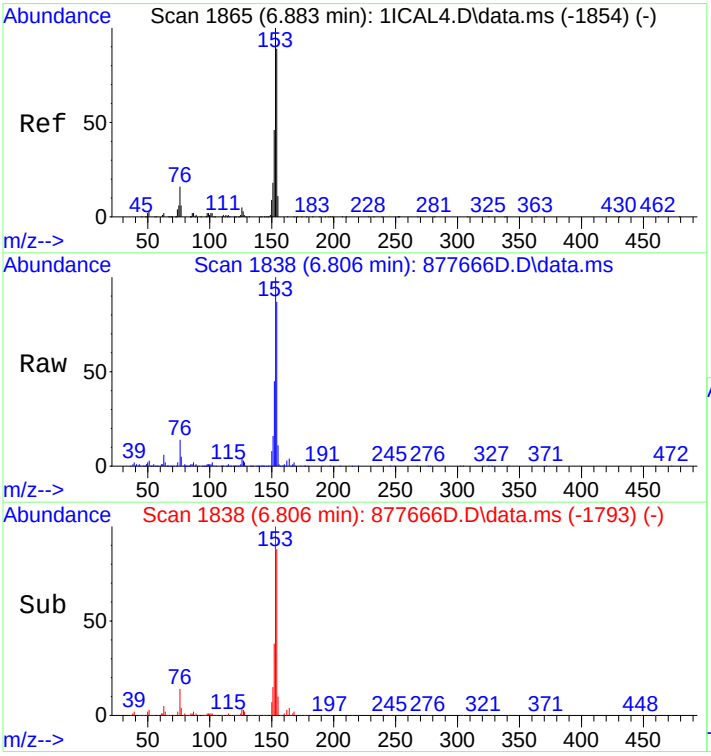


#47
Acnaphthylene
Concen: 0.29 ug/mL
RT: 6.673 min Scan# 1791
Delta R.T. 0.014 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:152 Resp: 13038

Ion	Ratio	Lower	Upper
152	100		
151	16.1	0.0	48.9
153	15.2	0.0	43.2

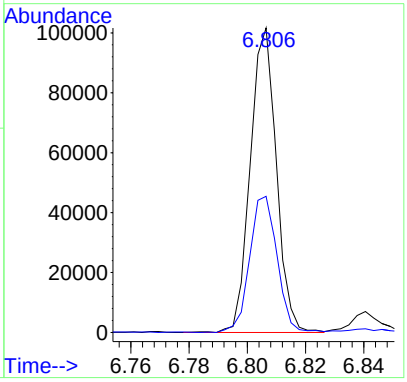


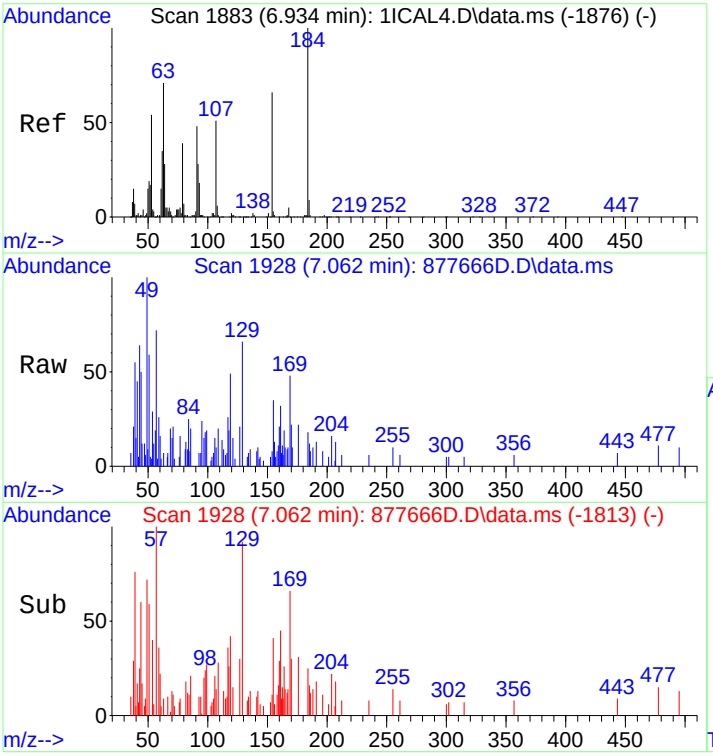


#50
Acenaphthene
Concen: 2.17 ug/mL
RT: 6.806 min Scan# 1838
Delta R.T. 0.014 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:153 Resp: 63307

Ion	Ratio	Lower	Upper
153	100		
152	44.5	15.3	75.3

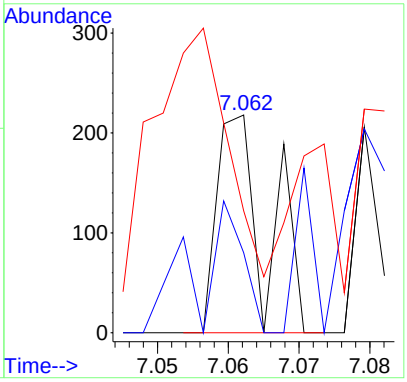


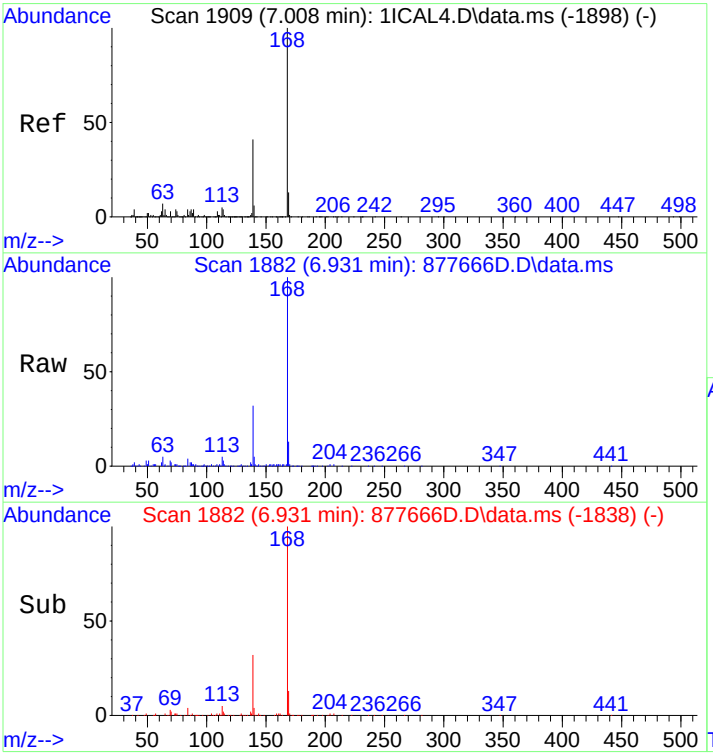


#52
24Dinitphenol
Concen: 2.90 ug/mL
RT: 7.062 min Scan# 1928
Delta R.T. 0.213 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:184 Resp: 105

Ion	Ratio	Lower	Upper
184	100		
63	36.7	63.0	123.0#
107	0.0	0.0	59.2

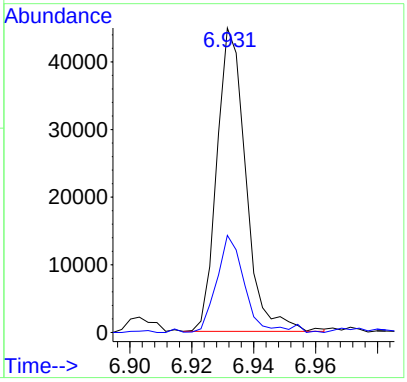


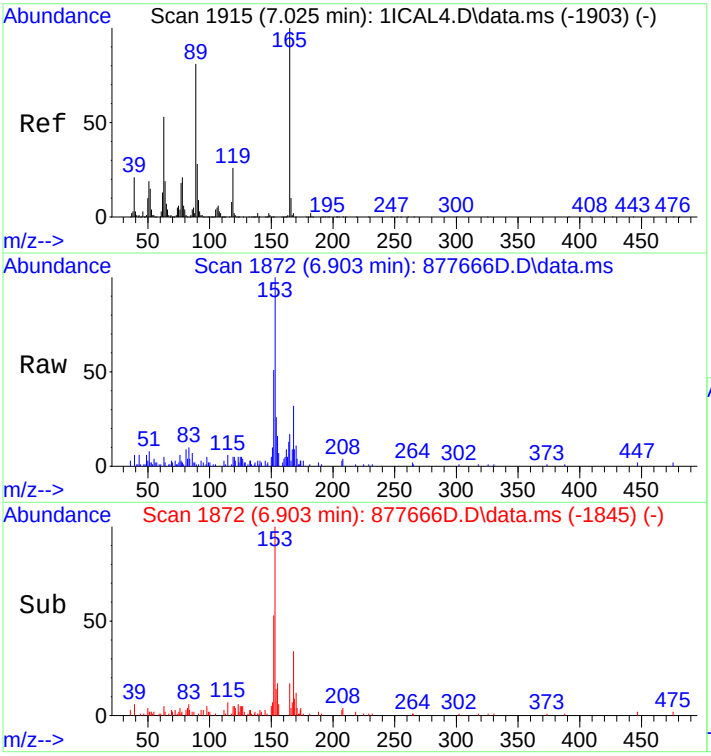


#53
Dibenzofuran
Concen: 0.72 ug/mL
RT: 6.931 min Scan# 1882
Delta R.T. 0.011 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:168 Resp: 29108

Ion	Ratio	Lower	Upper
168	100		
139	32.0	0.0	58.6

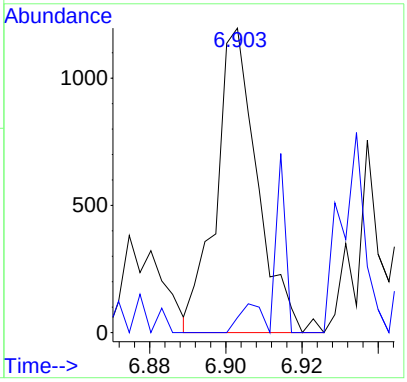


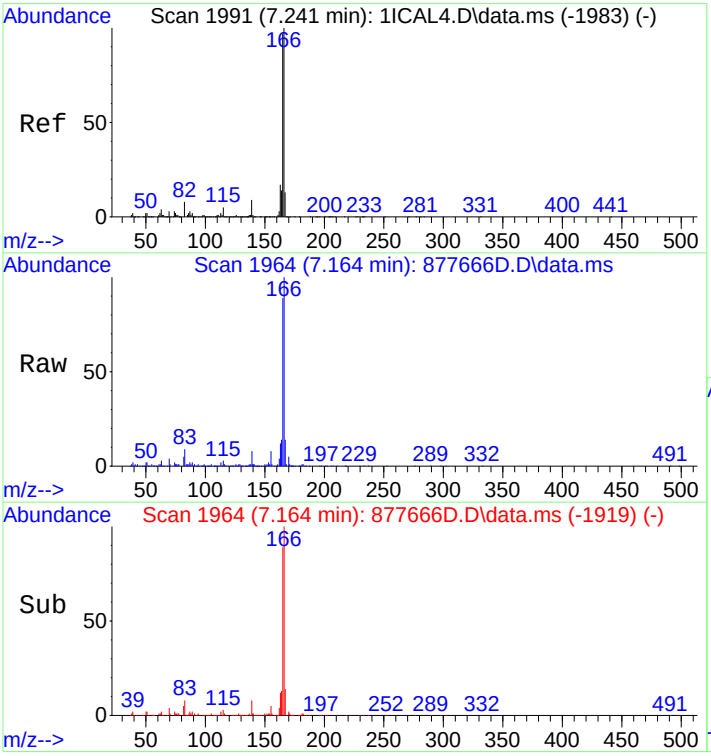


#54
24Dinitrotolu
Concen: 0.09 ug/mL
RT: 6.903 min Scan# 1872
Delta R.T. -0.037 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:165 Resp: 902

Ion	Ratio	Lower	Upper
165	100		
89	4.9	50.0	110.0#

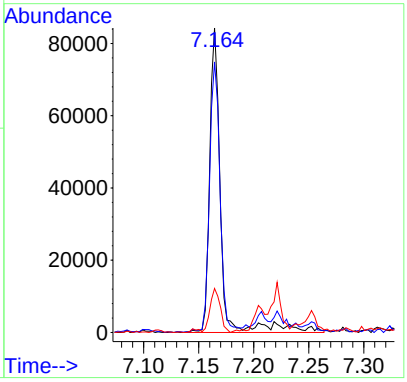


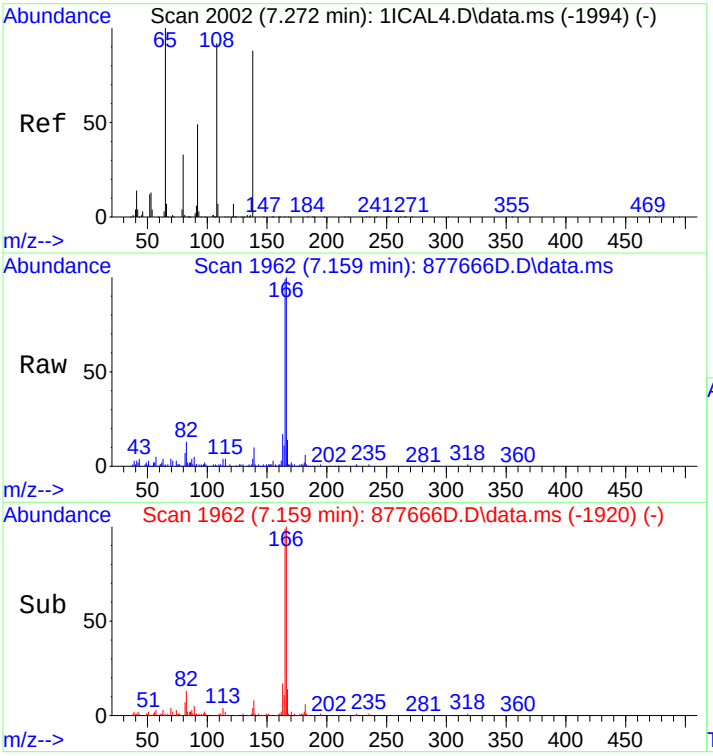


#58
Fluorene
Concen: 1.80 ug/mL
RT: 7.164 min Scan# 1964
Delta R.T. 0.014 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:166 Resp: 59060

Ion	Ratio	Lower	Upper
166	100		
165	88.7	64.4	124.4
167	14.3	0.0	43.1

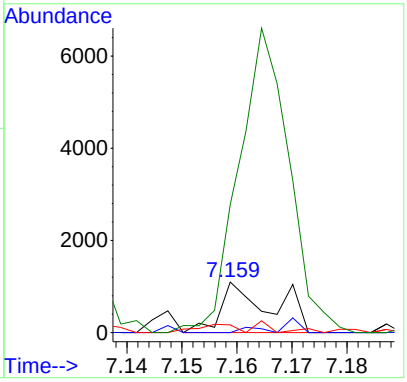


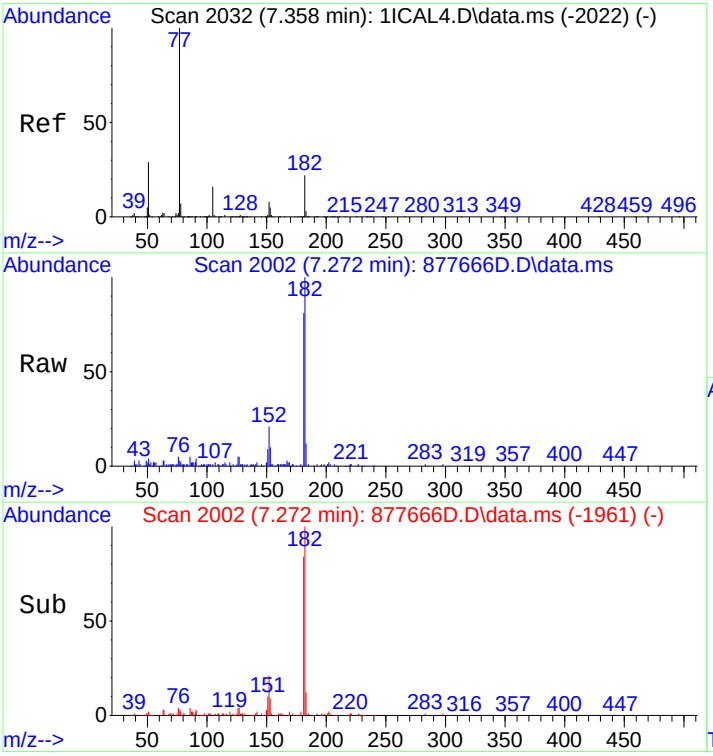


#61
4Nitroaniline
Concen: 0.13 ug/mL
RT: 7.159 min Scan# 1962
Delta R.T. -0.026 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:138 Resp: 698

Ion	Ratio	Lower	Upper
138	100		
92	0.0	13.2	73.2#
108	15.0	40.3	100.3#
139	239.7	0.0	39.9#

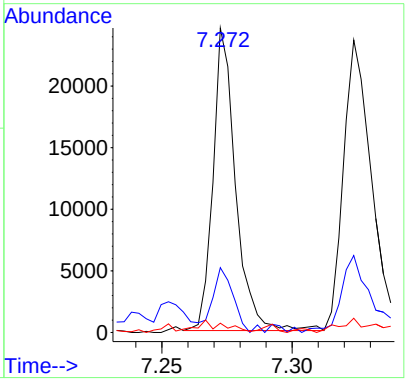


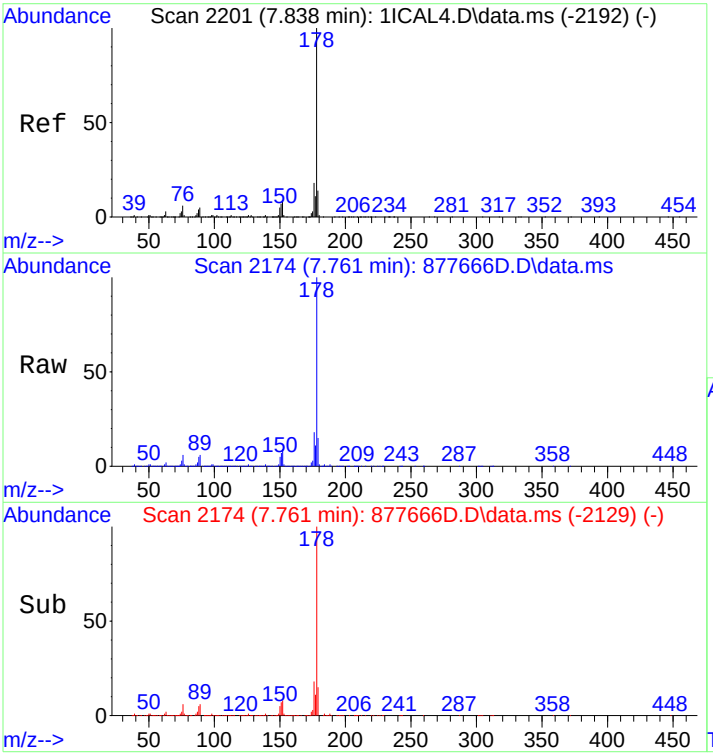


#66
Azobenz&12Diphlhyd
Concen: 2.08 ug/mL
RT: 7.272 min Scan# 2002
Delta R.T. 0.003 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:182 Resp: 14828

Ion	Ratio	Lower	Upper
182	100		
152	20.0	2.4	62.4
77	2.2	390.0	450.0#

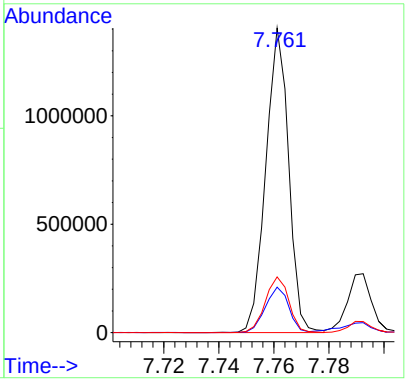


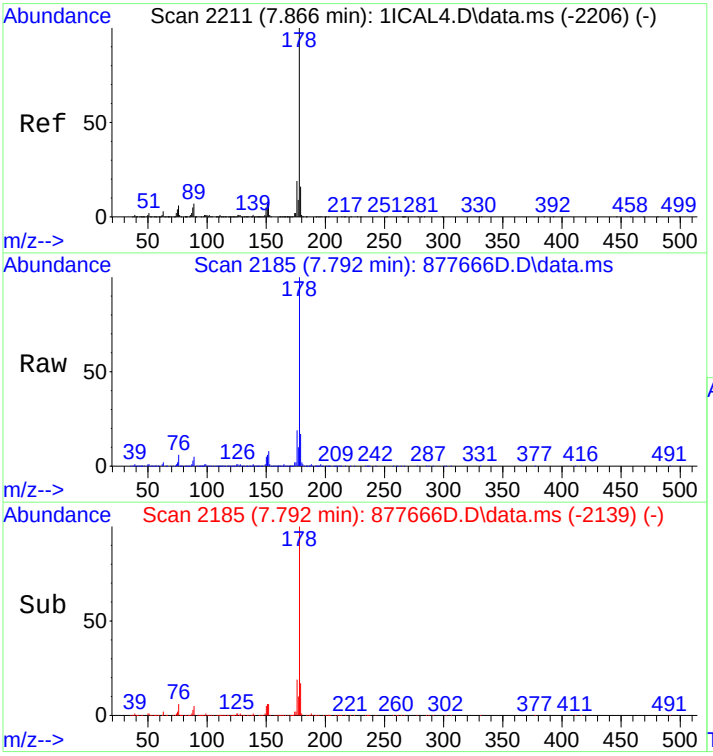


#70
Phenanthrene
Concen: 17.83 ug/mL
RT: 7.761 min Scan# 2174
Delta R.T. 0.014 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:178 Resp: 809237

Ion	Ratio	Lower	Upper
178	100		
179	14.9	0.0	45.5
176	18.3	0.0	48.2

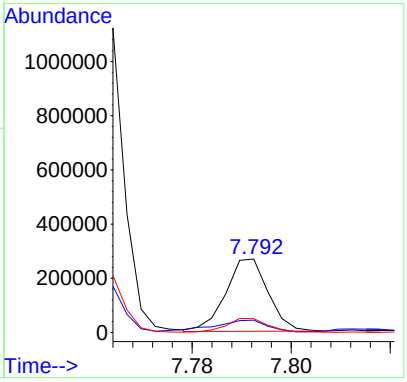


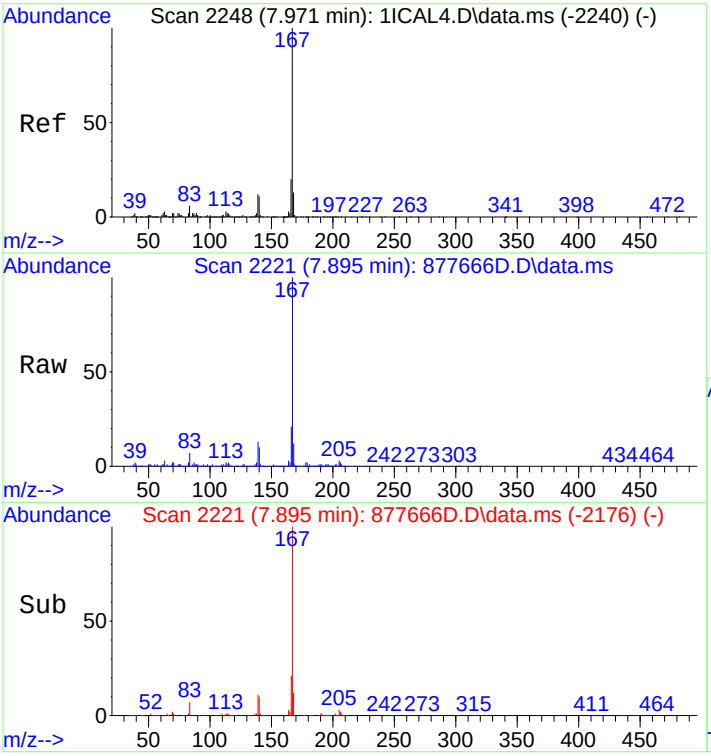


#71
Anthracene
Concen: 3.44 ug/mL
RT: 7.792 min Scan# 2185
Delta R.T. 0.017 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:178 Resp: 159992

Ion	Ratio	Lower	Upper
178	100		
179	15.5	0.0	45.3
176	18.8	0.0	48.0

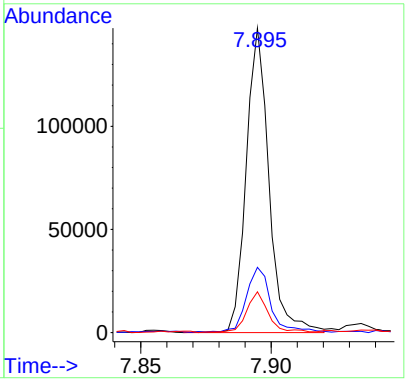


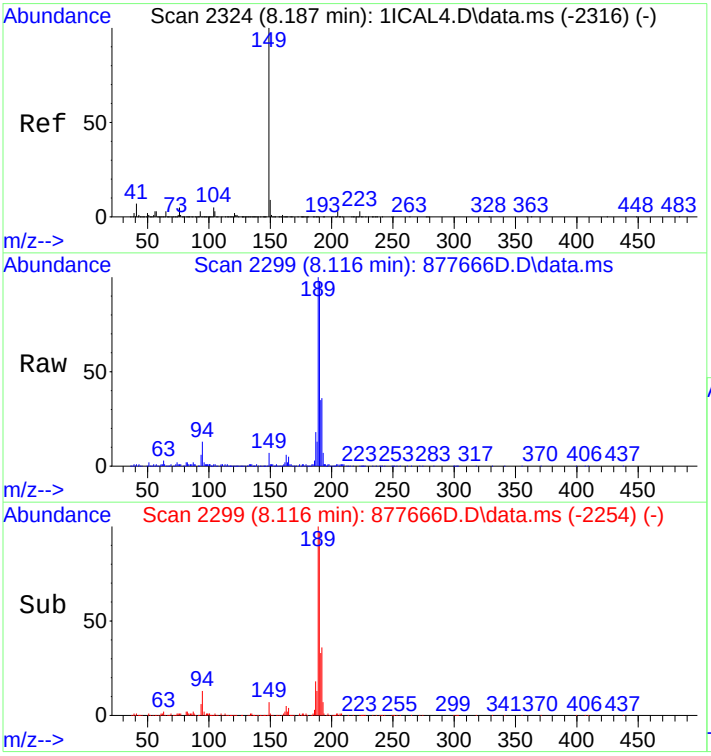


#72
Carbazole
Concen: 2.46 ug/mL
RT: 7.895 min Scan# 2221
Delta R.T. 0.014 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:167 Resp: 89424

Ion	Ratio	Lower	Upper
167	100		
166	21.2	0.0	50.5
139	12.9	0.0	40.7

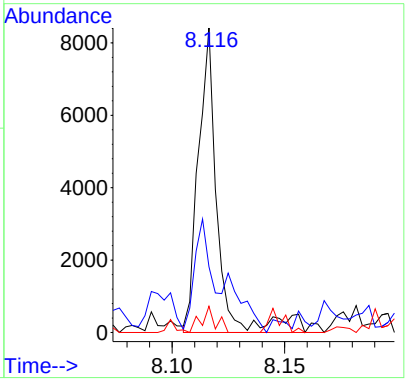


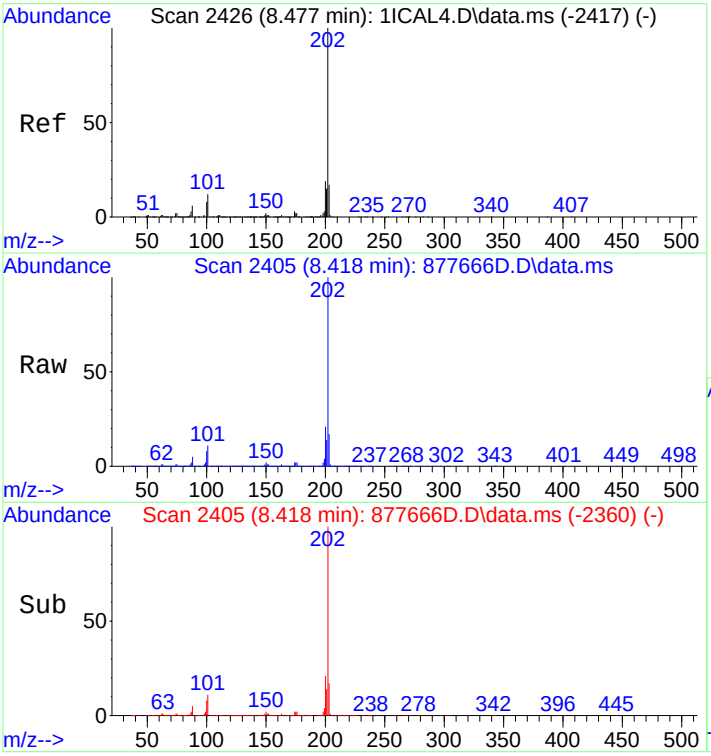


#73
Dinbtylphthal
Concen: 0.09 ug/mL
RT: 8.116 min Scan# 2299
Delta R.T. 0.014 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:149 Resp: 5089

Ion	Ratio	Lower	Upper
149	100		
150	20.6	0.0	38.9
104	8.6	0.0	32.6

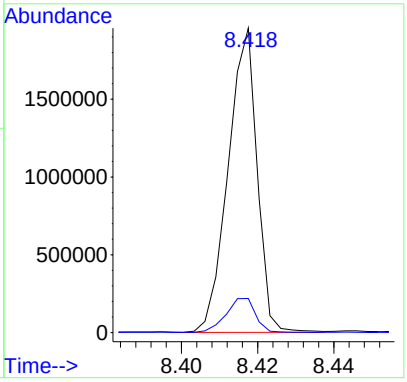


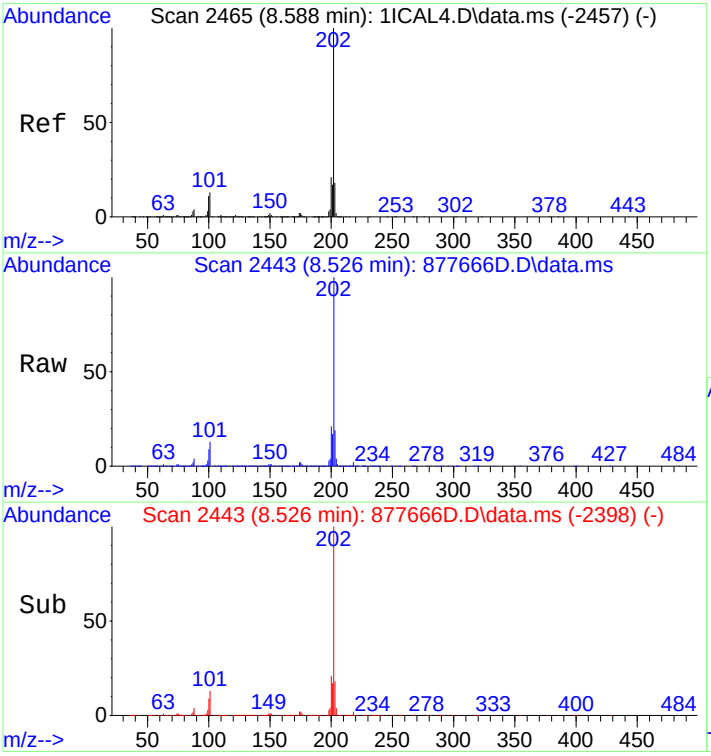


#74
Fluoranthene
Concen: 30.39 ug/mL
RT: 8.418 min Scan# 2405
Delta R.T. 0.014 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:202 Resp: 1030805

Ion	Ratio	Lower	Upper
202	100		
101	11.2	0.0	45.6

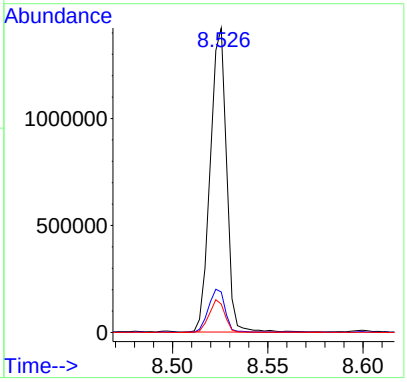


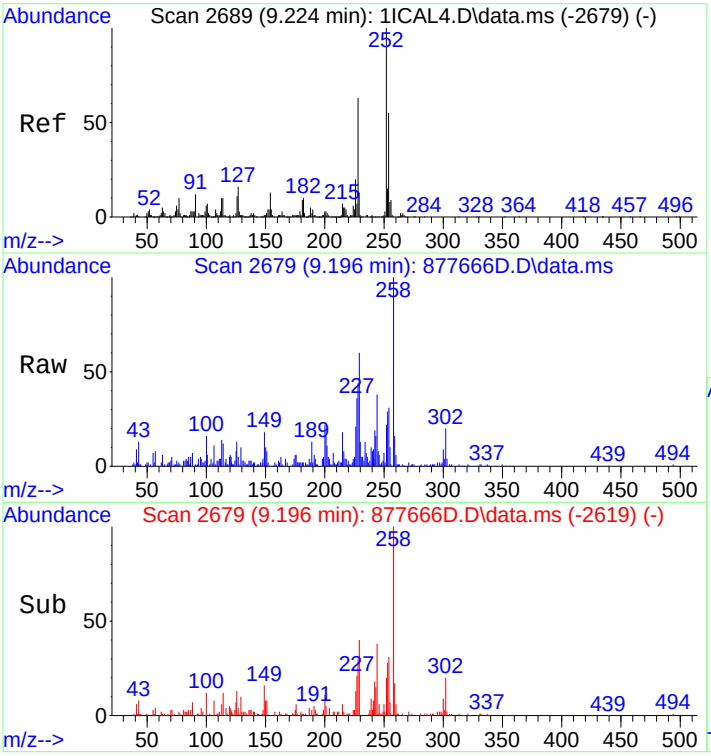


#77
Pyrene
Concen: 22.97 ug/mL
RT: 8.526 min Scan# 2443
Delta R.T. 0.014 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:202 Resp: 847486

Ion	Ratio	Lower	Upper
202	100		
101	13.3	0.0	48.5
100	9.3	0.0	44.2

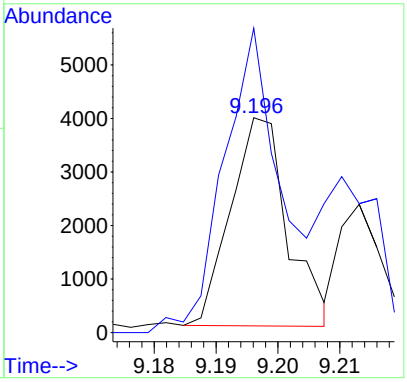


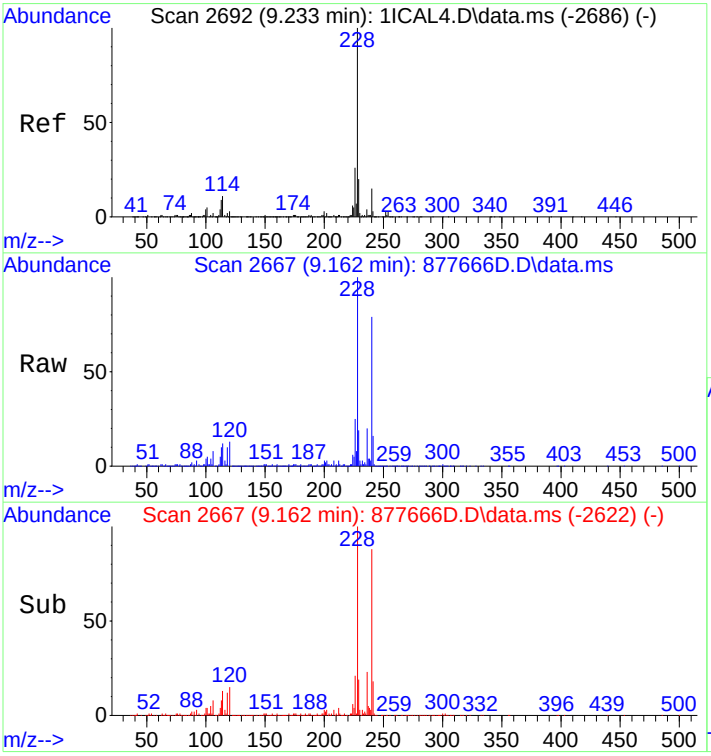


#80
33Diclbnzidin
Concen: Below ug/mL
RT: 9.196 min Scan# 2679
Delta R.T. 0.057 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:252 Resp: 2492

Ion	Ratio	Lower	Upper
252	100		
254	141.6	34.5	94.5#

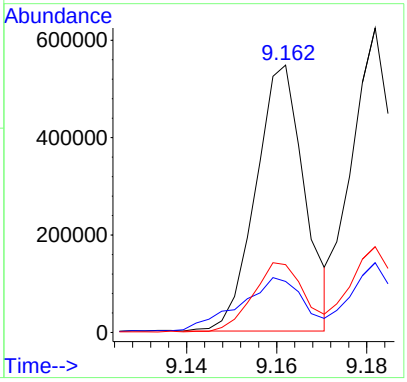


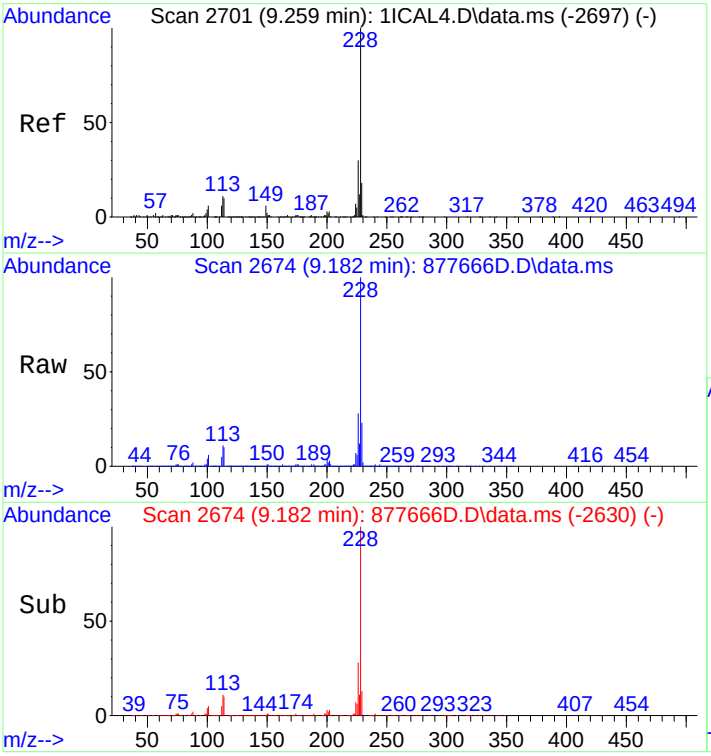


#81
B[a]anthracen
Concen: 12.86 ug/mL
RT: 9.162 min Scan# 2667
Delta R.T. 0.014 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:228 Resp: 411245

Ion	Ratio	Lower	Upper
228	100		
229	18.2	0.0	49.1
226	25.3	0.0	56.4

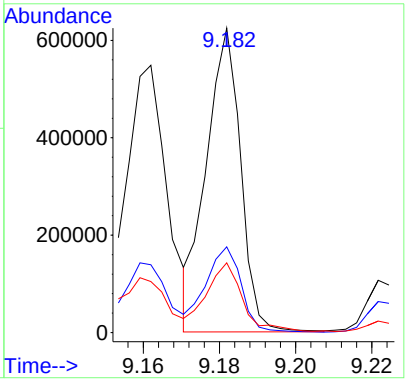


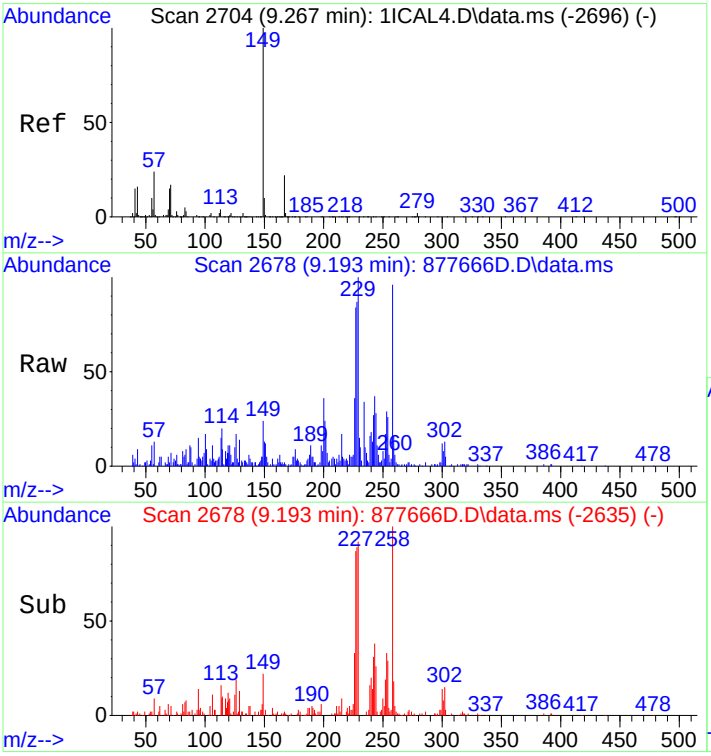


#82
Chrysene
Concen: 13.10 ug/mL
RT: 9.182 min Scan# 2674
Delta R.T. 0.011 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:228 Resp: 391333

Ion	Ratio	Lower	Upper
228	100		
226	28.2	0.0	58.9
229	22.4	0.0	50.1

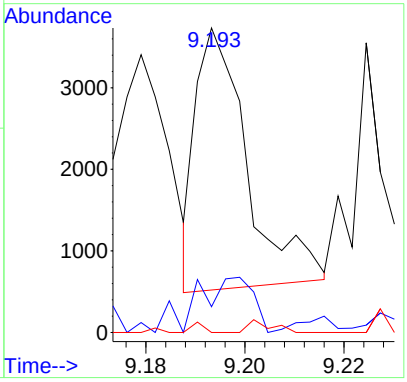


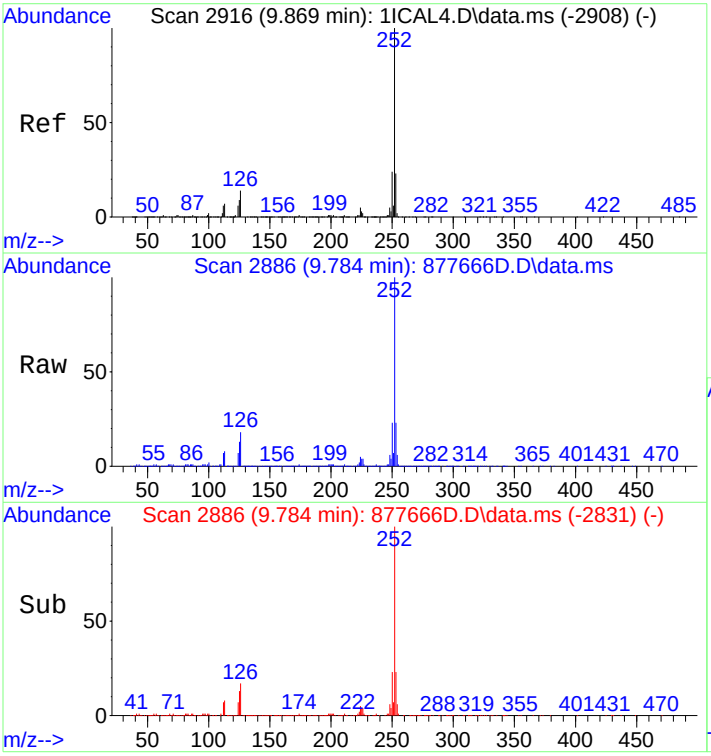


#83
bis2Ethlhxlph
Concen: 0.10 ug/mL
RT: 9.193 min Scan# 2678
Delta R.T. 0.008 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:149 Resp: 2319

Ion	Ratio	Lower	Upper
149	100		
167	3.8	0.0	56.4
279	0.0	0.0	32.7

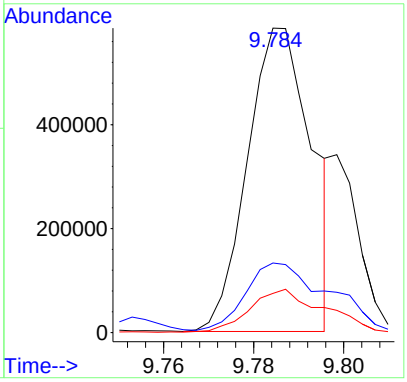


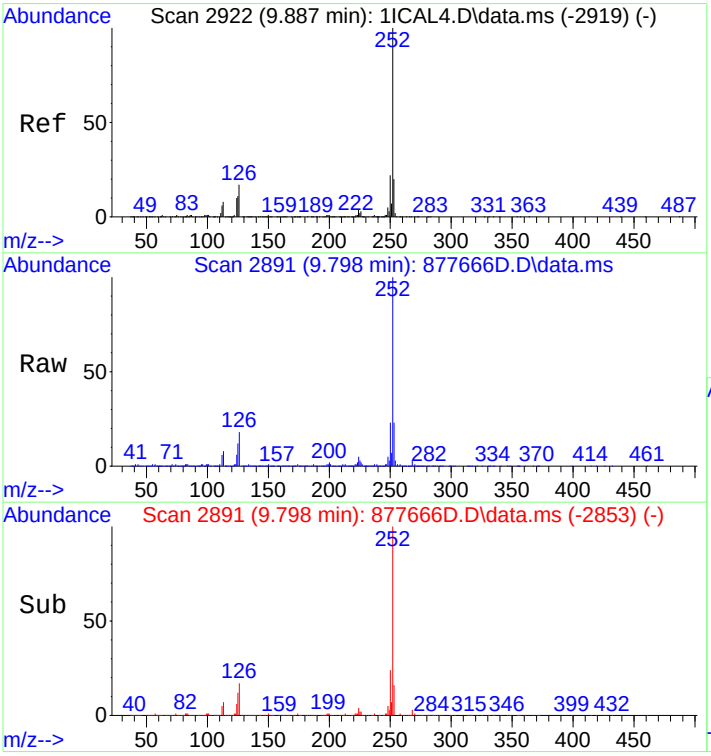


#86
B[b]fluoranth
Concen: 17.55 ug/mL
RT: 9.784 min Scan# 2886
Delta R.T. 0.011 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:252 Resp: 577776

Ion	Ratio	Lower	Upper
252	100		
253	22.0	0.0	51.1
125	12.8	0.0	46.7

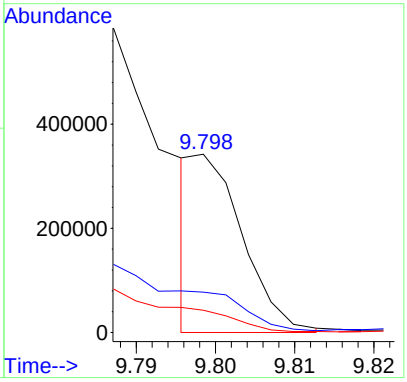


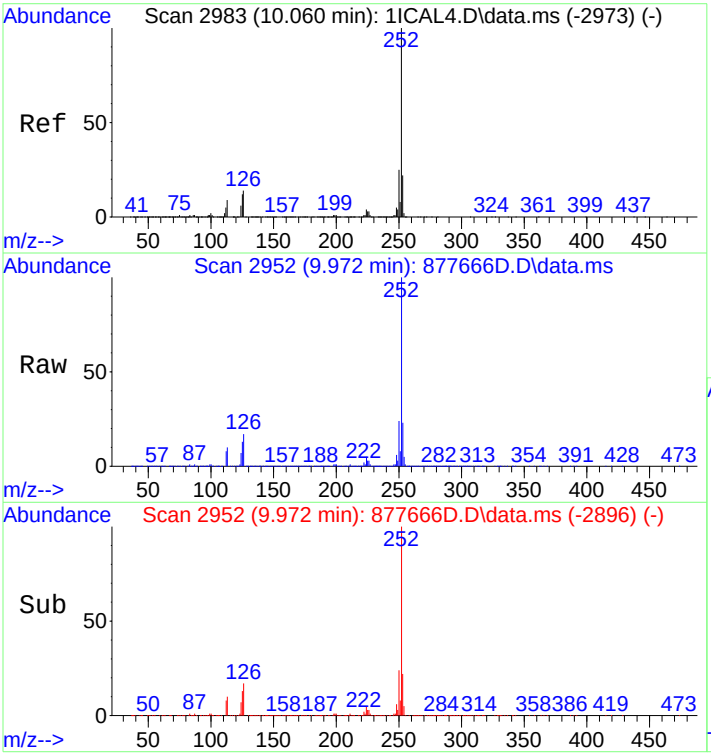


#87
B[k]fluoranth
Concen: 5.30 ug/mL m
RT: 9.798 min Scan# 2891
Delta R.T. 0.008 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:252 Resp: 147023

Ion	Ratio	Lower	Upper
252	100		
253	22.7	0.0	52.0
125	12.5	0.0	47.1

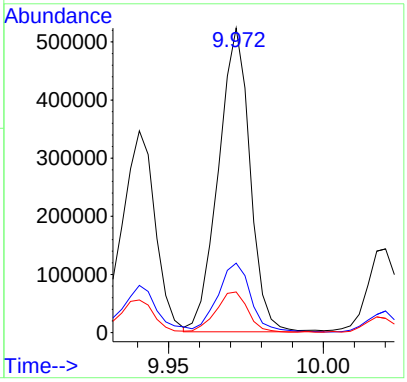


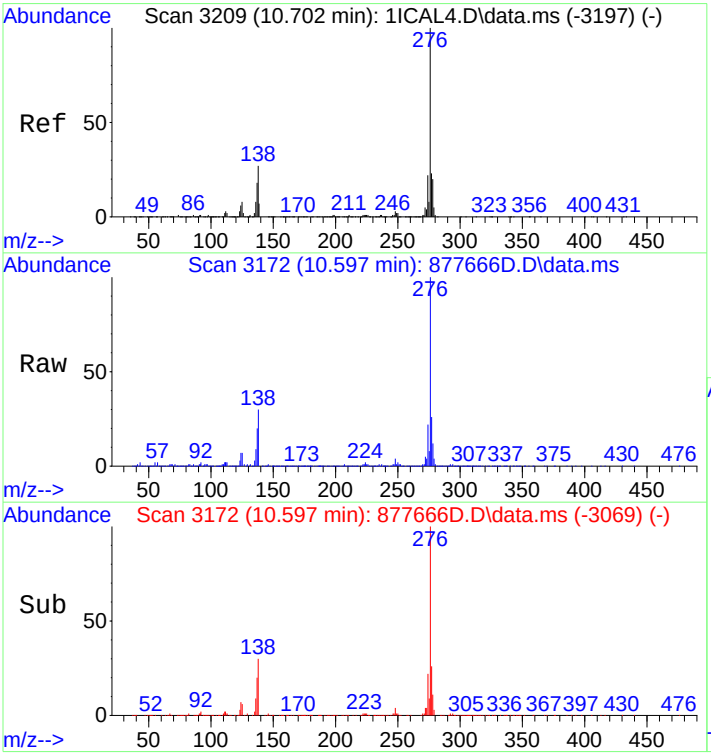


#88
Benz[a]pyrene
Concen: 12.20 ug/mL
RT: 9.972 min Scan# 2952
Delta R.T. 0.014 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:252 Resp: 370849

Ion	Ratio	Lower	Upper
252	100		
253	22.7	0.0	51.1
125	13.3	0.0	50.3

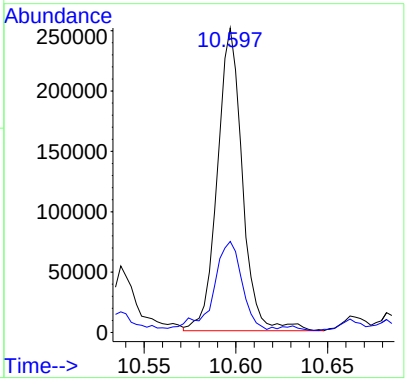


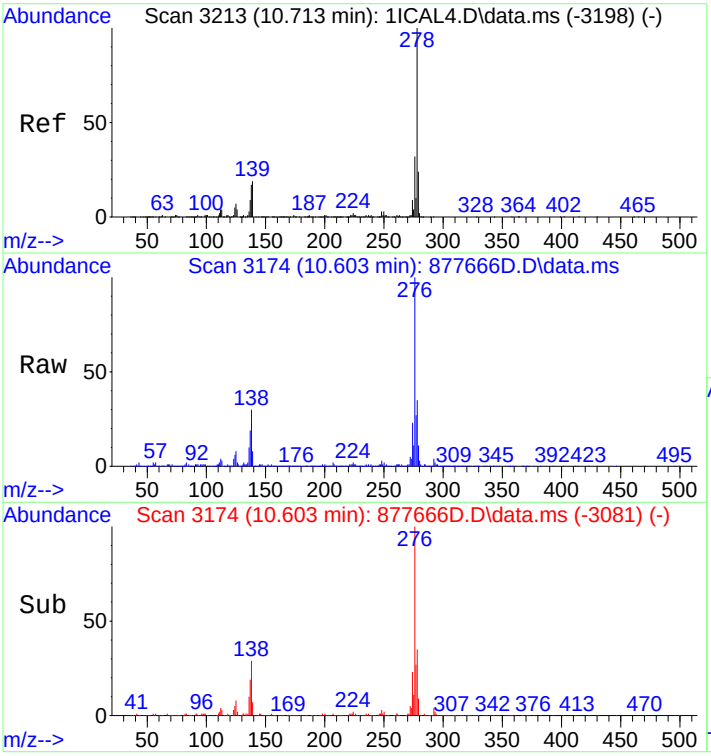


#89
Indeno-pyrene
Concen: 7.92 ug/mL
RT: 10.597 min Scan# 3172
Delta R.T. 0.014 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:276 Resp: 237669

Ion	Ratio	Lower	Upper
276	100		
138	29.0	18.6	78.6

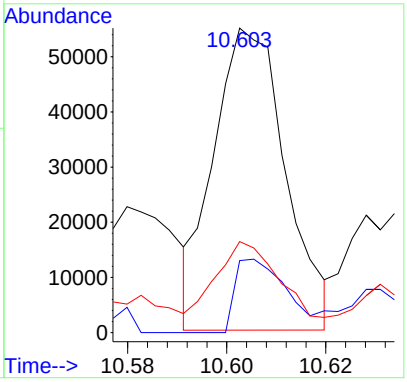


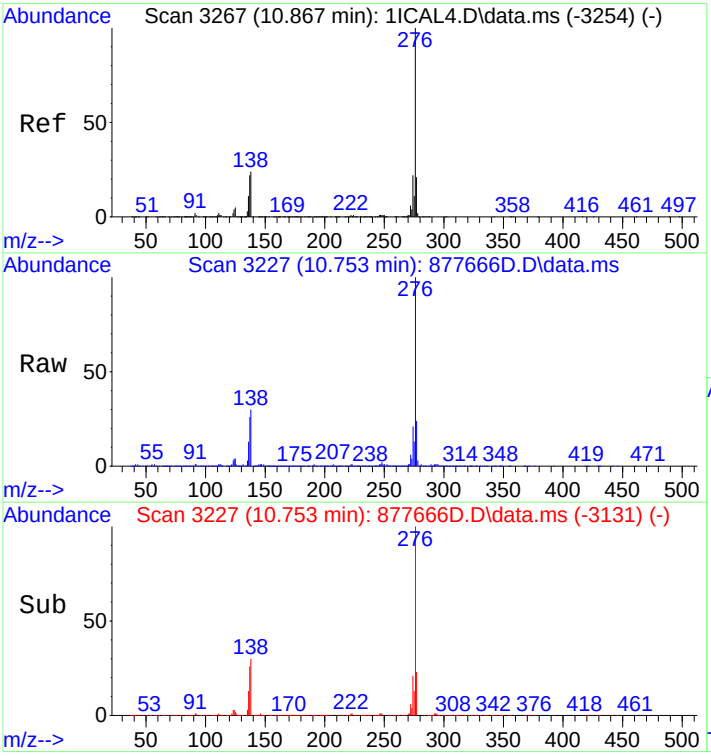


#90
Dib[ah]anthr
Concen: 2.36 ug/mL
RT: 10.603 min Scan# 3174
Delta R.T. 0.006 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:278 Resp: 55308

Ion	Ratio	Lower	Upper
278	100		
139	25.8	2.1	62.1
279	30.1	0.0	53.8

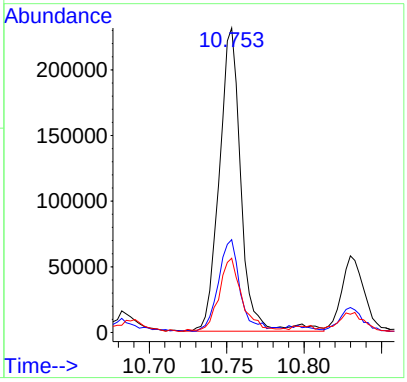


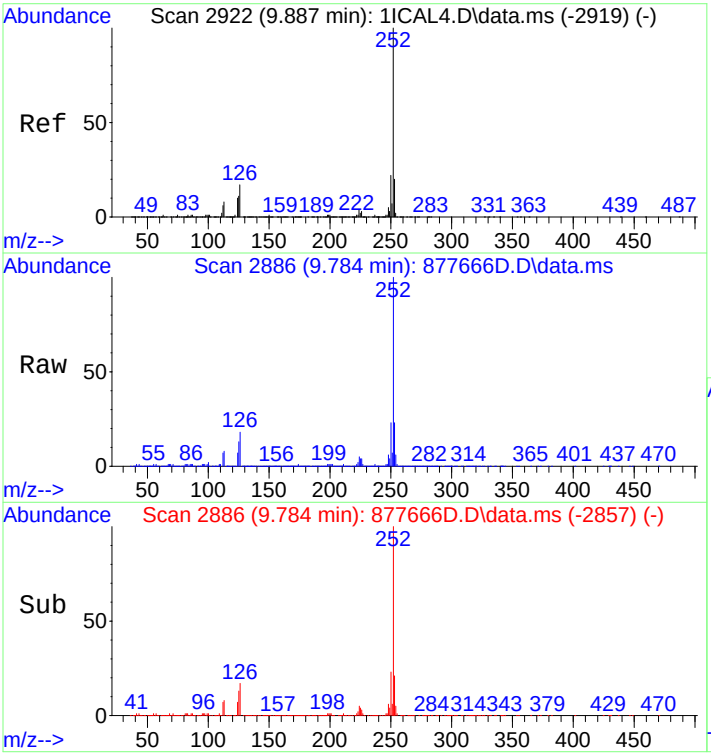


#91
B[ghi]perylen
Concen: 8.58 ug/mL
RT: 10.753 min Scan# 3227
Delta R.T. 0.014 min
Lab File: 877666D.D
Acq: 15 Dec 10 3:51 pm

Tgt Ion:276 Resp: 224378

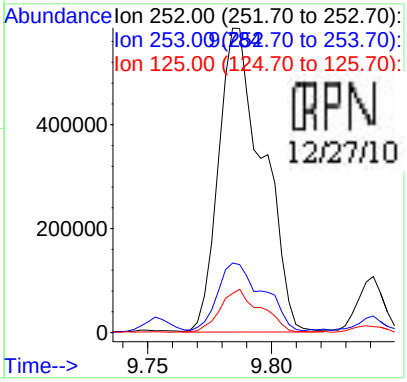
Ion	Ratio	Lower	Upper
276	100		
138	30.0	14.7	74.7
277	24.0	0.0	53.8





#87
B[k]fluoranth
Concen: 26.25 ug/mL
RT: 9.784 min Scan# 2886
Delta R.T. -0.017 min
Lab File: 877666D.D
Acq: 15 Dec 2010 15:51

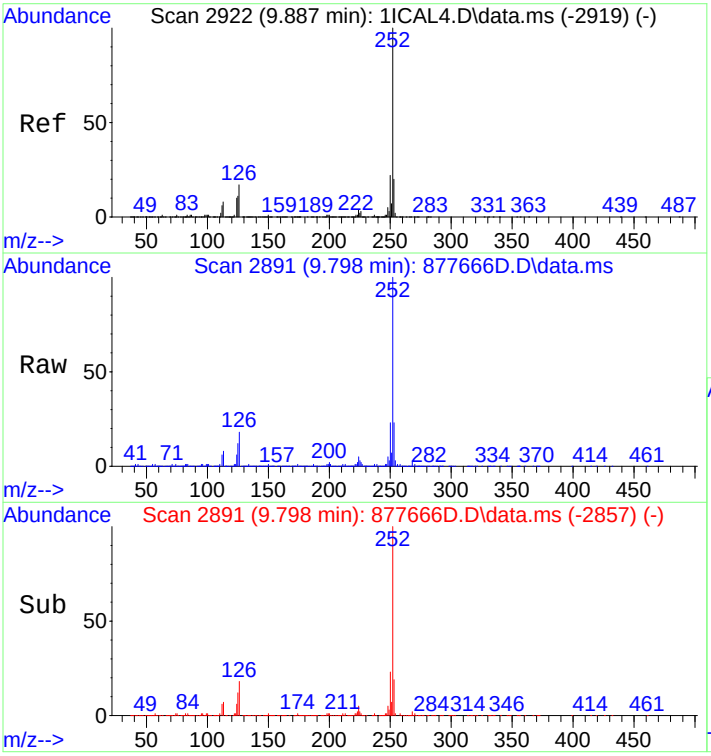
Tgt Ion:252	Resp:	728058	
Ion	Ratio	Lower	Upper
252	100		
253	22.0	0.0	52.0
125	12.8	0.0	47.1



RPN 12/27/10

RED 1/08/2011

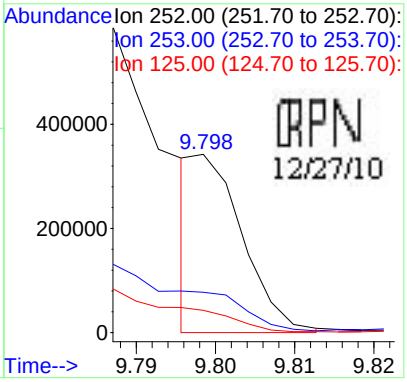
Before Manual Integration



#87
B[k]fluoranth
Concen: 5.30 ug/mL m
RT: 9.798 min Scan# 2891
Delta R.T. -0.003 min
Lab File: 877666D.D
Acq: 15 Dec 2010 15:51

Tgt Ion:252 Resp: 147023

Ion	Ratio	Lower	Upper
252	100		
253	22.7	0.0	52.0
125	12.5	0.0	47.1



RPN 12/27/10

RED 1/08/2011

After Manual Integration

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\877666 .D Vial: 33
Acq On : 15 Dec 2010 20:29 Operator: RPN
Sample : 72515,877666,1 Inst : SVMS1
Misc : 500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 28 10:31:11 2010

RPN 12/27/10

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	3.368	152	224559	20.00	ug/mL	0.00
21) Naphthalened8	4.894	136	809996	20.00	ug/mL	0.00
39) Acenaphthened10	6.789	164	587573	20.00	ug/mL	0.00
63) Phenanthrd10	7.758	188	953335	20.00	ug/mL	0.00
75) Chrysene-d12	9.190	240	506327	20.00	ug/mL	0.02
85) Perylene-d12	10.026	264	401688	20.00	ug/mL	0.02
System Monitoring Compounds						
4) SURR2Flphenol	2.365	112	250196	48.16	%REC	0.03
Spiked Amount 100.000	Range 20 - 110		Recovery = 48.16%			
7) SURRPhenol-d5	3.053	99	363836	60.50	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 60.50%			
22) SURRNitrbenzened5	3.976	82	145218	59.58	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 59.58%			
44) SURR2Flbiphenyl	6.272	172	541274	66.77	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 66.77%			
62) SURR246Tribrphenl	7.332	330	93011	53.30	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 53.30%			
78) SURRTerphenyl-d14	8.616	244	313048	83.03	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 83.03%			
Target Compounds						Qvalue
2) Ntrsdimeth	1.638	74	9726	1.2934	ug/mL#	17
3) Pyridine	1.936	79	4891	0.3677	ug/mL#	68
5) Aniline	3.044	93	1909	0.1135	ug/mL#	1
6) bis2Clethletr	3.090	93	3201	0.2798	ug/mL	49
17) Acetophenone	3.814	105	7246	0.4490	ug/mL#	66
18) Hexaclethane	3.897	117	667	0.1163	ug/mL#	12
20) 3&4Methylphenol	3.911	108	1499	0.1315	ug/mL#	56
23) Nitrobenzene	3.979	77	1490	0.1296	ug/mL#	51
30) Benzoic acid	4.712	105	2699	2.9081	ug/mL#	31
31) Naphthalene	4.925	128	96509	2.4350	ug/mL	94
36) 4Cl3methylphe	5.818	107	1028	0.5115	ug/mL#	51
37) 2Methylnaphth	5.880	141	110155	3.7362	ug/mL	91
38) 1Methylnaphth	5.980	141	114505	3.7712	ug/mL	100
45) 2Clnaphthalen	6.431	162	948	0.0269	ug/mL	95
46) 2Nitroaniline	6.485	65	1354	0.1664	ug/mL#	27
47) Acnaphthylene	6.679	152	145162	2.7048	ug/mL	98
48) Dimethylphtha	6.642	163	1818	0.0461	ug/mL#	53
50) Acenaphthene	6.815	153	670667	19.5040	ug/mL	97
51) 3Nitroaniline	6.940	138	5564	0.8412	ug/mL#	23
52) 24Dinitphenol	6.923	184	89	2.8989	ug/mL#	13
53) Dibenzofuran	6.940	168	319901	6.7479	ug/mL	91
54) 24Dinitrotolu	6.951	165	2757	0.2414	ug/mL#	43
55) 4-Nitrophenol	6.937	109	2967	0.9301	ug/mL	89
58) Fluorene	7.173	166	611935	15.8642	ug/mL	99
60) Diethylphthal	7.136	149	8683	0.2201	ug/mL	93
61) 4Nitroaniline	7.218	138	800	0.1227	ug/mL#	5
64) 46Dinit2mylph	7.423	198	1330	1.6850	ug/mL#	51
65) Ntrsdiphlam&Diphlam	7.261	169	21621	1.0304	ug/mL#	1
66) Azobenz&12Diphlhyd	7.281	182	159797	21.0298	ug/mL#	1
67) 4Brphlphlethr	7.468	248	506	0.0501	ug/mL#	1
70) Phenanthrene	7.787	178	6436718	133.3448	ug/mL	99
71) Anthracene	7.809	178	1558043	31.4572	ug/mL	96
72) Carbazole	7.909	167	960629	24.8765	ug/mL	99
73) Dinbtylphthal	8.125	149	37630	0.6585	ug/mL	61

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\877666 .D Vial: 33
Acq On : 15 Dec 2010 20:29 Operator: RPN
Sample : 72515,877666,1 Inst : SVMS1
Misc : 500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 28 10:31:11 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

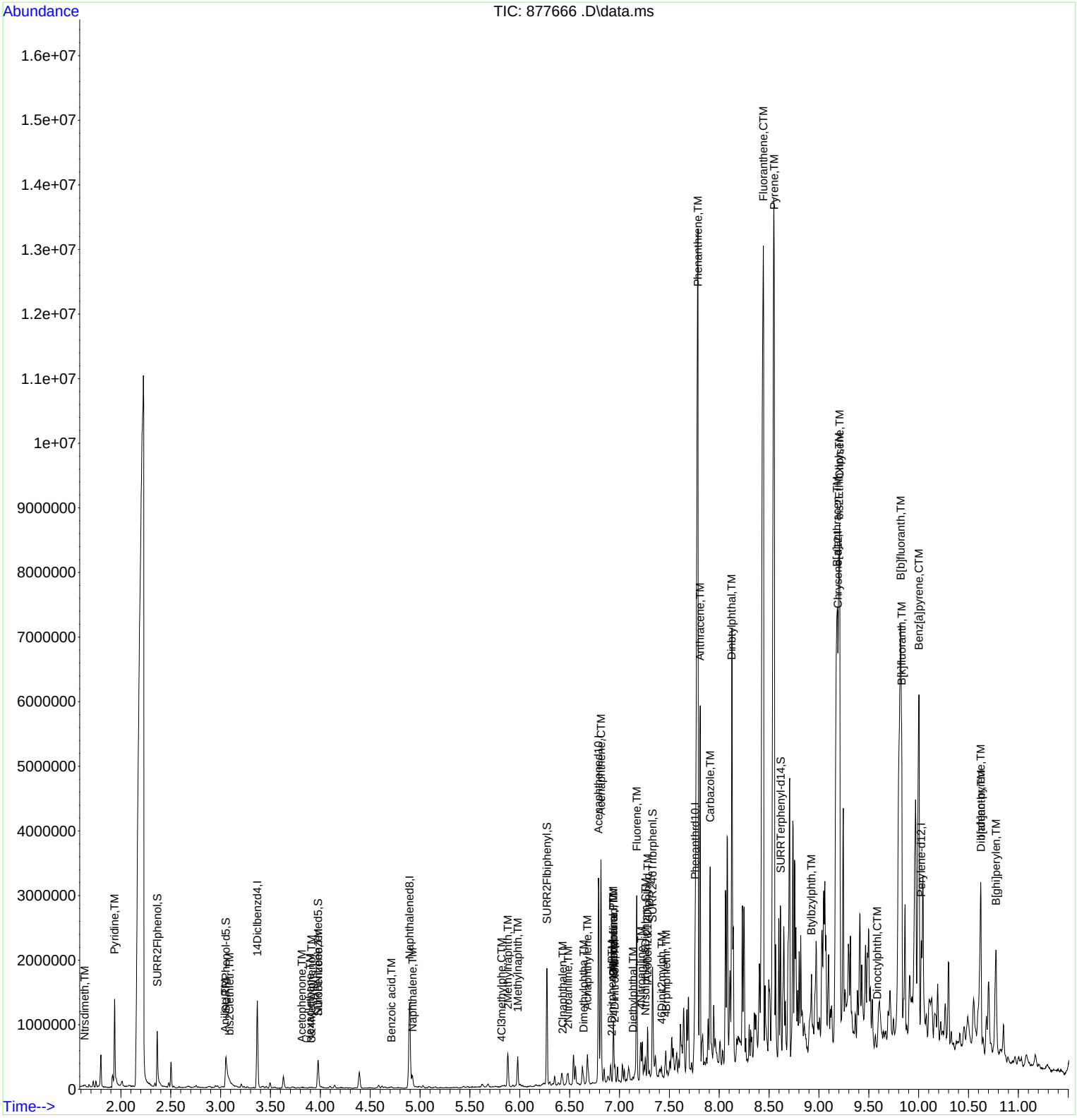
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
74) Fluoranthene	8.443	202	7838341	217.2625 ug/mL	88
76) Benzidine	8.489	184	3553	Below Cal	54
77) Pyrene	8.551	202	6344284	185.5386 ug/mL	90
79) Btylbzylphth	8.923	149	1108	0.0739 ug/mL	72
80) 33Diclbnzidin	9.153	252	787	Below Cal	73
81) B[a]anthracen	9.182	228	4069630	137.3465 ug/mL	94
82) Chrysene	9.207	228	2742858	99.1151 ug/mL	97
83) bis2Ethlhxlph	9.202	149	25686	1.2451 ug/mL	84
84) Dinoctylphthl	9.585	149	3186	0.0840 ug/mL	74
86) B[b]fluoranth	9.821	252	4288263	171.8959 ug/mL	94
87) B[k]fluoranth	9.830	252	756376m	35.9932 ug/mL	
88) Benz[a]pyrene	10.003	252	2314100	100.4490 ug/mL	90
89) Indeno-pyrene	10.622	276	904280	39.7602 ug/mL	77
90) Dib[ah]anthr	10.625	278	288561	16.2351 ug/mL	91
91) B[ghi]perylen	10.776	276	712017	35.9582 ug/mL	88

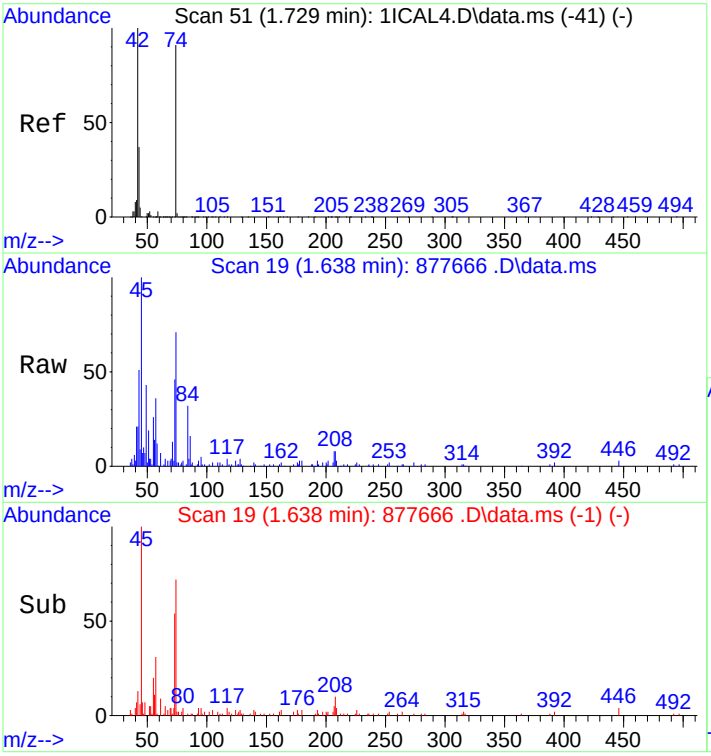
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\877666 .D Vial: 33
Acq On : 15 Dec 2010 20:29 Operator: RPN
Sample : 72515,877666,1 Inst : SVMS1
Misc : 500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 28 10:31:11 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

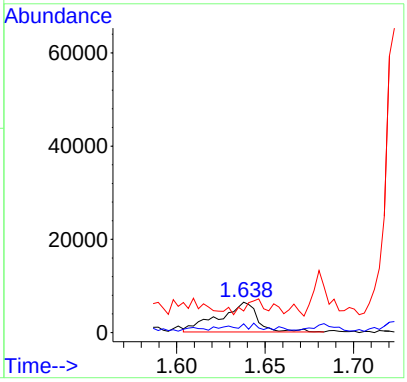


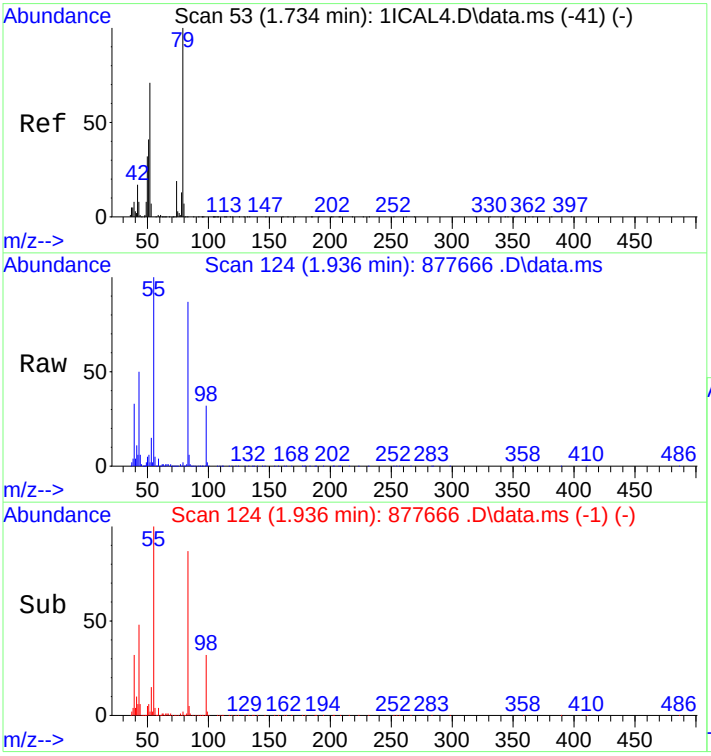


#2
Ntrsdimeth
Concen: 1.29 ug/mL
RT: 1.638 min Scan# 19
Delta R.T. -0.017 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion: 74 Resp: 9726

Ion	Ratio	Lower	Upper
74	100		
42	18.4	81.1	141.1#
43	0.0	20.5	80.5#

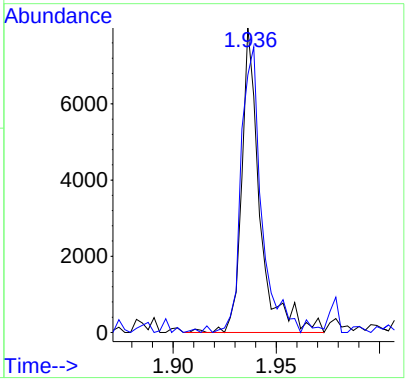


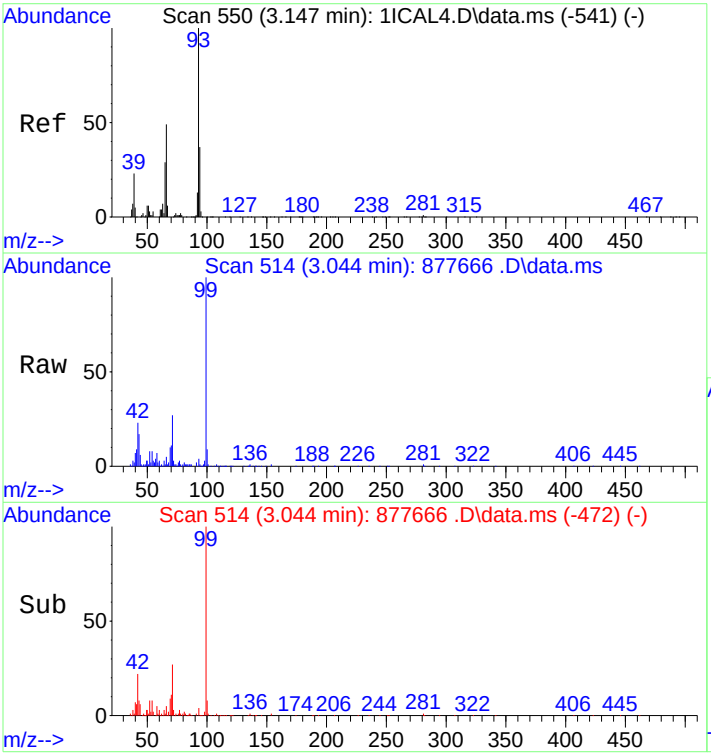


#3
Pyridine
Concen: 0.37 ug/mL
RT: 1.936 min Scan# 124
Delta R.T. 0.273 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion: 79 Resp: 4891

Ion	Ratio	Lower	Upper
79	100		
52	84.5	90.3	150.3#

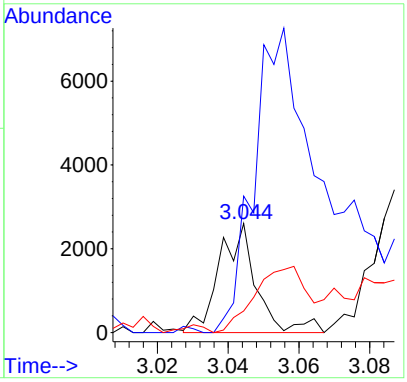


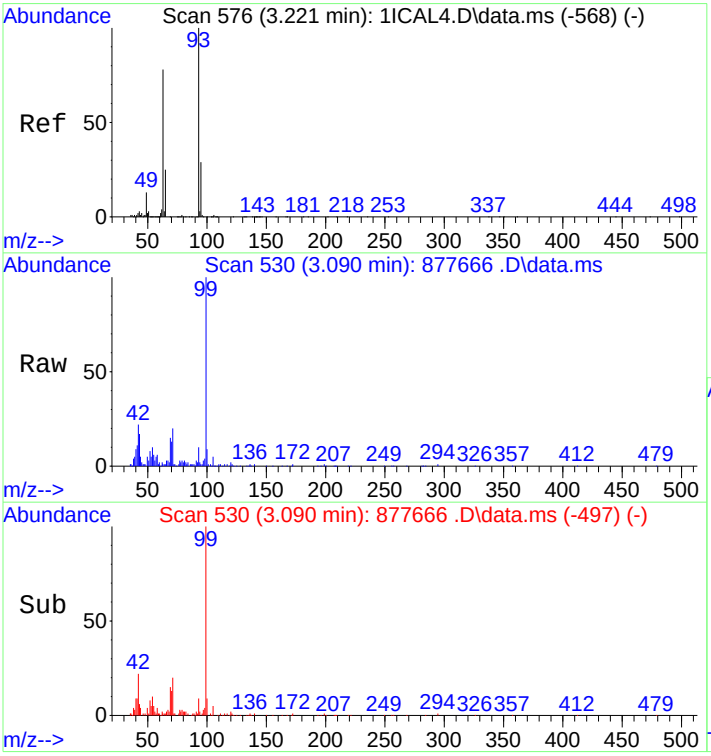


#5
Aniline
Concen: 0.11 ug/mL
RT: 3.044 min Scan# 514
Delta R.T. 0.005 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion: 93 Resp: 1909

Ion	Ratio	Lower	Upper
93	100		
66	569.9	4.4	64.4#
65	0.0	0.0	48.0

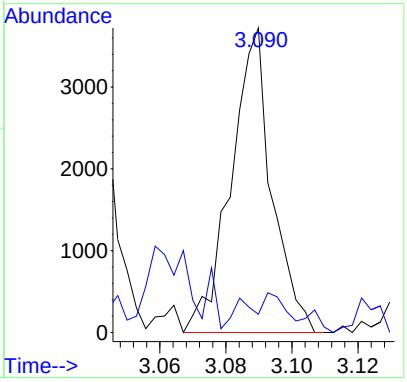


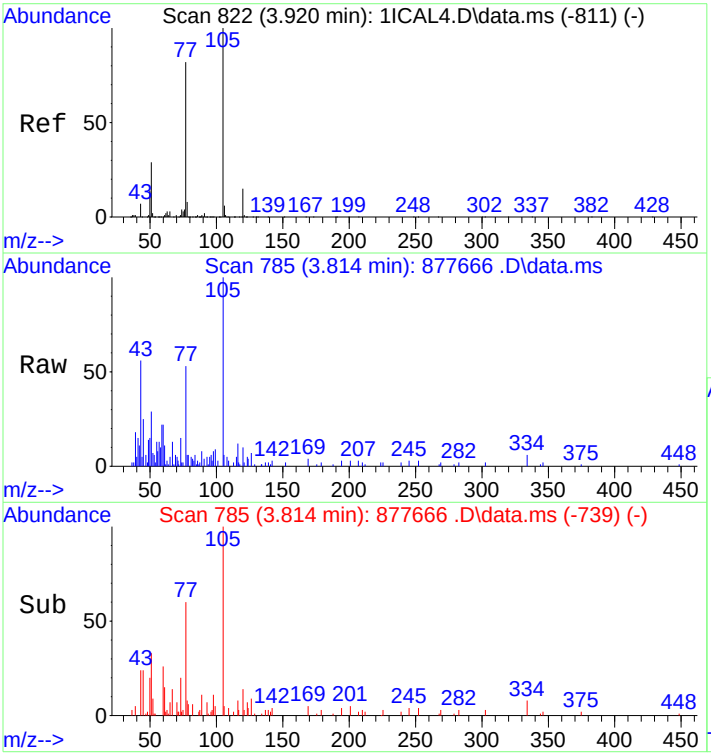


#6
bis2Clethletr
Concen: 0.28 ug/mL
RT: 3.090 min Scan# 530
Delta R.T. -0.020 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion: 93 Resp: 3201

Ion	Ratio	Lower	Upper
93	100		
95	4.2	2.8	62.8

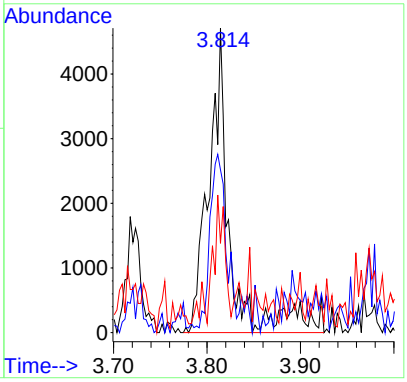


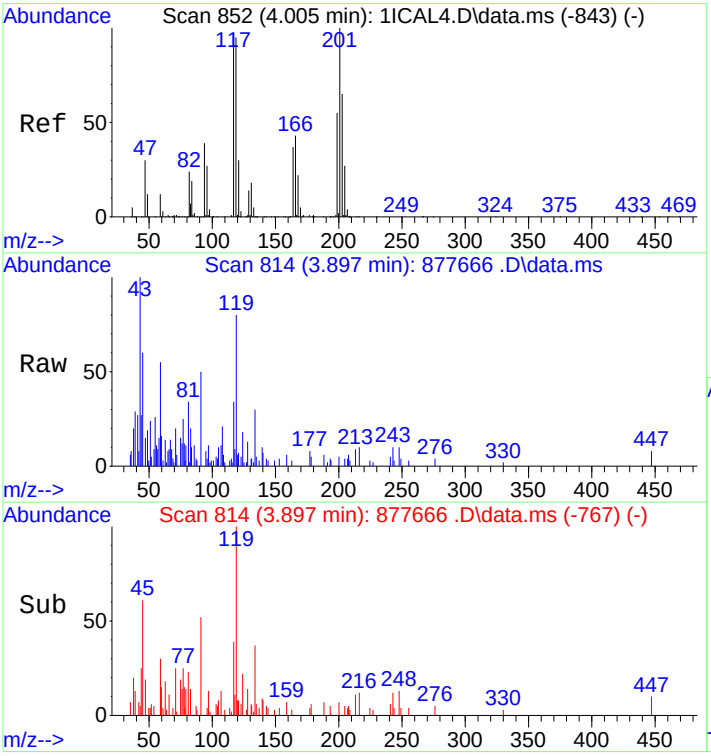


#17
Acetophenone
Concen: 0.45 ug/mL
RT: 3.814 min Scan# 785
Delta R.T. 0.017 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:105 Resp: 7246

Ion	Ratio	Lower	Upper
105	100		
77	42.1	42.6	102.6#
51	23.5	13.0	73.0

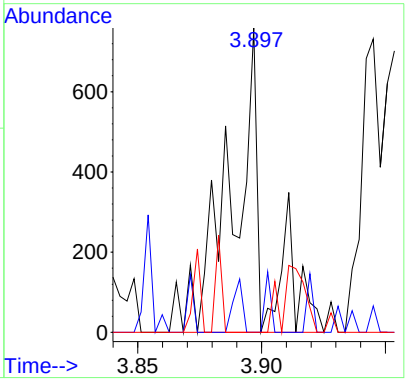


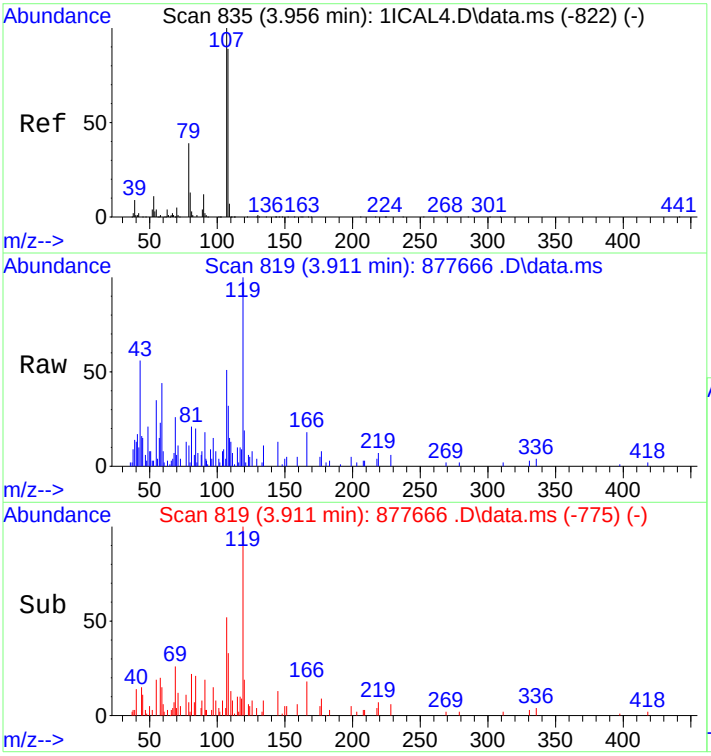


#18
Hexaclethane
Concen: 0.12 ug/mL
RT: 3.897 min Scan# 814
Delta R.T. 0.020 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:117 Resp: 667

Ion	Ratio	Lower	Upper
117	100		
201	0.0	56.2	116.2#
199	0.0	28.9	88.9#

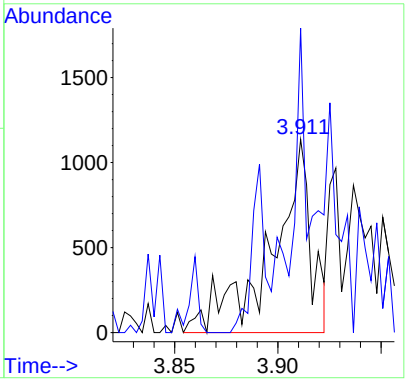


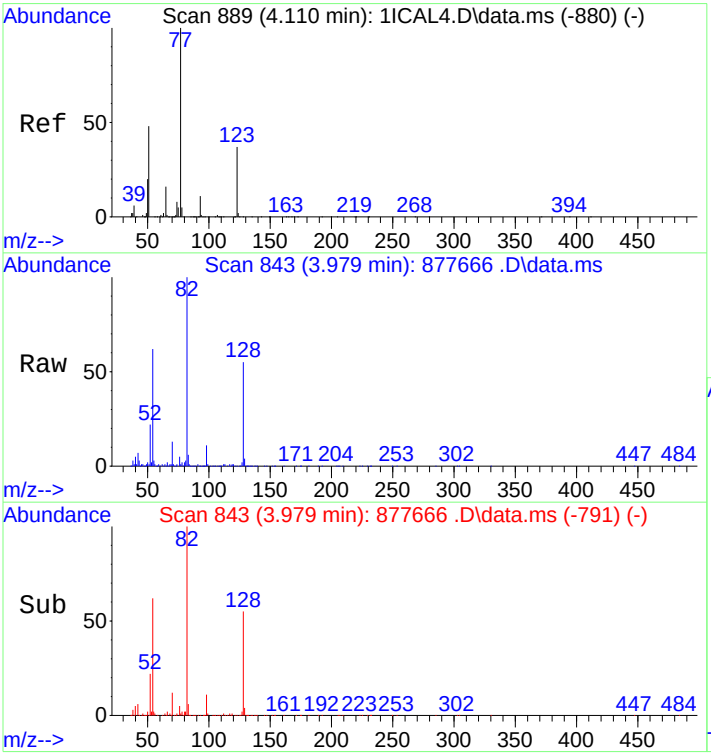


#20
3&4Methylphenol
Concen: 0.13 ug/mL
RT: 3.911 min Scan# 819
Delta R.T. 0.074 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:108 Resp: 1499

Ion	Ratio	Lower	Upper
108	100		
107	153.7	77.7	137.7#

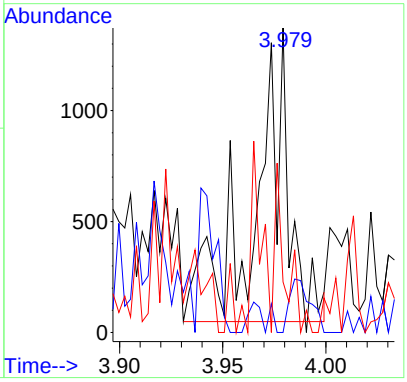


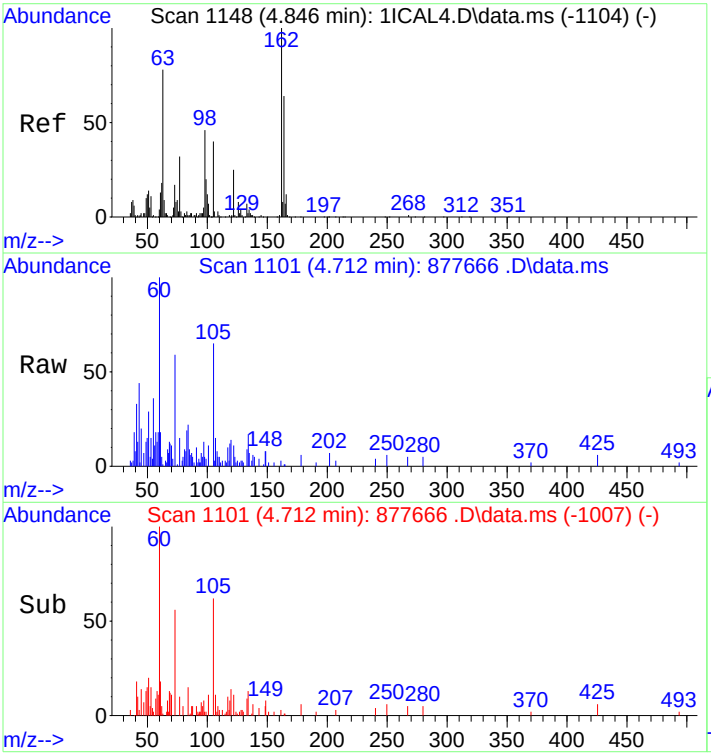


#23
Nitrobenzene
Concen: 0.13 ug/mL
RT: 3.979 min Scan# 843
Delta R.T. -0.003 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion: 77 Resp: 1490

Ion	Ratio	Lower	Upper
77	100		
123	0.0	6.0	66.0#
65	7.0	0.0	43.9

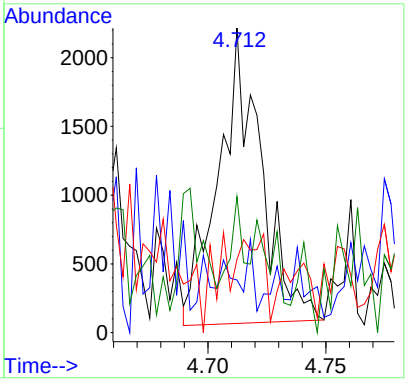


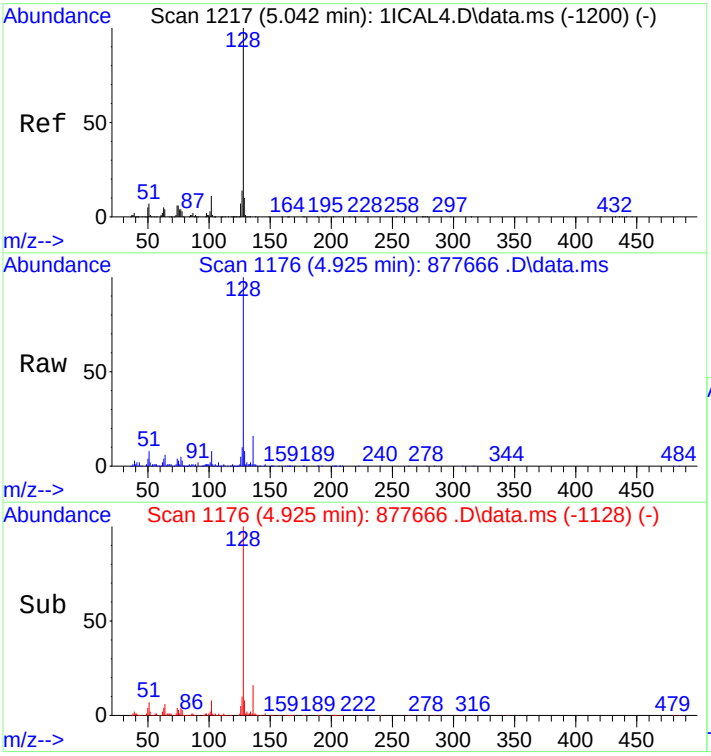


#30
Benzoic acid
Concen: 2.91 ug/mL
RT: 4.712 min Scan# 1101
Delta R.T. -0.009 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:105 Resp: 2699

Ion	Ratio	Lower	Upper
105	100		
122	12.8	63.7	123.7#
77	3.7	18.9	78.9#
51	22.3	23.7	83.7#

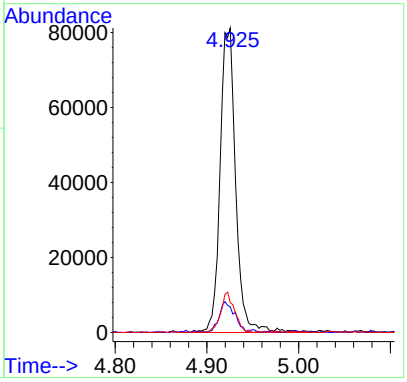


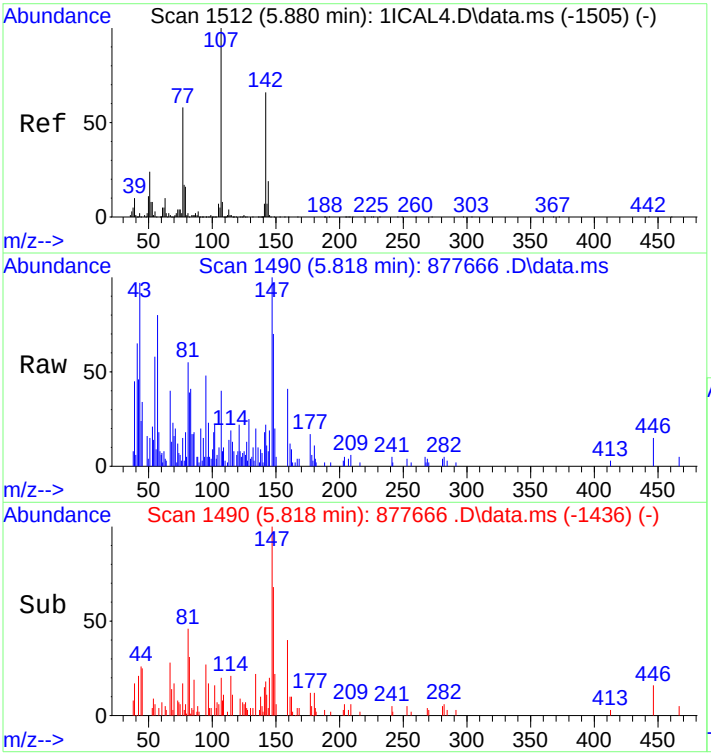


#31
Naphthalene
Concen: 2.43 ug/mL
RT: 4.925 min Scan# 1176
Delta R.T. 0.023 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:128 Resp: 96509

Ion	Ratio	Lower	Upper
128	100		
129	8.4	0.0	40.8
127	9.8	0.0	42.4

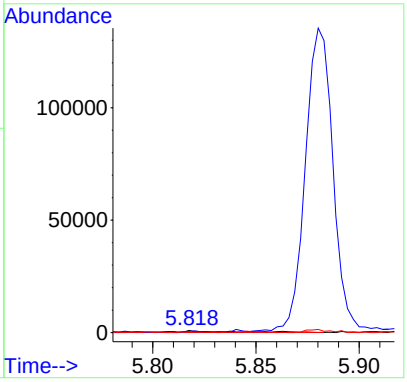


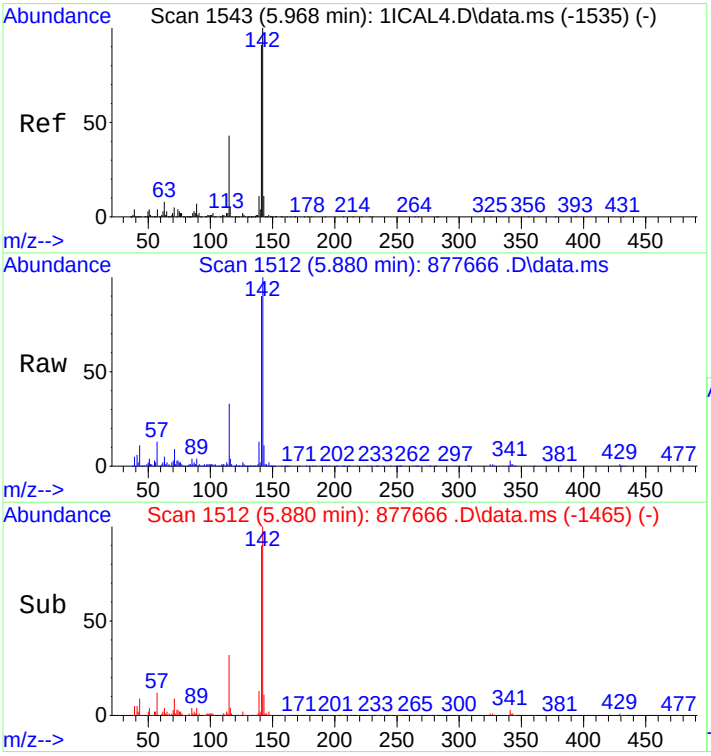


#36
4Cl3methylphe
Concen: 0.51 ug/mL
RT: 5.818 min Scan# 1490
Delta R.T. 0.040 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:107 Resp: 1028

Ion	Ratio	Lower	Upper
107	100		
142	40.9	50.0	110.0#
144	0.0	4.4	64.4#

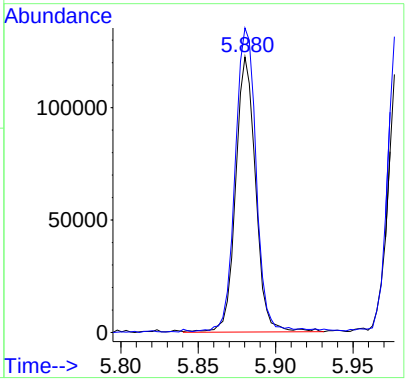


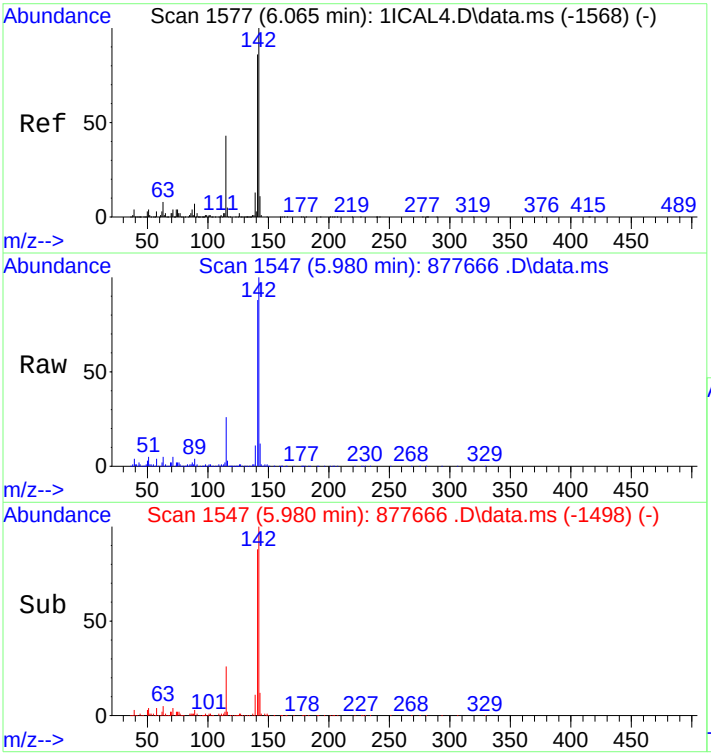


#37
2Methylnaphth
Concen: 3.74 ug/mL
RT: 5.880 min Scan# 1512
Delta R.T. 0.020 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:141 Resp: 110155

Ion	Ratio	Lower	Upper
141	100		
142	109.7	89.1	149.1

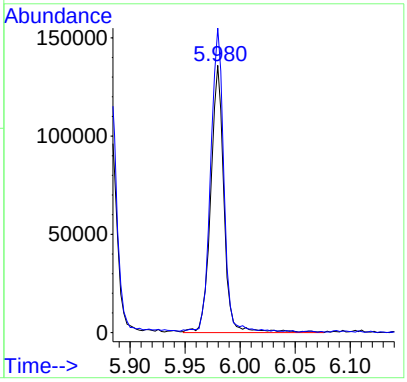


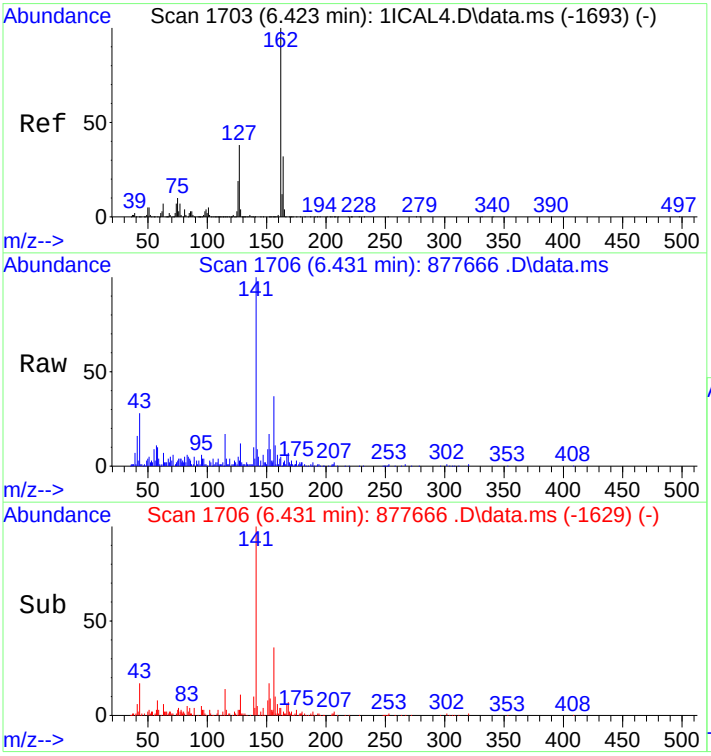


#38
1Methylnaphth
Concen: 3.77 ug/mL
RT: 5.980 min Scan# 1547
Delta R.T. 0.020 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:141 Resp: 114505

Ion	Ratio	Lower	Upper
141	100		
142	113.8	83.6	143.6

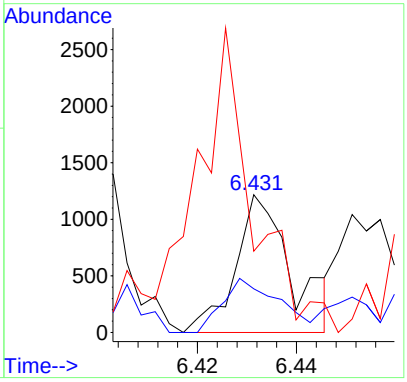


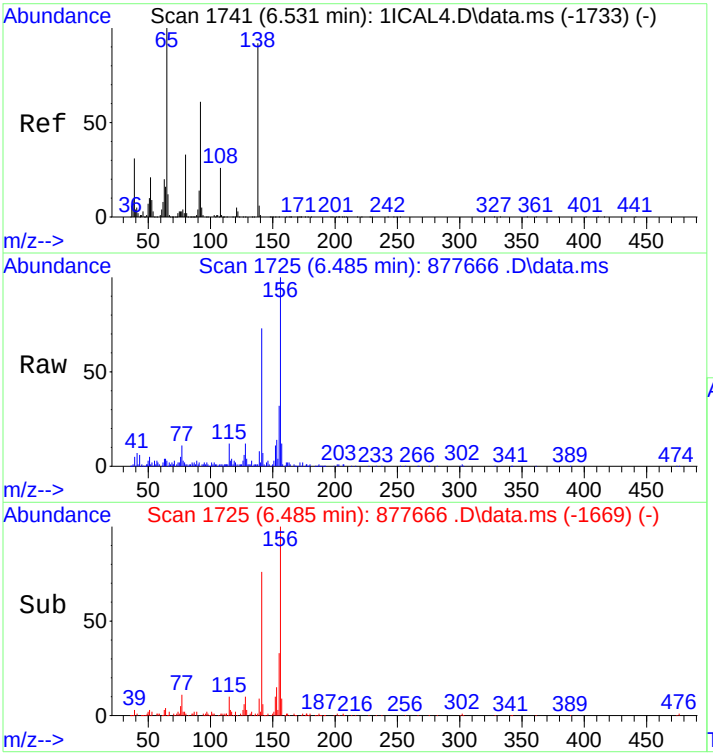


#45
2Clnaphthalen
Concen: 0.03 ug/mL
RT: 6.431 min Scan# 1706
Delta R.T. 0.105 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:162 Resp: 948

Ion	Ratio	Lower	Upper
162	100		
164	31.7	2.4	62.4
127	37.4	2.5	62.5

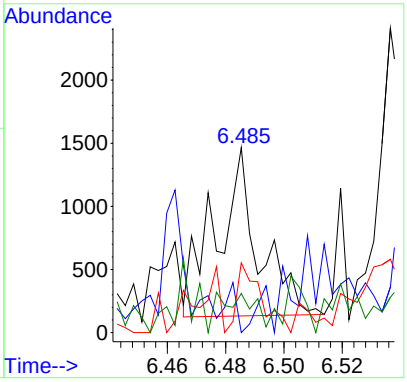


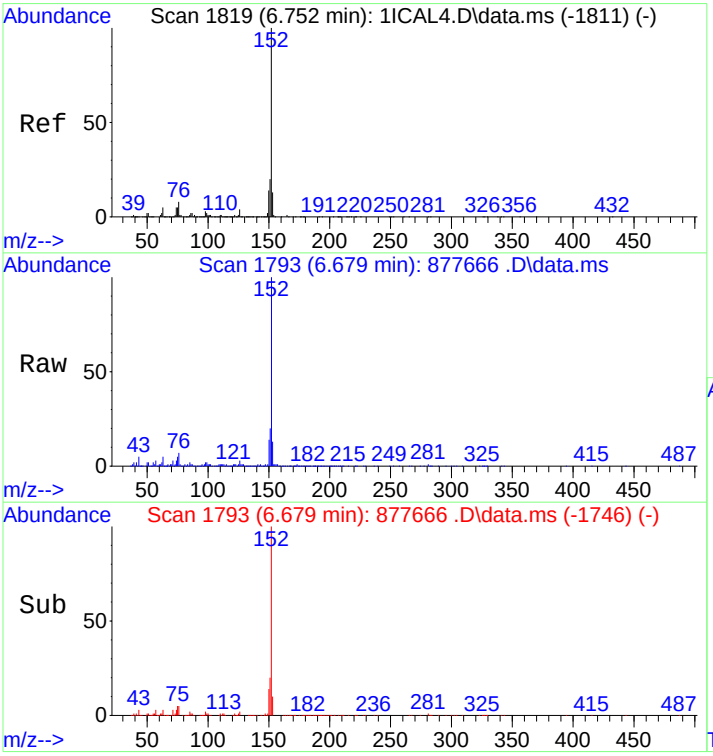


#46
2Nitroaniline
Concen: 0.17 ug/mL
RT: 6.485 min Scan# 1725
Delta R.T. 0.045 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion: 65 Resp: 1354

Ion	Ratio	Lower	Upper
65	100		
92	0.0	39.9	99.9#
138	33.2	78.4	138.4#
80	3.1	0.0	55.4

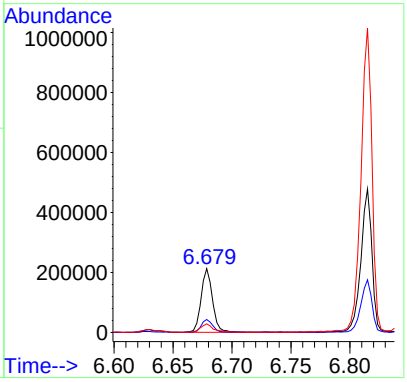


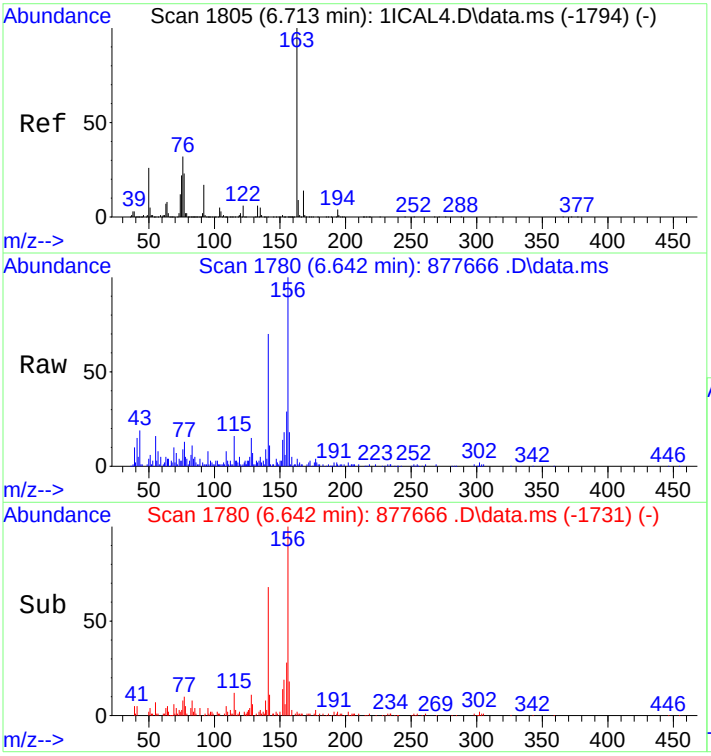


#47
Acnaphthylene
Concen: 2.70 ug/mL
RT: 6.679 min Scan# 1793
Delta R.T. 0.020 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:152 Resp: 145162

Ion	Ratio	Lower	Upper
152	100		
151	20.1	0.0	48.9
153	13.2	0.0	43.2

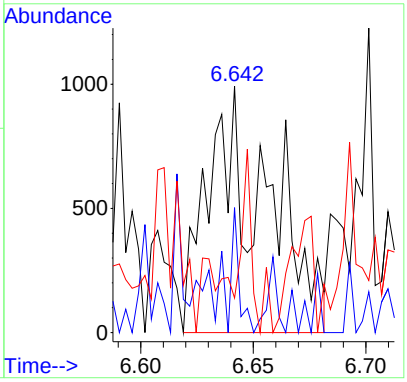


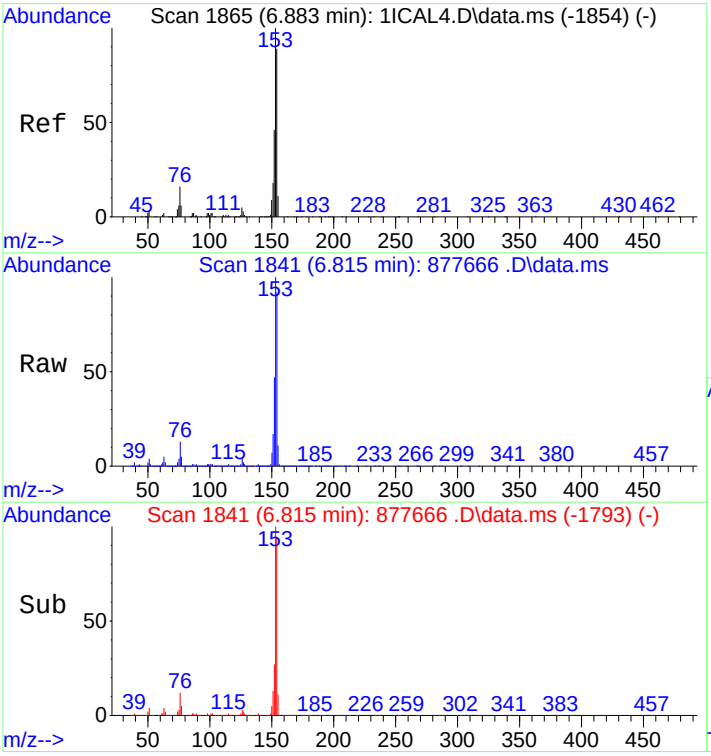


#48
Dimethylphtha
Concen: 0.05 ug/mL
RT: 6.642 min Scan# 1780
Delta R.T. 0.020 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:163 Resp: 1818

Ion	Ratio	Lower	Upper
163	100		
194	37.7	0.0	33.5#
164	0.0	0.0	40.0

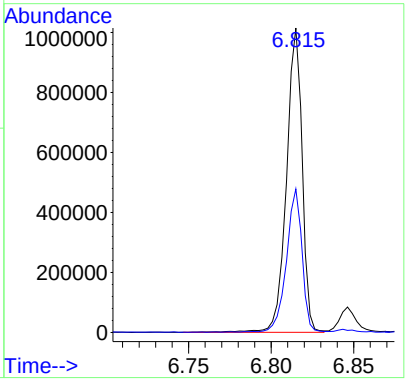


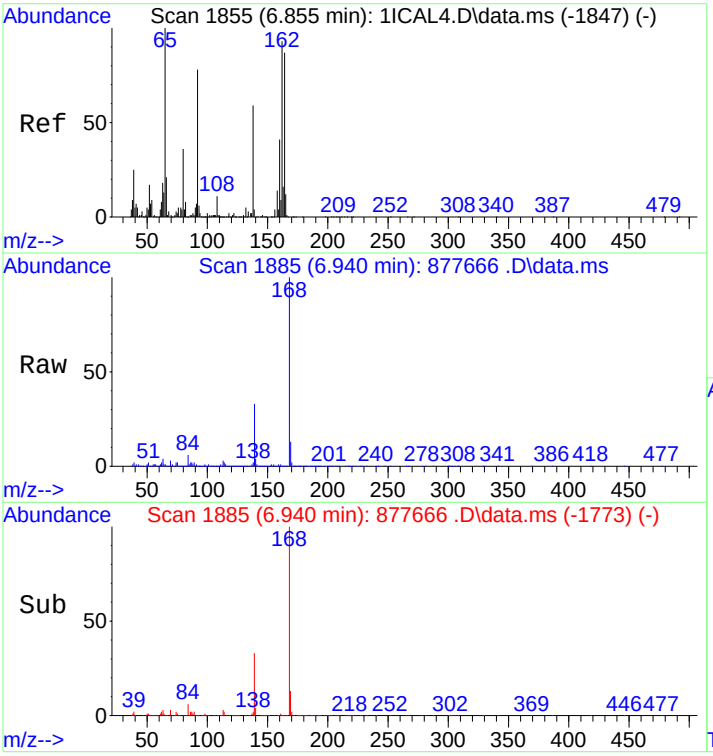


#50
Acenaphthene
Concen: 19.50 ug/mL
RT: 6.815 min Scan# 1841
Delta R.T. 0.023 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:153 Resp: 670667

Ion	Ratio	Lower	Upper
153	100		
152	47.1	15.3	75.3

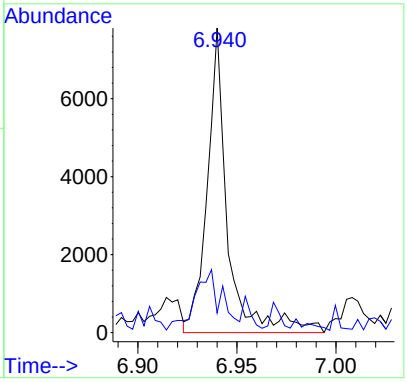


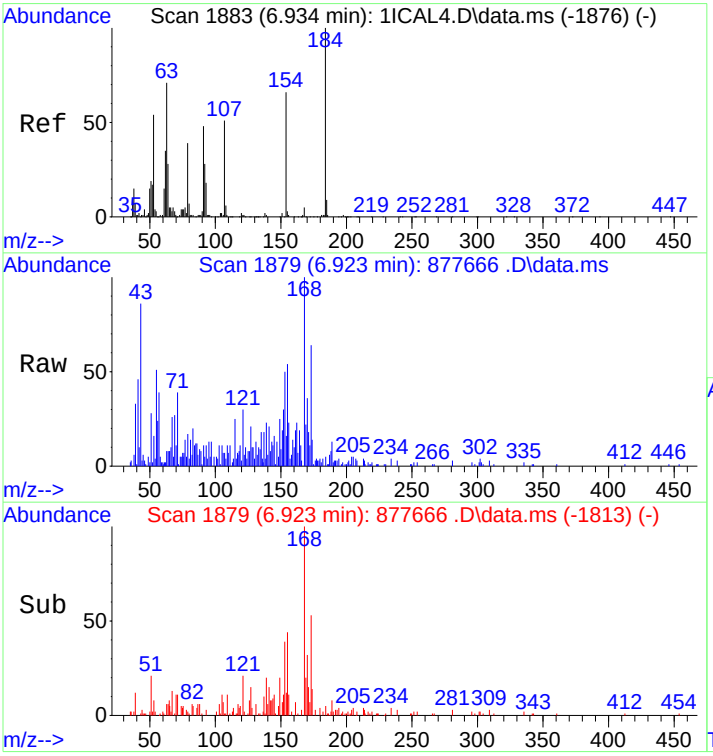


#51
3Nitroaniline
Concen: 0.84 ug/mL
RT: 6.940 min Scan# 1885
Delta R.T. 0.173 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:138 Resp: 5564

Ion	Ratio	Lower	Upper
138	100		
92	11.4	49.6	109.6#

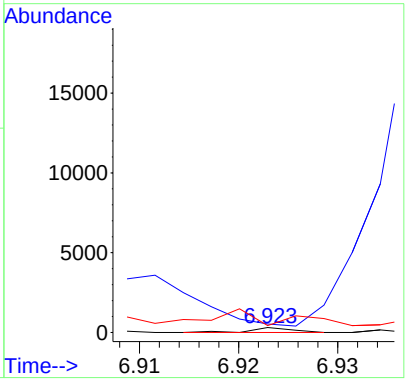


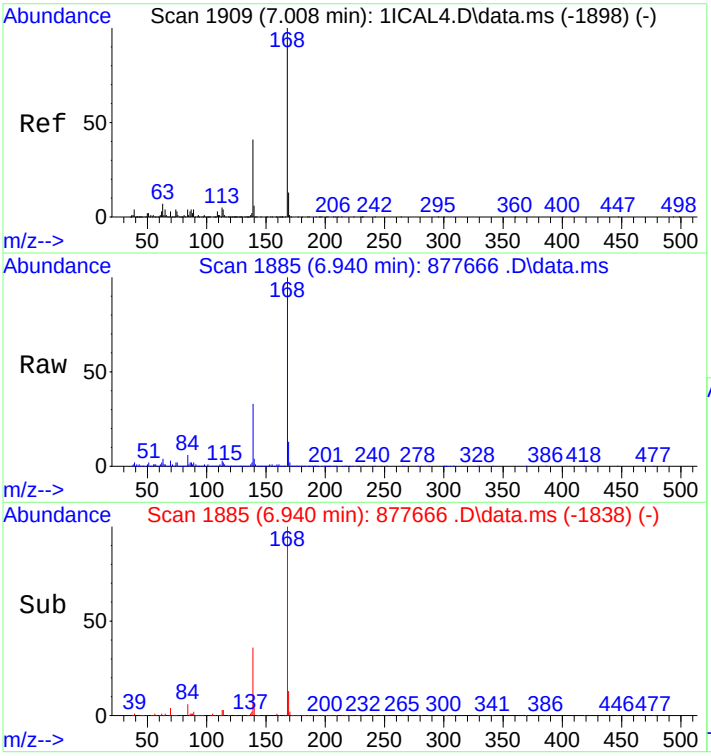


#52
24Dinitphenol
Concen: 2.90 ug/mL
RT: 6.923 min Scan# 1879
Delta R.T. 0.074 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:184 Resp: 89

Ion	Ratio	Lower	Upper
184	100		
63	0.0	63.0	123.0#
107	0.0	0.0	59.2

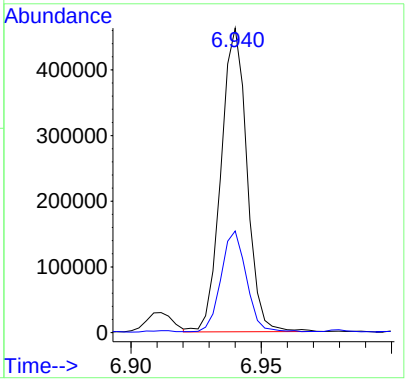


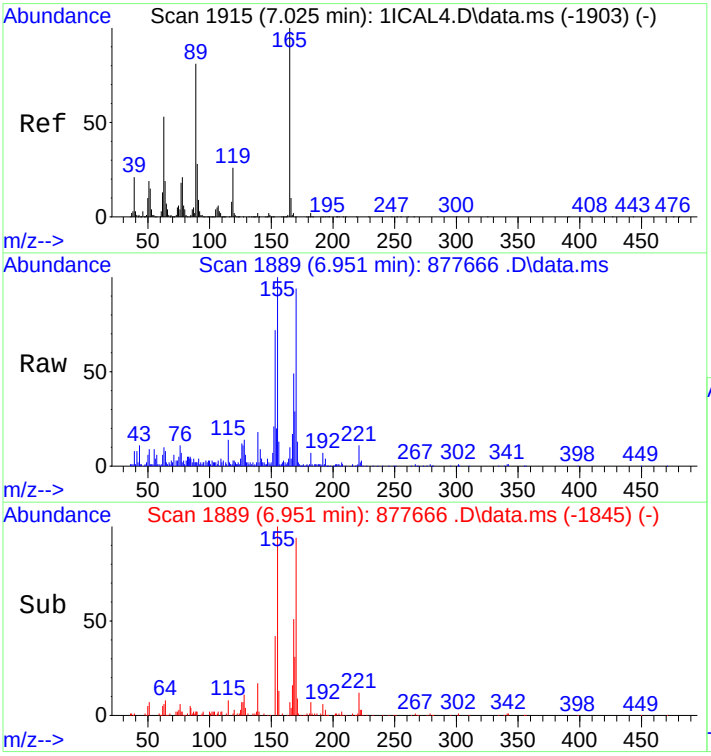


#53
Dibenzofuran
Concen: 6.75 ug/mL
RT: 6.940 min Scan# 1885
Delta R.T. 0.020 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:168 Resp: 319901

Ion	Ratio	Lower	Upper
168	100		
139	33.2	0.0	58.6

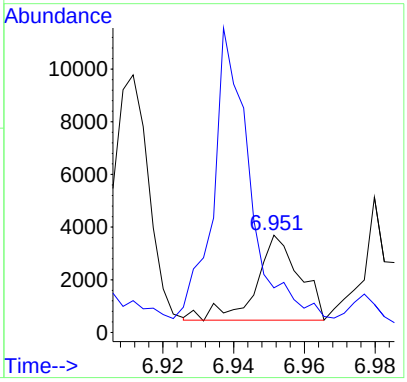


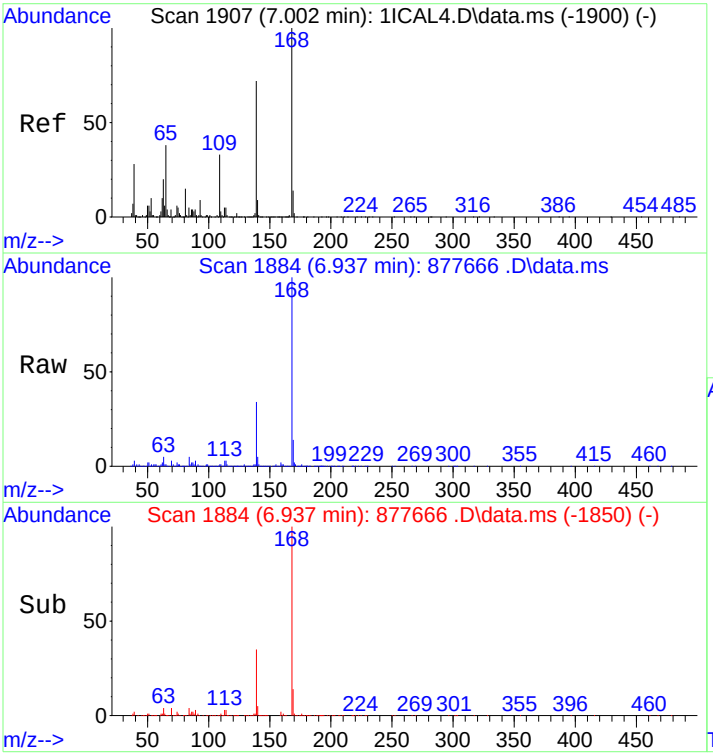


#54
24Dinitrotolu
Concen: 0.24 ug/mL
RT: 6.951 min Scan# 1889
Delta R.T. 0.011 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:165 Resp: 2757

Ion	Ratio	Lower	Upper
165	100		
89	30.1	50.0	110.0#

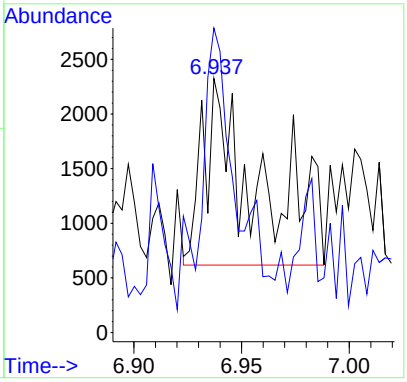


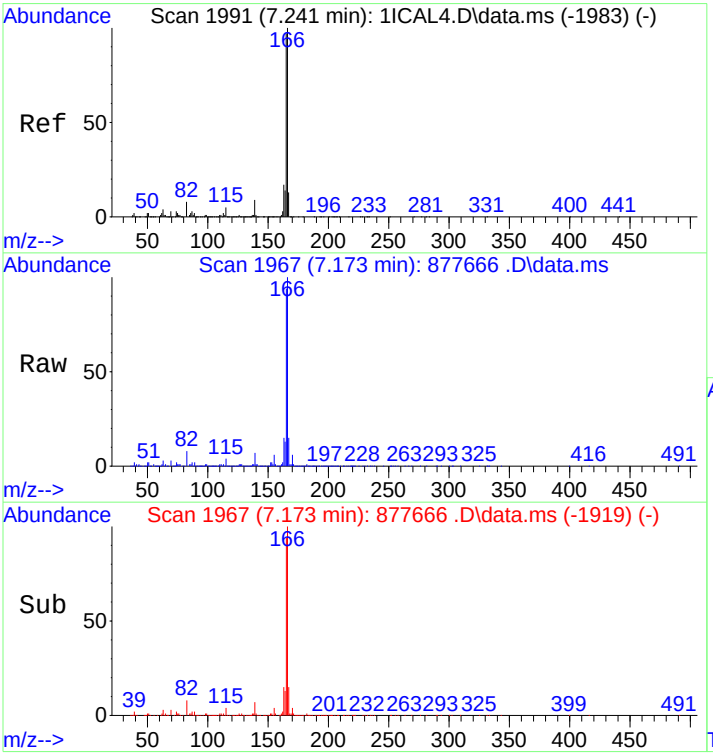


#55
4-Nitrophenol
Concen: 0.93 ug/mL
RT: 6.937 min Scan# 1884
Delta R.T. 0.017 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:109 Resp: 2967

Ion	Ratio	Lower	Upper
109	100		
65	133.8	117.5	177.5

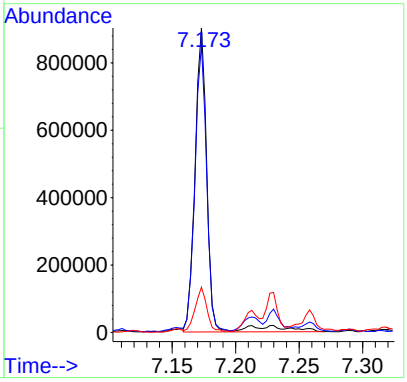


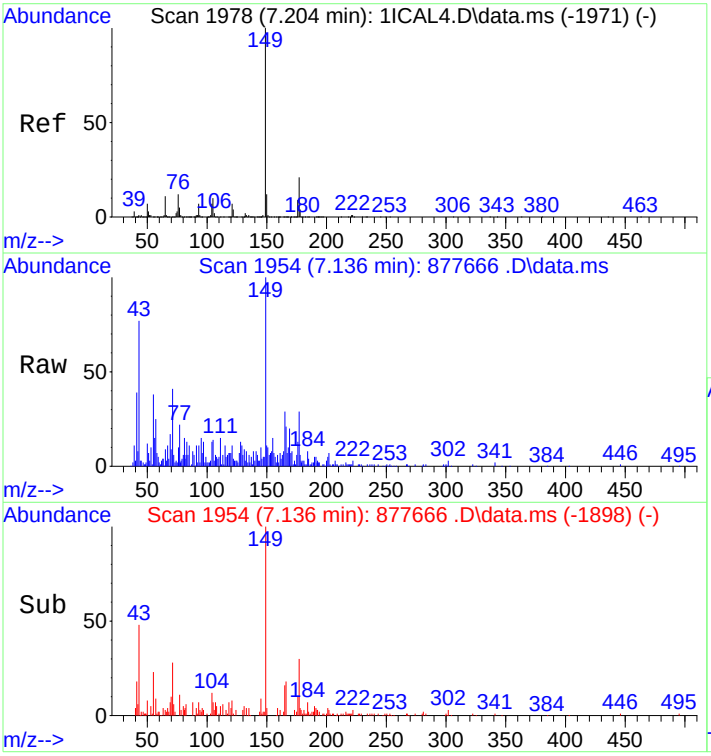


#58
Fluorene
Concen: 15.86 ug/mL
RT: 7.173 min Scan# 1967
Delta R.T. 0.023 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:166 Resp: 611935

Ion	Ratio	Lower	Upper
166	100		
165	94.1	64.4	124.4
167	14.3	0.0	43.1

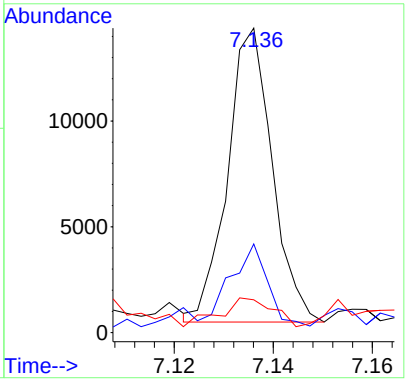


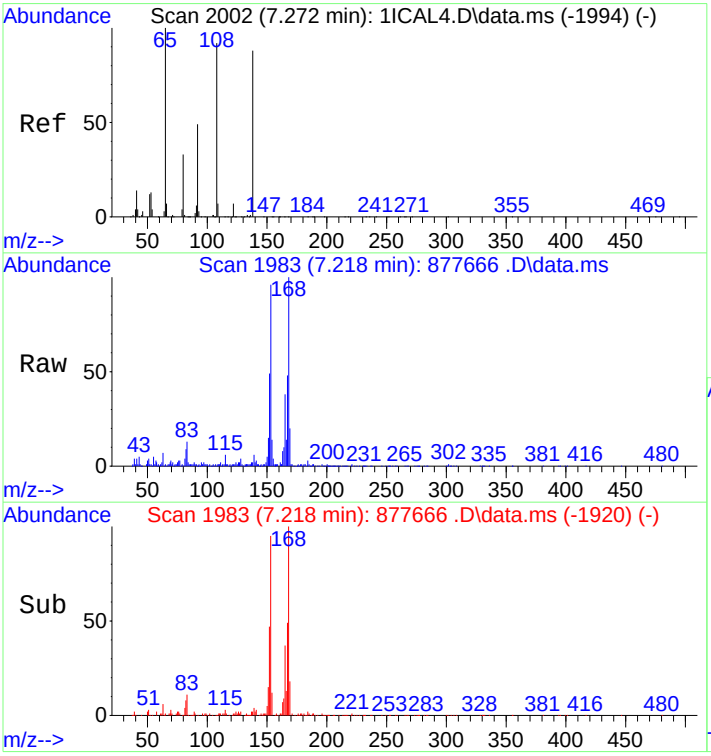


#60
Diethylphthal
Concen: 0.22 ug/mL
RT: 7.136 min Scan# 1954
Delta R.T. 0.014 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:149 Resp: 8683

Ion	Ratio	Lower	Upper
149	100		
177	24.4	0.0	50.8
150	9.2	0.0	41.2

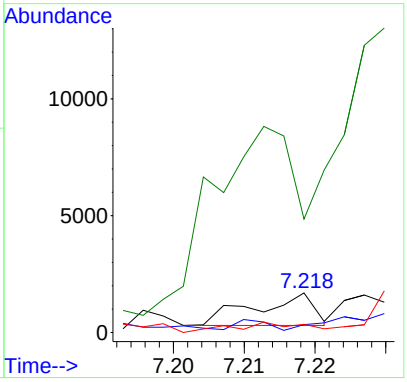


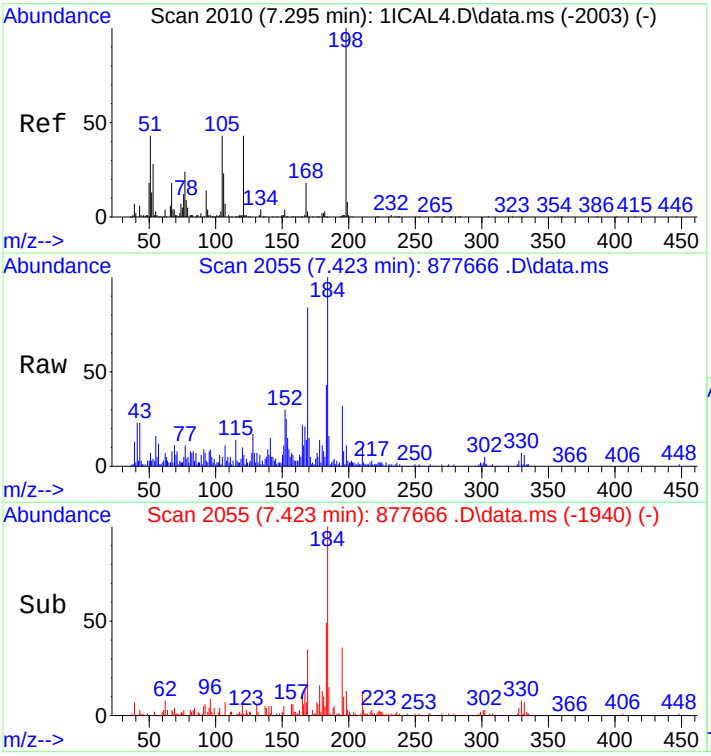


#61
4Nitroaniline
Concen: 0.12 ug/mL
RT: 7.218 min Scan# 1983
Delta R.T. 0.034 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:138 Resp: 800

Ion	Ratio	Lower	Upper
138	100		
92	4.1	13.2	73.2#
108	24.9	40.3	100.3#
139	206.6	0.0	39.9#

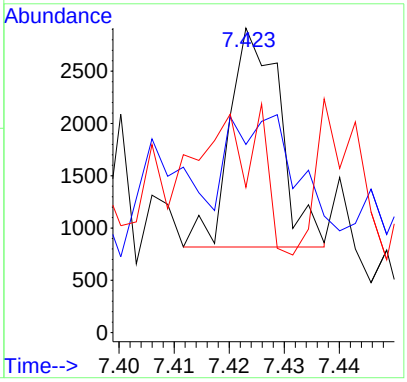


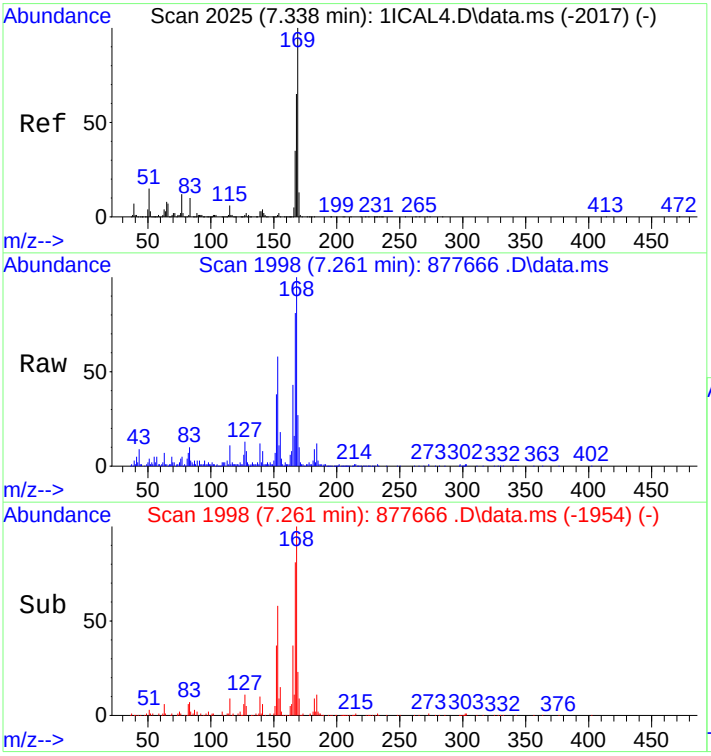


#64
46Dinit2mylph
Concen: 1.69 ug/mL
RT: 7.423 min Scan# 2055
Delta R.T. 0.213 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:198 Resp: 1330

Ion	Ratio	Lower	Upper
198	100		
51	32.7	33.4	93.4#
105	0.0	8.5	68.5#

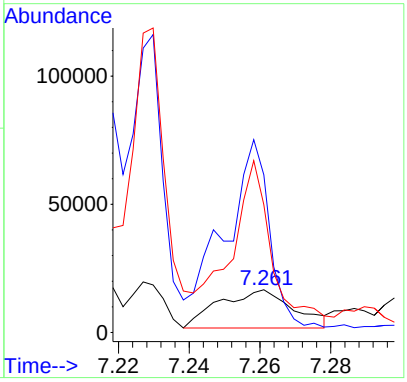


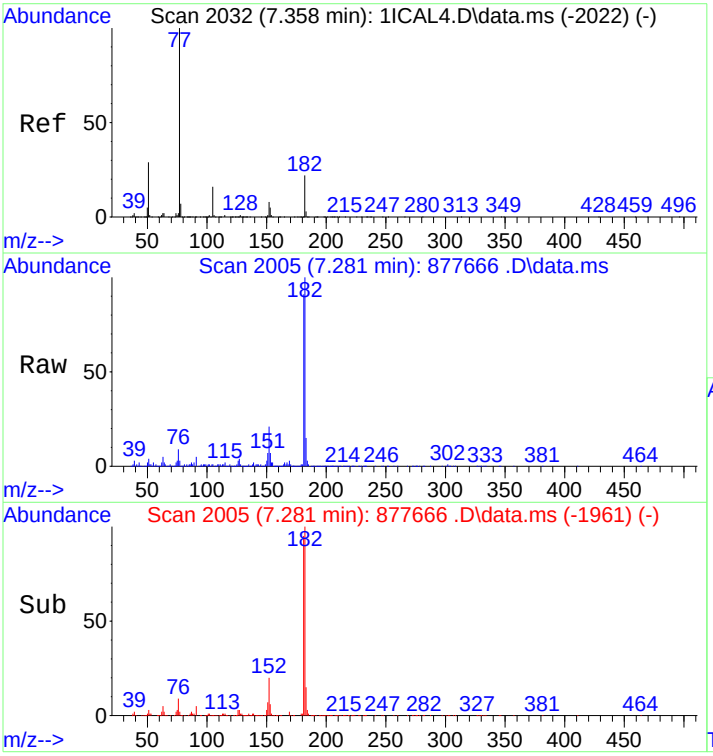


#65
Ntrsdiphlam&Diphlam
Concen: 1.03 ug/mL
RT: 7.261 min Scan# 1998
Delta R.T. 0.011 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:169 Resp: 21621

Ion	Ratio	Lower	Upper
169	100		
168	397.5	32.3	92.3#
167	290.6	4.4	64.4#

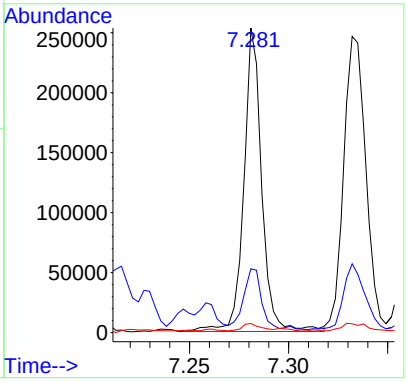


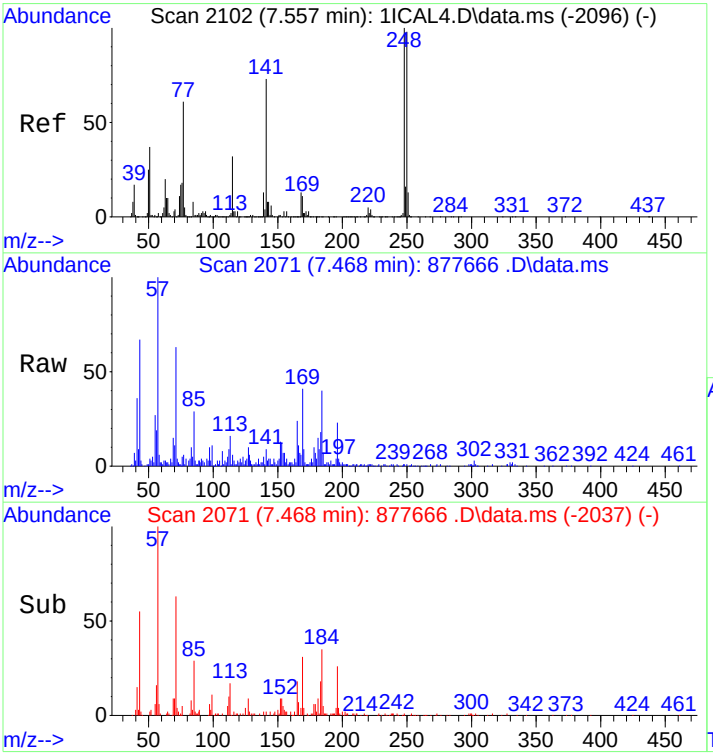


#66
Azobenz&12Diphlhyd
Concen: 21.03 ug/mL
RT: 7.281 min Scan# 2005
Delta R.T. 0.011 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:182 Resp: 159797

Ion	Ratio	Lower	Upper
182	100		
152	19.7	2.4	62.4
77	2.5	390.0	450.0#

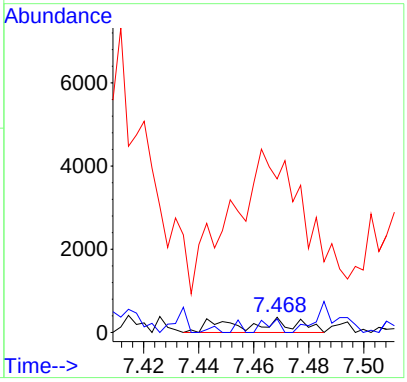


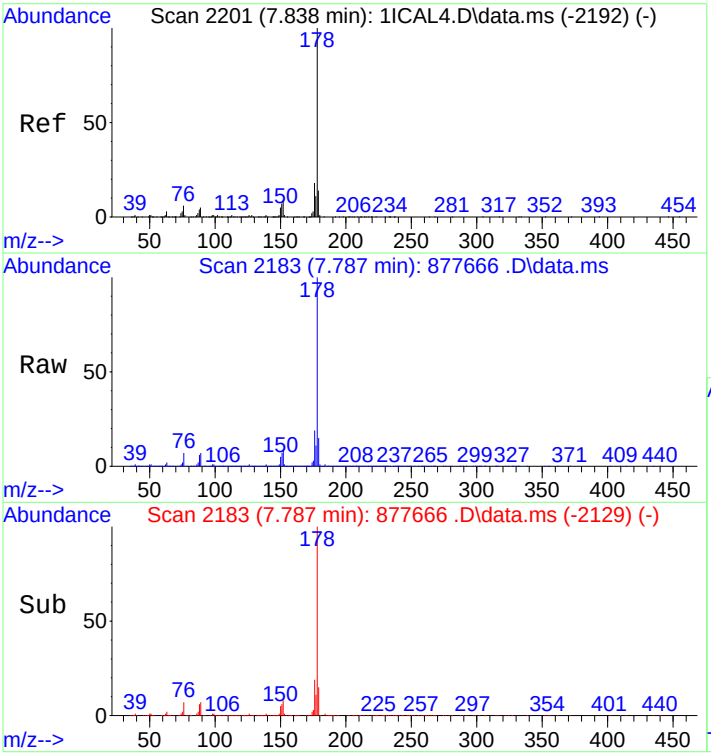


#67
4Brphlphlethr
Concen: 0.05 ug/mL
RT: 7.468 min Scan# 2071
Delta R.T. -0.003 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:248 Resp: 506

Ion	Ratio	Lower	Upper
248	100		
250	0.0	69.0	129.0#
141	546.7	66.0	126.0#

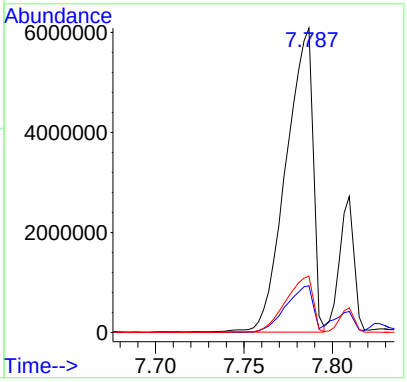


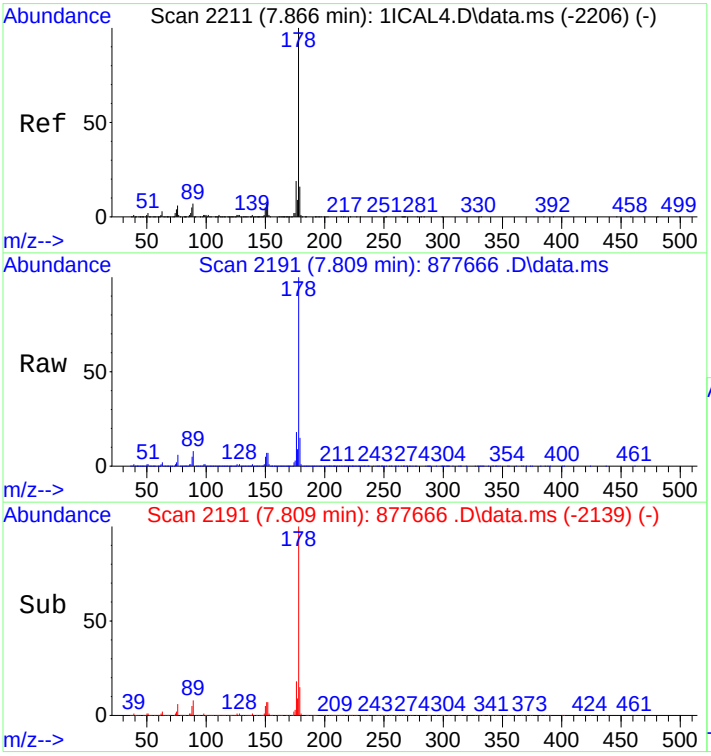


#70
Phenanthrene
Concen: 133.34 ug/mL
RT: 7.787 min Scan# 2183
Delta R.T. 0.040 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:178 Resp: 6436718

Ion	Ratio	Lower	Upper
178	100		
179	15.4	0.0	45.5
176	18.5	0.0	48.2

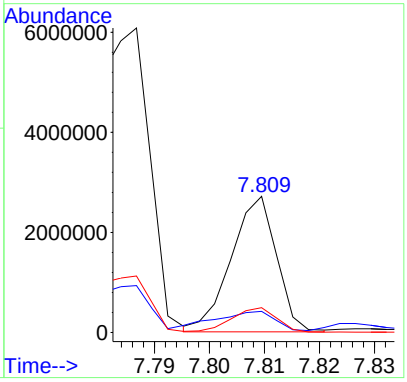


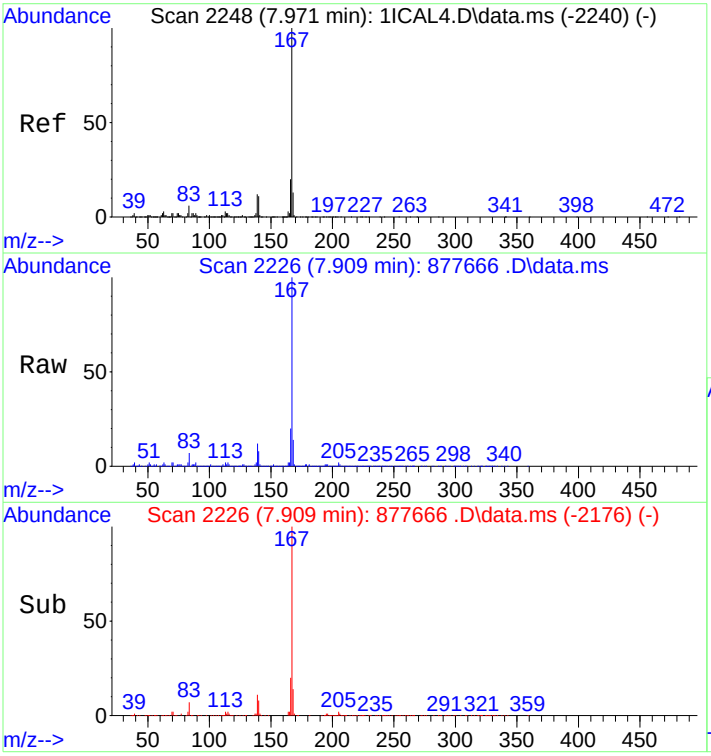


#71
Anthracene
Concen: 31.46 ug/mL
RT: 7.809 min Scan# 2191
Delta R.T. 0.034 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:178 Resp: 1558043

Ion	Ratio	Lower	Upper
178	100		
179	12.1	0.0	45.3
176	18.3	0.0	48.0

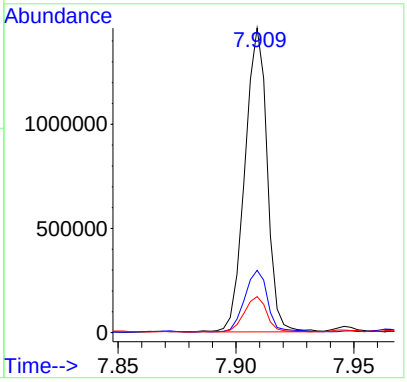


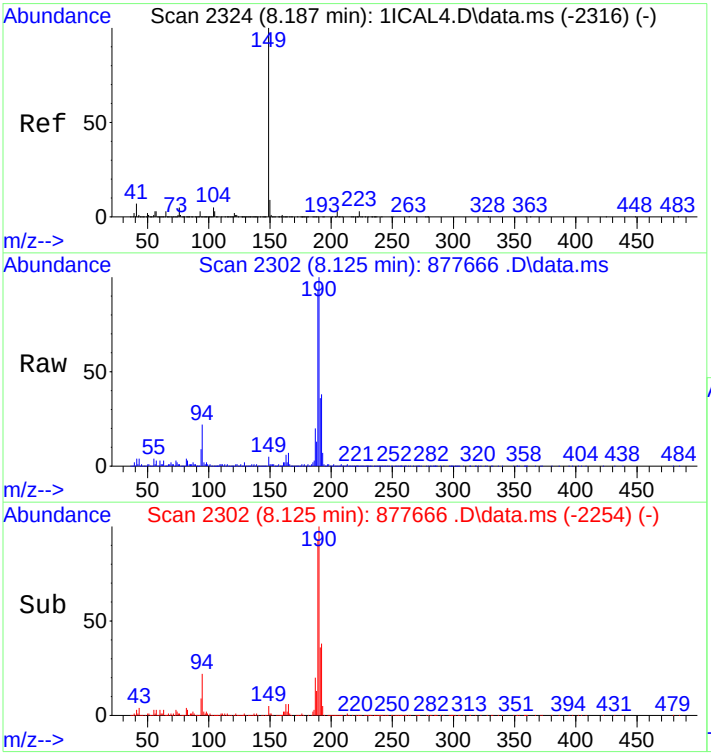


#72
Carbazole
Concen: 24.88 ug/mL
RT: 7.909 min Scan# 2226
Delta R.T. 0.028 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:167 Resp: 960629

Ion	Ratio	Lower	Upper
167	100		
166	20.3	0.0	50.5
139	11.6	0.0	40.7

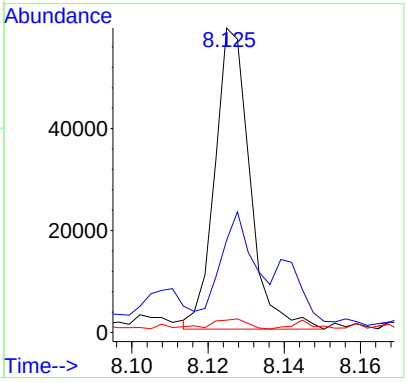


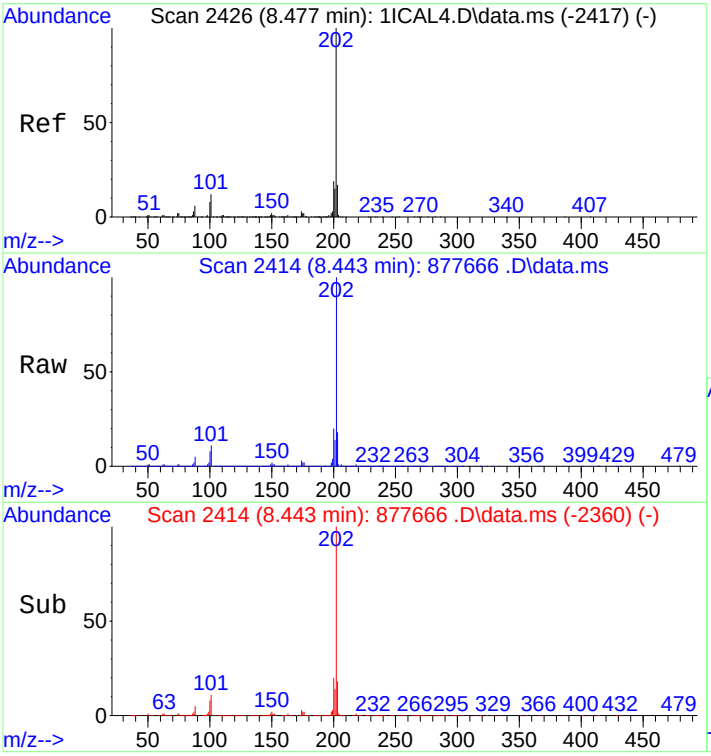


#73
Dinbtylphthal
Concen: 0.66 ug/mL
RT: 8.125 min Scan# 2302
Delta R.T. 0.023 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:149 Resp: 37630

Ion	Ratio	Lower	Upper
149	100		
150	26.8	0.0	38.9
104	2.2	0.0	32.6

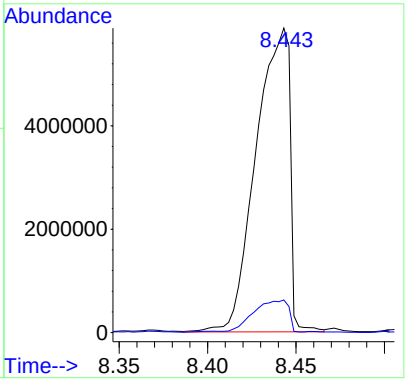


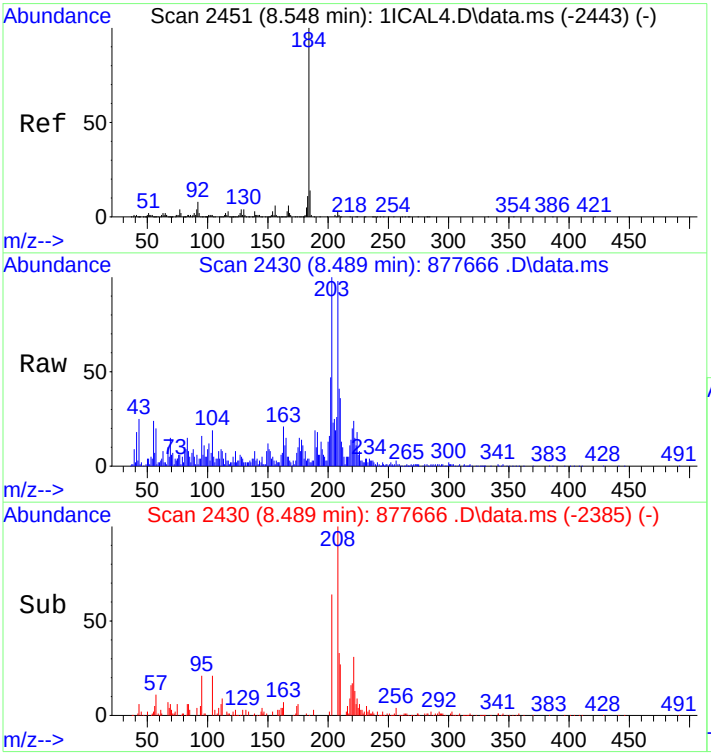


#74
Fluoranthene
Concen: 217.26 ug/mL
RT: 8.443 min Scan# 2414
Delta R.T. 0.040 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:202 Resp: 7838341

Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	45.6

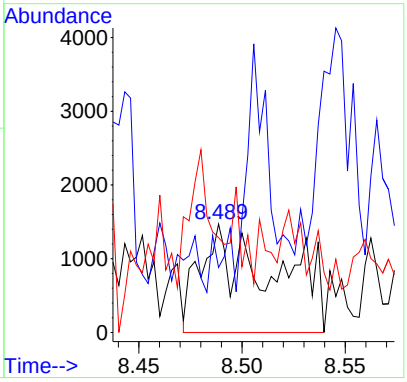


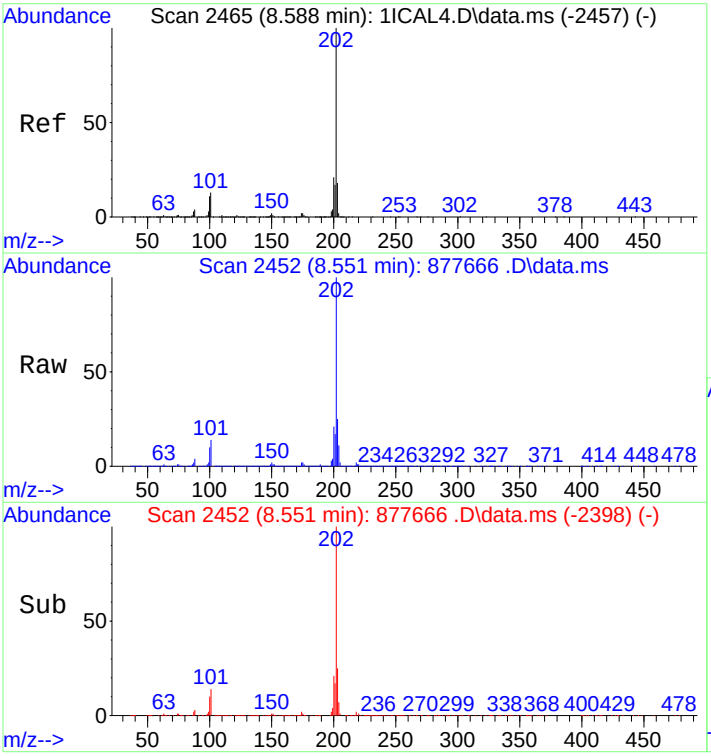


#76
Benzidine
Concen: Below ug/mL
RT: 8.489 min Scan# 2430
Delta R.T. 0.014 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:184 Resp: 3553

Ion	Ratio	Lower	Upper
184	100		
185	0.0	0.0	45.6
183	32.0	0.0	40.2

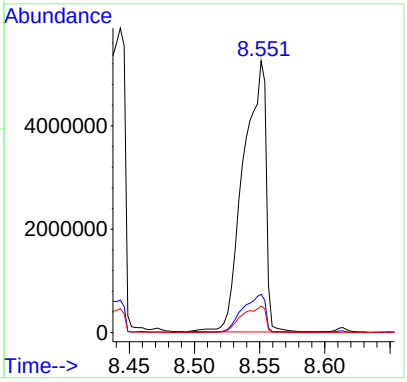


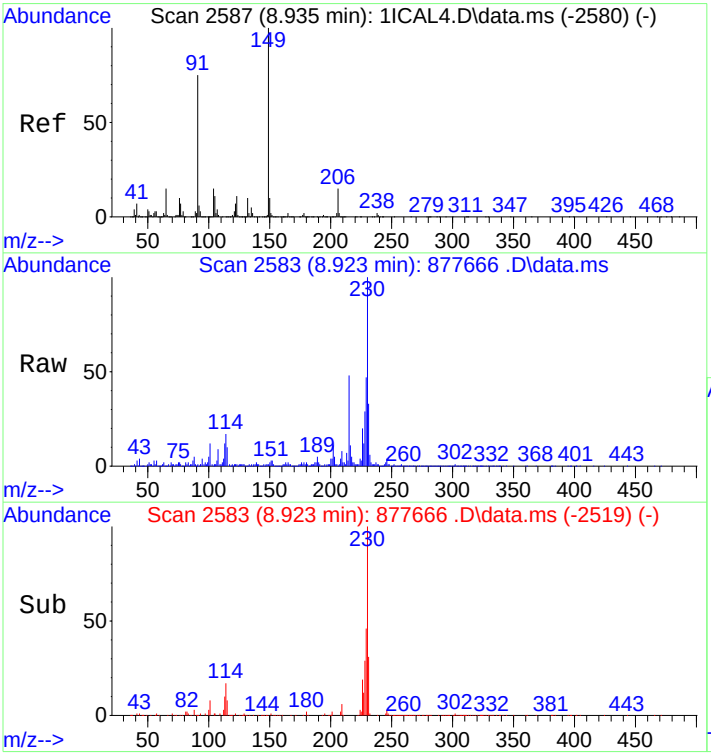


#77
Pyrene
Concen: 185.54 ug/mL
RT: 8.551 min Scan# 2452
Delta R.T. 0.040 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:202 Resp: 6344284

Ion	Ratio	Lower	Upper
202	100		
101	14.0	0.0	48.5
100	9.8	0.0	44.2

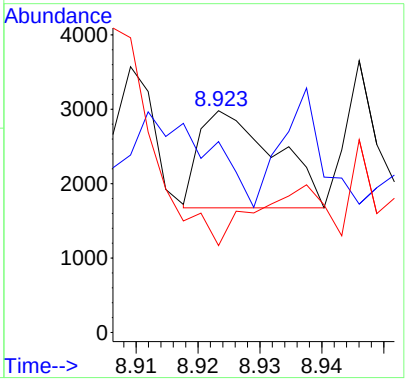


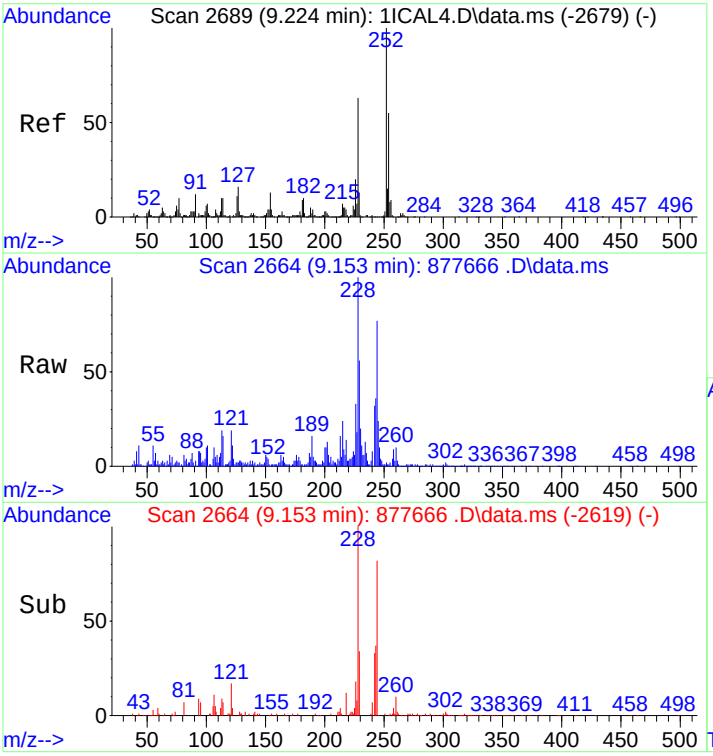


#79
Btylbzylphth
Concen: 0.07 ug/mL
RT: 8.923 min Scan# 2583
Delta R.T. 0.068 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:149 Resp: 1108

Ion	Ratio	Lower	Upper
149	100		
91	36.5	24.4	84.4
206	0.0	0.0	46.3

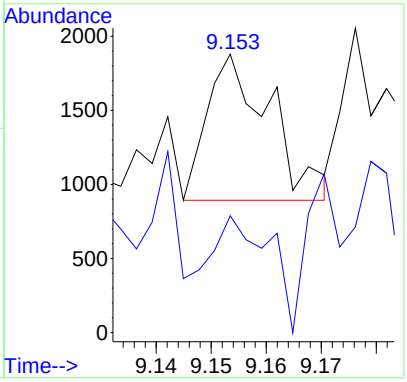


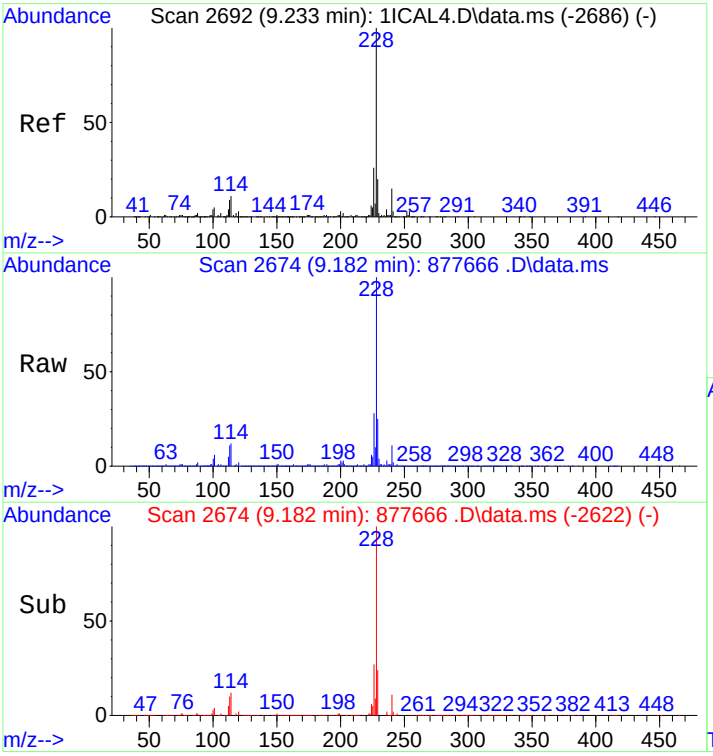


#80
33Diclbnzidin
Concen: Below ug/mL
RT: 9.153 min Scan# 2664
Delta R.T. 0.014 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:252 Resp: 787

Ion	Ratio	Lower	Upper
252	100		
254	43.0	34.5	94.5

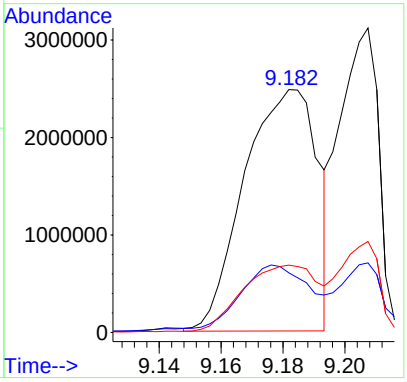


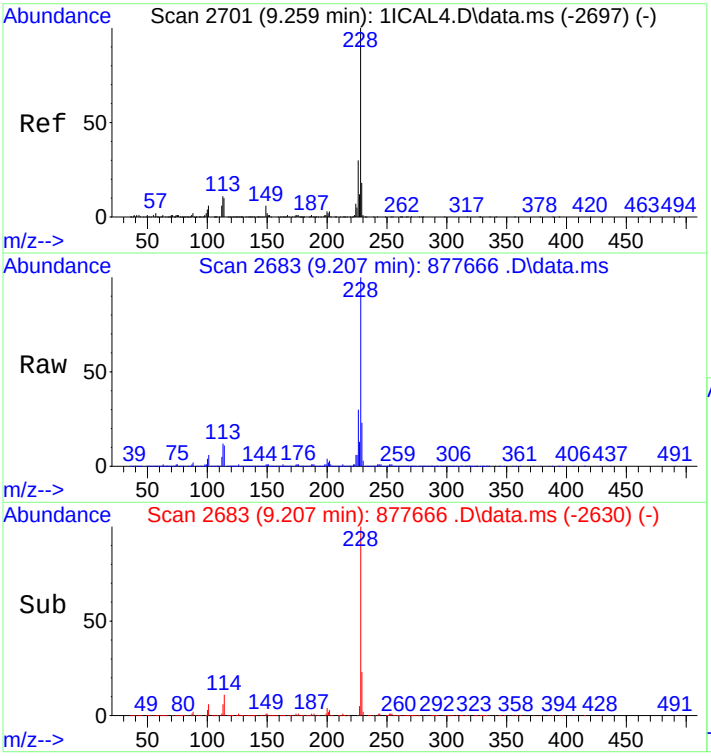


#81
B[a]anthracen
Concen: 137.35 ug/mL
RT: 9.182 min Scan# 2674
Delta R.T. 0.034 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:228 Resp: 4069630

Ion	Ratio	Lower	Upper
228	100		
229	23.4	0.0	49.1
226	27.8	0.0	56.4

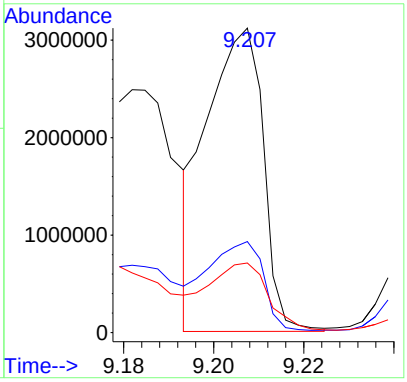


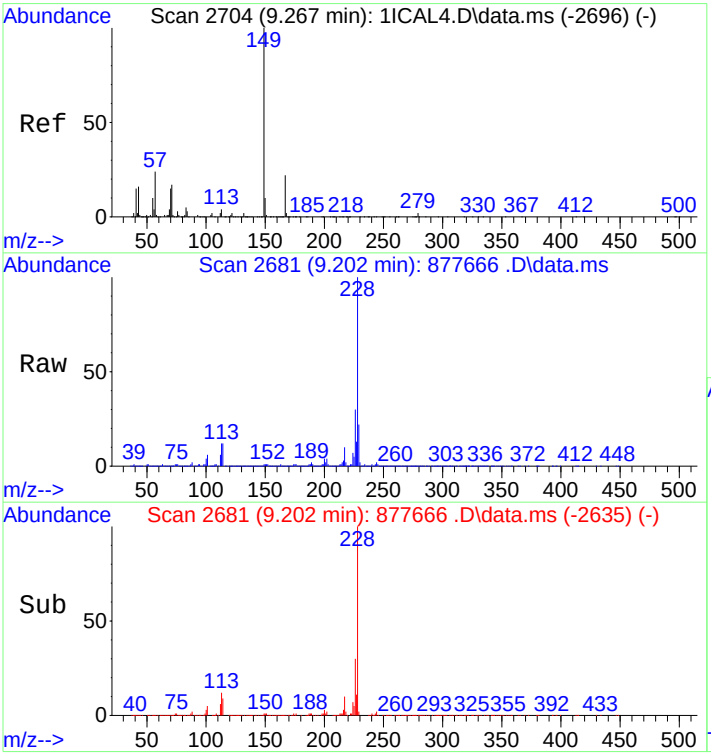


#82
Chrysene
Concen: 99.12 ug/mL
RT: 9.207 min Scan# 2683
Delta R.T. 0.037 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:228 Resp: 2742858

Ion	Ratio	Lower	Upper
228	100		
226	29.6	0.0	58.9
229	22.3	0.0	50.1

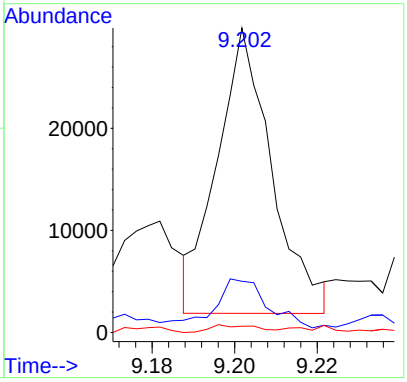


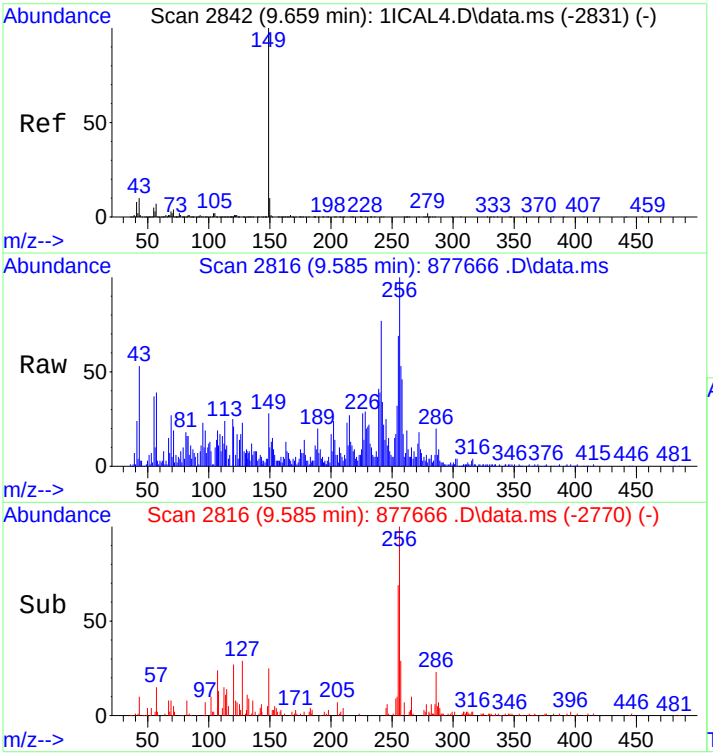


#83
bis2Ethlhxlph
Concen: 1.25 ug/mL
RT: 9.202 min Scan# 2681
Delta R.T. 0.017 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:149 Resp: 25686

Ion	Ratio	Lower	Upper
149	100		
167	17.4	0.0	56.4
279	2.5	0.0	32.7

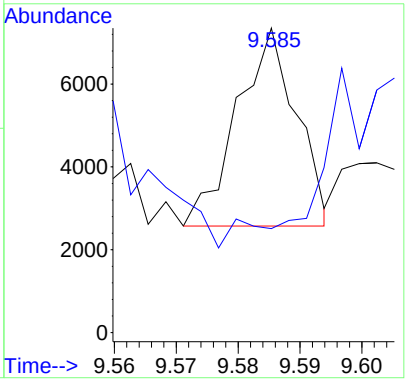


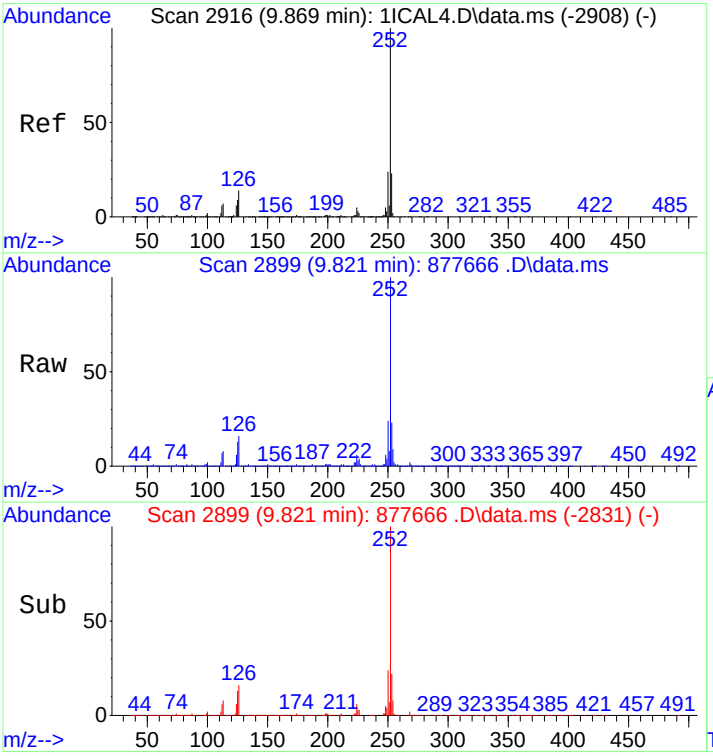


#84
Dinoctylphthl
Concen: 0.08 ug/mL
RT: 9.585 min Scan# 2816
Delta R.T. 0.017 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:149 Resp: 3186

Ion	Ratio	Lower	Upper
149	100		
150	0.0	0.0	39.4

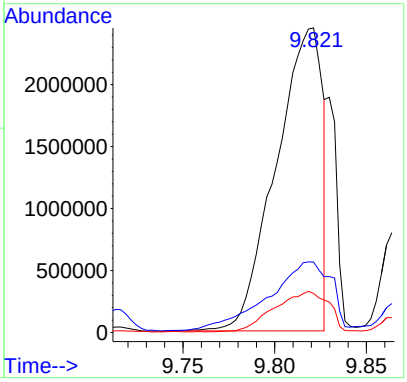


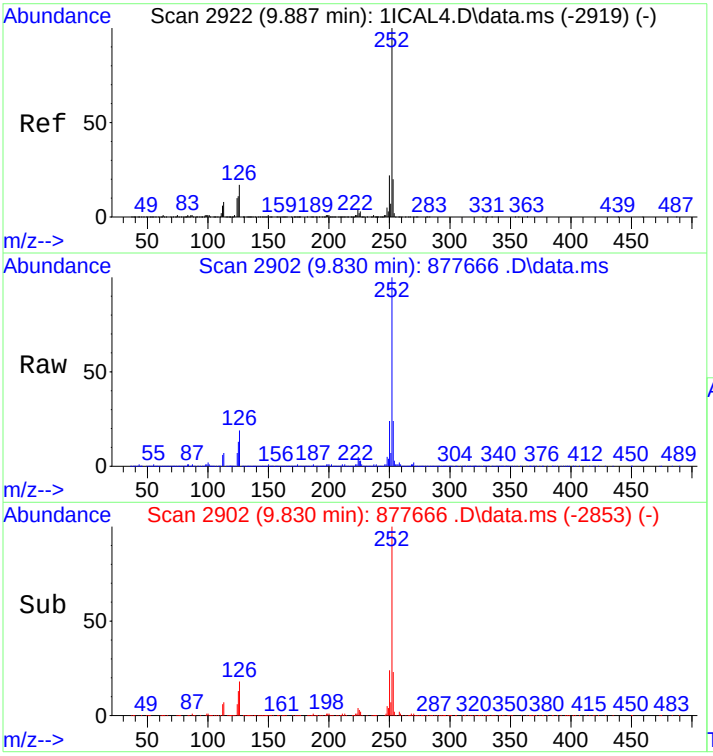


#86
B[b]fluoranth
Concen: 171.90 ug/mL
RT: 9.821 min Scan# 2899
Delta R.T. 0.048 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:252 Resp: 4288263

Ion	Ratio	Lower	Upper
252	100		
253	22.5	0.0	51.1
125	12.7	0.0	46.7

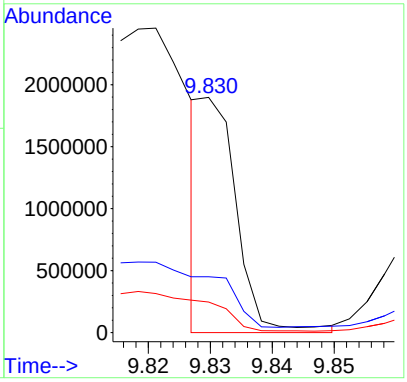


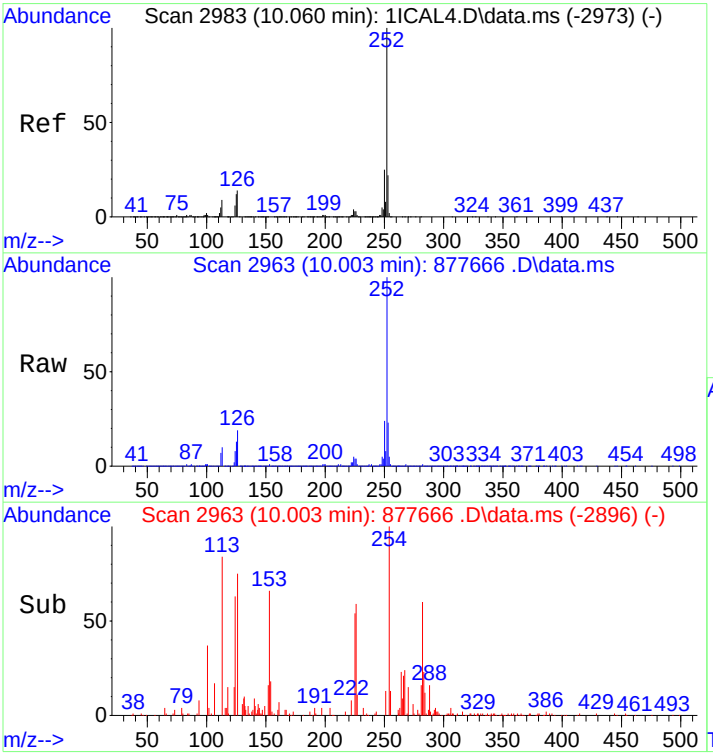


#87
B[k]fluoranth
Concen: 35.99 ug/mL m
RT: 9.830 min Scan# 2902
Delta R.T. 0.040 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:252 Resp: 756376

Ion	Ratio	Lower	Upper
252	100		
253	23.7	0.0	52.0
125	13.0	0.0	47.1

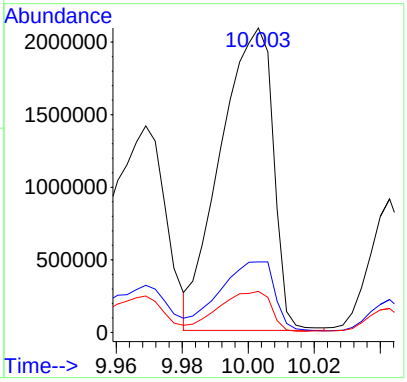


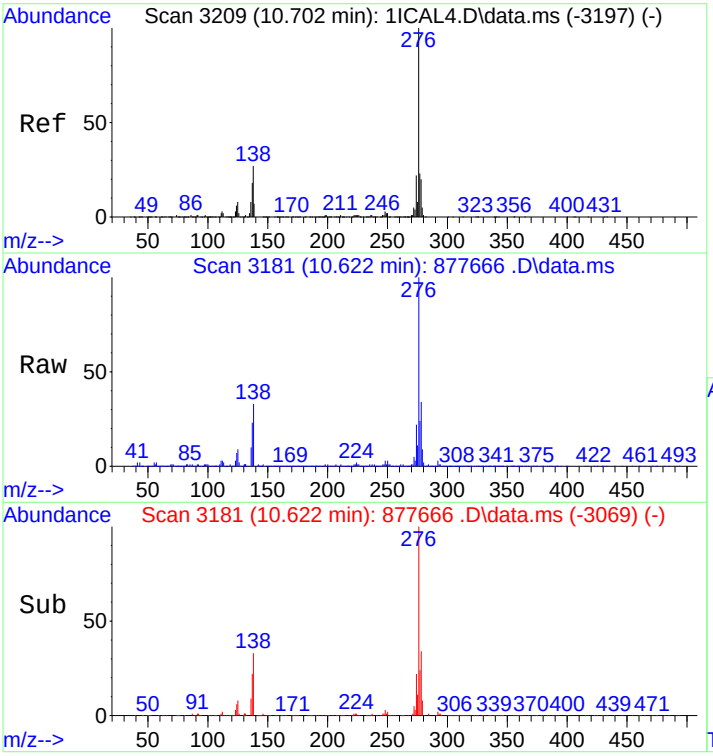


#88
Benz[a]pyrene
Concen: 100.45 ug/mL
RT: 10.003 min Scan# 2963
Delta R.T. 0.045 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:252 Resp: 2314100

Ion	Ratio	Lower	Upper
252	100		
253	23.0	0.0	51.1
125	13.2	0.0	50.3

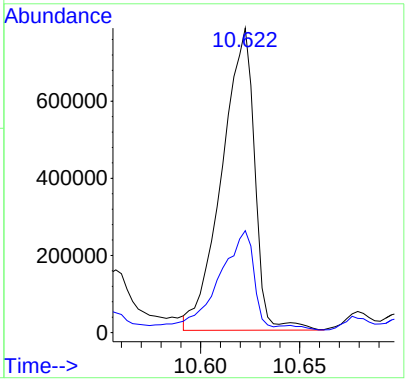


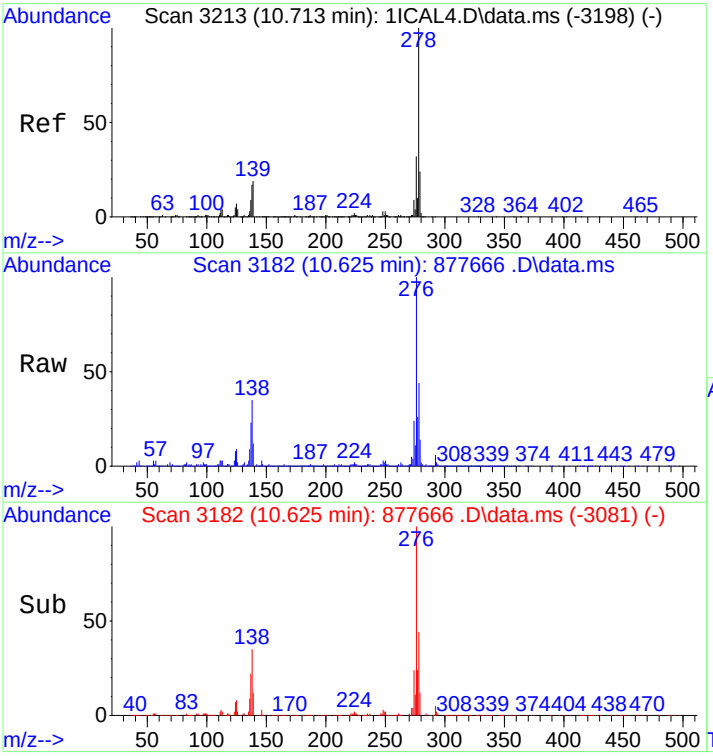


#89
Indeno-pyrene
Concen: 39.76 ug/mL
RT: 10.622 min Scan# 3181
Delta R.T. 0.040 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:276 Resp: 904280

Ion	Ratio	Lower	Upper
276	100		
138	32.9	18.6	78.6

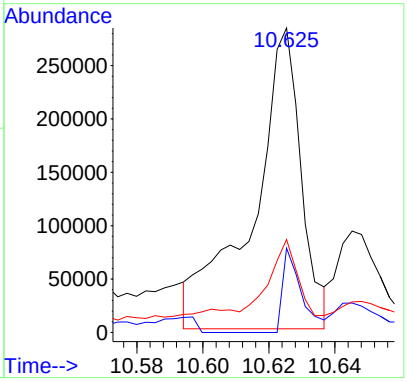


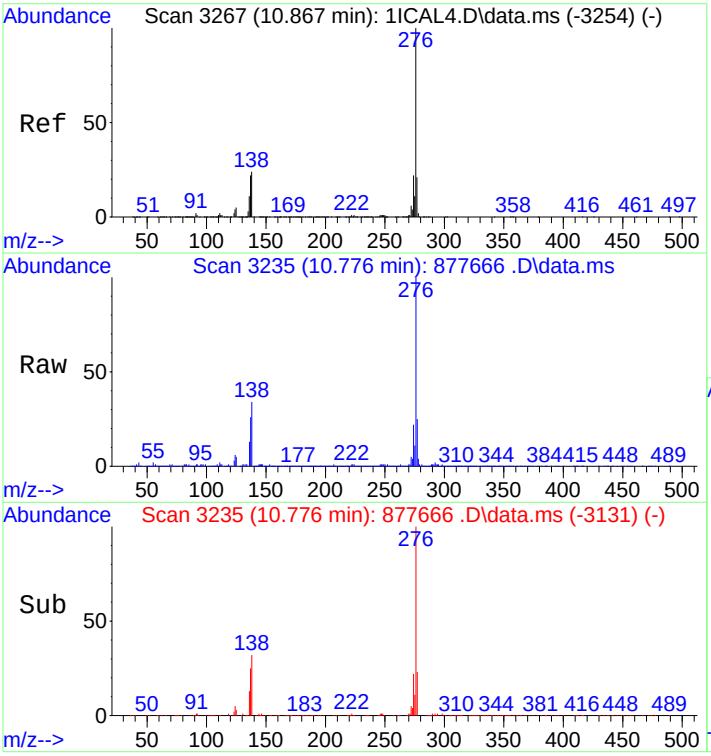


#90
Dib[ah]anthr
Concen: 16.24 ug/mL
RT: 10.625 min Scan# 3182
Delta R.T. 0.028 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:278 Resp: 288561

Ion	Ratio	Lower	Upper
278	100		
139	27.7	2.1	62.1
279	29.4	0.0	53.8

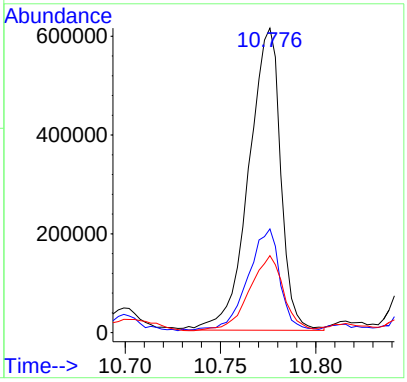


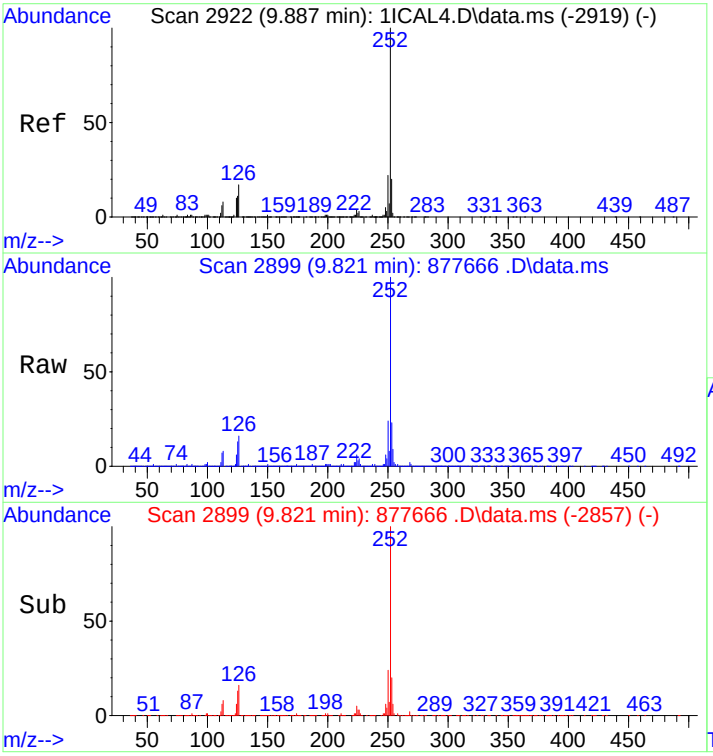


#91
B[ghi]perylen
Concen: 35.96 ug/mL
RT: 10.776 min Scan# 3235
Delta R.T. 0.037 min
Lab File: 877666 .D
Acq: 15 Dec 10 8:29 pm

Tgt Ion:276 Resp: 712017

Ion	Ratio	Lower	Upper
276	100		
138	33.3	14.7	74.7
277	24.9	0.0	53.8



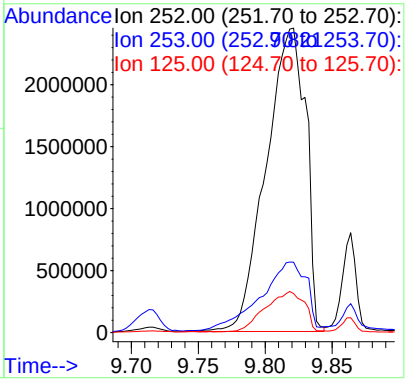


#87
B[k]fluoranth
Concen: 239.68 ug/mL
RT: 9.821 min Scan# 2899
Delta R.T. 0.020 min
Lab File: 877666 .D
Acq: 15 Dec 2010 20:29

RPN 12/27/10

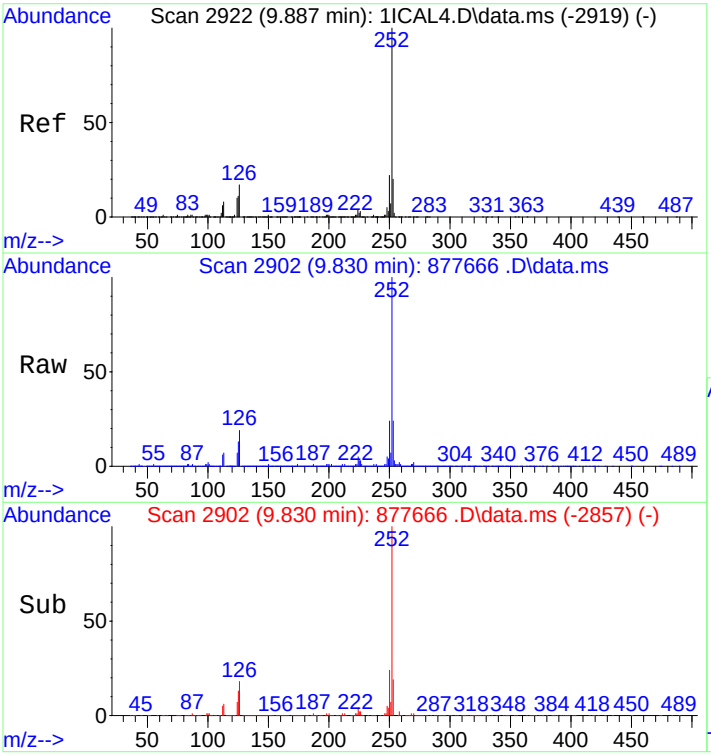
Tgt Ion:252 Resp: 5036693

Ion	Ratio	Lower	Upper
252	100		
253	22.7	0.0	52.0
125	12.6	0.0	47.1



RED 1/08/2011

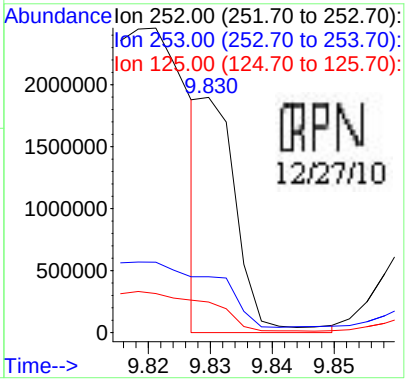
Before Manual Integration



#87
B[k]fluoranth
Concen: 35.99 ug/mL m
RT: 9.830 min Scan# 2902
Delta R.T. 0.028 min
Lab File: 877666 .D
Acq: 15 Dec 2010 20:29

Tgt Ion:252 Resp: 756376

Ion	Ratio	Lower	Upper
252	100		
253	23.7	0.0	52.0
125	13.0	0.0	47.1



RPN
12/27/10

RED
1/08/2011

After Manual Integration

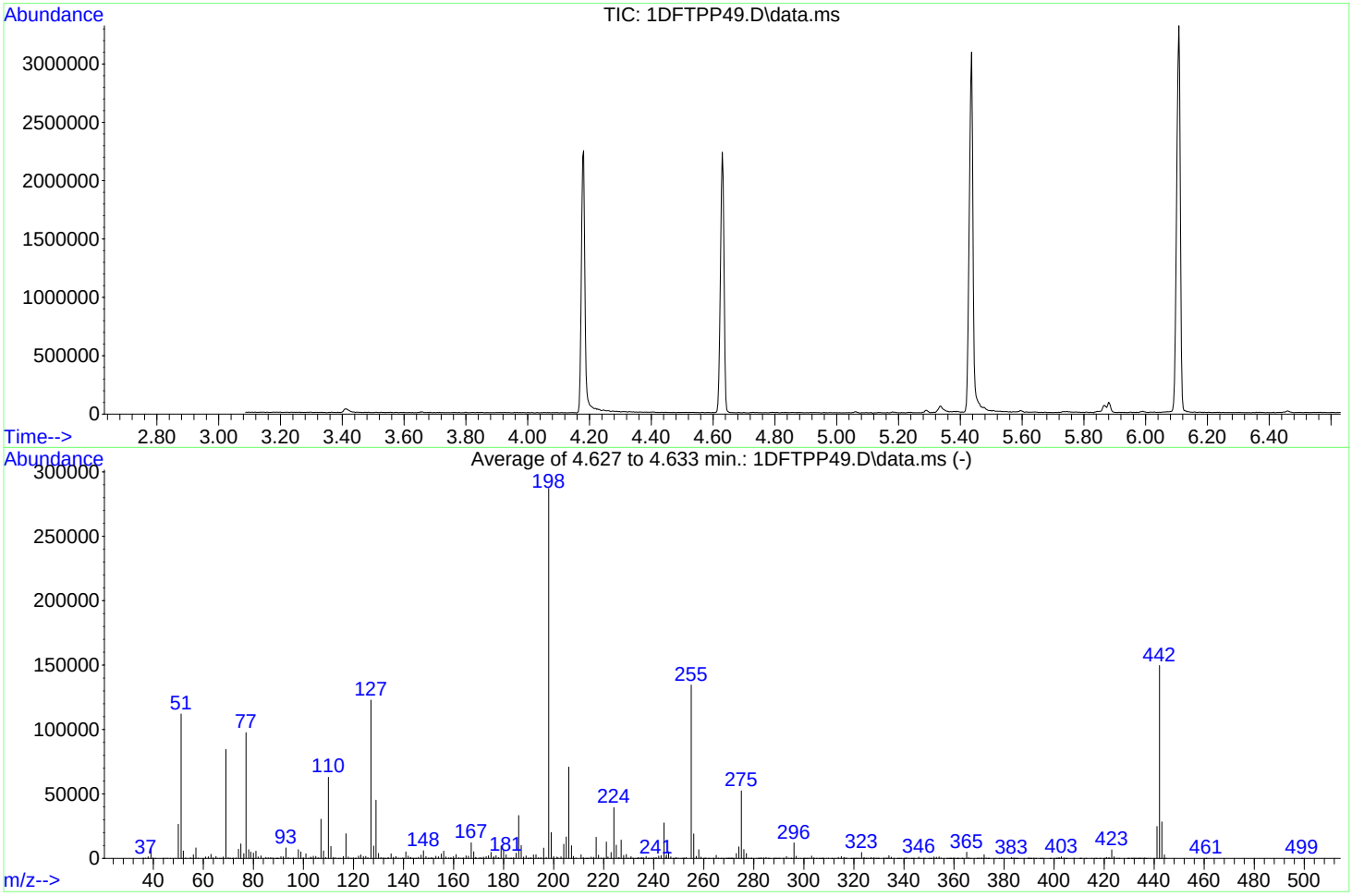
SEMI - VOLATILE ORGANIC ANALYSIS
INITIAL CALIBRATION
DOCUMENTS

Data Path : C:\INSTARCH\DATA\1S121410\
Data File : 1DFTPP49.D
Acq On : 14 Dec 2010 12:48
Operator : RPN
Sample : DFTPP TUNE SVMS4570
Misc : SVMS1,25 ug DFTPP
ALS Vial : 1 Sample Multiplier: 1

RPN
10/15/10

Integration File: rteint.p

Method : C:\INSTARCH\METHOD\1DFTPP.M
Title : DFTPP TUNE Method
Last Update : Wed Dec 01 10:05:44 2010



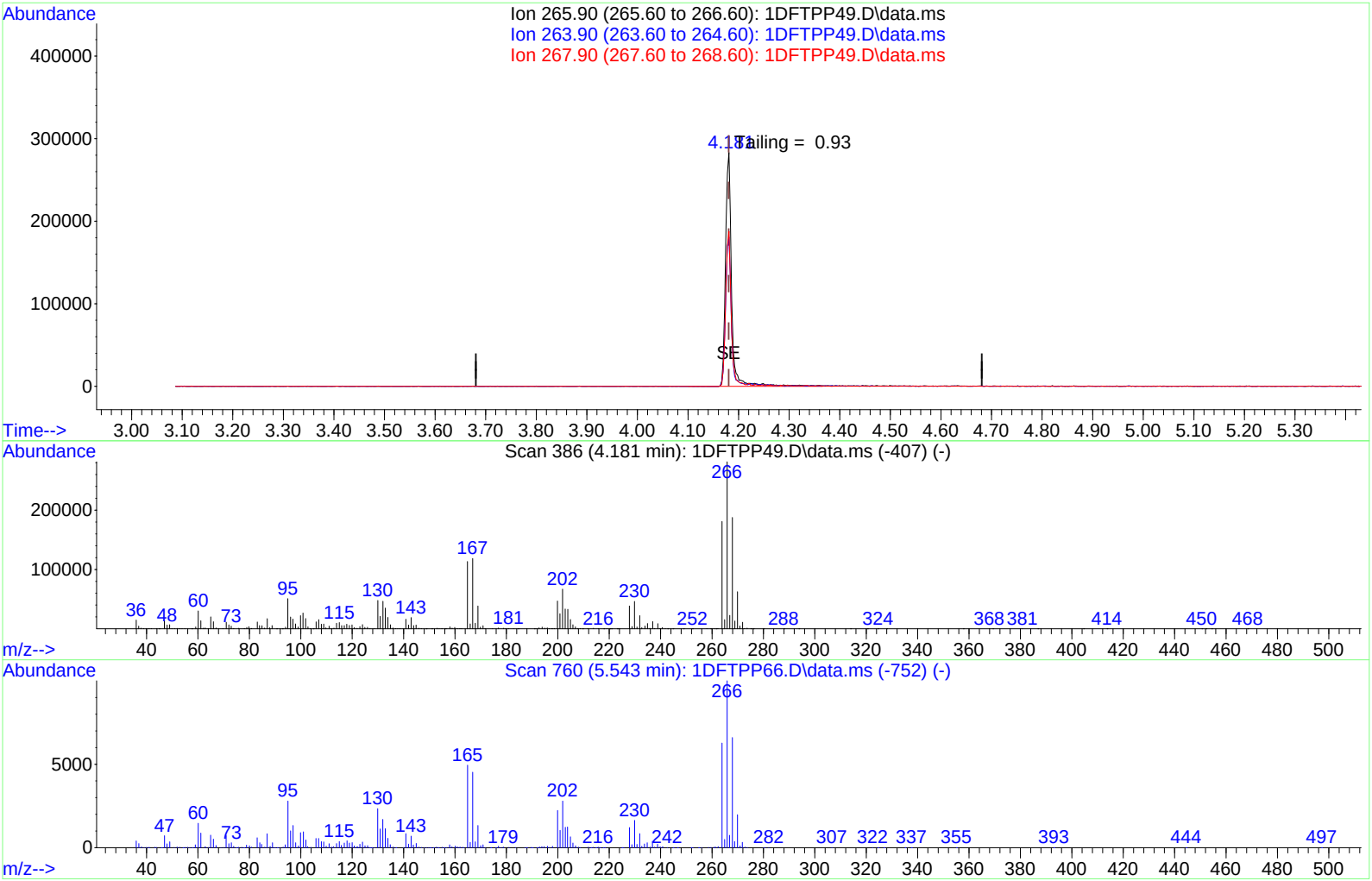
AutoFind: Scans 543, 544, 545; Background Corrected with Scan 534

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.1	112141	PASS
68	69	0.00	2	1.4	1163	PASS
69	198	0.00	100	29.5	84589	PASS
70	69	0.00	2	0.7	550	PASS
127	198	40	60	42.8	122882	PASS
197	198	0.00	1	0.3	759	PASS
198	198	100	100	100.0	287104	PASS
199	198	5	9	7.0	20061	PASS
275	198	10	30	18.3	52485	PASS
365	198	1	100	1.7	4851	PASS
441	443	0.01	100	87.6	24829	PASS
442	198	40	100	52.2	149730	PASS
443	442	17	23	18.9	28354	PASS

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\1S121410\1DFTPP49.D Vial: 1
Acq On : 14 Dec 2010 12:48 Operator: RPN
Sample : DFTPP TUNE SVMS4570 Inst : SVMS1
Misc : SVMS1,25 ug DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 15:07:54 2010

Quant Method : C:\INSTARCH\METHOD\1DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Wed Dec 15 15:07:49 2010
Response via : Initial Calibration
DataAcq Meth:1DFTPP.M



TIC: 1DFTPP49.D\data.ms

(1) Pentachlorophenol

4.181min (0.000) 40.83 ng

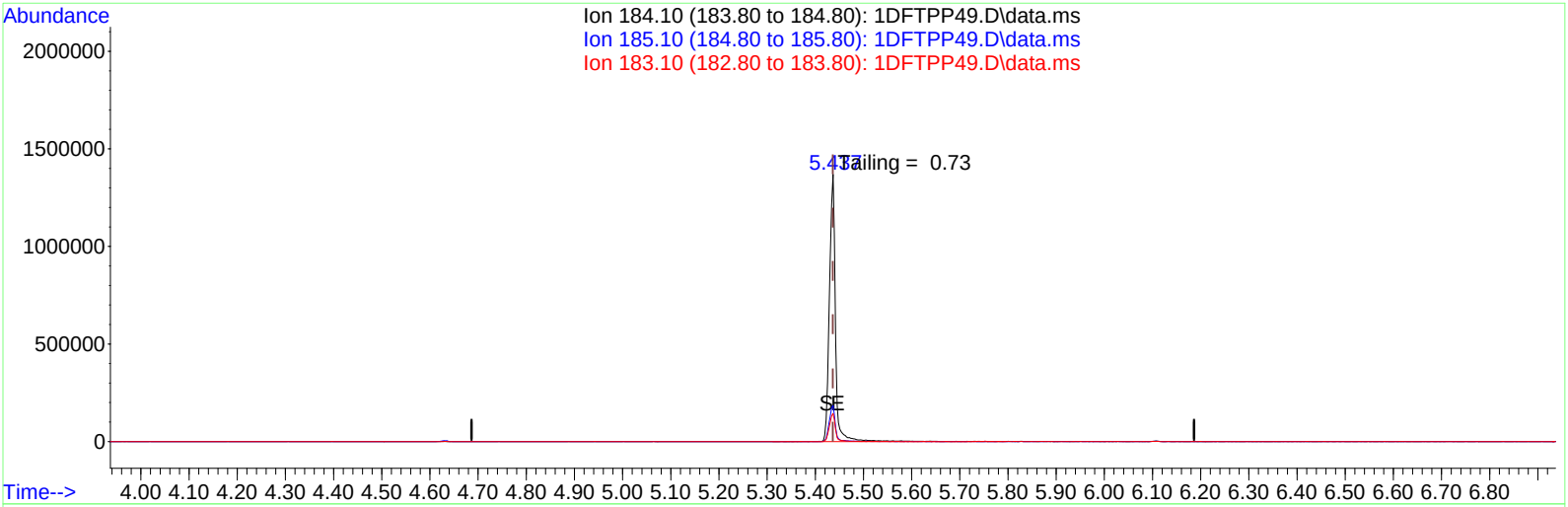
response 229324

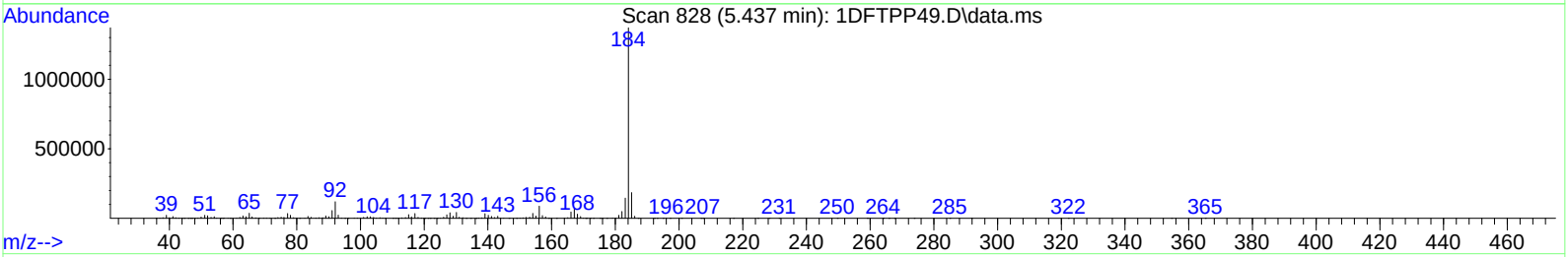
Ion	Exp%	Act%
265.90	100	100
263.90	66.20	63.81
267.90	60.90	66.23
0.00	0.00	0.00

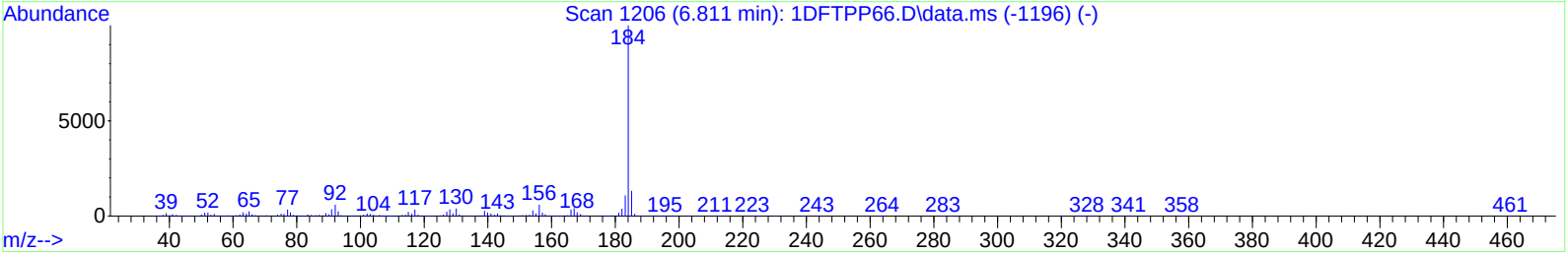
Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\1S121410\1DFTPP49.D Vial: 1
Acq On : 14 Dec 2010 12:48 Operator: RPN
Sample : DFTPP TUNE SVMS4570 Inst : SVMS1
Misc : SVMS1,25 ug DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 15:07:54 2010

Quant Method : C:\INSTARCH\METHOD\1DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Wed Dec 15 15:07:49 2010
Response via : Initial Calibration
DataAcq Meth:1DFTPP.M







TIC: 1DFTPP49.D\data.ms

(3) Benzidine

5.437min (0.000) 23.20 ng

response 1163487

Ion	Exp%	Act%
184.10	100	100
185.10	13.80	13.99
183.10	12.20	10.67
0.00	0.00	0.00

Data File	: 1DFTPP49.D	Vial Number	: 1
Data File Path	: C:\INSTARCH\DATA\1S121410\	Operator	: RPN
Date Acquired	: 12/14/2010 12:48	Instrument Name:	SVMS1
Sample Name	: DFTPP TUNE SVMS4570	Sample Multiplier:	1
Misc Info	: SVMS1,25 ug DFTPP		

Quant Method	: C:\INSTARCH\METHOD\1DFTPP.M
Calibration Title	: DFTPP TUNE Method
Last Update	: Wed Dec 15 15:07:49 2010

Compound	R.T.	QIon	Response
1) Pentachlorophenol	4.18	266	229324
2) DFTPP	4.63	198	247442
3) Benzidine	5.44	184	1163487
4) DDE	5.60	246	1225
5) DDD	5.88	235	21574
6) DDT	6.11	235	624813

DDT %Degradation

$$\frac{\text{DDD + DDE}}{\text{DDD + DDE + DDT}} \times 100\% = 3.52\ \%$$

Response Factor Report SVMS1

Method Path : C:\INSTARCH\METHOD\
Method File : 1S121410.M
Title : Method for 8270 analysis
Last Update : Wed Dec 15 08:45:37 2010
Response Via : Initial Calibration

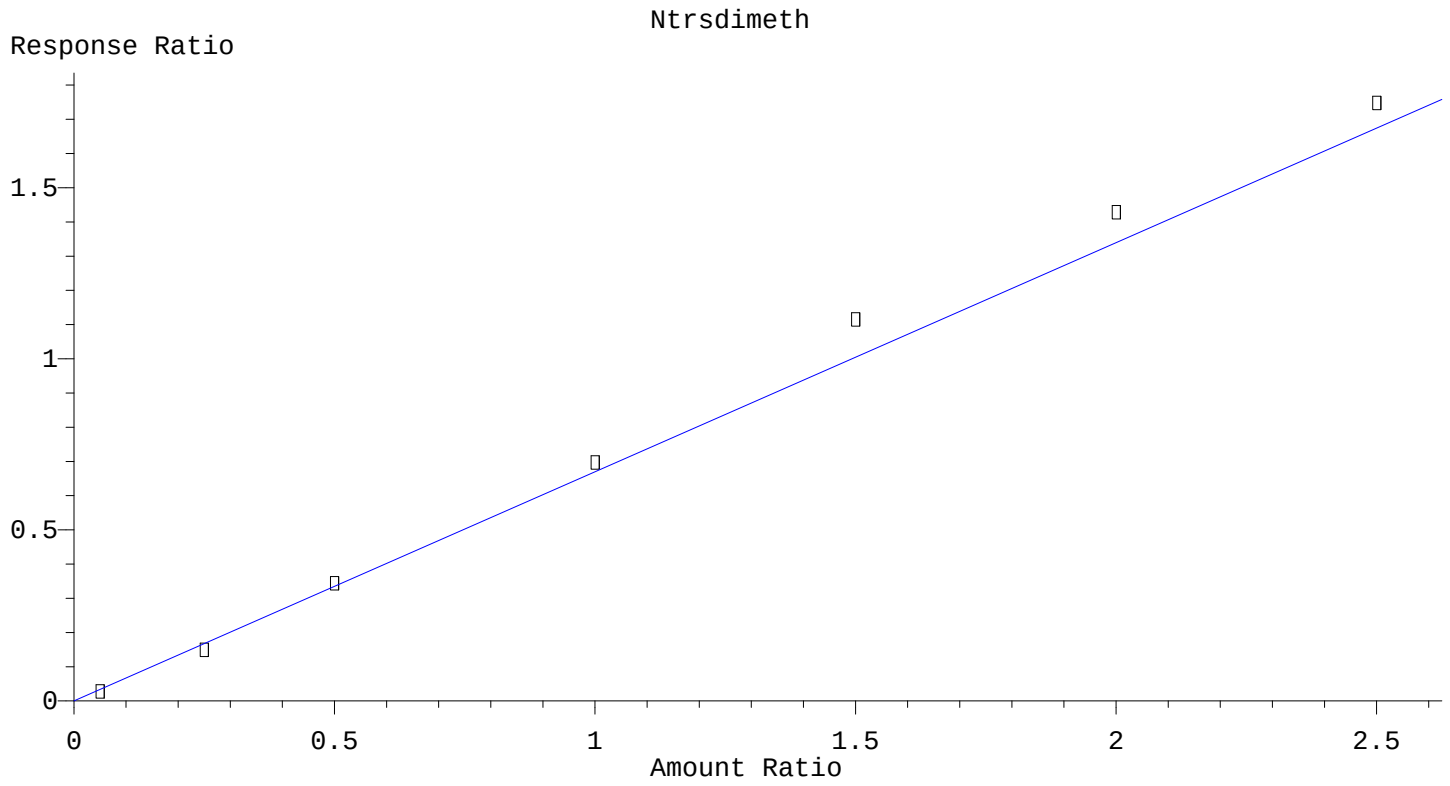
Calibration Files
1 =1ICAL1.D 5 =1ICAL2.D 10 =1ICAL3.D 20 =1ICAL4.D 30 =1ICAL5.D 40 =1ICAL6.D 50 =1ICAL7.D

		Compound	1	5	10	20	30	40	50	Avg	%RSD
1)	I	14Diclbenzd4	----------ISTD----------								
2)	TM	Ntrsdimeth	0.550	0.597	0.687	0.697	0.743	0.714	0.699	0.670	10.35
3)	TM	Pyridine	1.059	1.085	1.154	1.209	1.311	1.251	1.223	1.185	7.65
4)	S	SURR2Flphenol	0.412	0.433	0.467	0.481	0.498	0.481	0.467	0.463	6.50
5)	TM	Aniline	1.393	1.470	1.559	1.530	1.584	1.516	1.434	1.498	4.59
6)	TM	bis2Clethletr	0.967	0.955	1.079	1.021	1.080	1.045	0.986	1.019	5.06
7)	S	SURRPhenol-d5	0.446	0.504	0.559	0.561	0.575	0.565	0.539	0.536	8.54
8)	CTM	Phenol	1.186	1.383	1.501	1.477	1.493	1.424	1.347	1.402	7.92
9)	TM	2-Cl-phenol	1.194	1.264	1.302	1.288	1.325	1.263	1.227	1.266	3.54
10)	TM	13Diclbenz	1.536	1.479	1.600	1.541	1.579	1.537	1.468	1.534	3.14
11)	CTM	14Diclbenz	1.505	1.483	1.545	1.510	1.529	1.493	1.402	1.495	3.08
12)	TM	12Diclbenz	1.326	1.411	1.518	1.456	1.479	1.411	1.304	1.415	5.52
13)	TM	Benzyl alcoho	0.407	0.577	0.653	0.668	0.691	0.672	0.635	0.615	16.05
14)	TM	bis2clispreth	1.860	1.956	2.106	2.087	2.197	2.129	1.975	2.044	5.74
15)	TM	2Methylphenol	0.914	1.029	1.048	1.063	1.108	1.038	0.999	1.028	5.90
16)	TM	Ntrspyrrol	0.463	0.474	0.519	0.516	0.539	0.532	0.494	0.505	5.70
17)	TM	Acetophenone	1.394	1.386	1.504	1.481	1.493	1.457	1.344	1.437	4.31
18)	TM	Hexaclethane	0.518	0.505	0.519	0.515	0.530	0.512	0.478	0.511	3.26
19)	PTM	N-Ntrsdinprop	0.664	0.692	0.726	0.707	0.734	0.738	0.686	0.707	3.93
20)	TM	3&4Methylphenol	0.895	0.969	1.059	1.058	1.070	1.062	0.994	1.015	6.47
21)	I	Naphthalened8	----------ISTD----------								
22)	S	SURRNitrbenzened5	0.052	0.056	0.063	0.062	0.064	0.063	0.061	0.060	7.58
23)	TM	Nitrobenzene	0.264	0.277	0.285	0.290	0.299	0.292	0.281	0.284	4.00
24)	TM	Isophorone	0.526	0.535	0.572	0.573	0.585	0.581	0.565	0.562	4.06
25)	CTM	2-Nitrophenol	0.145	0.189	0.189	0.203	0.197	0.198	0.186	0.187	10.48
26)	TM	24Dimthpheno	0.266	0.271	0.304	0.304	0.302	0.301	0.285	0.290	5.67
27)	TM	bis2clethoxym	0.309	0.341	0.359	0.359	0.364	0.359	0.349	0.349	5.45
28)	CTM	24Diclphenol	0.279	0.289	0.315	0.328	0.326	0.324	0.311	0.310	6.14
29)	TM	124Triclbenz	0.373	0.379	0.415	0.390	0.385	0.377	0.359	0.383	4.49
30)	TM	Benzoic acid		0.123	0.167	0.209	0.214	0.221	0.213	0.191	20.14
31)	TM	Naphthalene	1.009	0.948	1.008	0.992	0.992	0.973	0.928	0.979	3.14
32)	TM	4-Cl-aniline	0.363	0.339	0.343	0.340	0.349	0.354	0.344	0.347	2.53
33)	TM	26Diclphenol	0.257	0.271	0.286	0.291	0.277	0.277	0.257	0.274	4.86
34)	TM	Hexaclprop	0.229	0.253	0.262	0.264	0.255	0.246	0.235	0.249	5.38
35)	CTM	Hexaclbutdien	0.255	0.257	0.278	0.264	0.261	0.258	0.247	0.260	3.70
36)	CTM	4Cl3methylphe	0.229	0.329	0.366	0.362	0.372	0.372	0.356	0.341	15.12
37)	TM	2Methylnaphth	0.740	0.723	0.776	0.741	0.733	0.713	0.670	0.728	4.42
38)	TM	1Methylnaphth	0.767	0.741	0.805	0.775	0.743	0.731	0.685	0.750	5.05
39)	I	Acenaphthened10	----------ISTD----------								
40)	PTM	Hxclcycpentdi	0.218	0.308	0.361	0.368	0.371	0.366	0.346	0.334	16.64
41)	TM	1245Tetrclbenz	0.731	0.685	0.728	0.671	0.670	0.634	0.616	0.677	6.43
42)	CTM	246Triclpheno	0.350	0.390	0.428	0.416	0.434	0.431	0.418	0.410	7.33

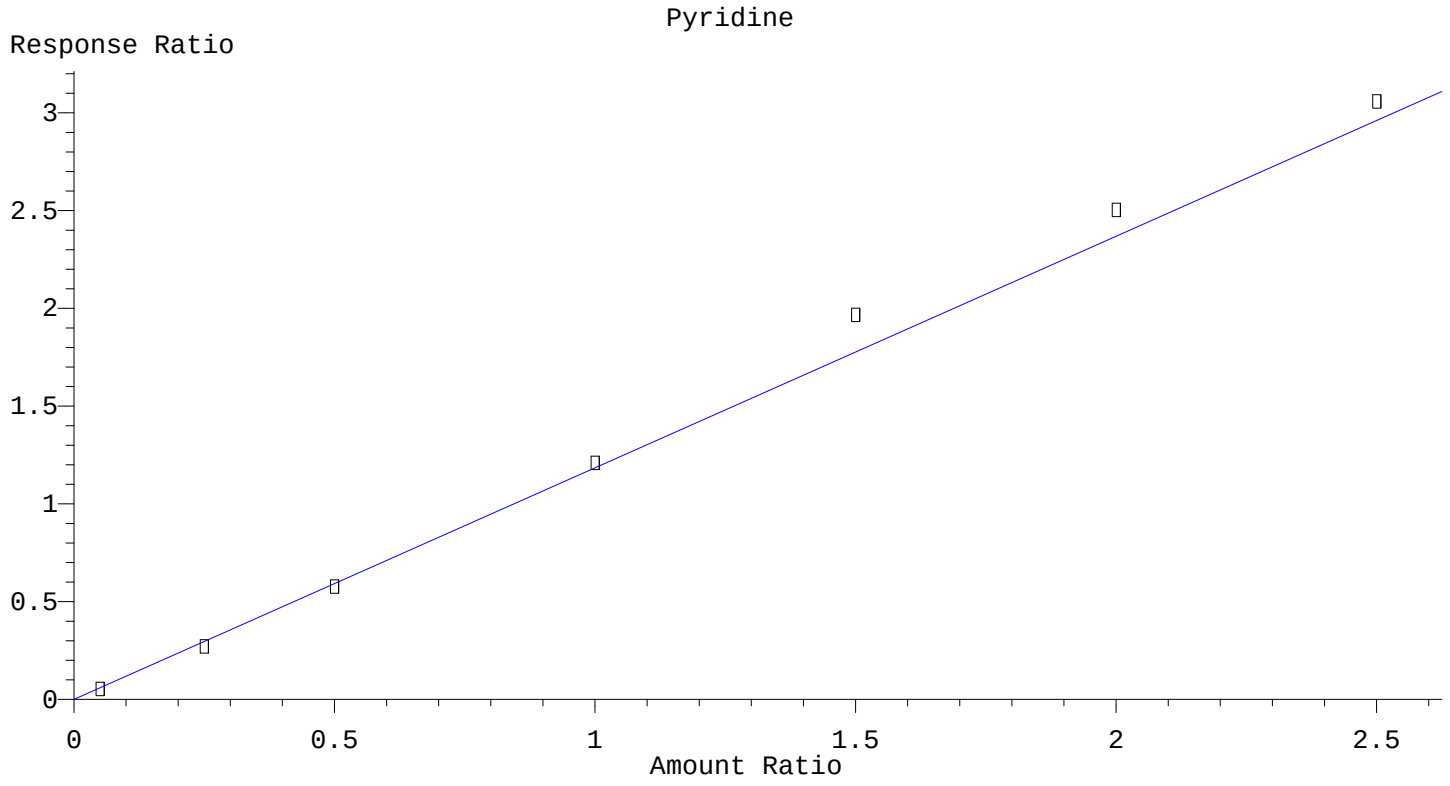
Method Path : C:\INSTARCH\METHOD\
Method File : 1S121410.M

43)	TM	245Triclpheno	0.344	0.423	0.480	0.468	0.500	0.492	0.465	0.453	11.95
44)	S	SURR2Flbiphenyl	0.279	0.271	0.294	0.274	0.277	0.273	0.263	0.276	3.40
45)	TM	2Clnaphthalen	1.190	1.191	1.249	1.207	1.217	1.209	1.147	1.201	2.59
46)	TM	2Nitroaniline	0.249	0.240	0.281	0.272	0.302	0.303	0.293	0.277	9.05
47)	TM	Acnaphthylene	1.949	1.872	1.972	1.811	1.800	1.737	1.647	1.827	6.30
48)	TM	Dimethylphtha	1.348	1.338	1.420	1.346	1.373	1.303	1.273	1.343	3.51
49)	TM	26Dinitrotolu	0.268	0.286	0.302	0.285	0.285	0.271	0.258	0.279	5.22
50)	CTM	Acenaphthene	1.227	1.160	1.217	1.180	1.165	1.140	1.105	1.170	3.61
51)	TM	3Nitroaniline	0.243	0.254	0.194	0.203	0.220	0.235	0.226	0.225	9.46
52)	PTM	24Dinitphenol		0.089	0.140	0.170	0.186	0.197	0.193	0.162	25.72
53)	TM	Dibenzofuran	1.669	1.591	1.709	1.619	1.644	1.575	1.489	1.614	4.43
54)	TM	24Dinitrotolu	0.360	0.387	0.396	0.391	0.406	0.394	0.388	0.389	3.69
55)	PTM	4-Nitrophenol		0.089	0.102	0.113	0.117	0.115	0.115	0.109	10.17
56)	TM	2,3,5,6-Tetrac...	0.229	0.307	0.356	0.351	0.362	0.363	0.349	0.331	14.79
57)	TM	2,3,4,6-Tetrac...	0.272	0.330	0.343	0.351	0.373	0.366	0.355	0.342	9.89
58)	TM	Fluorene	1.310	1.312	1.405	1.329	1.334	1.298	1.203	1.313	4.57
59)	TM	4Clphlphlethr	0.712	0.665	0.705	0.670	0.676	0.639	0.615	0.669	5.13
60)	TM	Diethylphthal	1.317	1.295	1.387	1.338	1.399	1.354	1.308	1.343	2.96
61)	TM	4Nitroaniline	0.197	0.219	0.226	0.212	0.233	0.233	0.234	0.222	6.26
62)	S	SURR246Tribrphenl	0.052	0.055	0.062	0.061	0.064	0.062	0.060	0.059	7.33
63)	I	Phenanthrd10	----------ISTD----------								
64)	TM	46Dinit2mylph		0.101	0.116	0.121	0.132	0.131	0.126	0.121	9.58
65)	CTM	Ntrsdiphlam&Di...	0.481	0.489	0.492	0.433	0.427	0.396	0.363	0.440	11.33
66)	TM	Azobenz&12Diph...	0.176	0.177	0.173	0.158	0.154	0.145	0.133	0.159	10.42
67)	TM	4Brphlphlethr	0.231	0.210	0.227	0.209	0.215	0.206	0.187	0.212	6.88
68)	TM	Hexaclbenzene	0.214	0.214	0.222	0.206	0.203	0.192	0.176	0.204	7.63
69)	CTM	Pentaclphenol		0.094	0.116	0.125	0.134	0.136	0.128	0.122	12.71
70)	TM	Phenanthrene	1.096	1.054	1.063	1.008	1.009	0.967	0.892	1.013	6.72
71)	TM	Anthracene	1.111	1.098	1.118	1.020	1.036	0.986	0.905	1.039	7.44
72)	TM	Carbazole	0.909	0.887	0.849	0.772	0.791	0.758	0.703	0.810	9.20
73)	TM	Dinbtylphthal	1.244	1.212	1.286	1.230	1.200	1.154	1.065	1.199	5.97
74)	CTM	Fluoranthene	0.786	0.782	0.809	0.764	0.753	0.720	0.685	0.757	5.61
75)	I	Chrysene-d12	----------ISTD----------								
76)	TM	Benzidine	0.333	0.142	0.062	0.115	0.172	0.211		0.173	54.21
77)	TM	Pyrene	1.374	1.325	1.376	1.369	1.374	1.340	1.297	1.351	2.29
78)	S	SURRTerphenyl-d14	0.142	0.144	0.156	0.150	0.153	0.151	0.146	0.149	3.47
79)	TM	Btylbzylphth	0.518	0.570	0.599	0.603	0.629	0.624	0.605	0.592	6.42
80)	TM	33Diclbnzidin	0.394	0.234	0.203	0.213	0.222	0.229	0.232	0.247	26.64
81)	TM	B[a]anthracen	1.191	1.155	1.179	1.157	1.186	1.187	1.138	1.170	1.73
82)	TM	Chrysene	1.083	1.108	1.095	1.100	1.138	1.072	1.056	1.093	2.41
83)	TM	bis2Ethlhxlph	0.799	0.810	0.840	0.819	0.837	0.816	0.783	0.815	2.46
84)	CTM	Dinoctylphthl	1.325	1.398	1.518	1.543	1.592	1.587	1.521	1.498	6.67
85)	I	Perylene-d12	----------ISTD----------								
86)	TM	B[b]fluoranth	1.097	1.181	1.338	1.281	1.319	1.284	1.194	1.242	7.02
87)	TM	B[k]fluoranth	1.144	1.151	1.092	1.069	1.087	0.989	0.792	1.046	11.90
88)	CTM	Benz[a]pyrene	1.131	1.159	1.188	1.146	1.186	1.130	1.089	1.147	3.02
89)	TM	Indeno-pyrene	1.065	1.132	1.198	1.164	1.183	1.126	1.060	1.132	4.79
90)	TM	Dib[ah]anthr	0.877	0.895	0.948	0.917	0.902	0.851	0.805	0.885	5.27
91)	TM	B[ghi]perylen	1.004	0.957	1.030	1.015	0.968	0.984	0.944	0.986	3.22

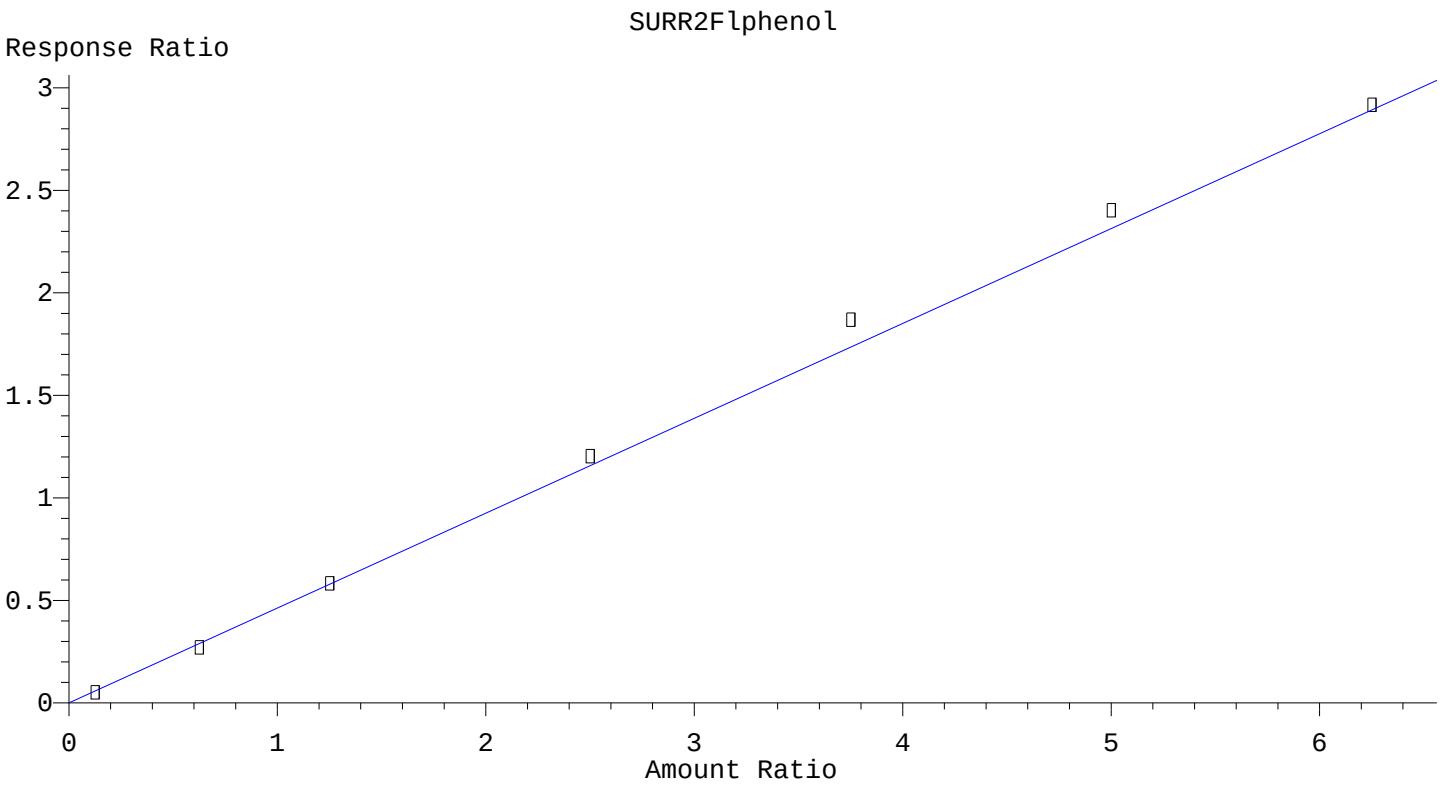
(#) = Out of Range



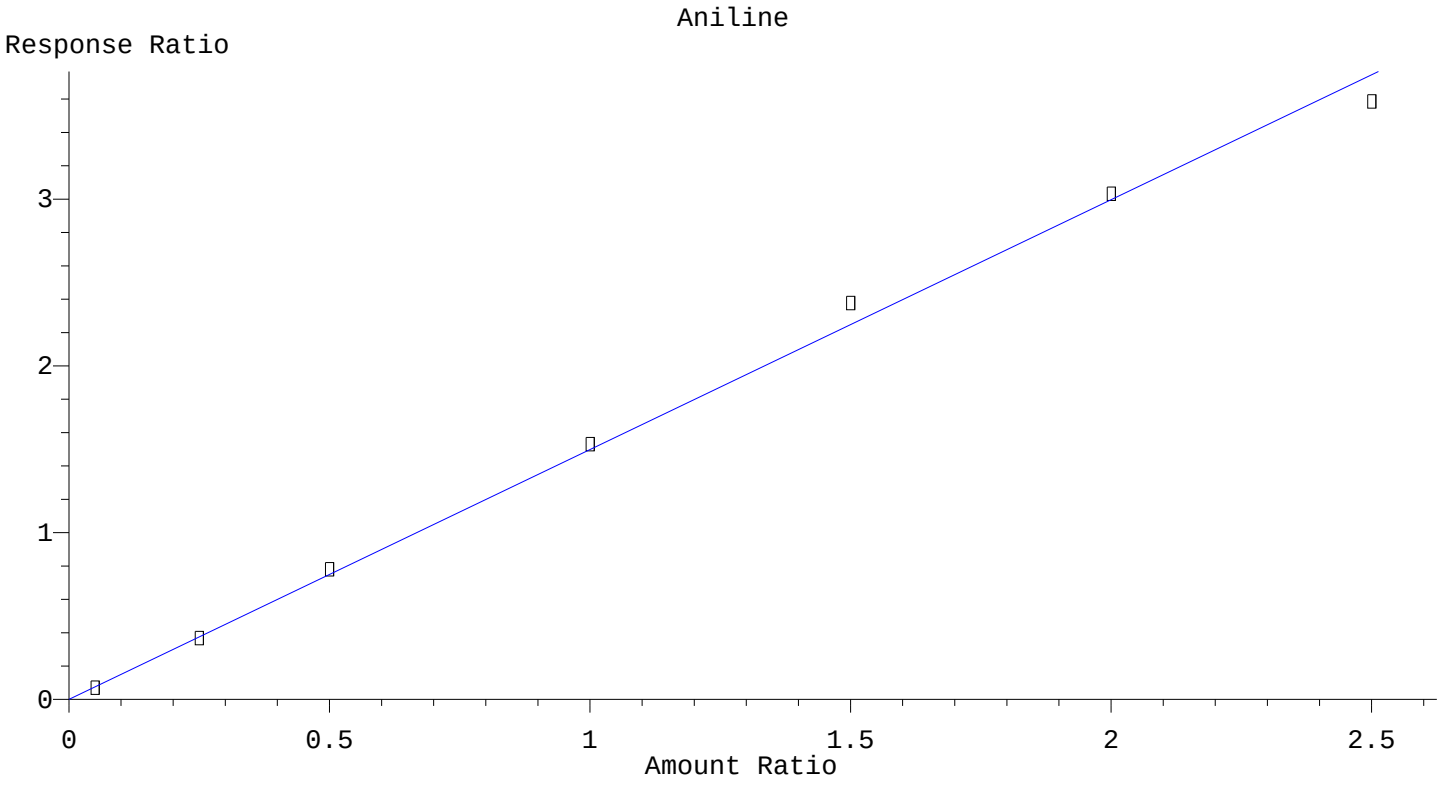
Resp Ratio = 6.70e-001 * Amt
RF Rel Std Dev = 10.3% Curve Fit: Avg RF



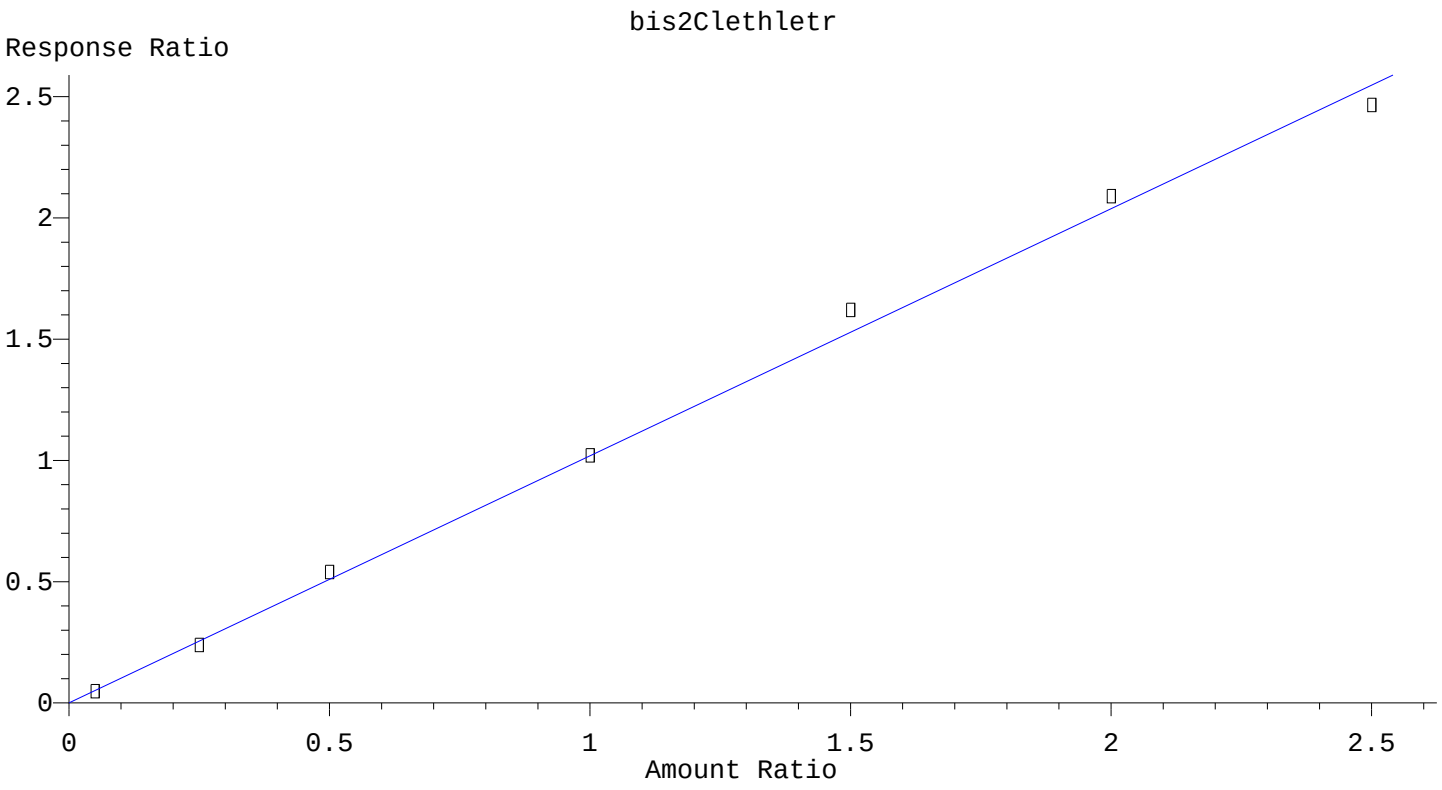
Resp Ratio = 1.18e+000 * Amt
RF Rel Std Dev = 7.7% Curve Fit: Avg RF



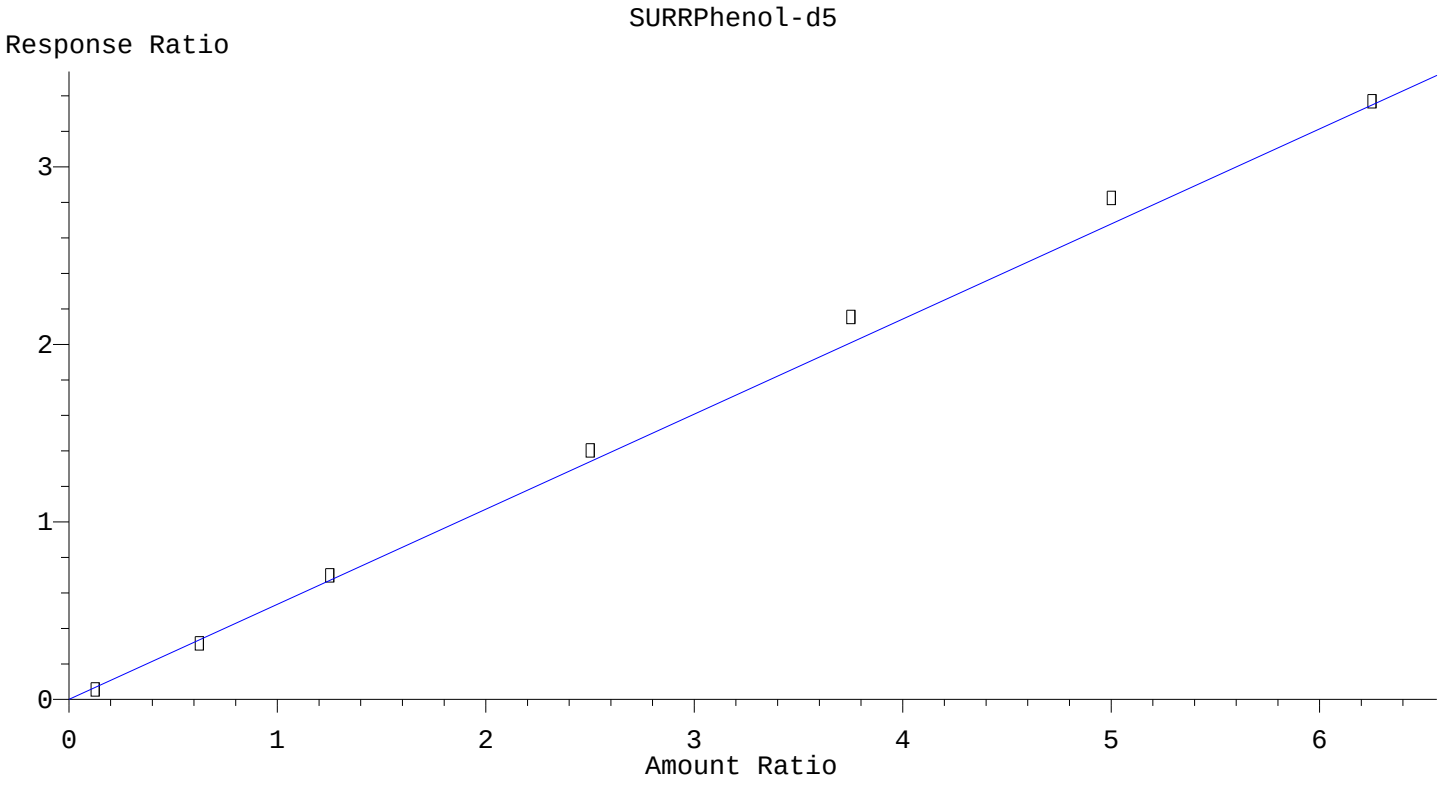
Resp Ratio = 4.63e-001 * Amt
RF Rel Std Dev = 6.5% Curve Fit: Avg RF



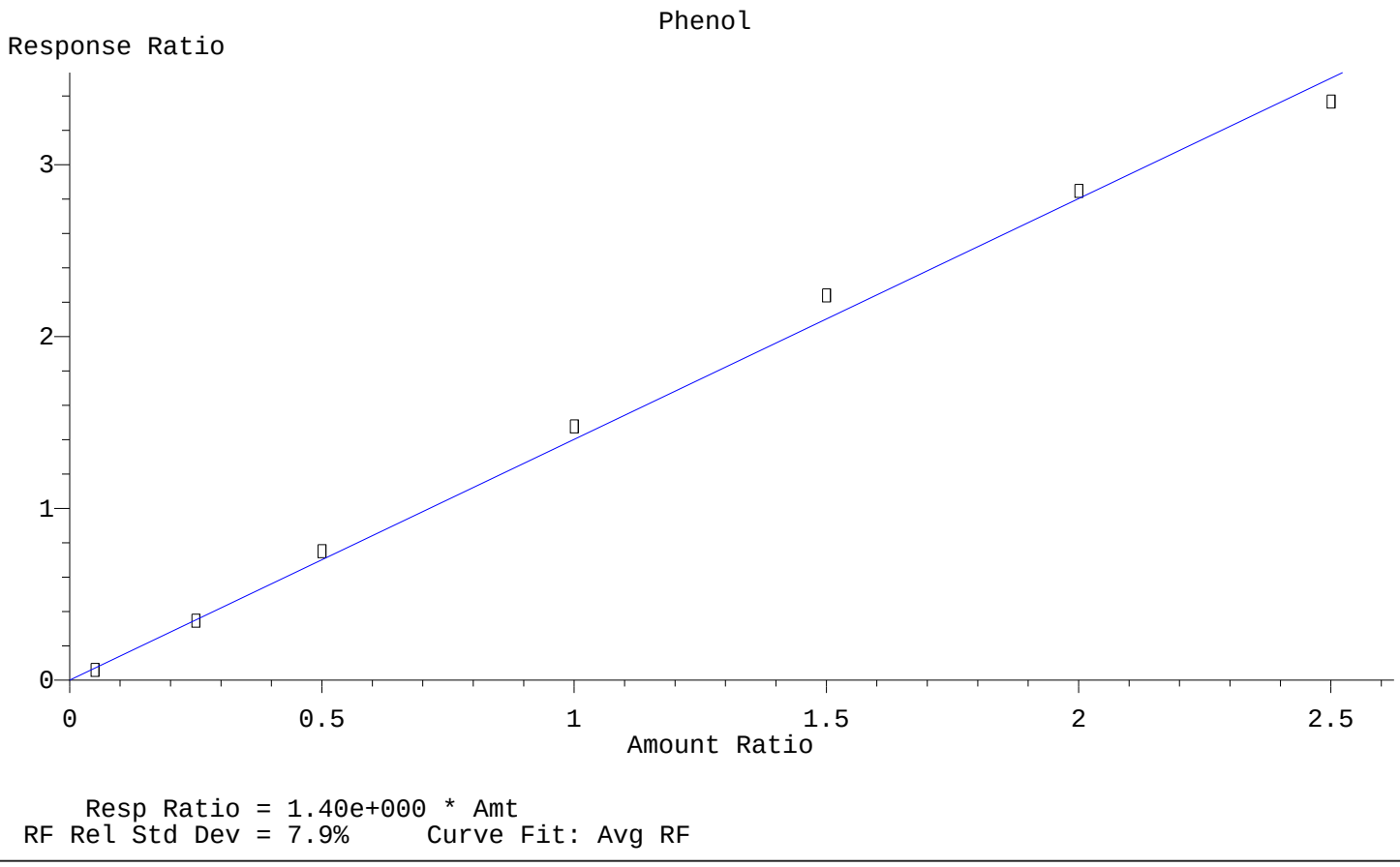
Resp Ratio = 1.50e+000 * Amt
RF Rel Std Dev = 4.6% Curve Fit: Avg RF



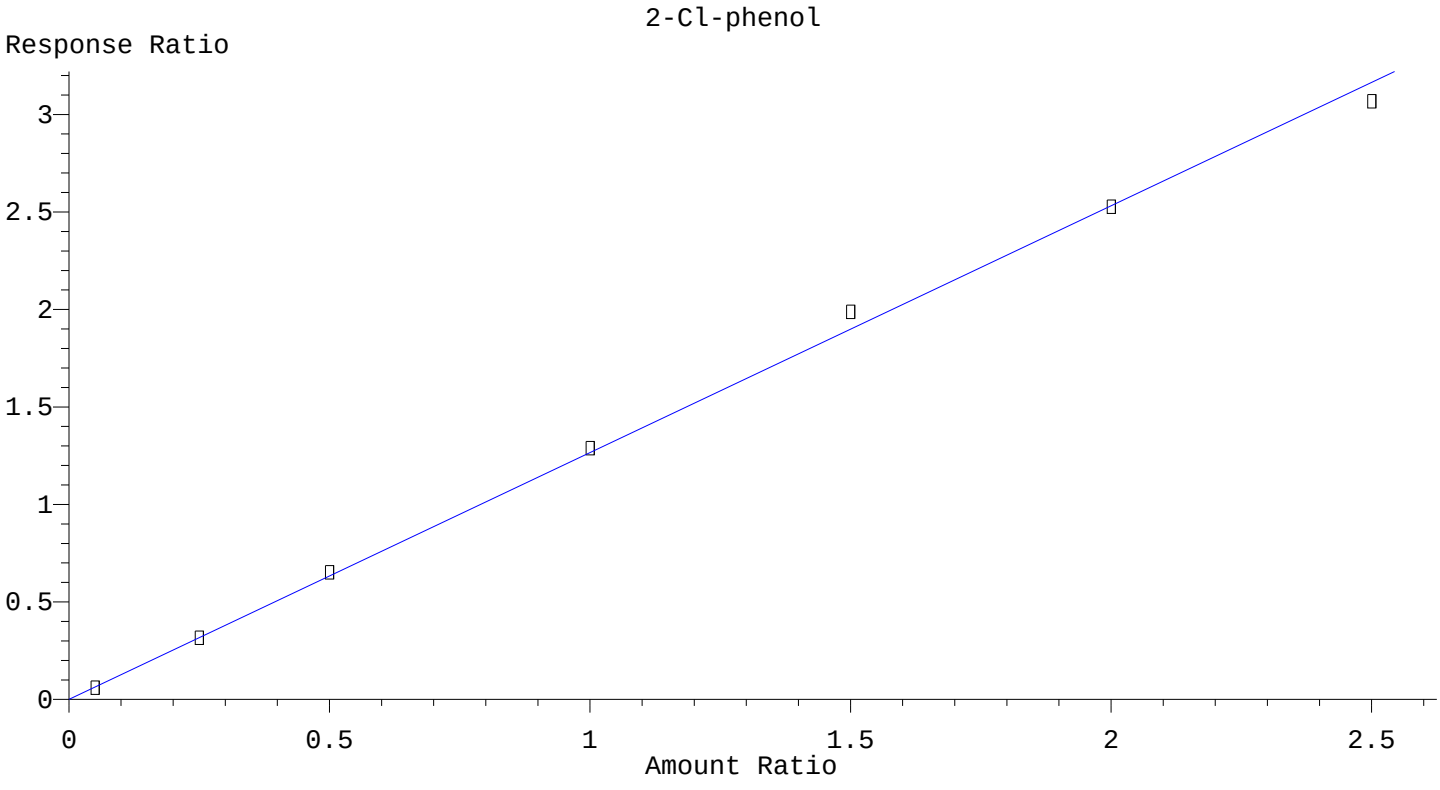
Resp Ratio = 1.02e+000 * Amt
RF Rel Std Dev = 5.1% Curve Fit: Avg RF



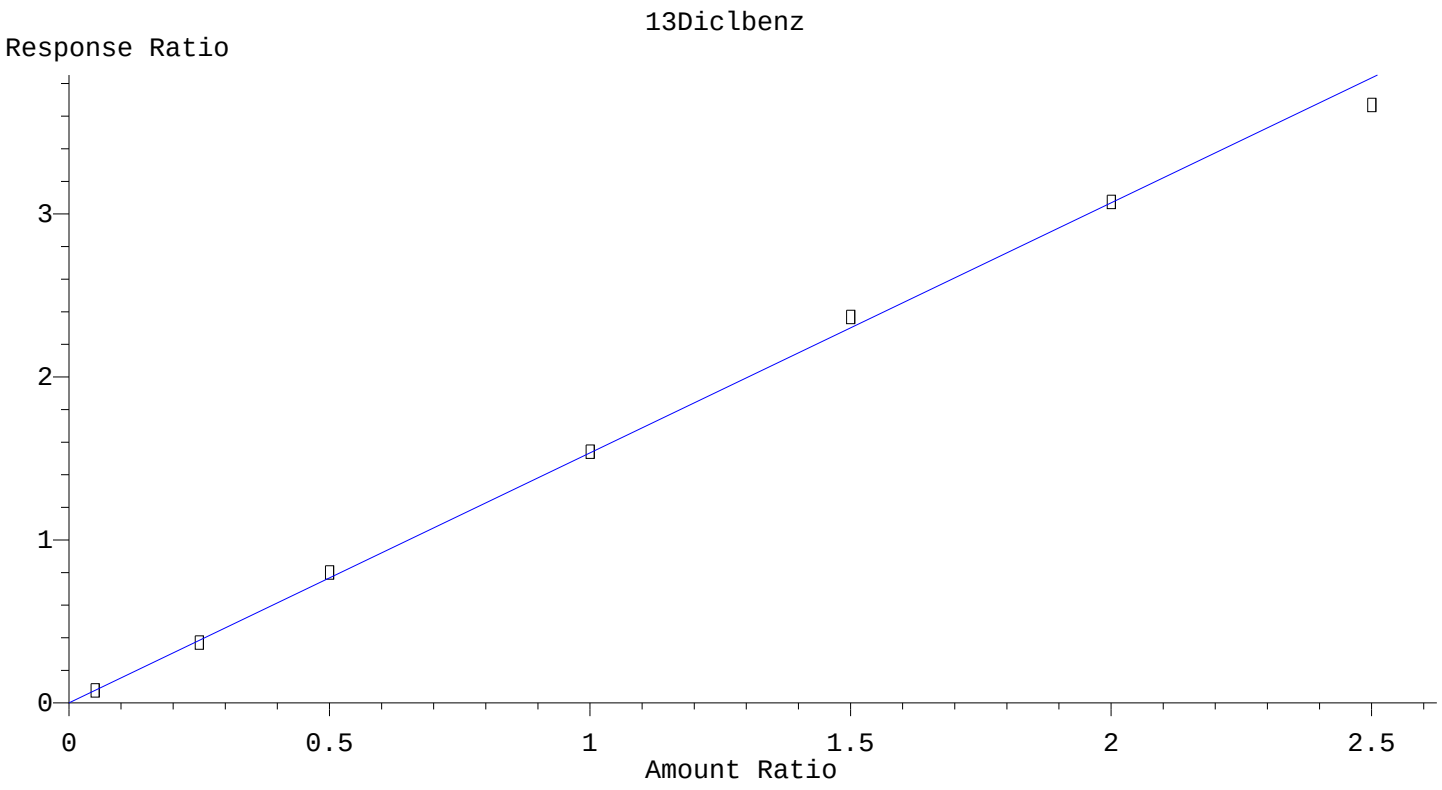
Resp Ratio = 5.36e-001 * Amt
RF Rel Std Dev = 8.5% Curve Fit: Avg RF



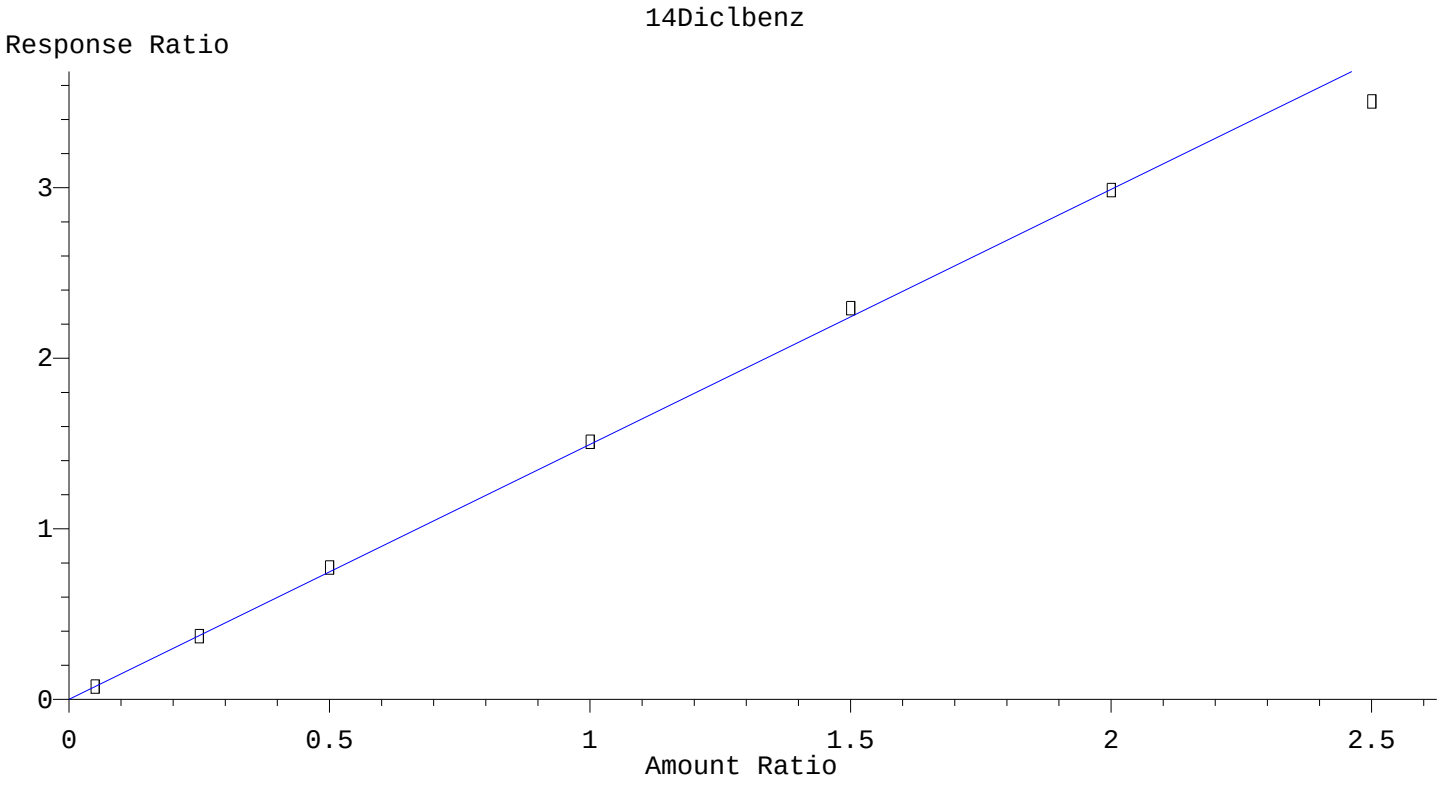
Resp Ratio = 1.40e+000 * Amt
RF Rel Std Dev = 7.9% Curve Fit: Avg RF



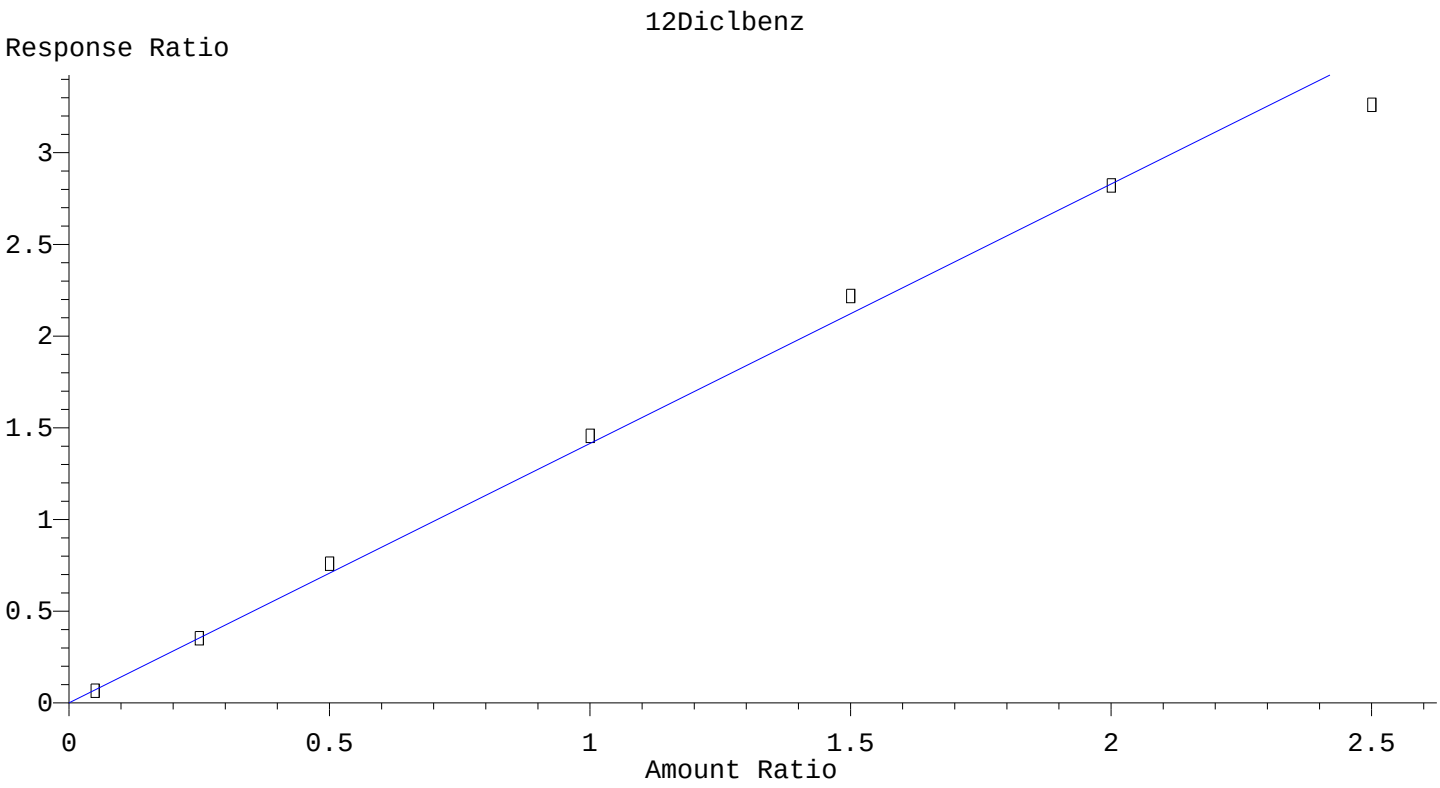
Resp Ratio = 1.27e+000 * Amt
RF Rel Std Dev = 3.5% Curve Fit: Avg RF



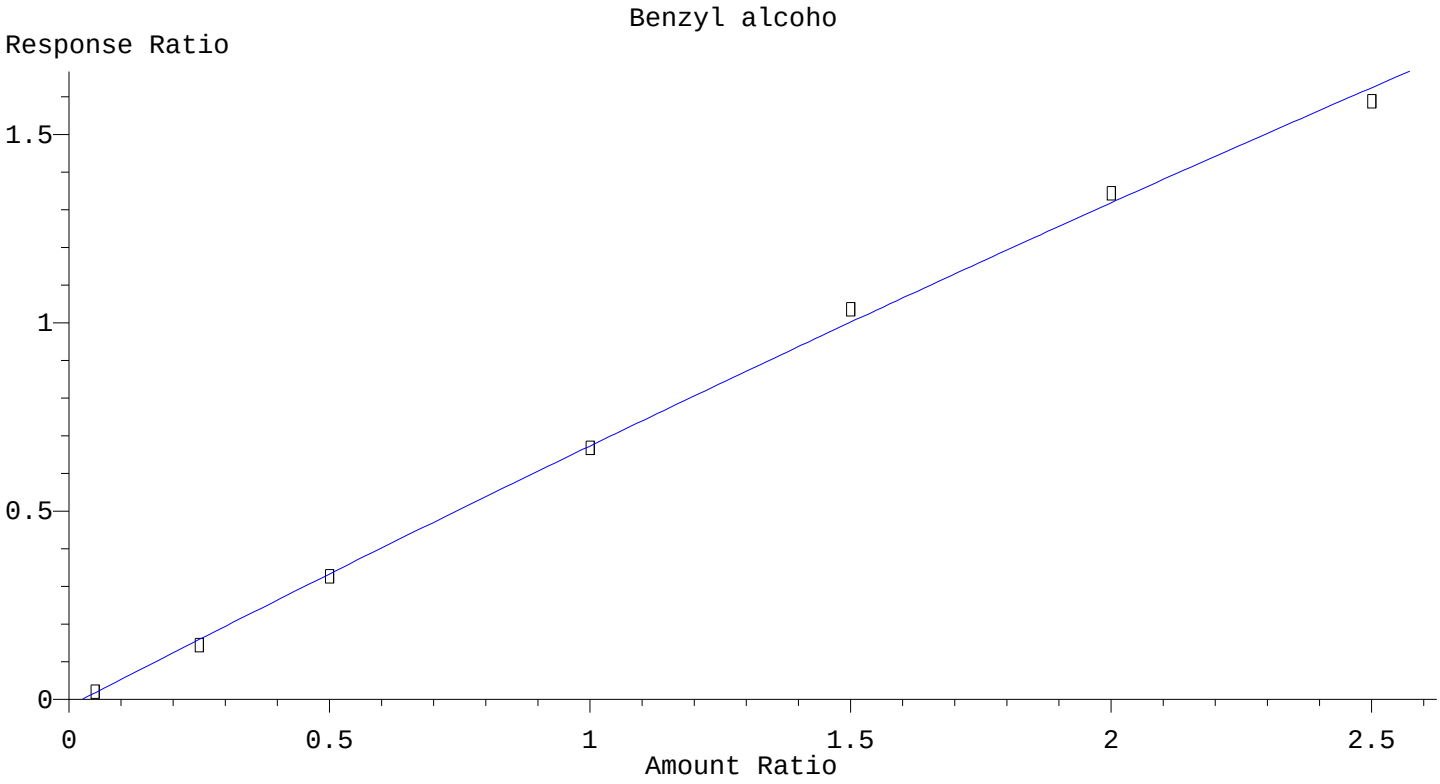
Resp Ratio = 1.53e+000 * Amt
RF Rel Std Dev = 3.1% Curve Fit: Avg RF



Resp Ratio = 1.50e+000 * Amt
RF Rel Std Dev = 3.1% Curve Fit: Avg RF

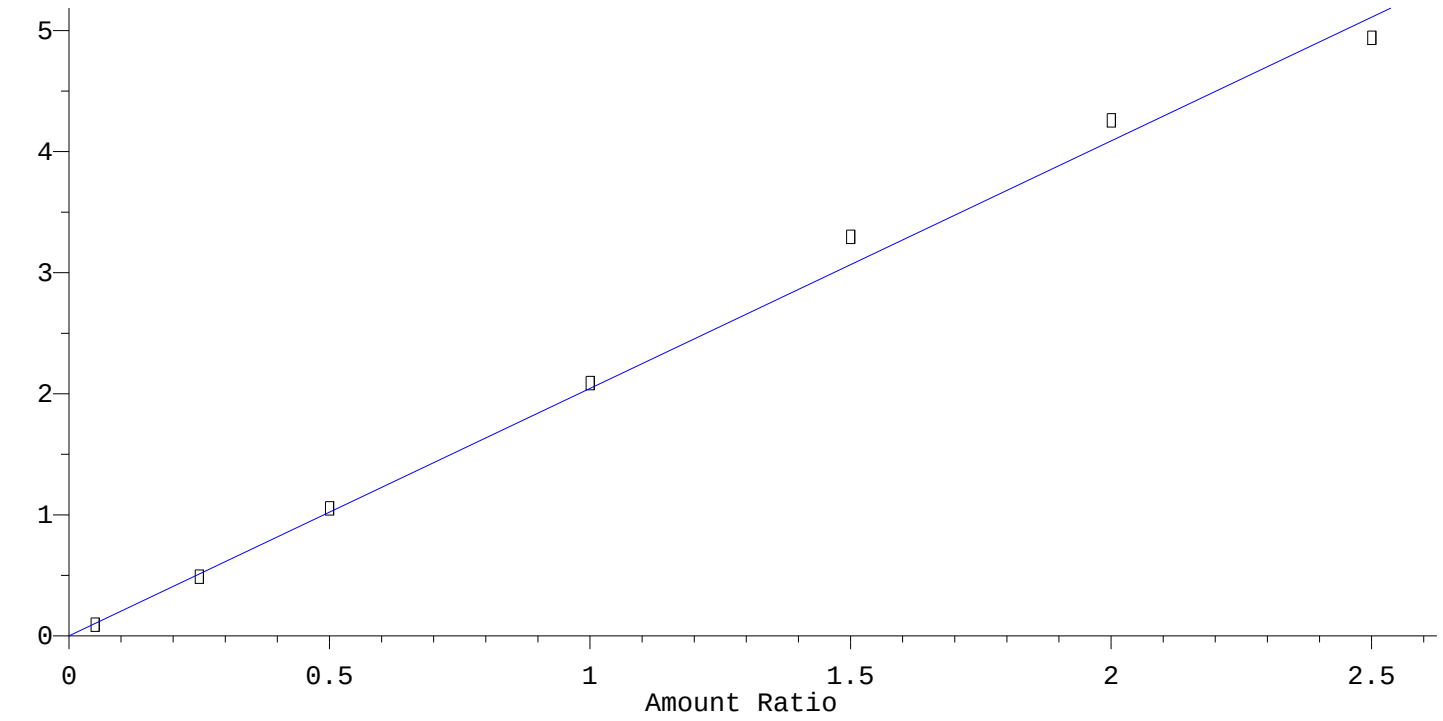


Resp Ratio = 1.41e+000 * Amt
RF Rel Std Dev = 5.5% Curve Fit: Avg RF



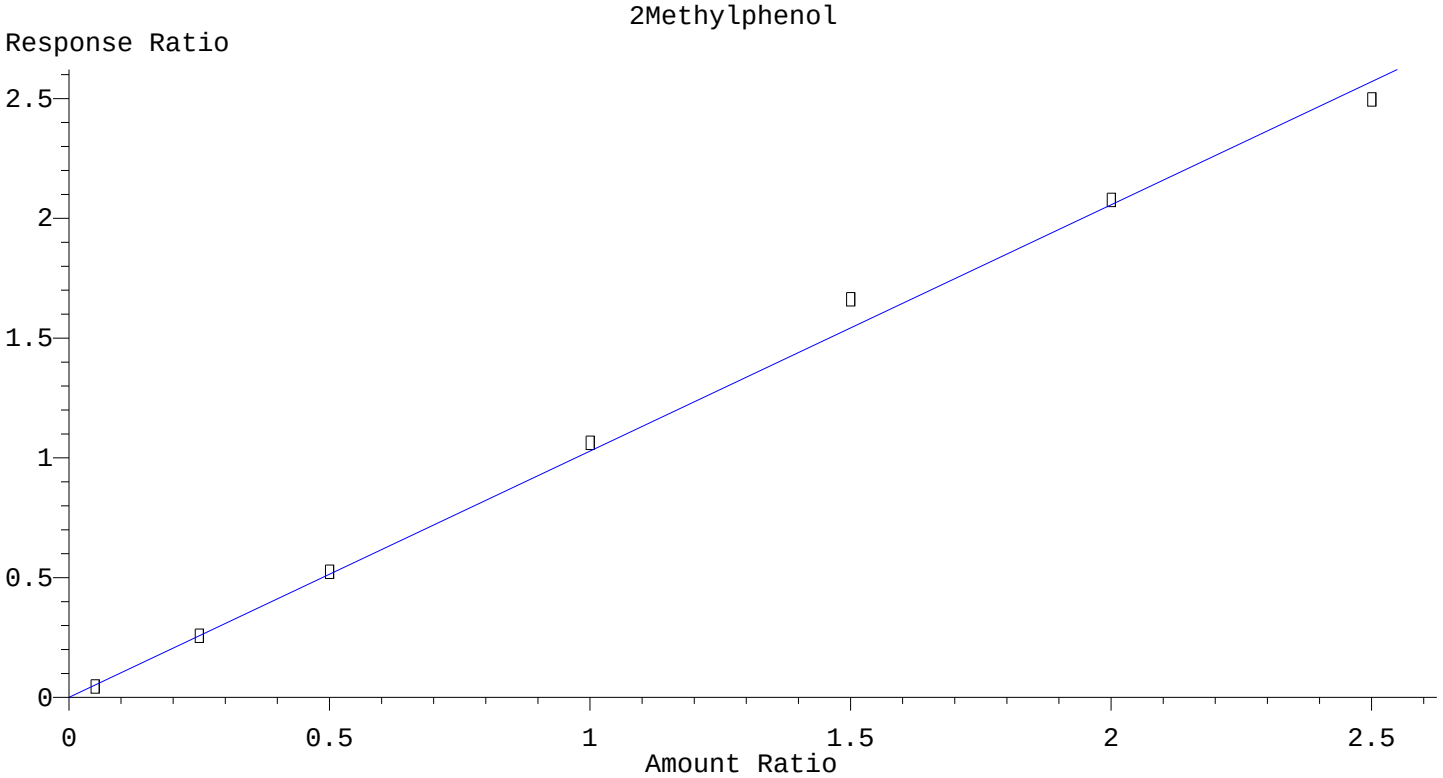
R = -2.28e-002 A*A + 7.14e-001 A - 1.81e-002
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)

bis2clispreth

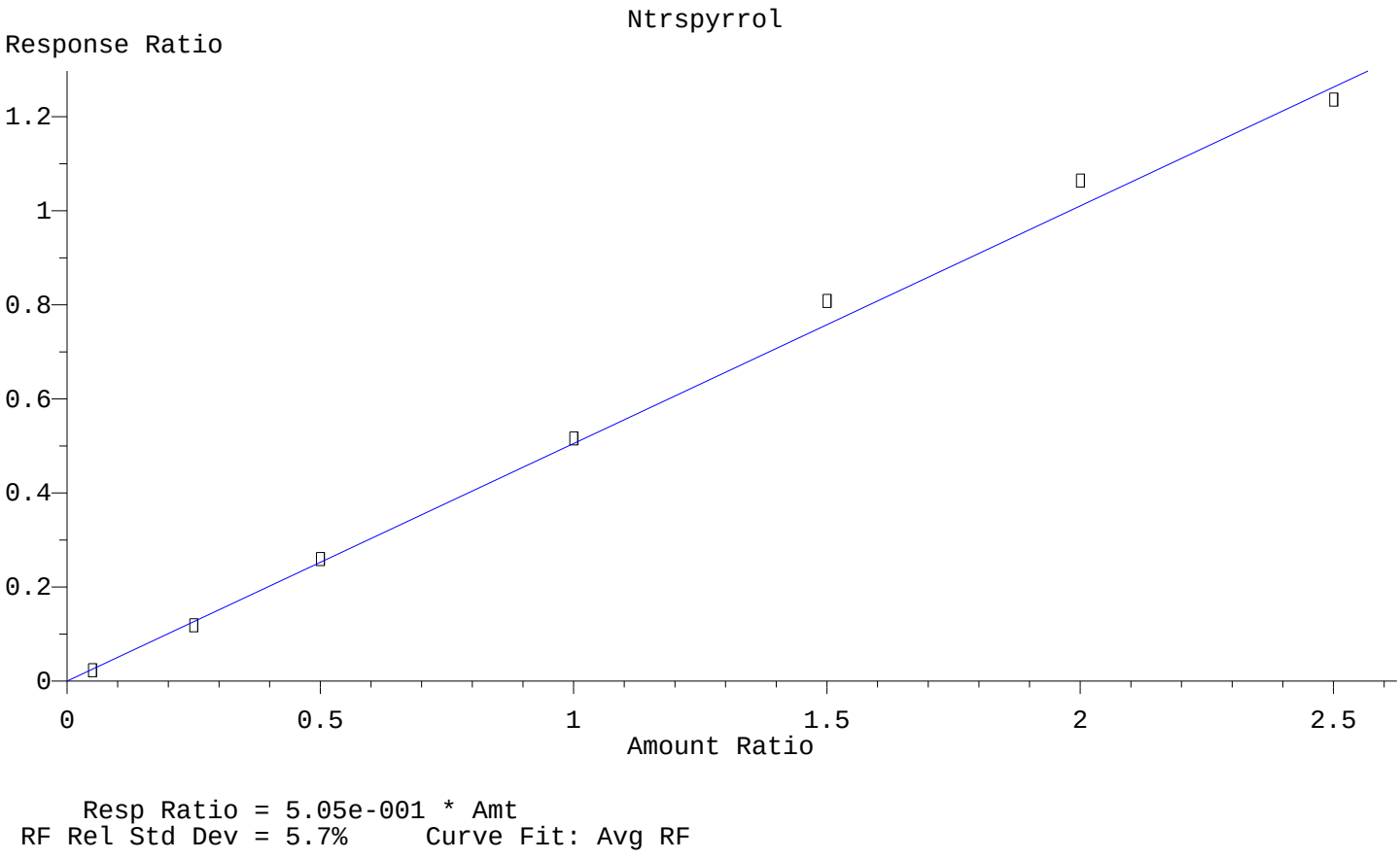


Resp Ratio = 2.04e+000 * Amt
RF Rel Std Dev = 5.7% Curve Fit: Avg RF

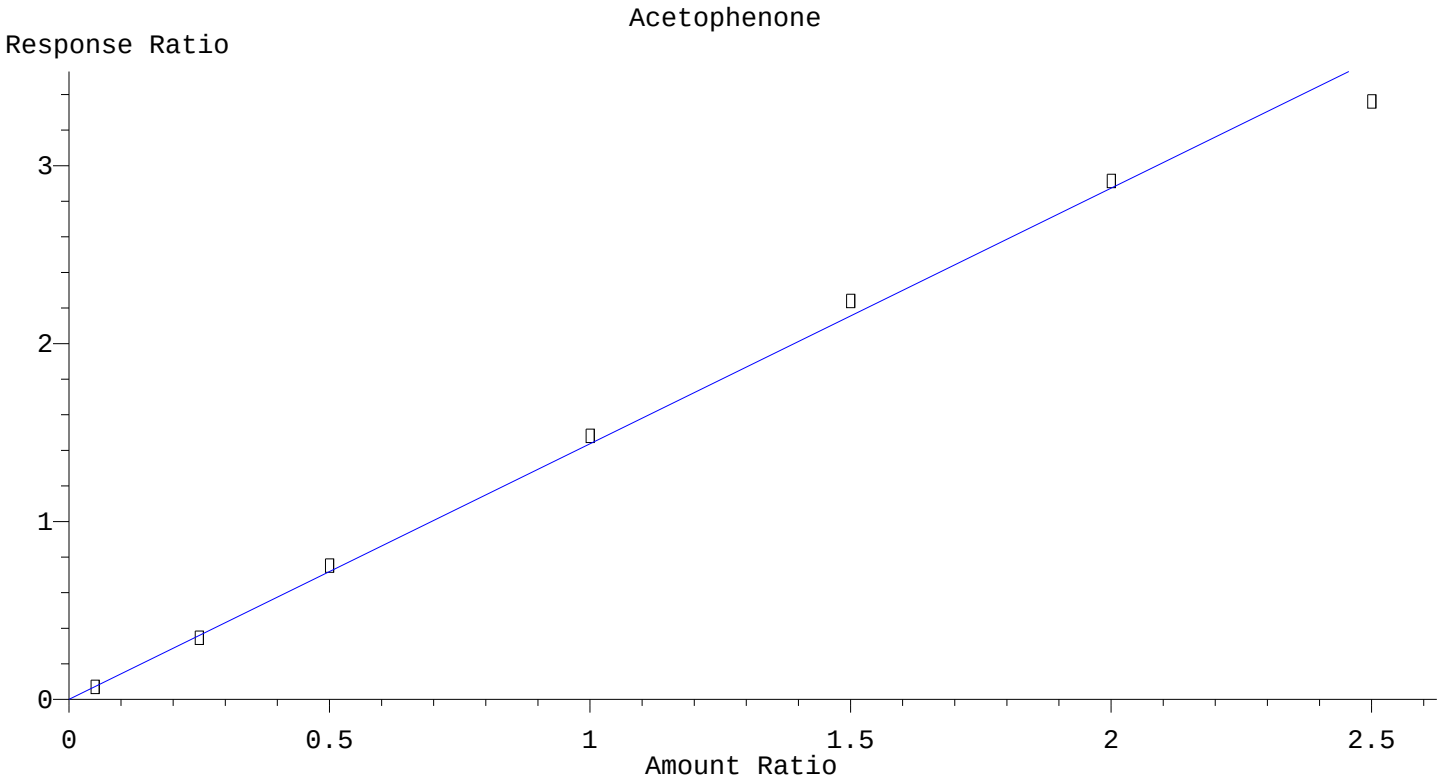
2Methylphenol



Resp Ratio = 1.03e+000 * Amt
RF Rel Std Dev = 5.9% Curve Fit: Avg RF

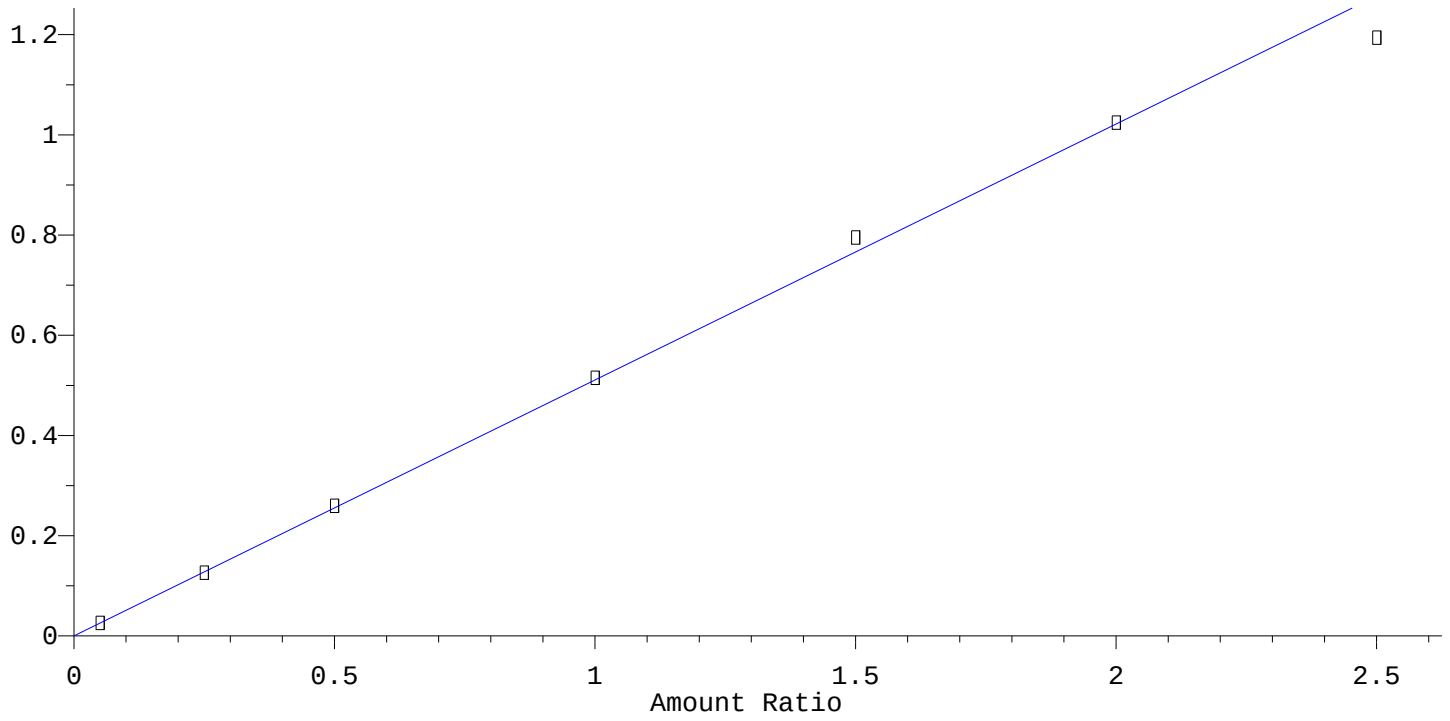


Resp Ratio = 5.05e-001 * Amt
RF Rel Std Dev = 5.7% Curve Fit: Avg RF



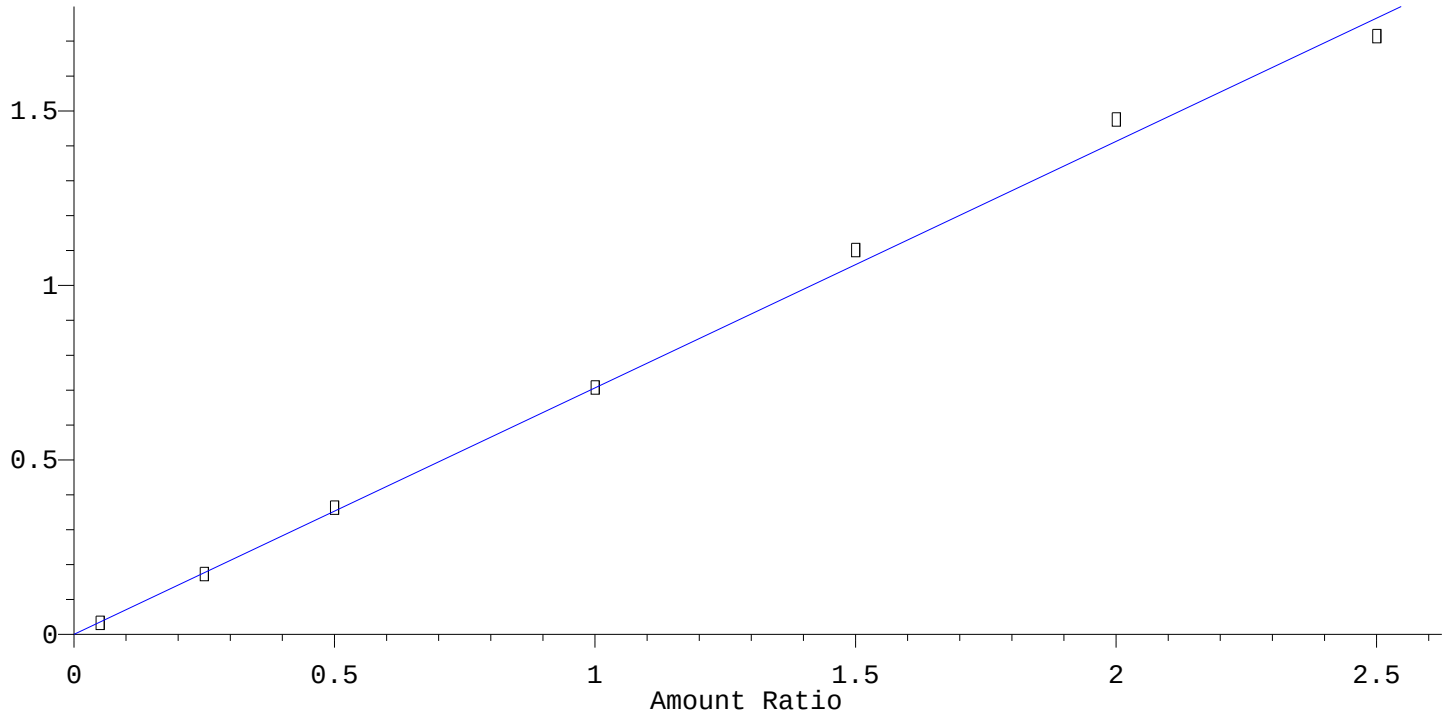
Resp Ratio = 1.44e+000 * Amt
RF Rel Std Dev = 4.3% Curve Fit: Avg RF

Hexaclethane

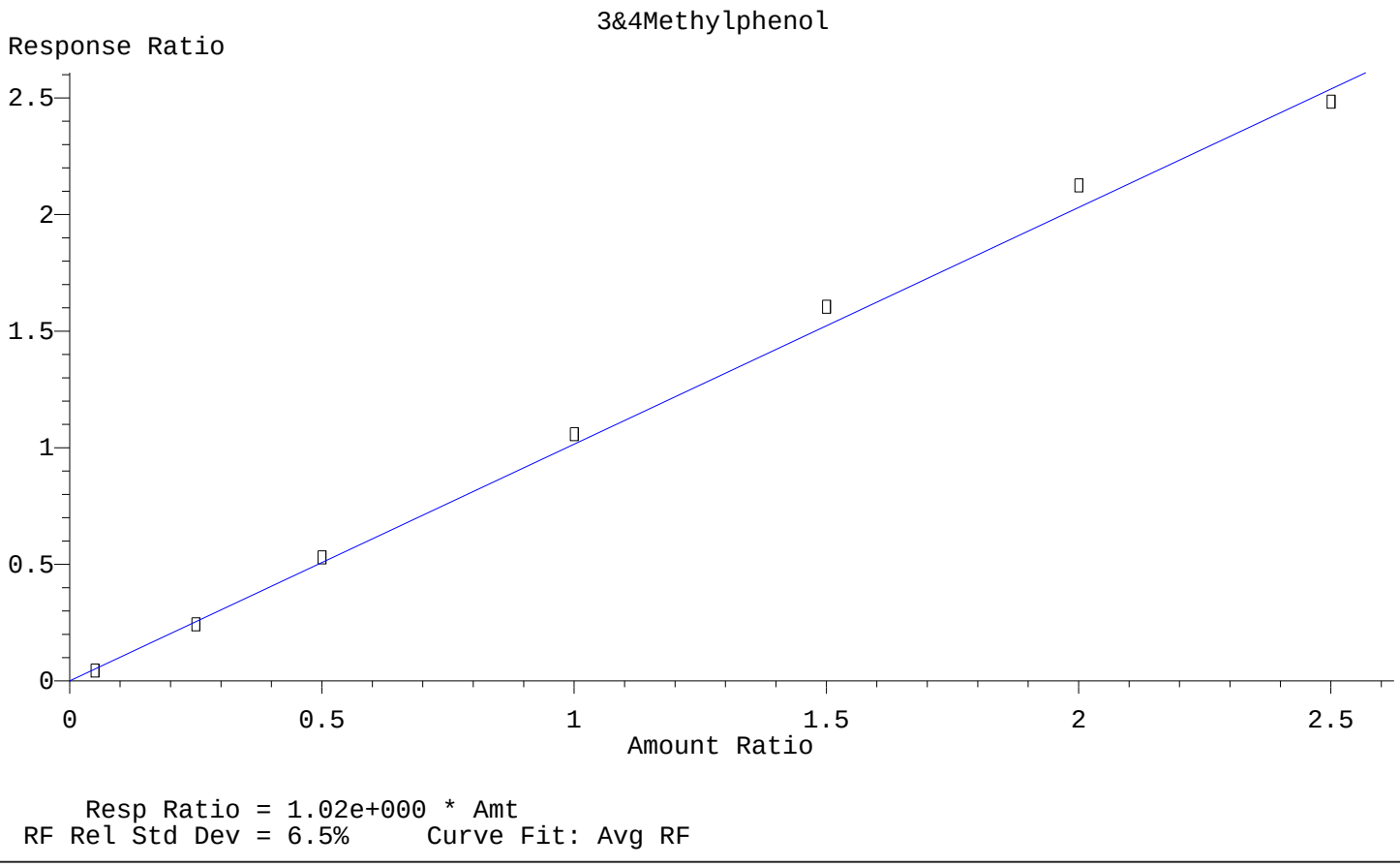


Resp Ratio = 5.11e-001 * Amt
RF Rel Std Dev = 3.3% Curve Fit: Avg RF

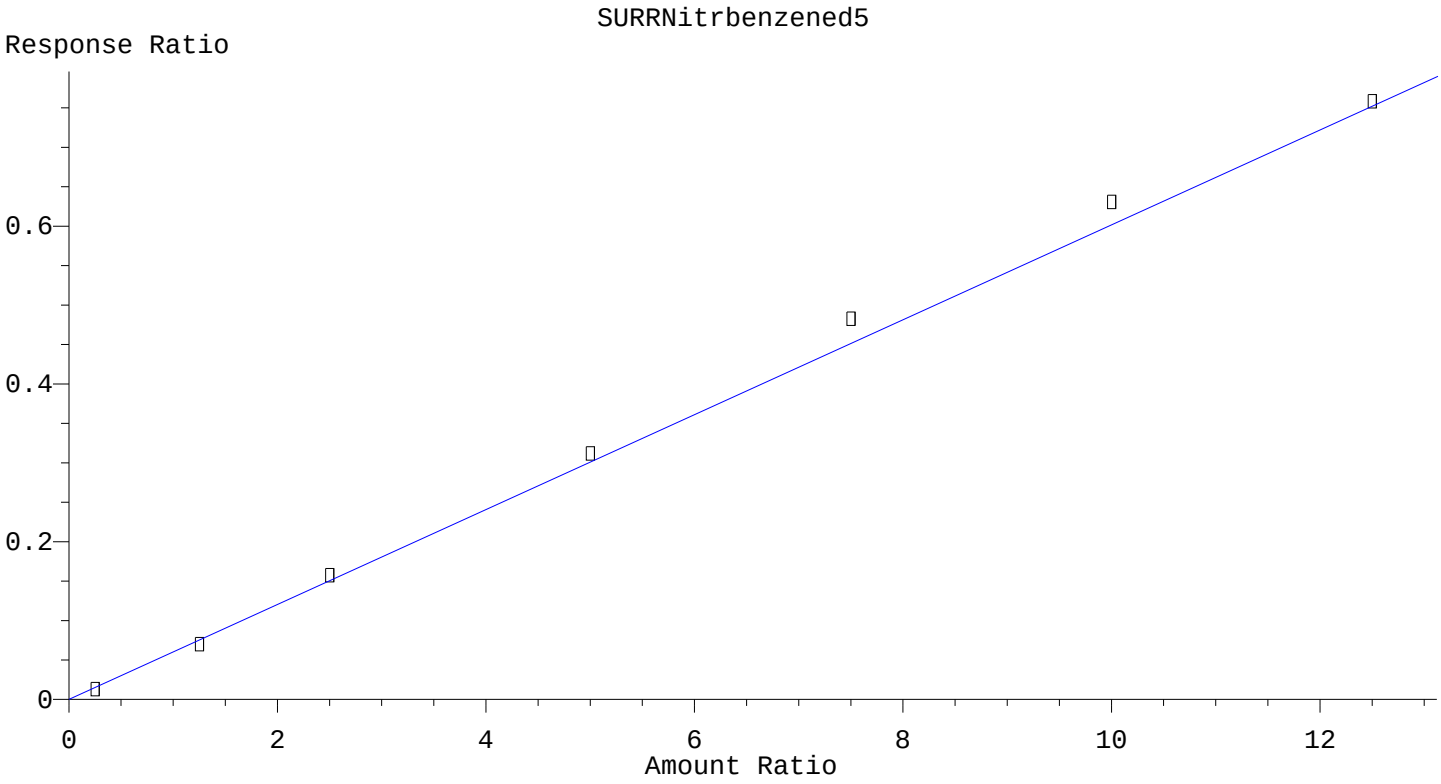
N-Ntrsdinprop



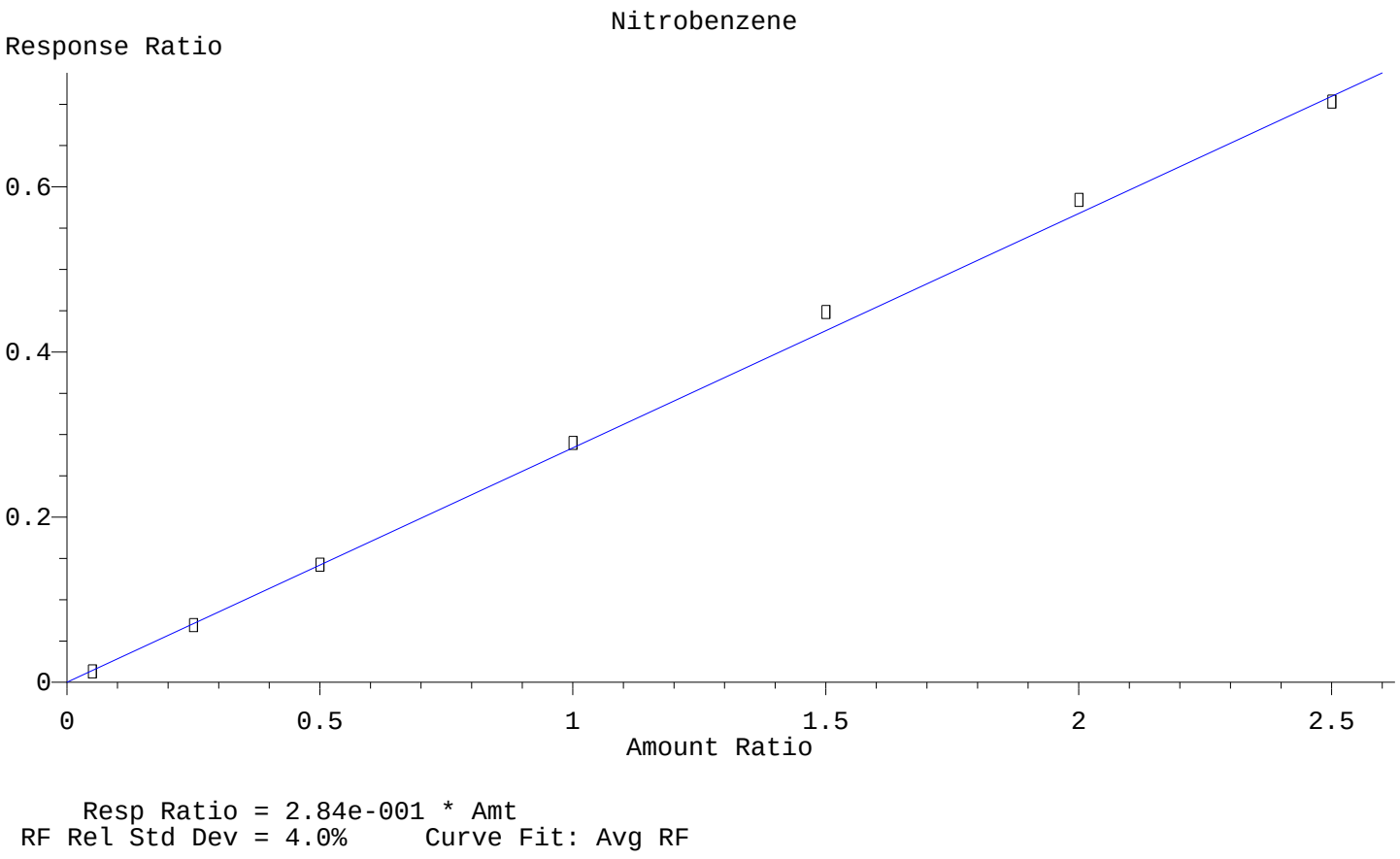
Resp Ratio = 7.07e-001 * Amt
RF Rel Std Dev = 3.9% Curve Fit: Avg RF



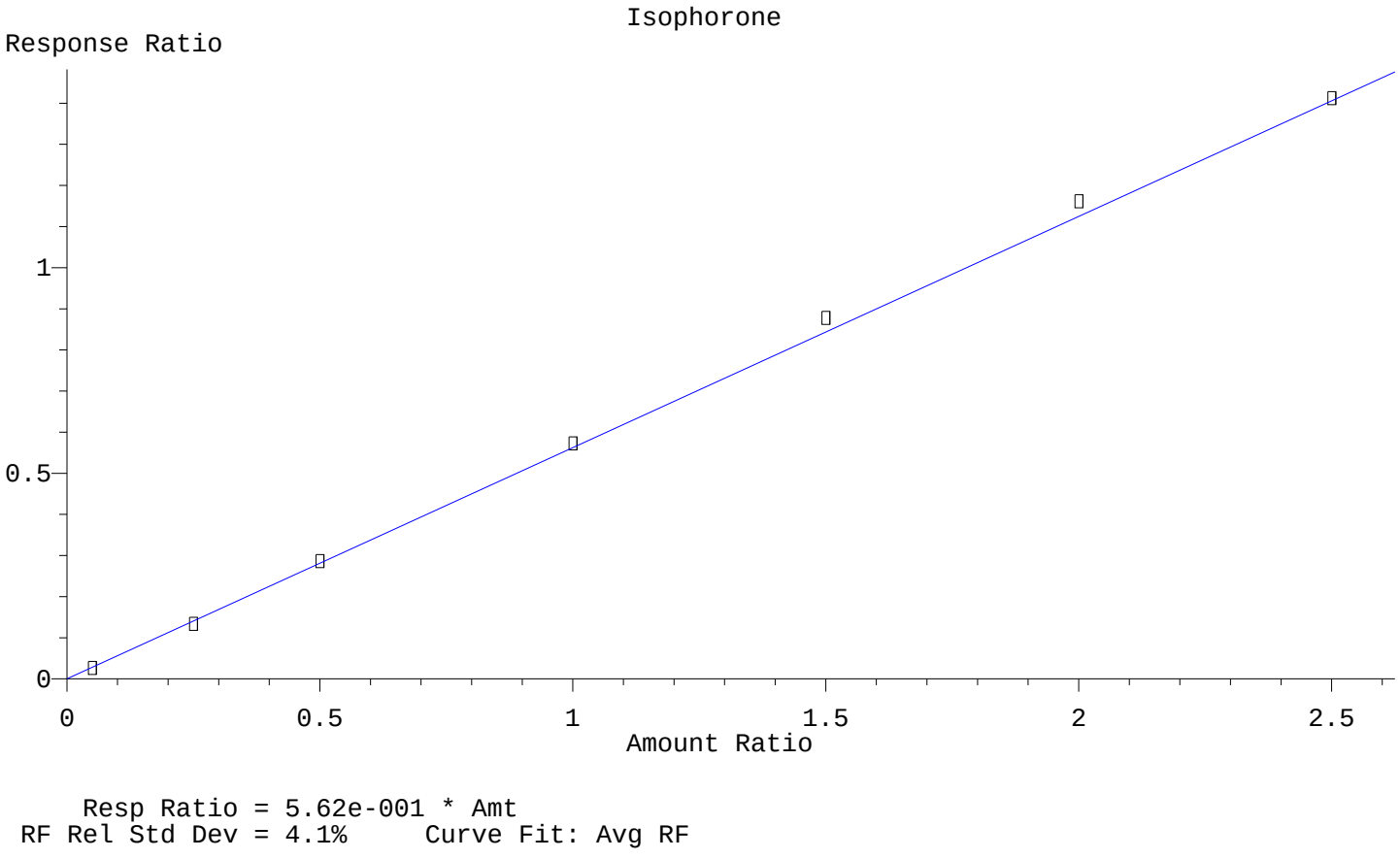
Resp Ratio = 1.02e+000 * Amt
RF Rel Std Dev = 6.5% Curve Fit: Avg RF



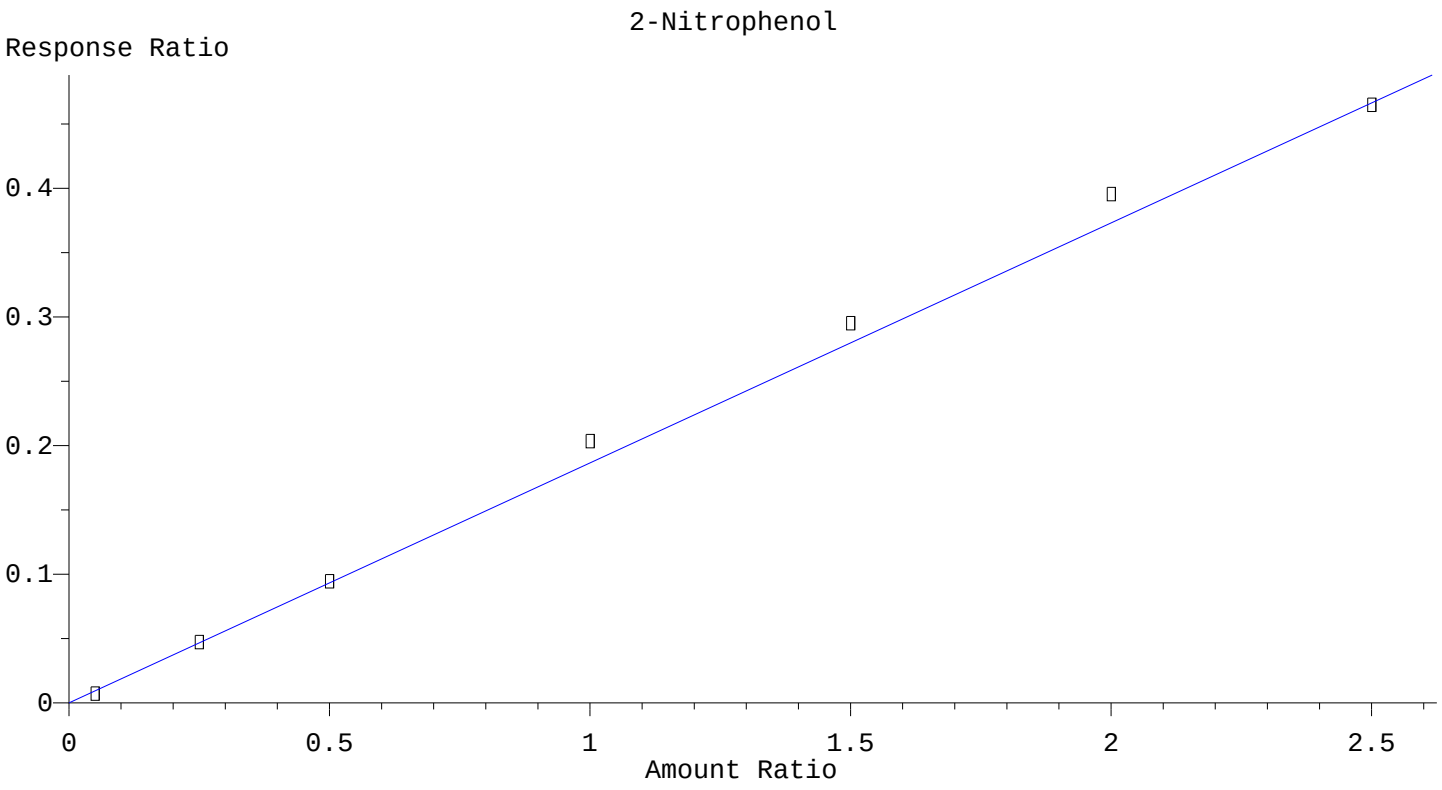
Resp Ratio = 6.02e-002 * Amt
RF Rel Std Dev = 7.6% Curve Fit: Avg RF



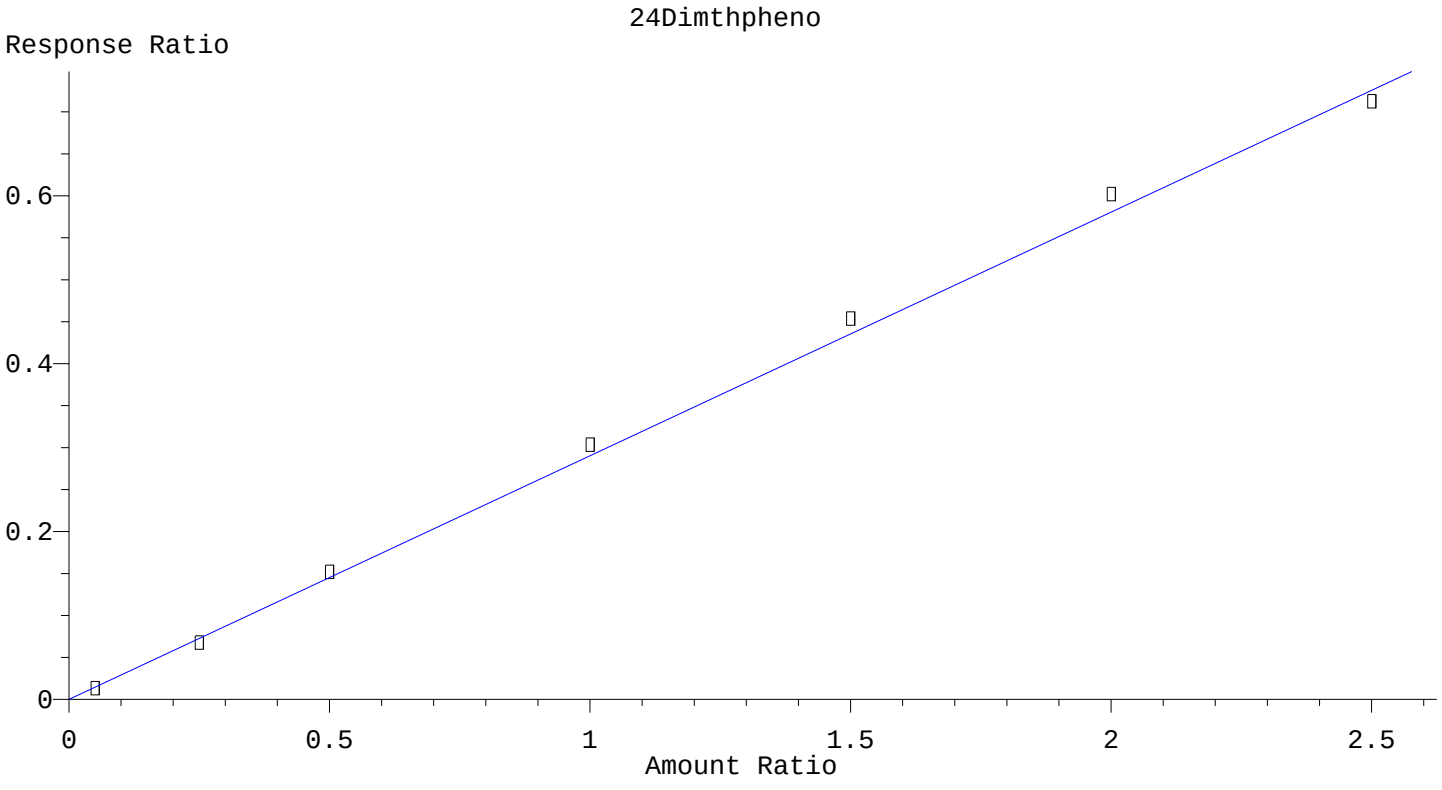
Resp Ratio = 2.84e-001 * Amt
RF Rel Std Dev = 4.0% Curve Fit: Avg RF



Resp Ratio = 5.62e-001 * Amt
RF Rel Std Dev = 4.1% Curve Fit: Avg RF

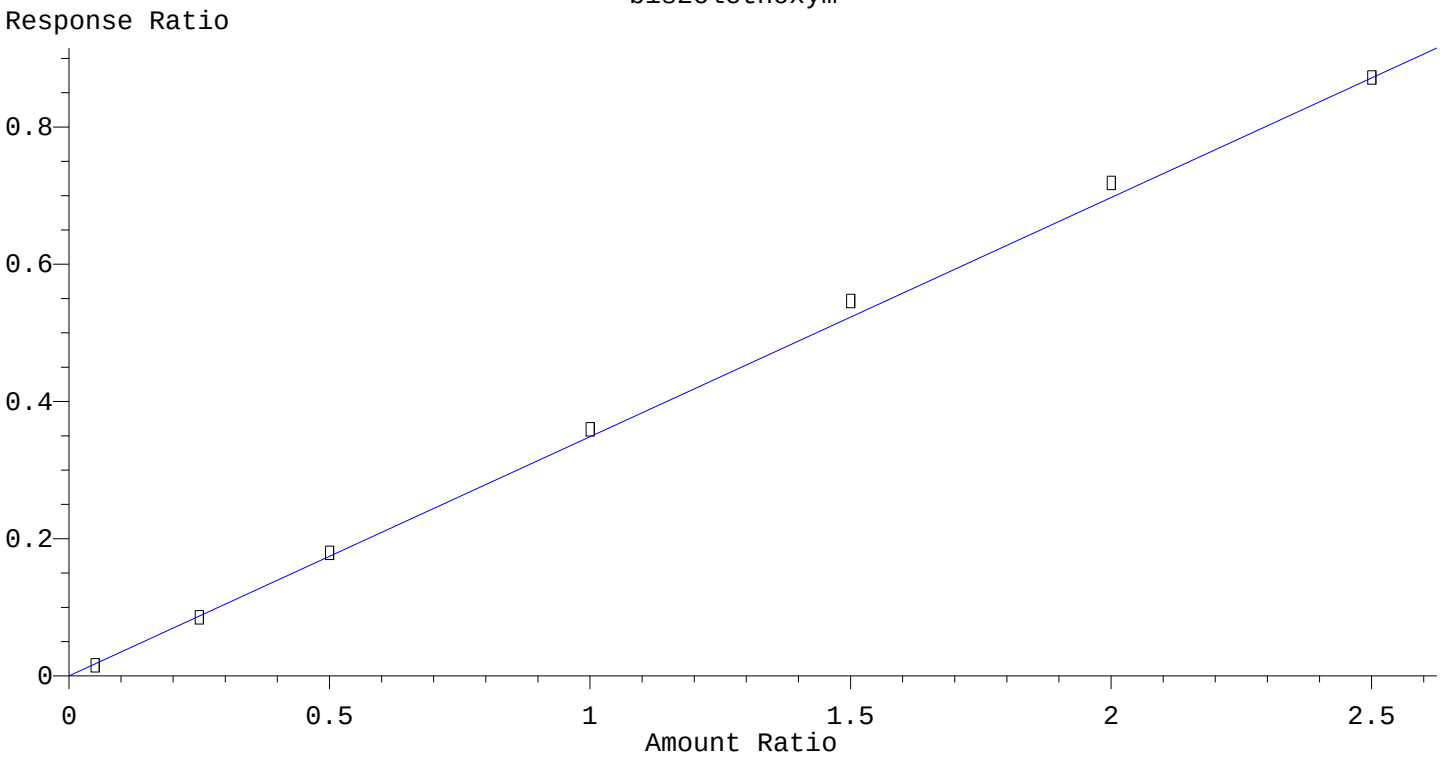


Resp Ratio = 1.87e-001 * Amt
RF Rel Std Dev = 10.5% Curve Fit: Avg RF



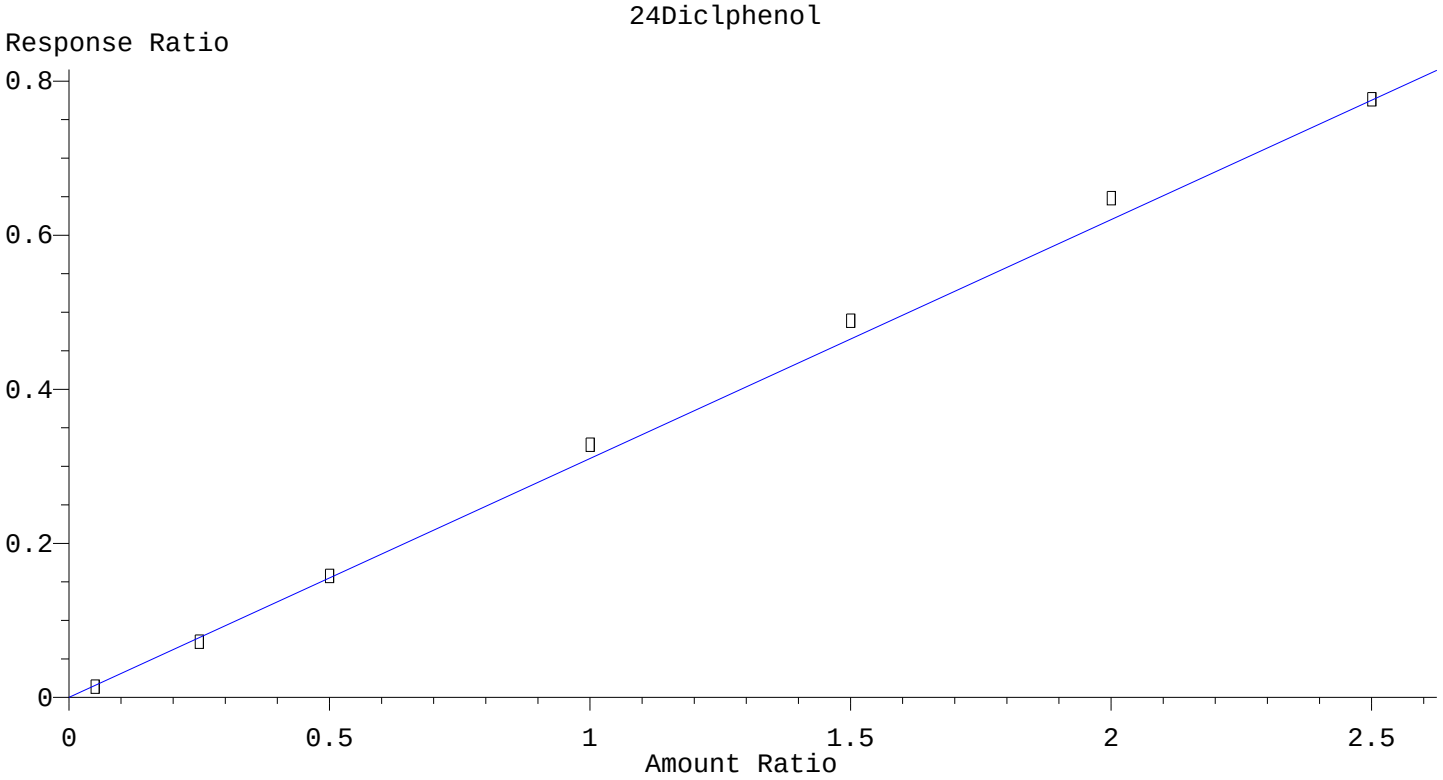
Resp Ratio = 2.90e-001 * Amt
RF Rel Std Dev = 5.7% Curve Fit: Avg RF

bis2clethoxym

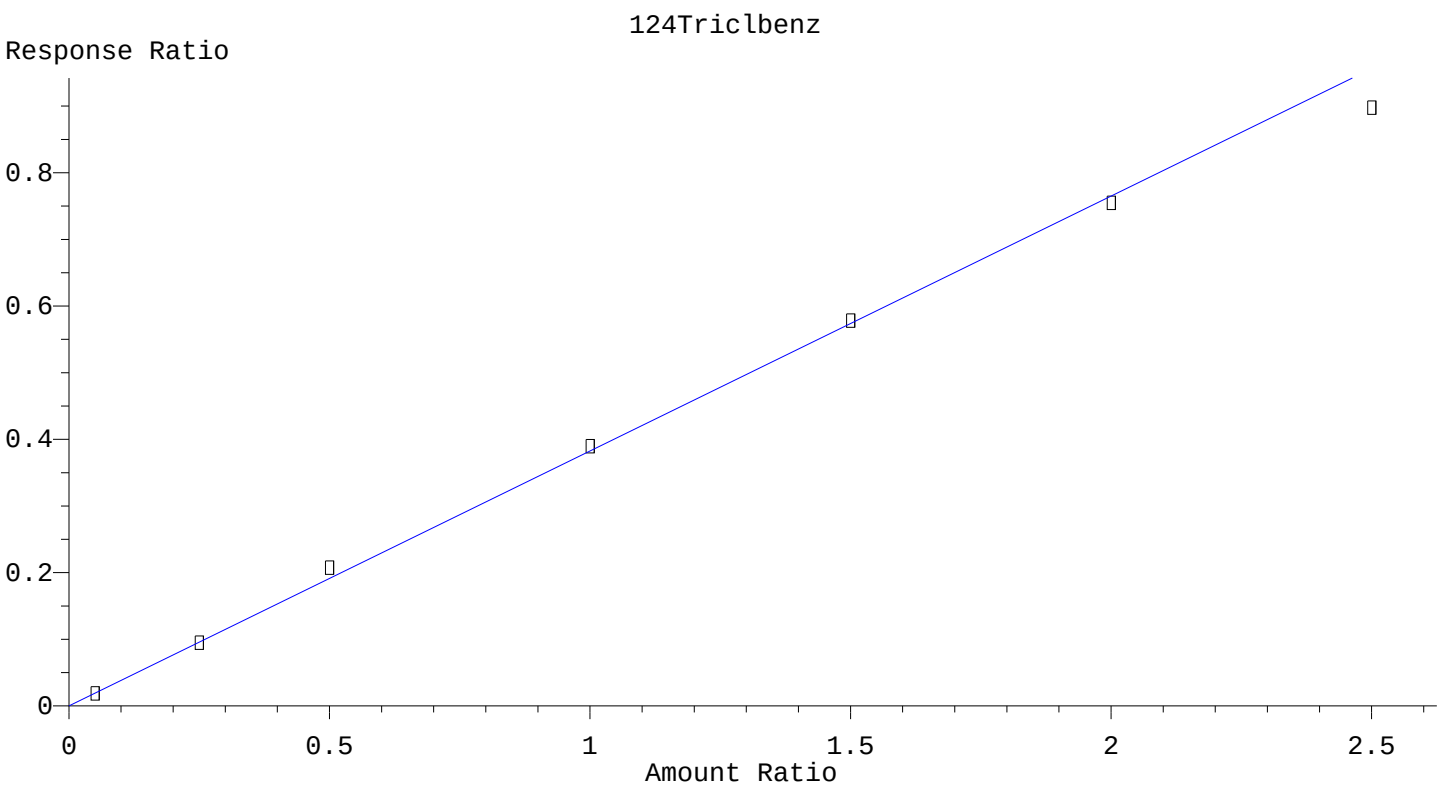


Resp Ratio = 3.49e-001 * Amt
RF Rel Std Dev = 5.5% Curve Fit: Avg RF

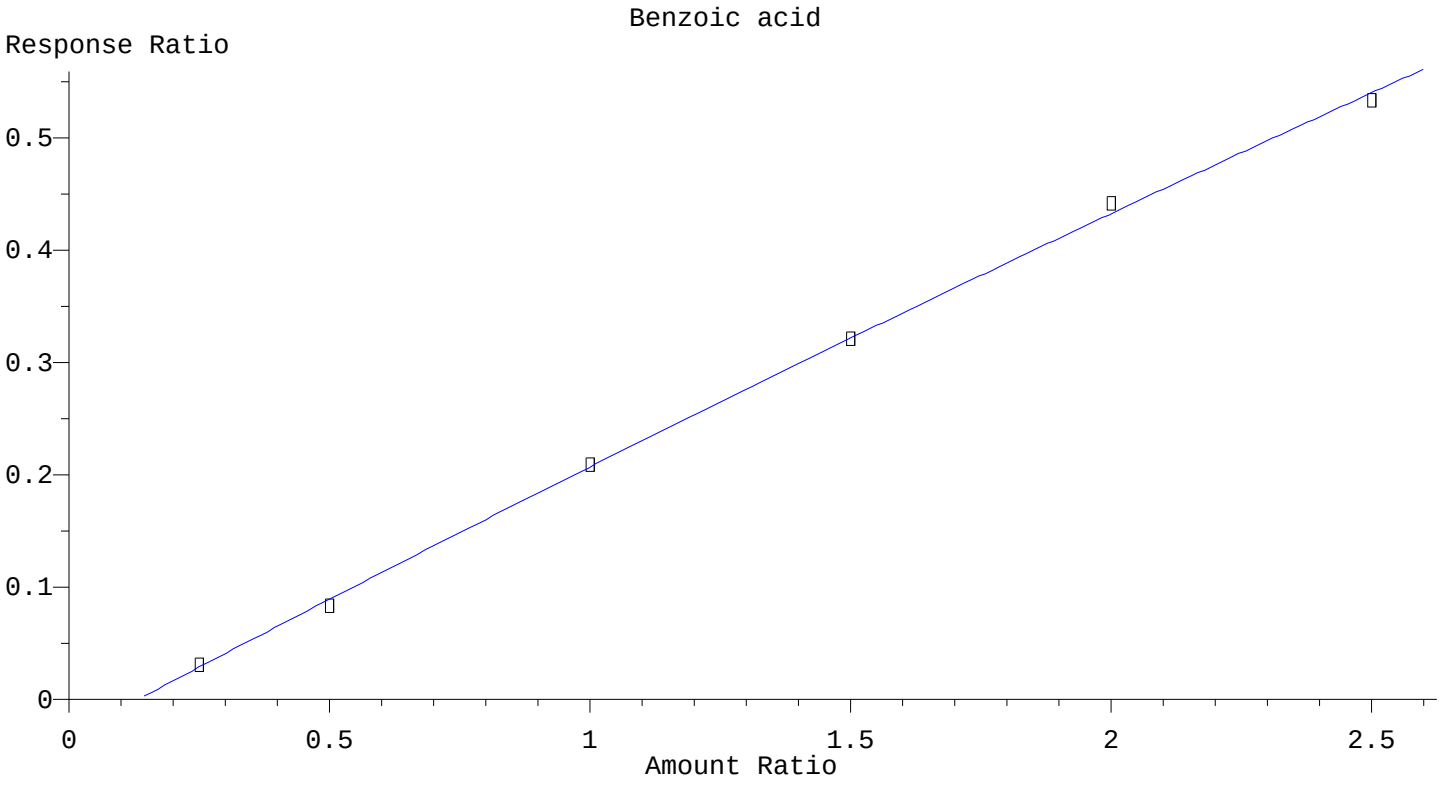
24Diclphenol



Resp Ratio = 3.10e-001 * Amt
RF Rel Std Dev = 6.1% Curve Fit: Avg RF

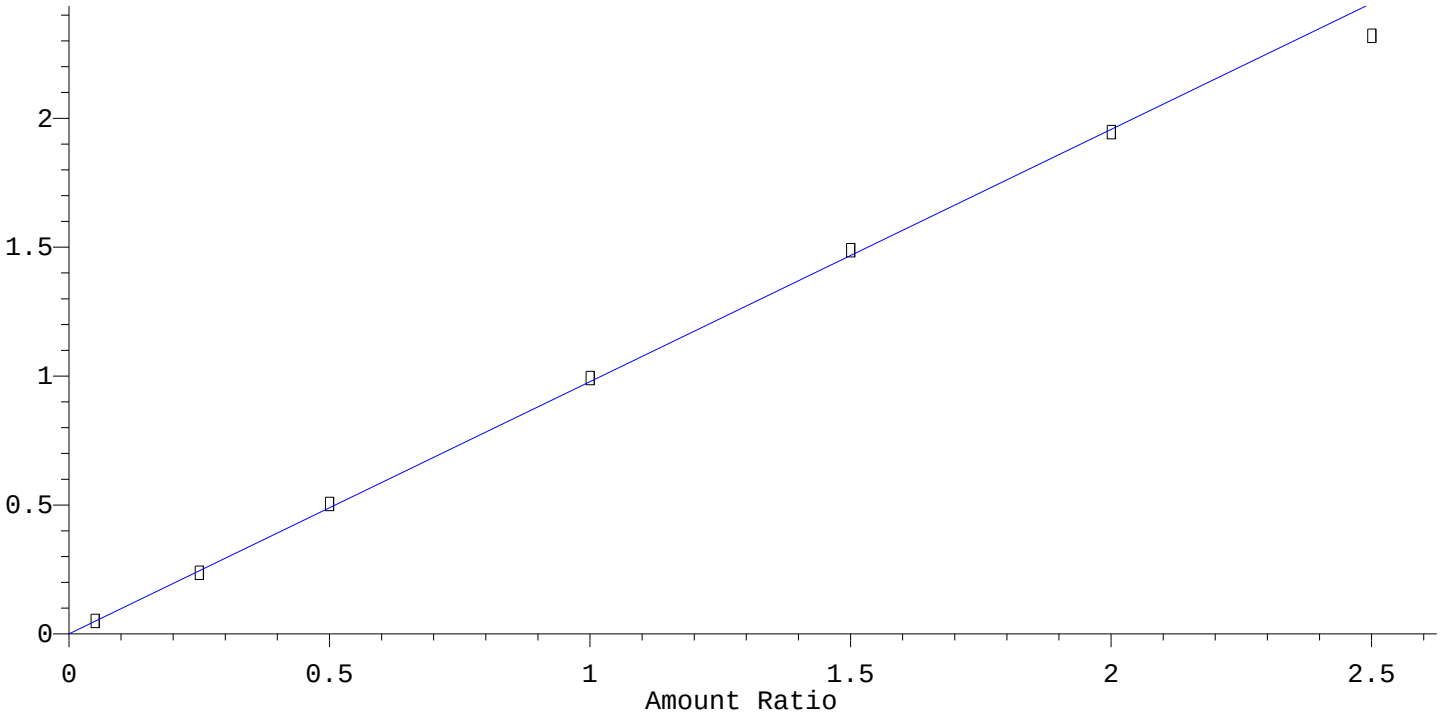


Resp Ratio = 3.83e-001 * Amt
RF Rel Std Dev = 4.5% Curve Fit: Avg RF



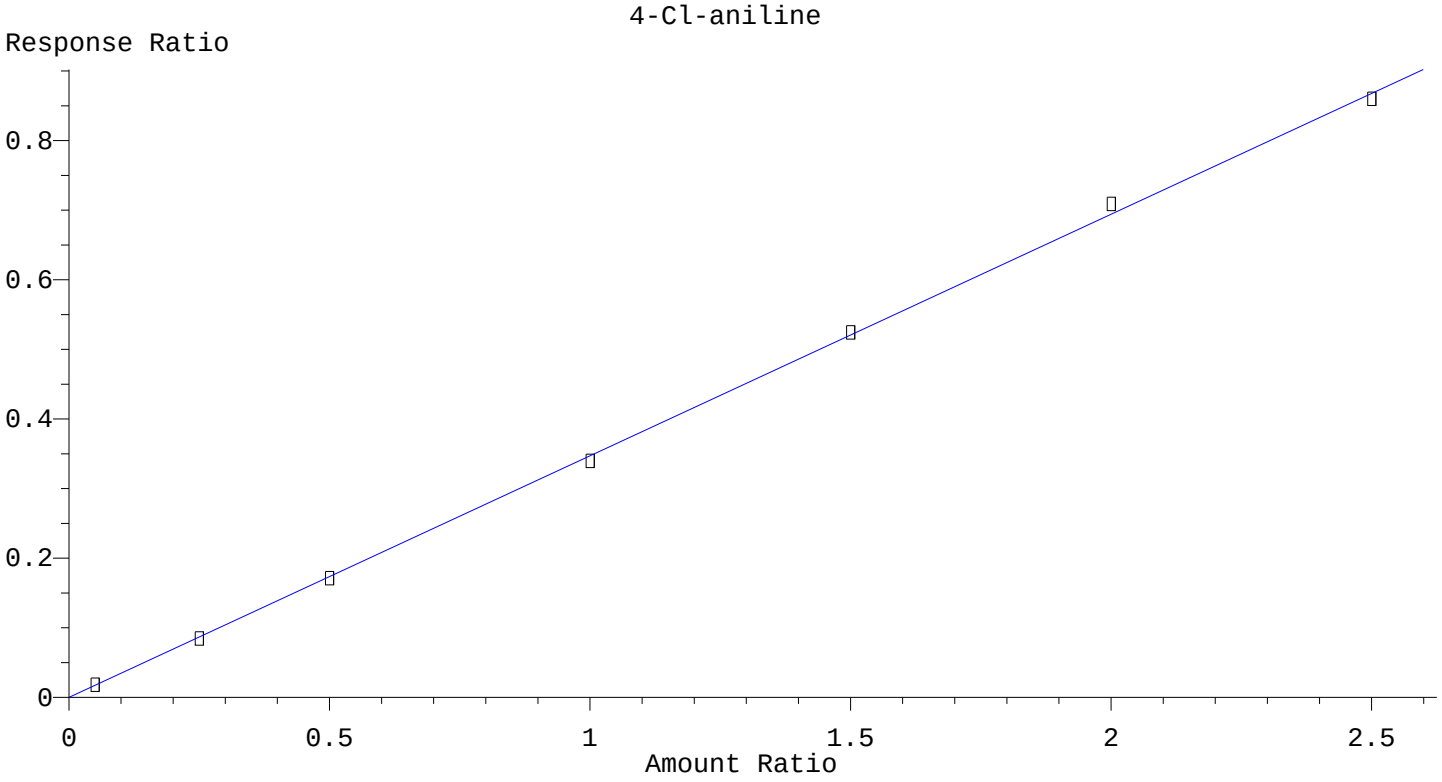
R = -6.96e-003 A*A + 2.46e-001 A - 3.23e-002
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)

Naphthalene

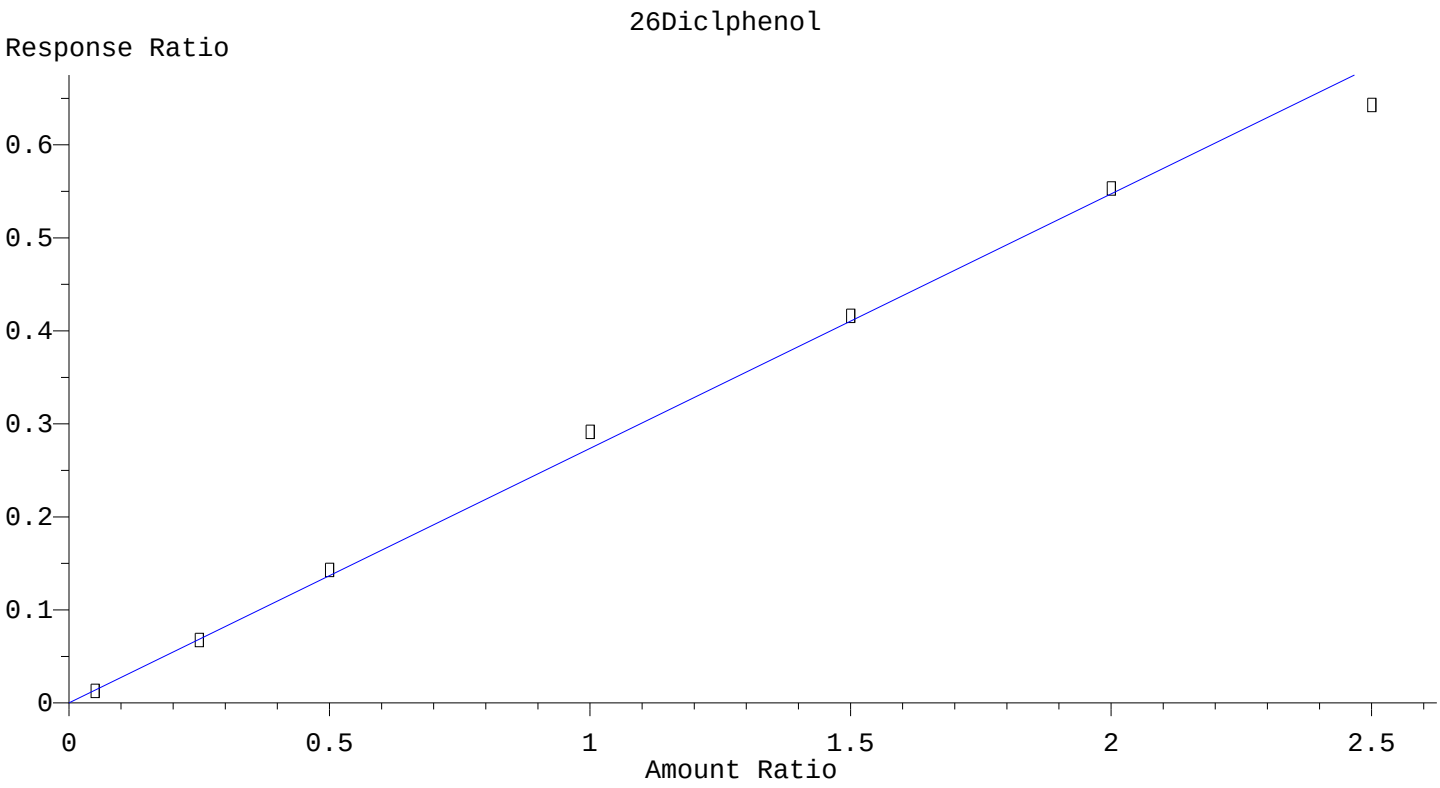


Resp Ratio = 9.79e-001 * Amt
RF Rel Std Dev = 3.1% Curve Fit: Avg RF

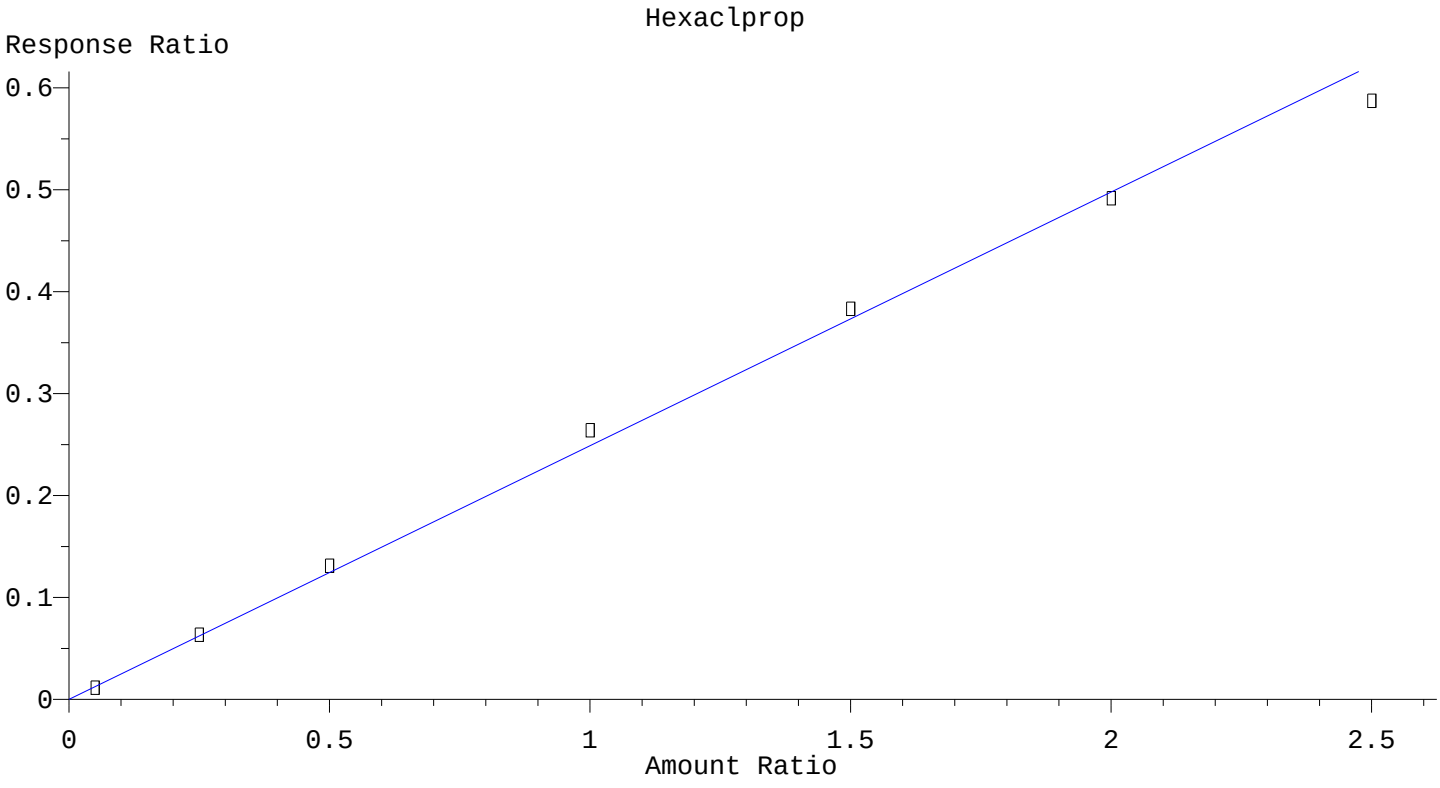
4-Cl-aniline



Resp Ratio = 3.47e-001 * Amt
RF Rel Std Dev = 2.5% Curve Fit: Avg RF

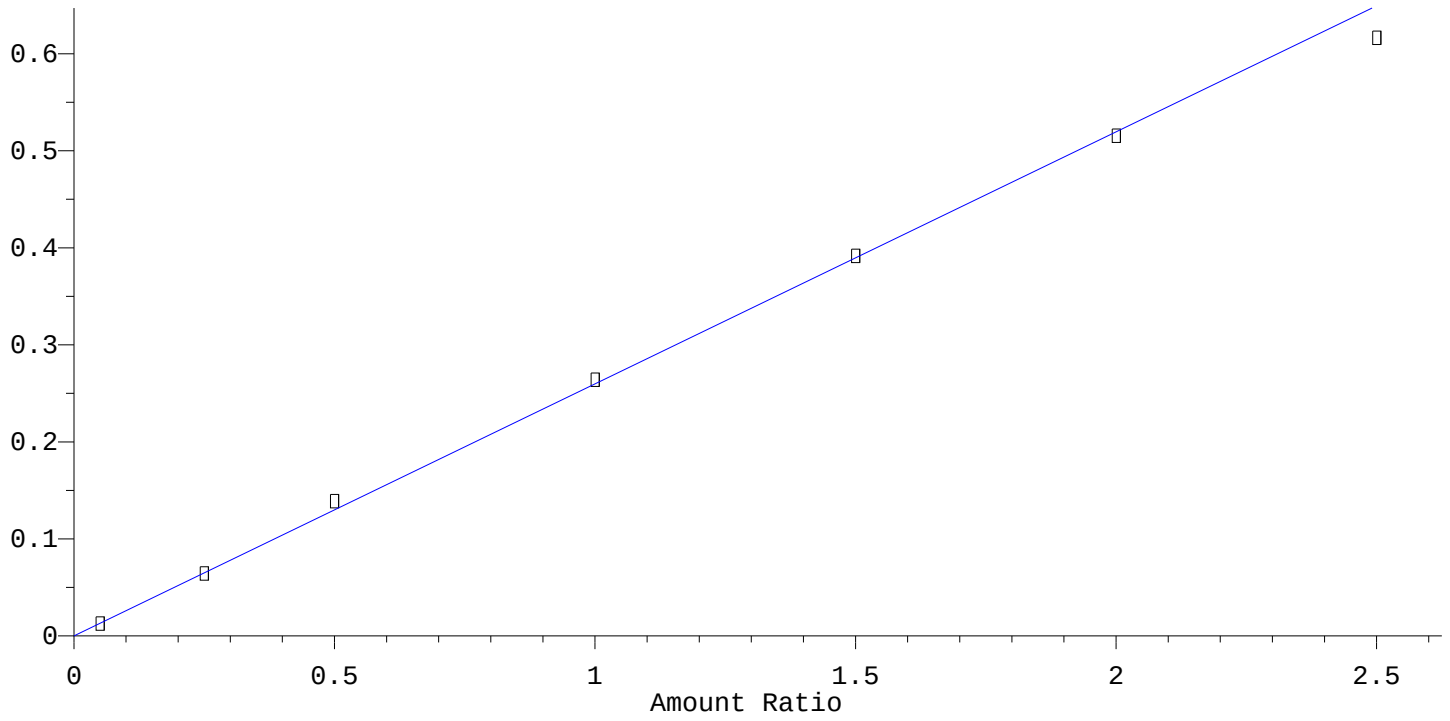


Resp Ratio = 2.74e-001 * Amt
RF Rel Std Dev = 4.9% Curve Fit: Avg RF



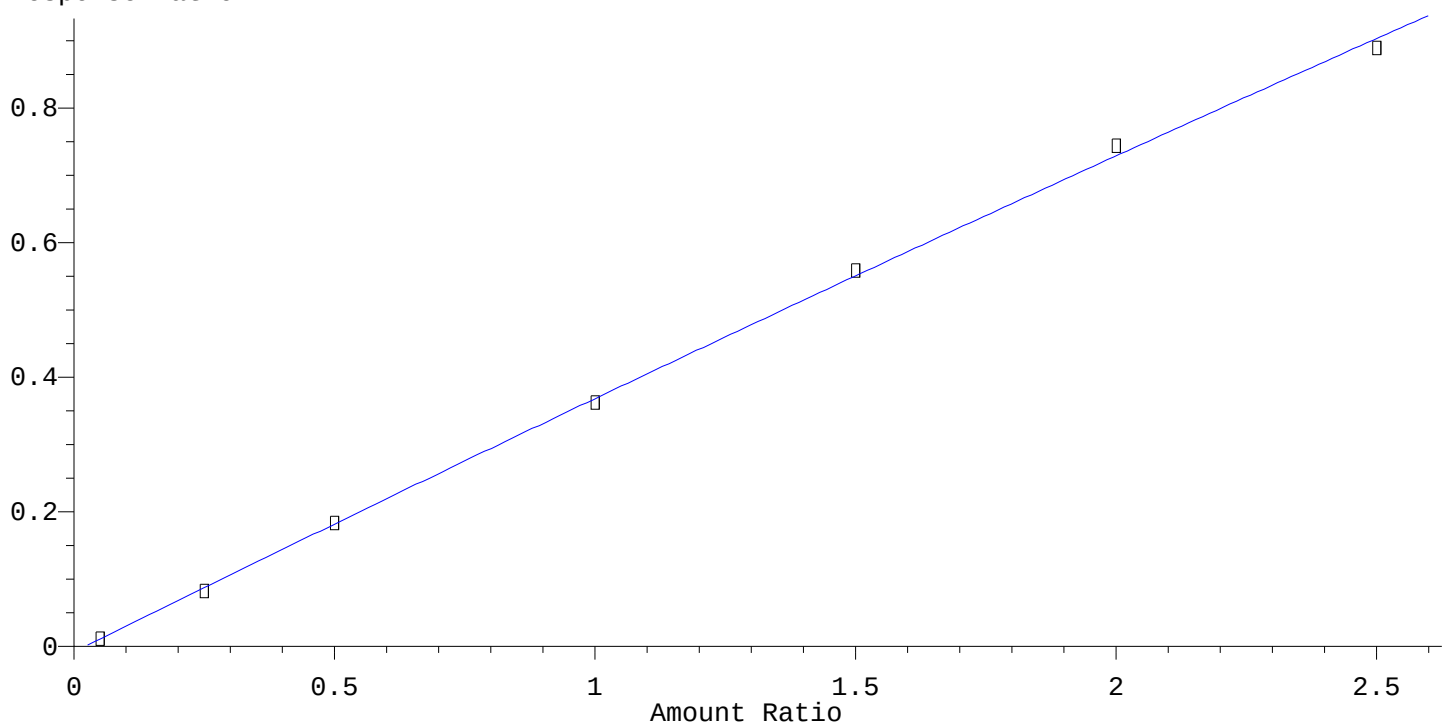
Resp Ratio = 2.49e-001 * Amt
RF Rel Std Dev = 5.4% Curve Fit: Avg RF

Hexaclbutdien

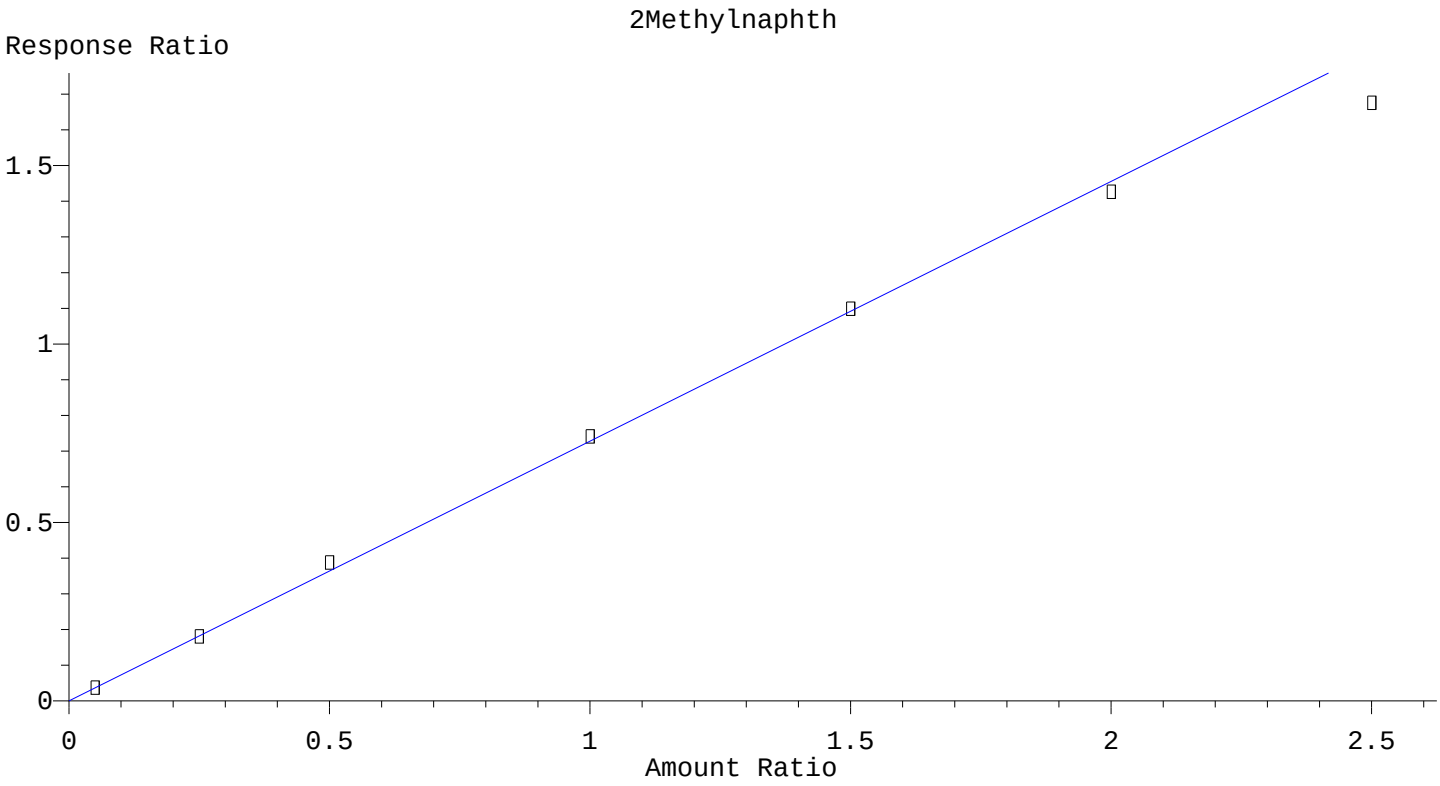


Resp Ratio = 2.60e-001 * Amt
RF Rel Std Dev = 3.7% Curve Fit: Avg RF

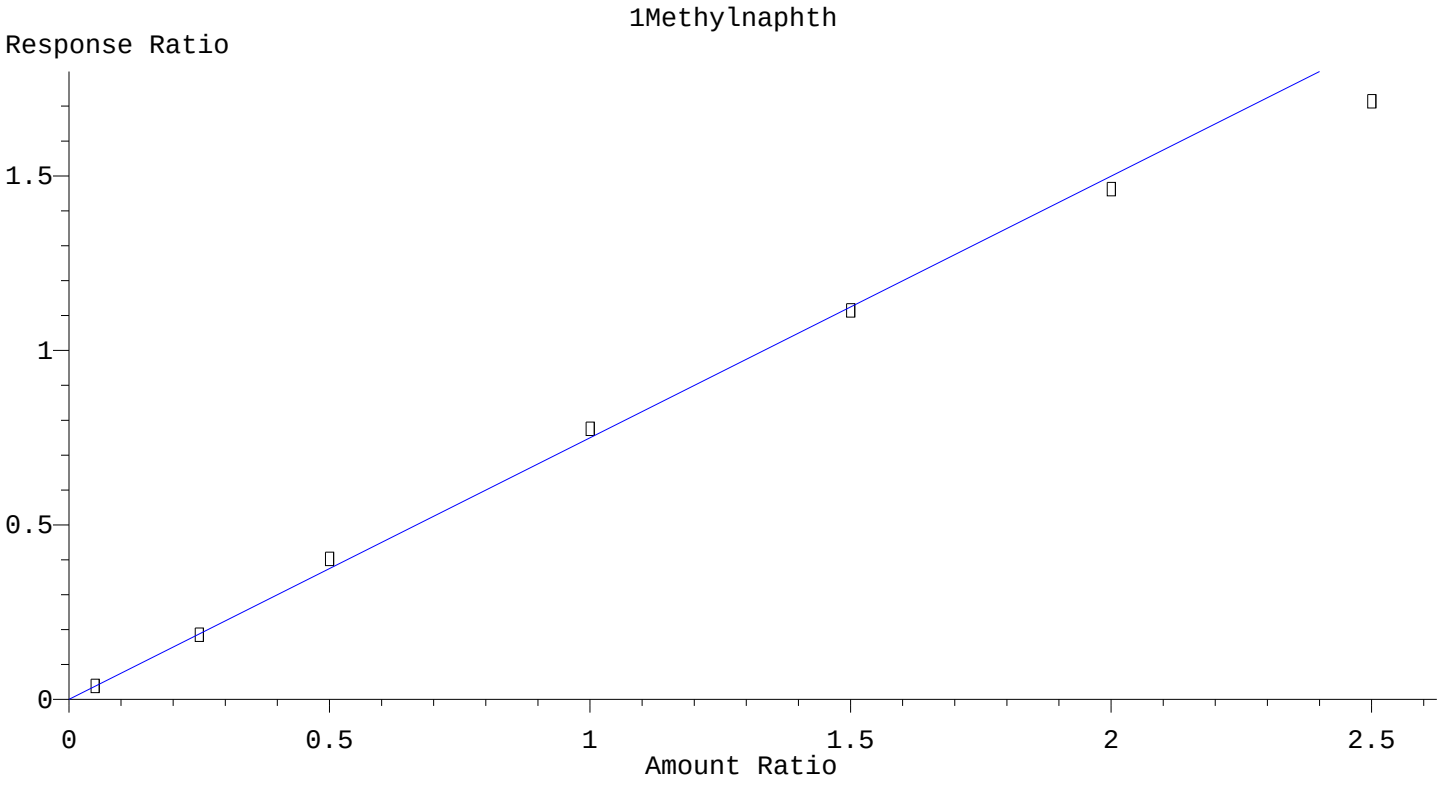
4Cl3methylphe



R = -8.04e-003 A*A + 3.85e-001 A - 8.57e-003
Coef of Det (r^2) = 1.000 Curve Fit: Quadratic w(1/a)

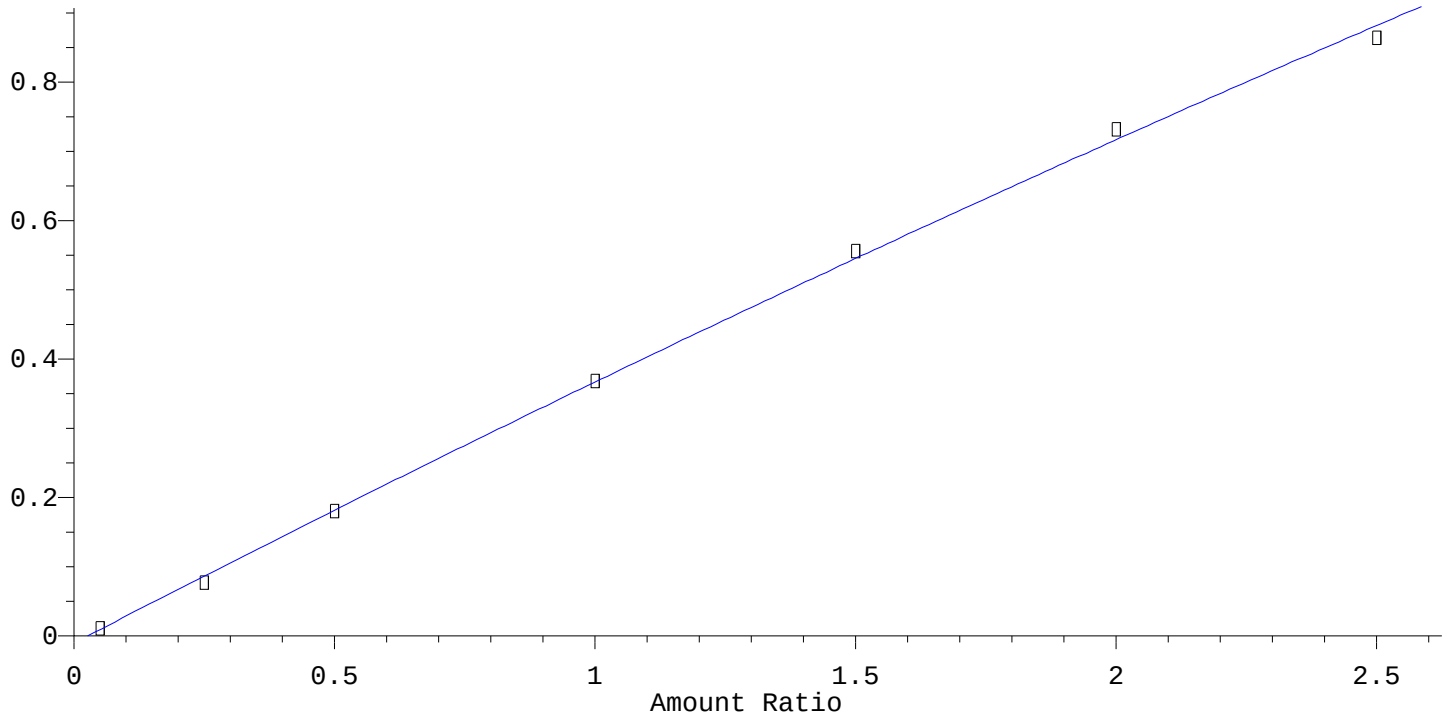


Resp Ratio = 7.28e-001 * Amt
RF Rel Std Dev = 4.4% Curve Fit: Avg RF



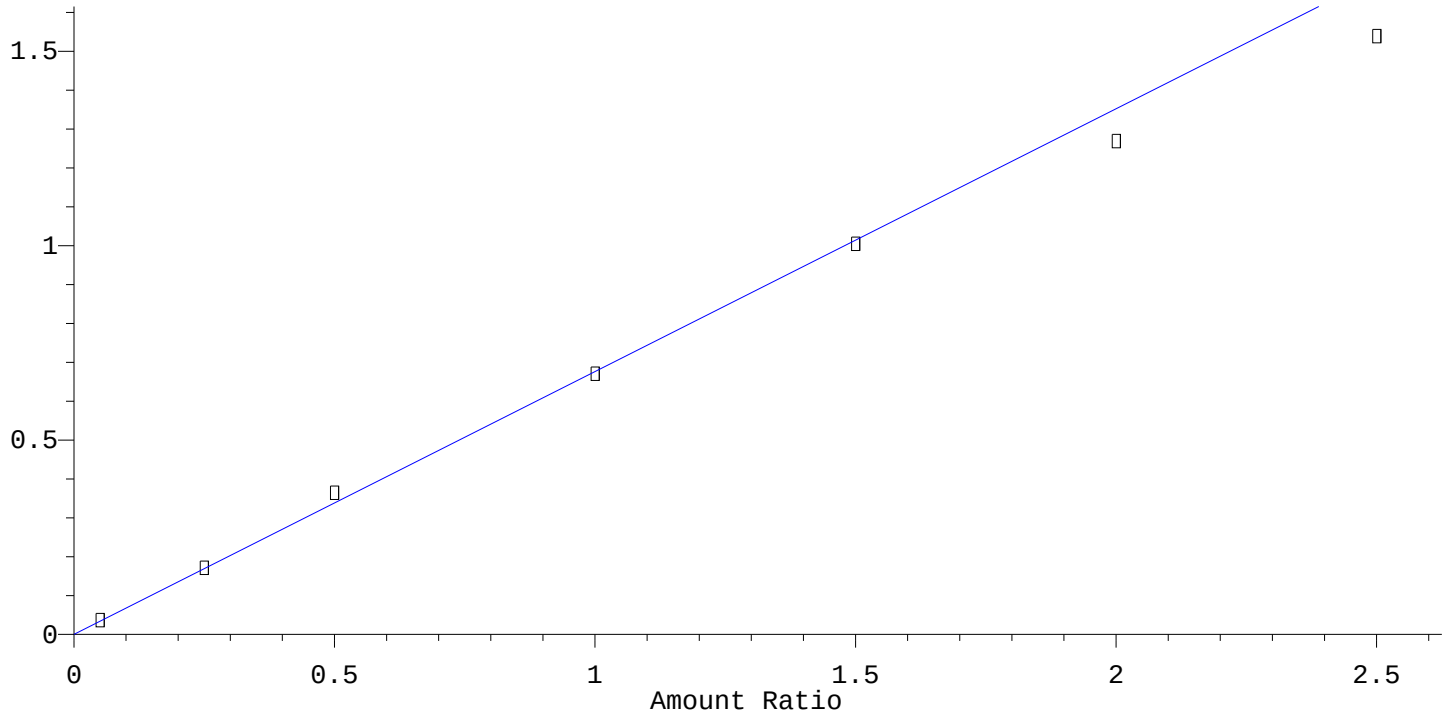
Resp Ratio = 7.50e-001 * Amt
RF Rel Std Dev = 5.1% Curve Fit: Avg RF

Hxclcycpentdi

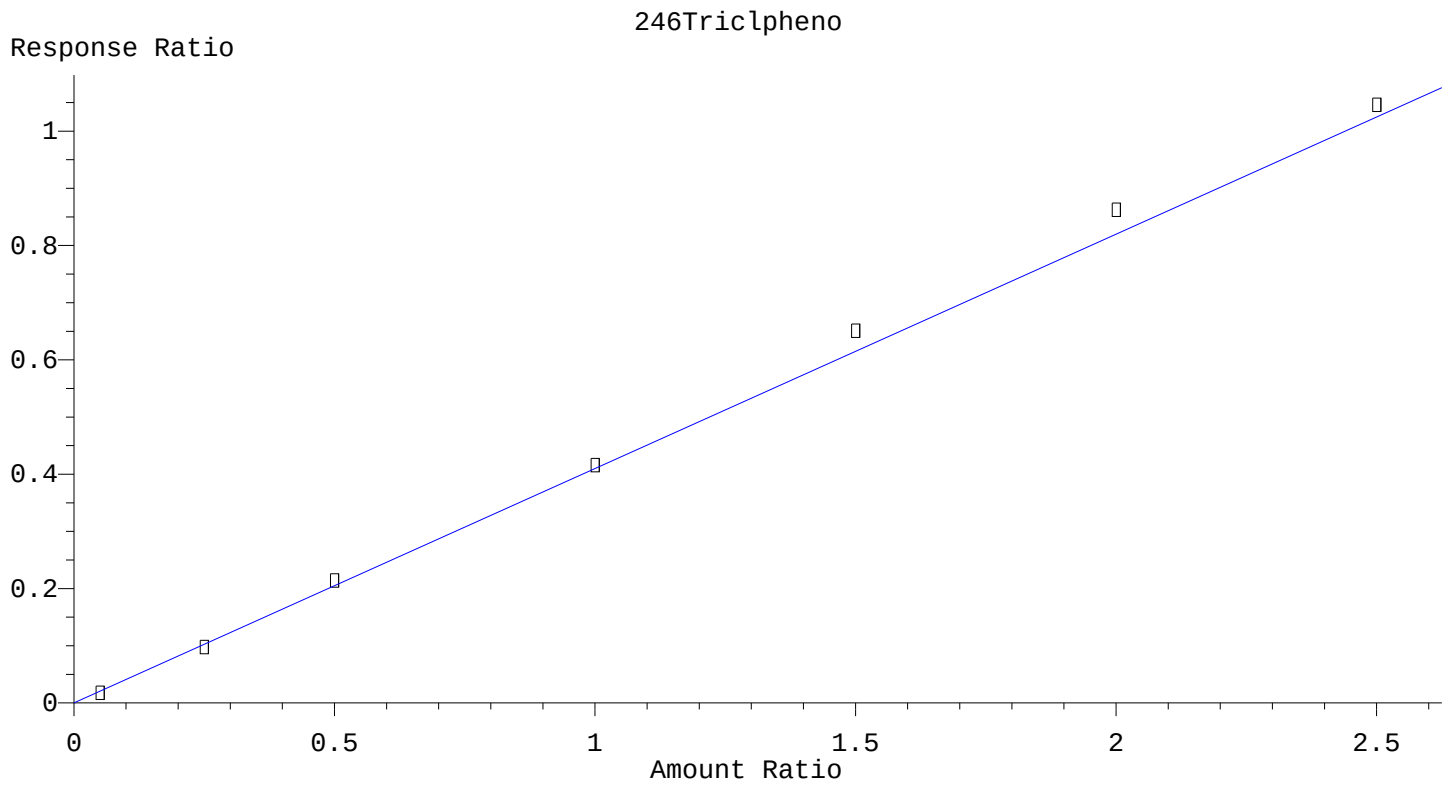


R = -1.35e-002 A*A + 3.91e-001 A - 1.02e-002
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)

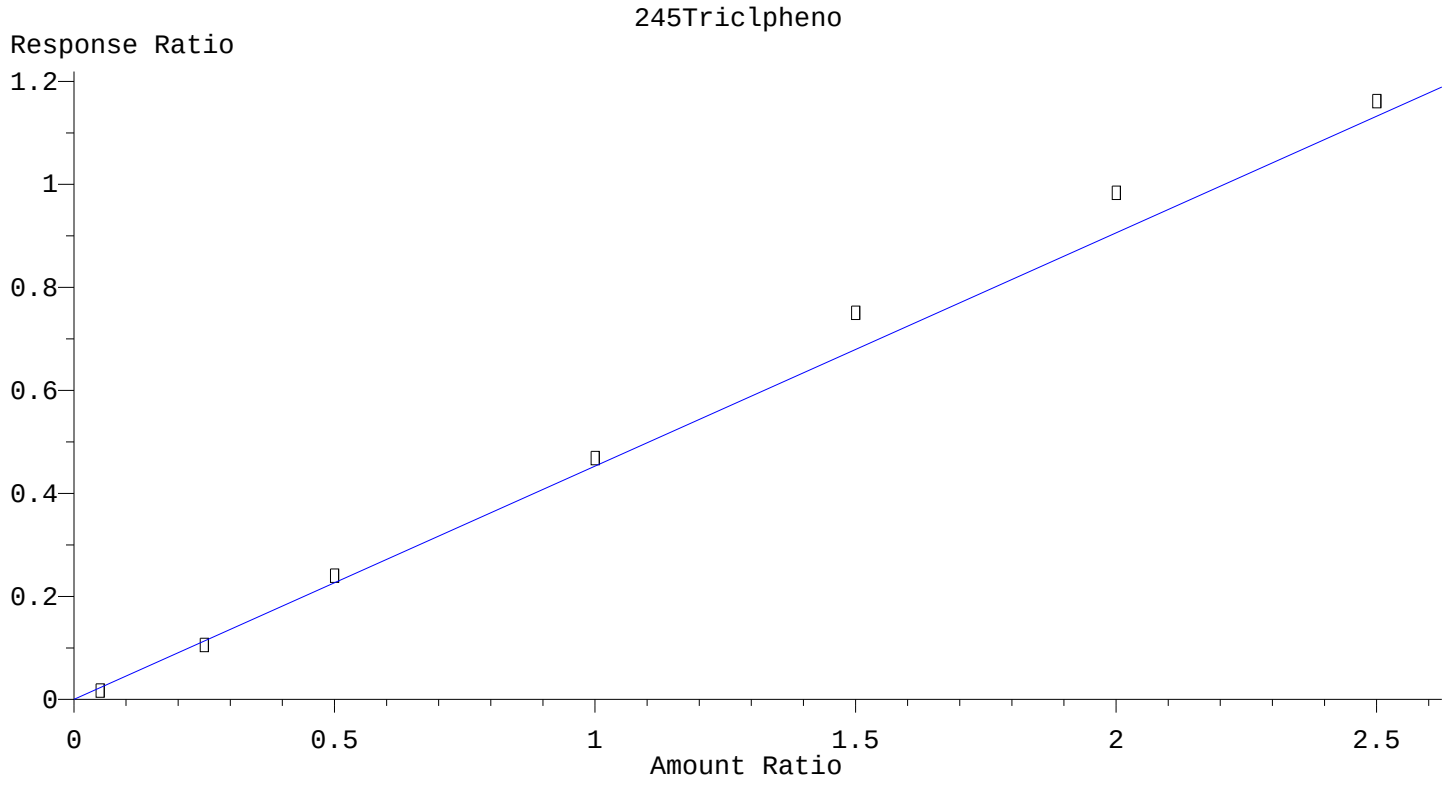
1245Tetrclbenz



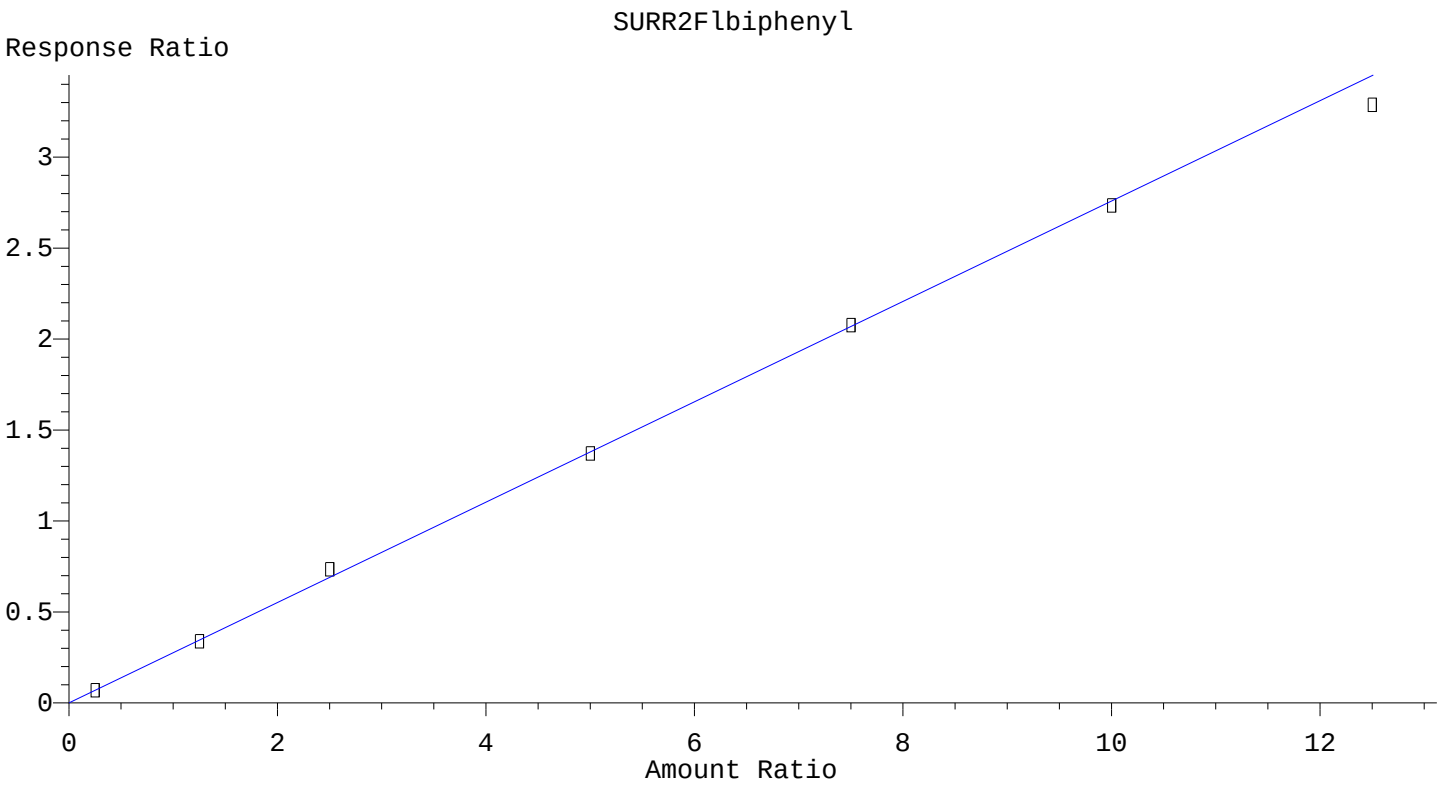
Resp Ratio = 6.77e-001 * Amt
RF Rel Std Dev = 6.4% Curve Fit: Avg RF



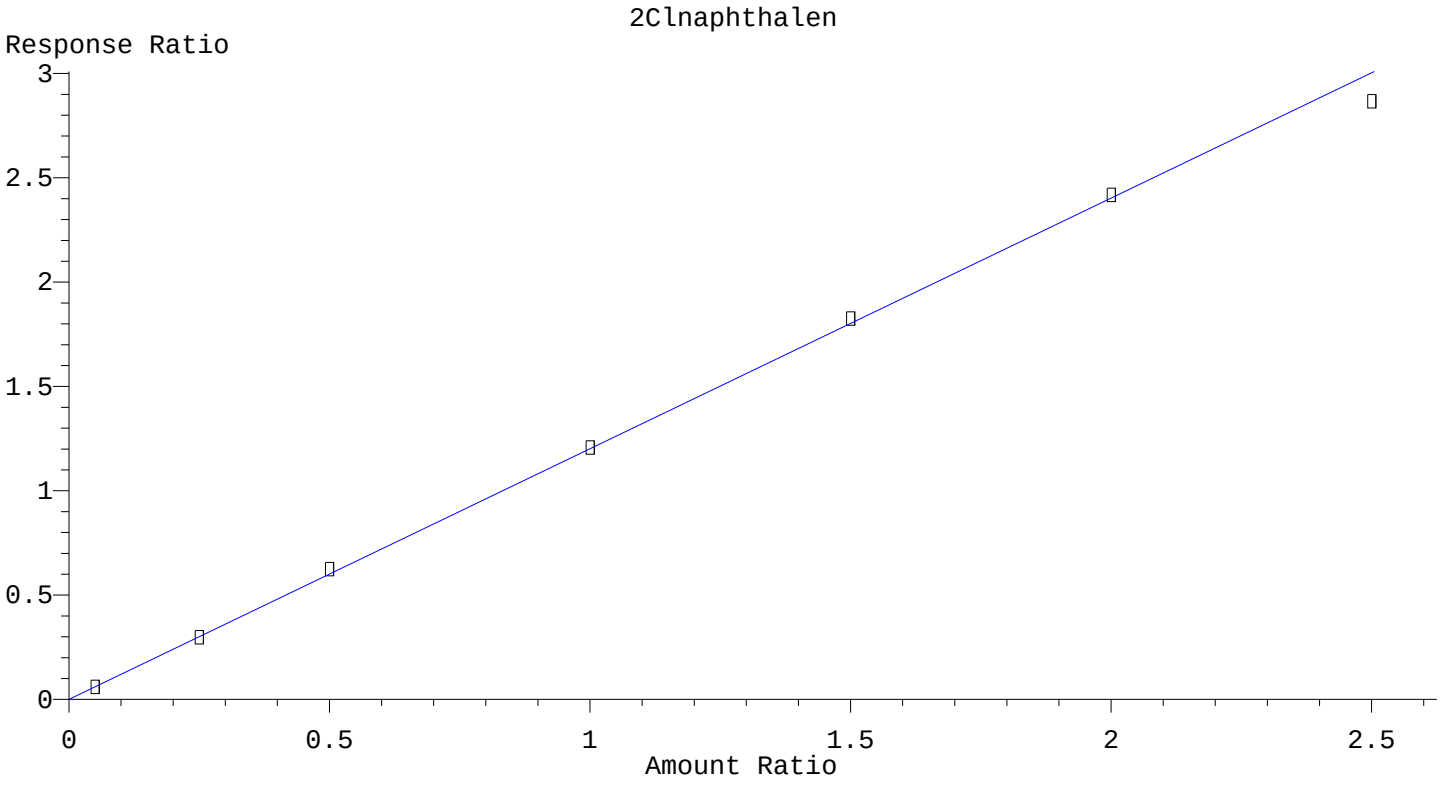
Resp Ratio = 4.10e-001 * Amt
RF Rel Std Dev = 7.3% Curve Fit: Avg RF



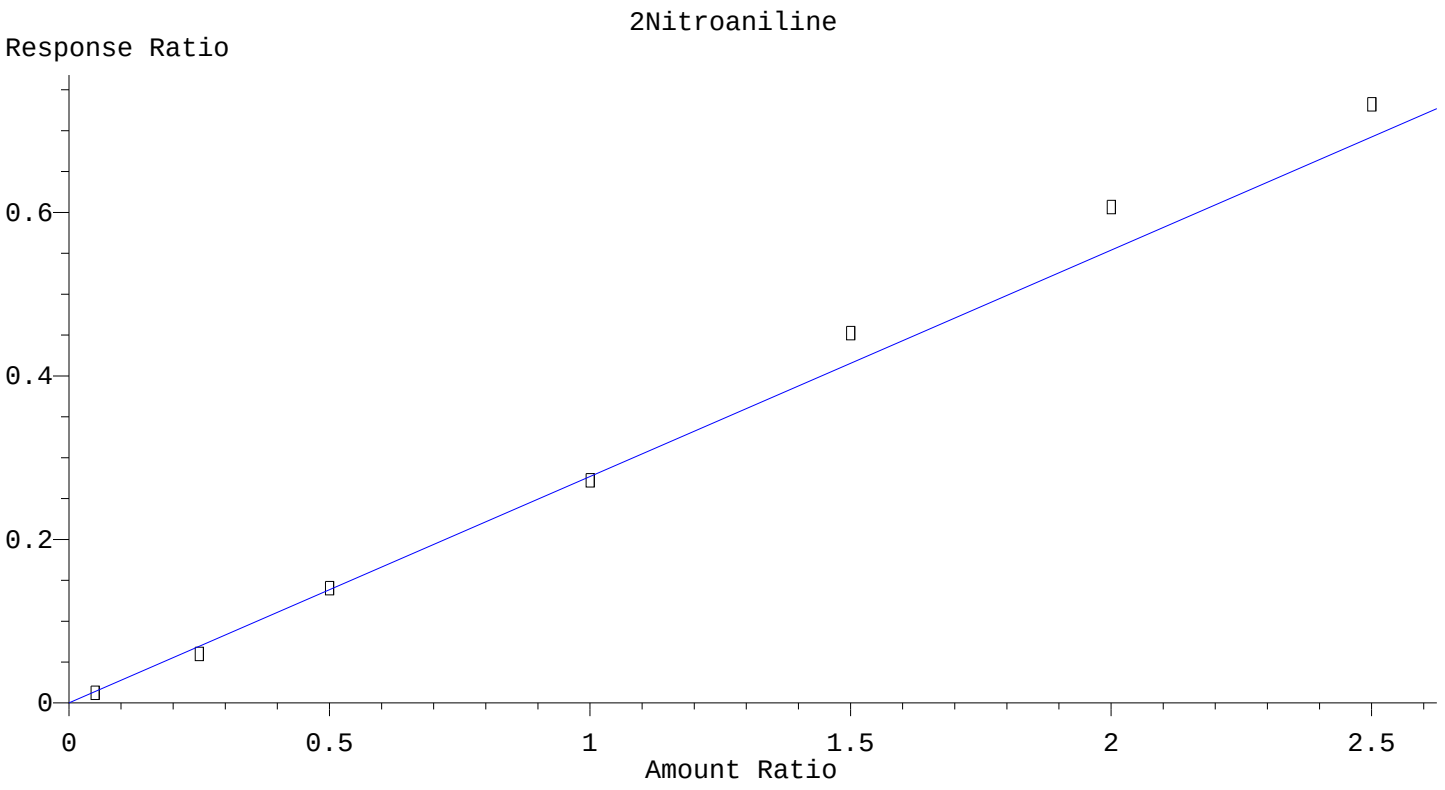
Resp Ratio = 4.53e-001 * Amt
RF Rel Std Dev = 12.0% Curve Fit: Avg RF



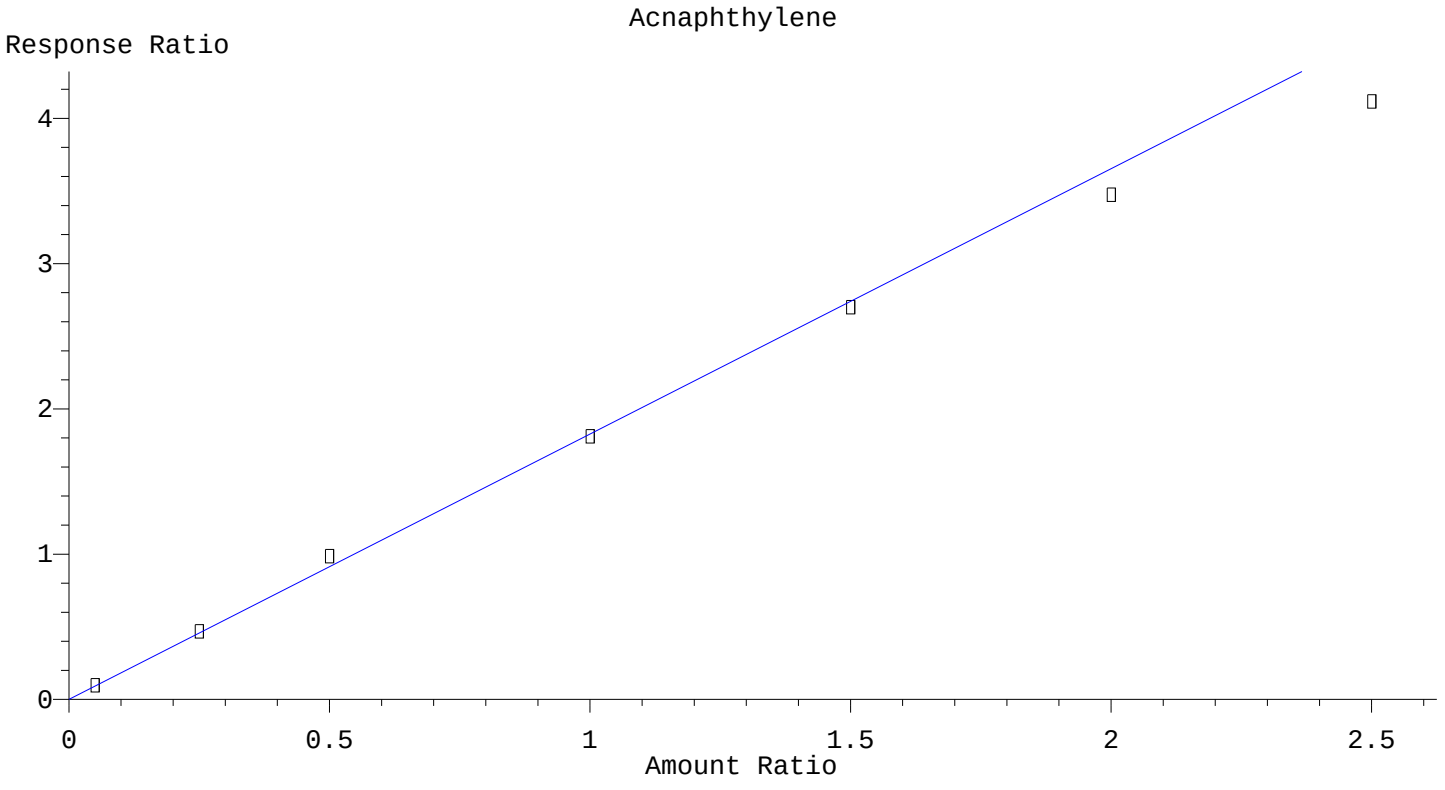
Resp Ratio = 2.76e-001 * Amt
RF Rel Std Dev = 3.4% Curve Fit: Avg RF



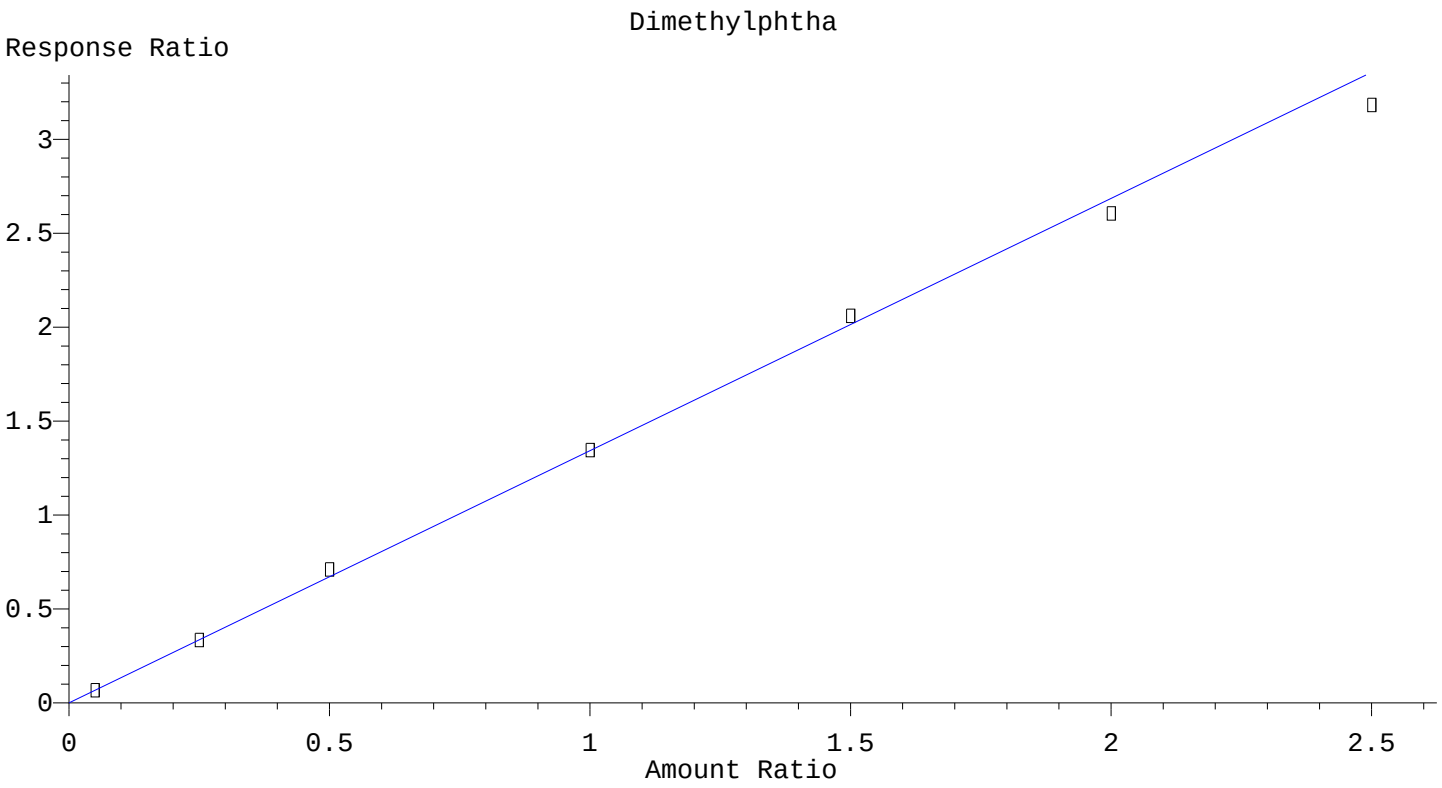
Resp Ratio = 1.20e+000 * Amt
RF Rel Std Dev = 2.6% Curve Fit: Avg RF



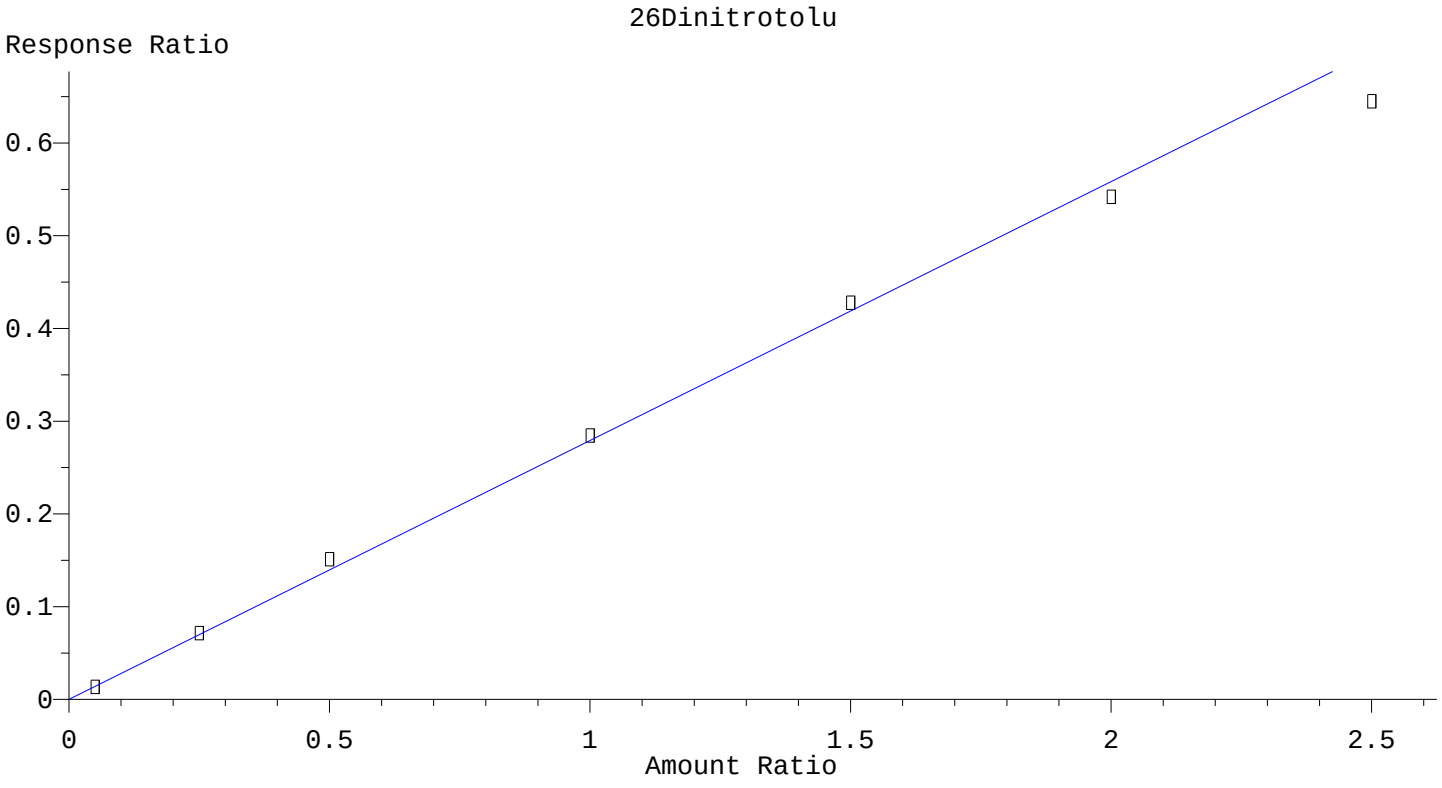
Resp Ratio = 2.77e-001 * Amt
RF Rel Std Dev = 9.1% Curve Fit: Avg RF



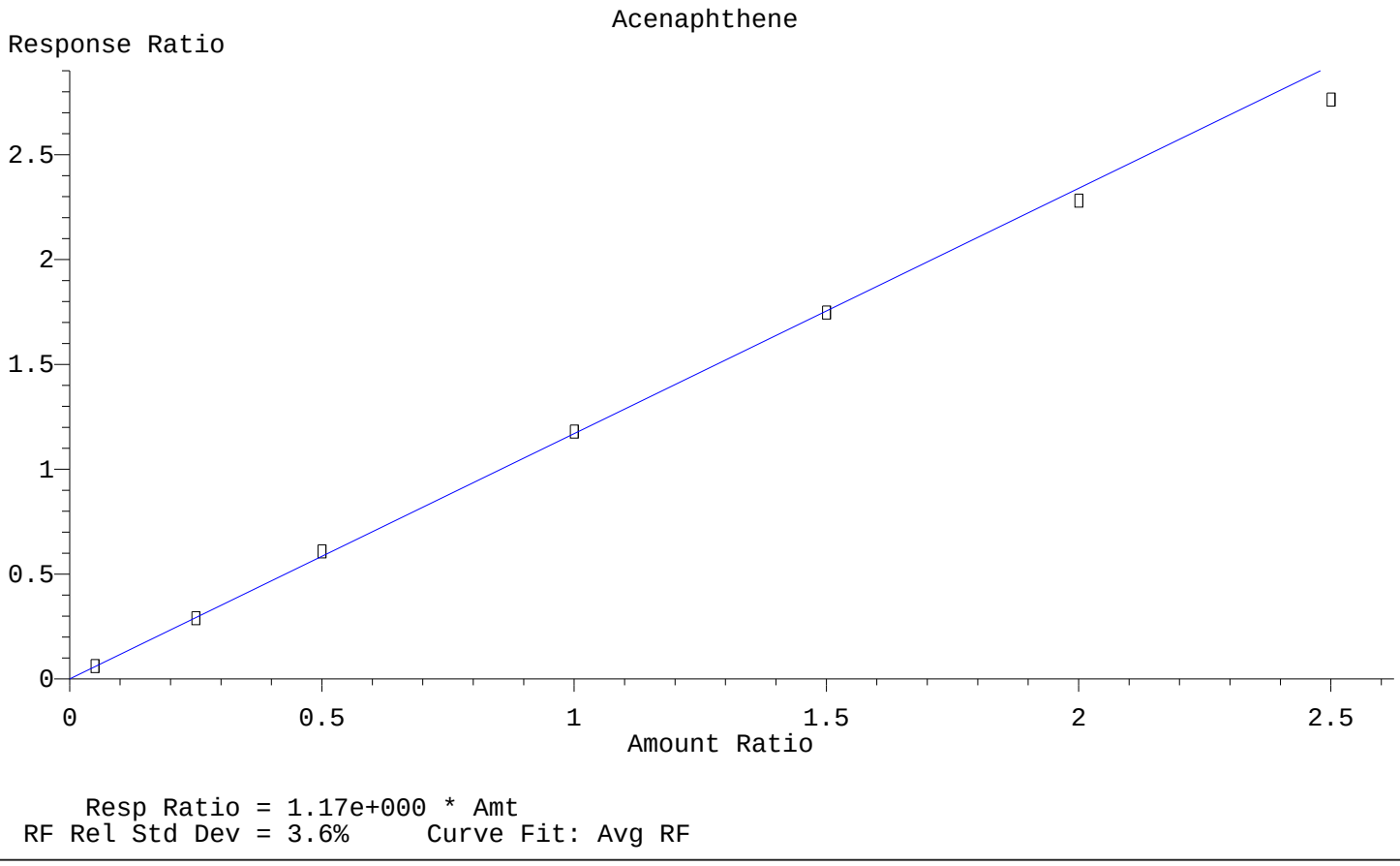
Resp Ratio = 1.83e+000 * Amt
RF Rel Std Dev = 6.3% Curve Fit: Avg RF



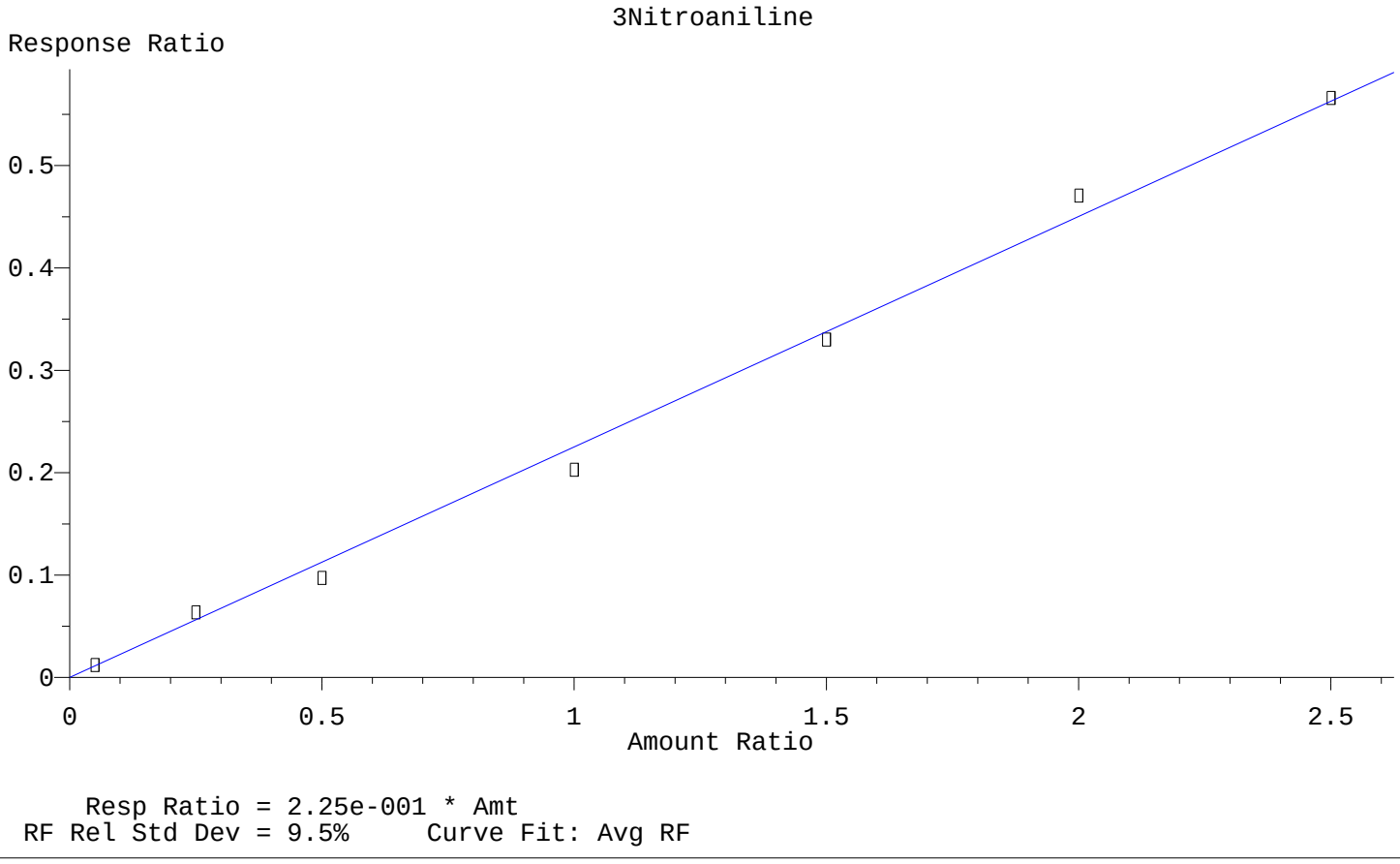
Resp Ratio = 1.34e+000 * Amt
RF Rel Std Dev = 3.5% Curve Fit: Avg RF



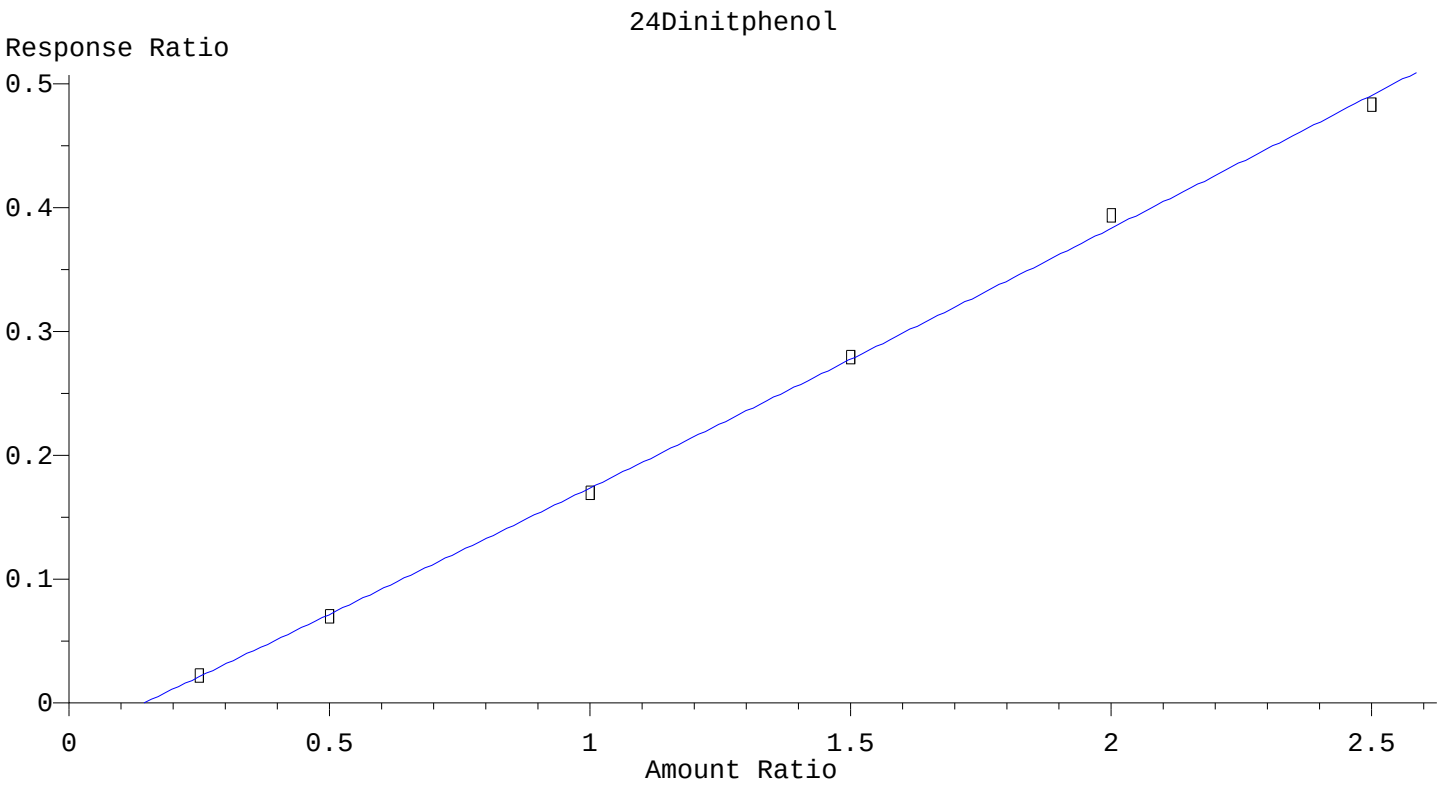
Resp Ratio = 2.79e-001 * Amt
RF Rel Std Dev = 5.2% Curve Fit: Avg RF



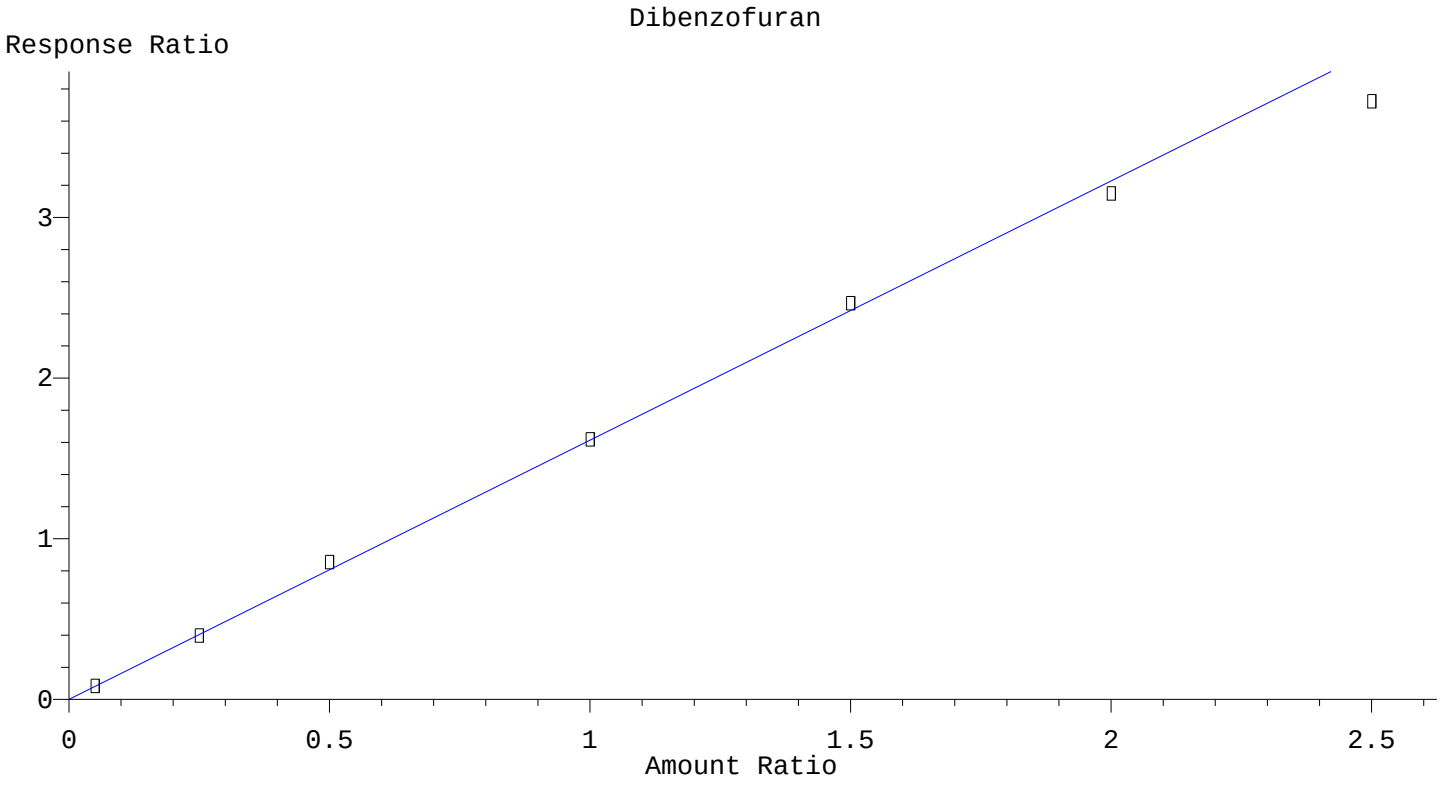
Resp Ratio = 1.17e+000 * Amt
RF Rel Std Dev = 3.6% Curve Fit: Avg RF



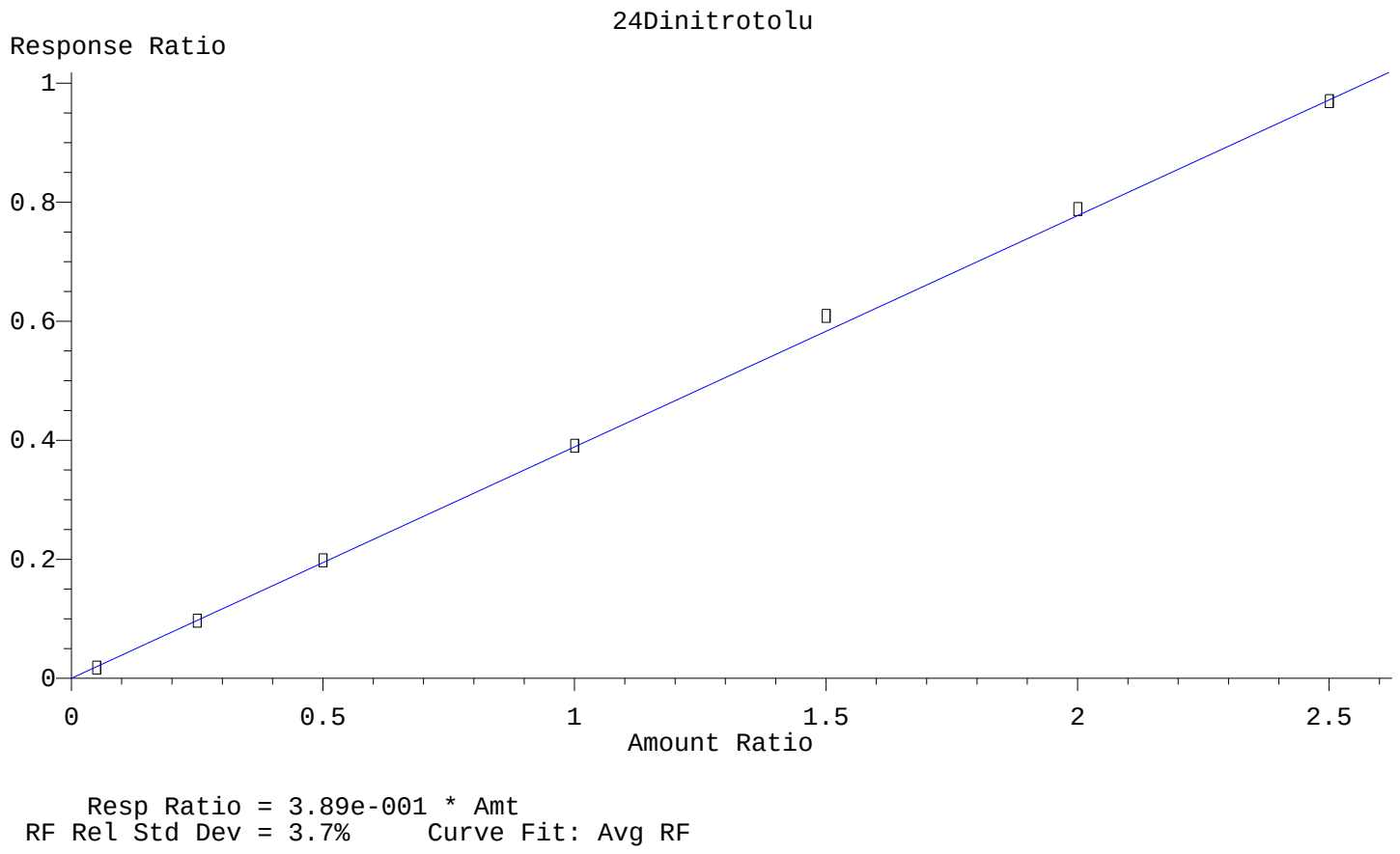
Resp Ratio = 2.25e-001 * Amt
RF Rel Std Dev = 9.5% Curve Fit: Avg RF



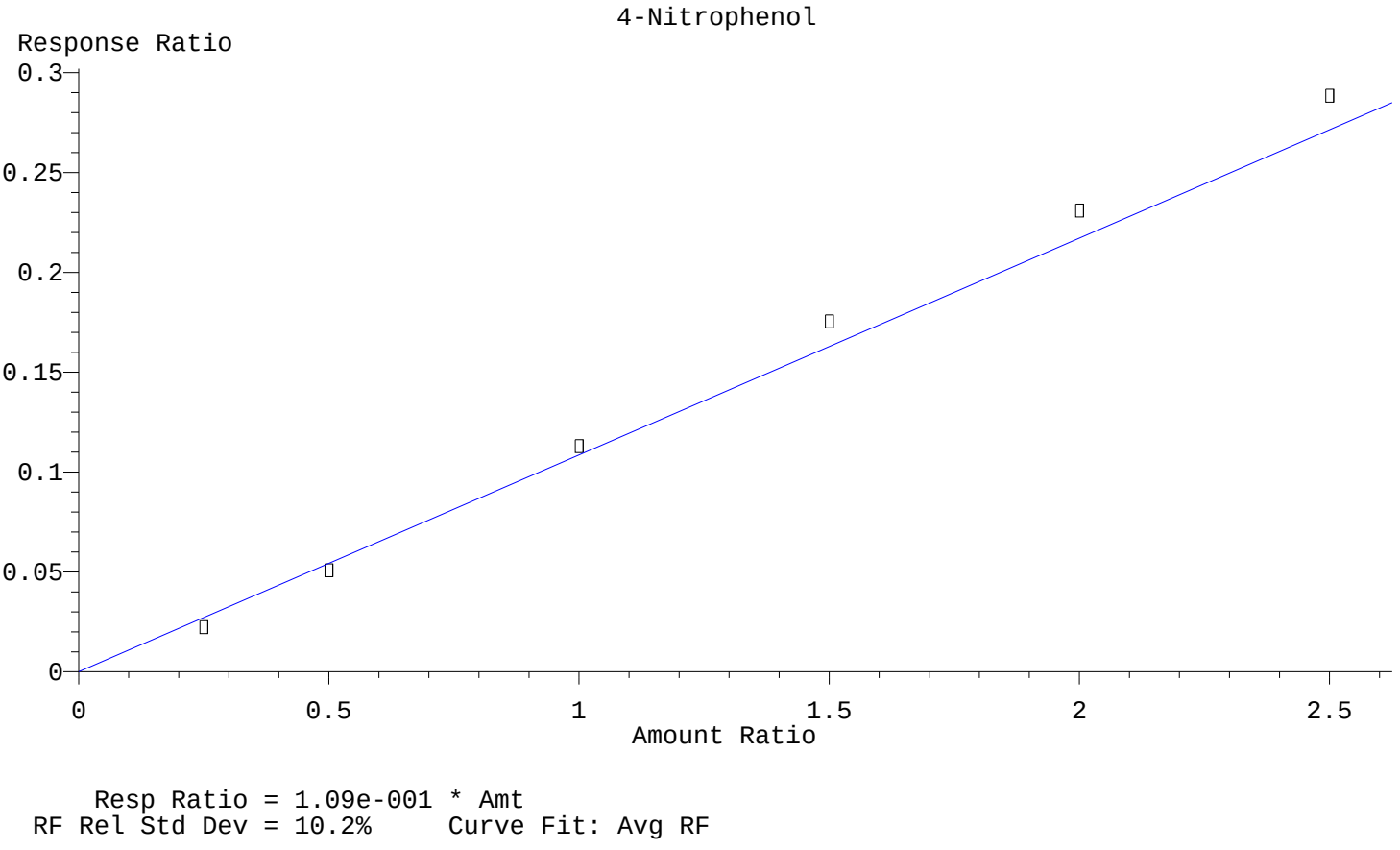
R = 3.63e-003 A*A + 1.99e-001 A - 2.87e-002
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)



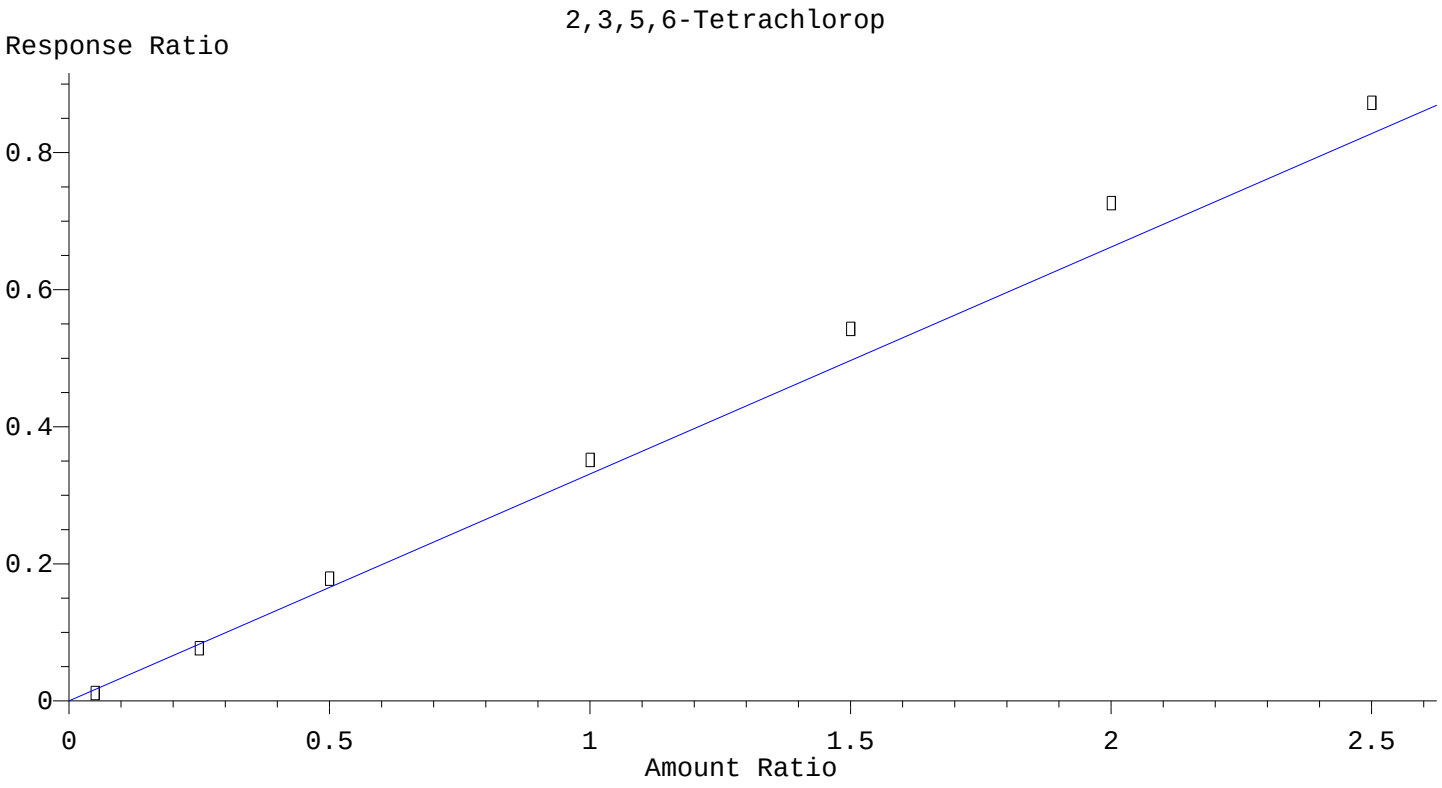
Resp Ratio = 1.61e+000 * Amt
RF Rel Std Dev = 4.4% Curve Fit: Avg RF



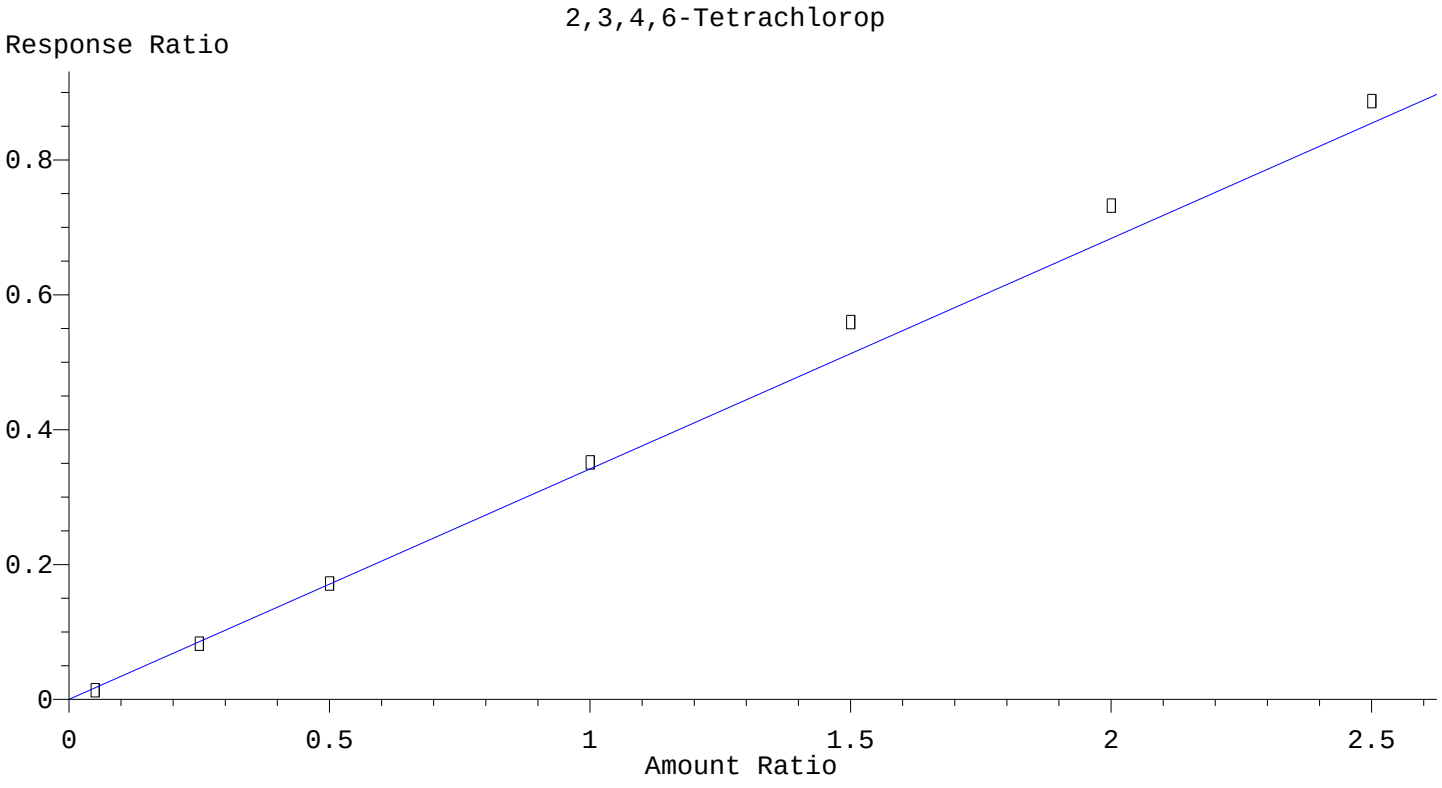
Resp Ratio = 3.89e-001 * Amt
RF Rel Std Dev = 3.7% Curve Fit: Avg RF



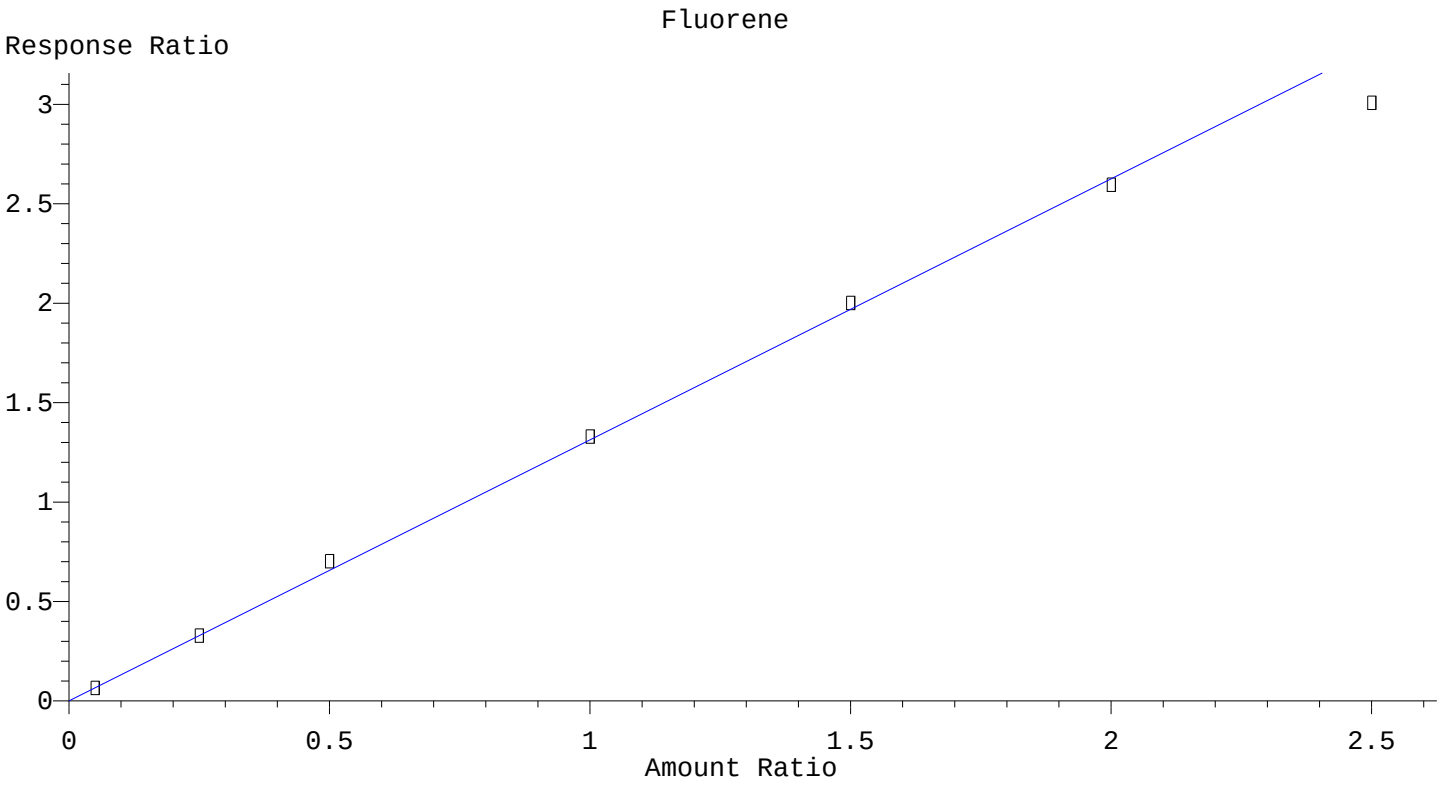
Resp Ratio = 1.09e-001 * Amt
RF Rel Std Dev = 10.2% Curve Fit: Avg RF



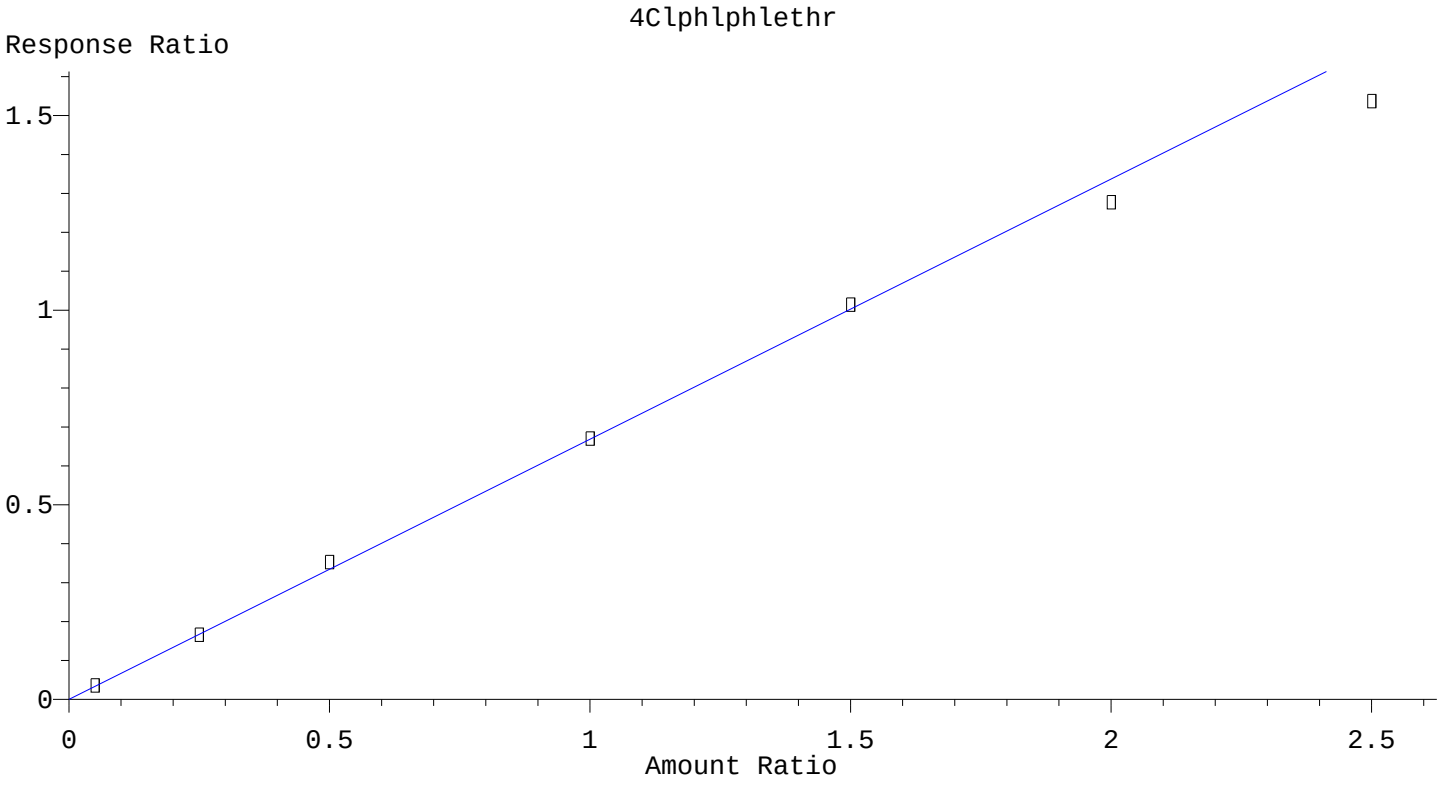
Resp Ratio = 3.31e-001 * Amt
RF Rel Std Dev = 14.8% Curve Fit: Avg RF



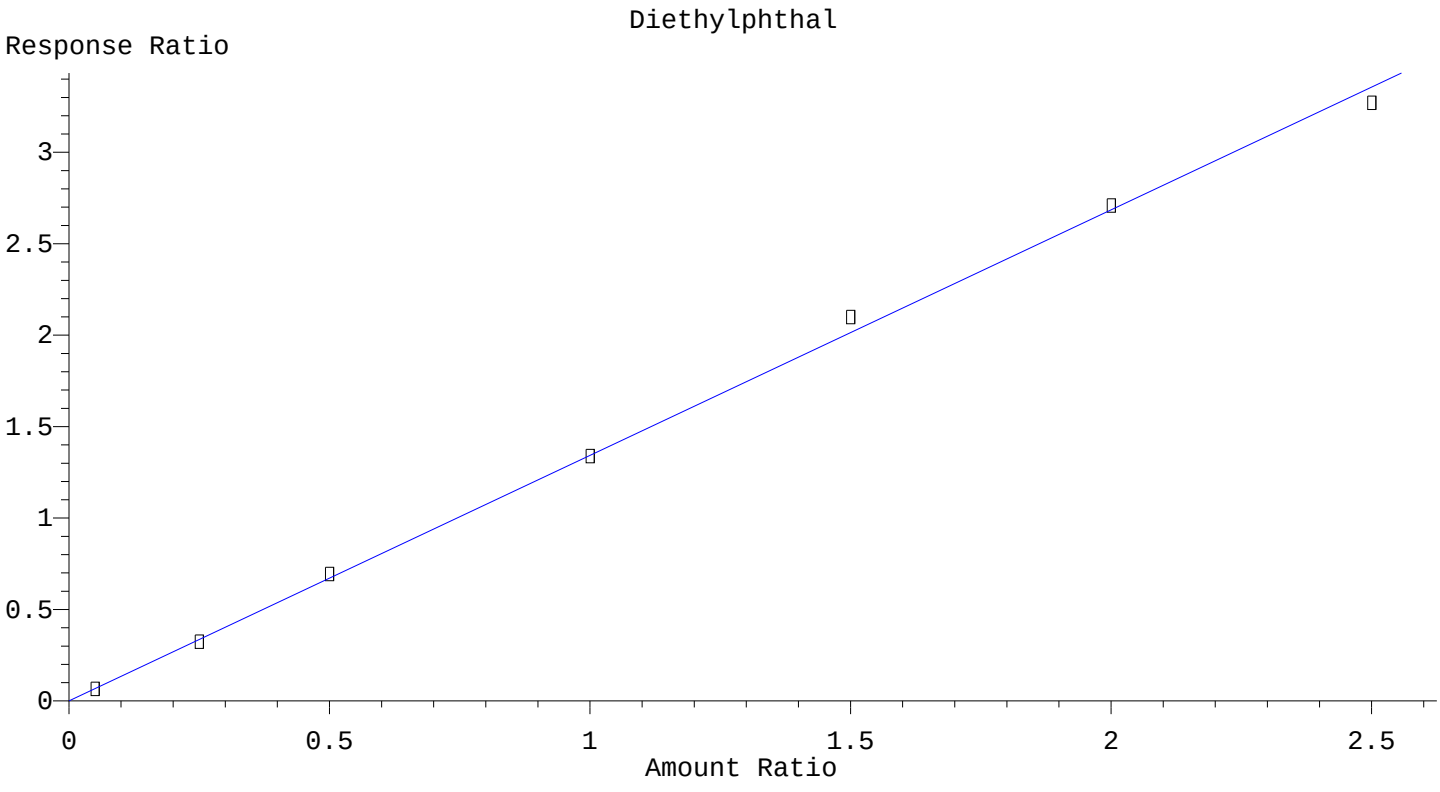
Resp Ratio = 3.42e-001 * Amt
RF Rel Std Dev = 9.9% Curve Fit: Avg RF



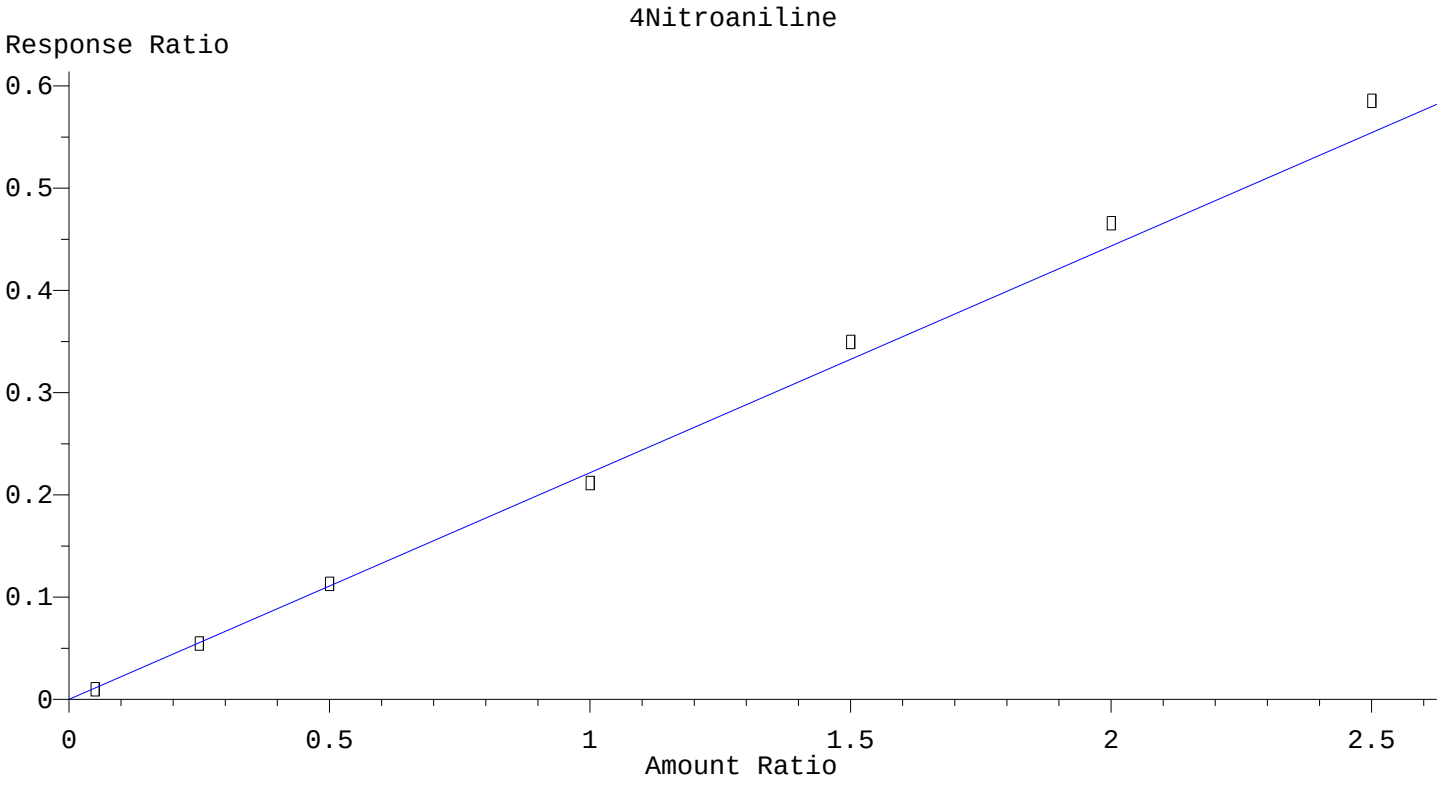
Resp Ratio = 1.31e+000 * Amt
RF Rel Std Dev = 4.6% Curve Fit: Avg RF



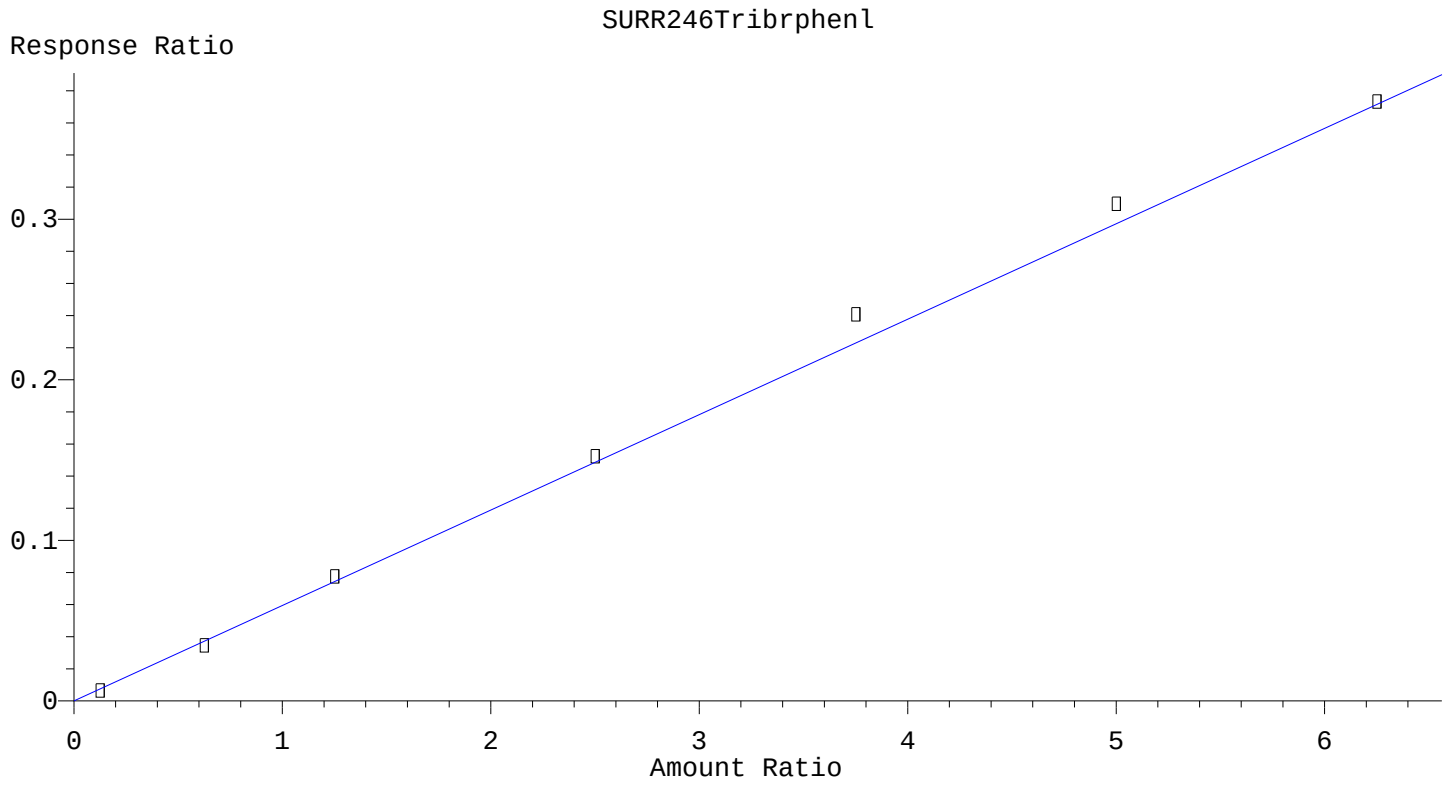
Resp Ratio = 6.69e-001 * Amt
RF Rel Std Dev = 5.1% Curve Fit: Avg RF



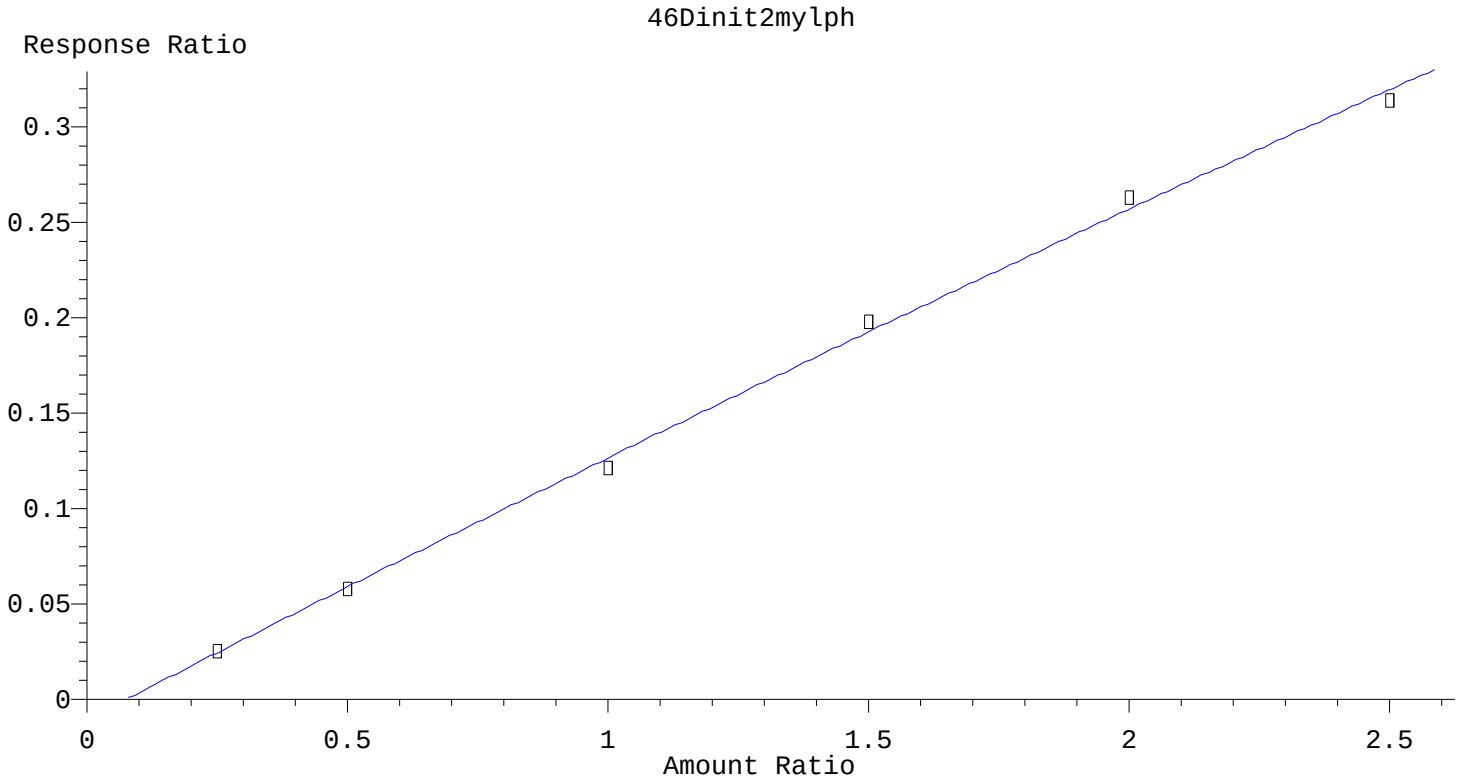
Resp Ratio = 1.34e+000 * Amt
RF Rel Std Dev = 3.0% Curve Fit: Avg RF



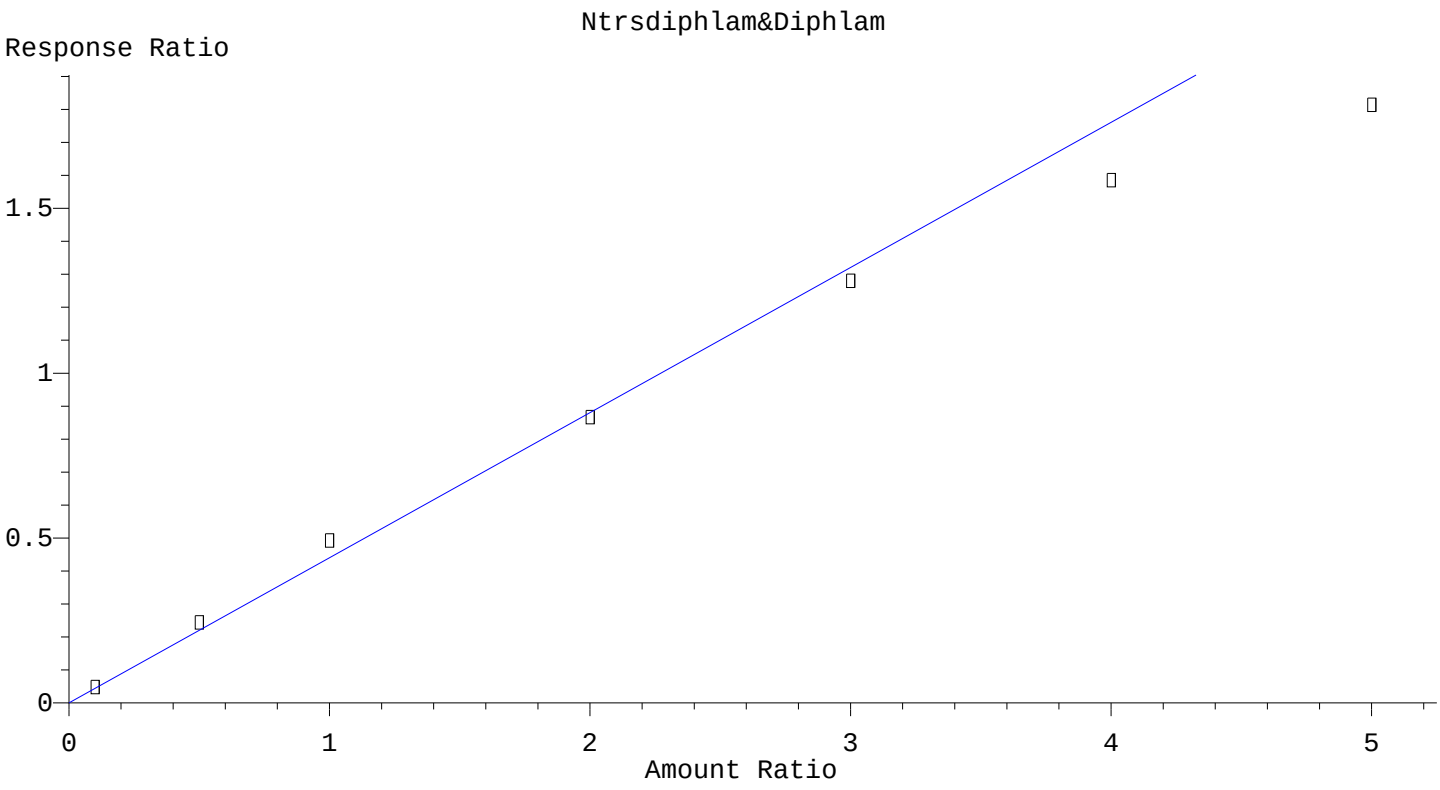
Resp Ratio = 2.22e-001 * Amt
RF Rel Std Dev = 6.3% Curve Fit: Avg RF



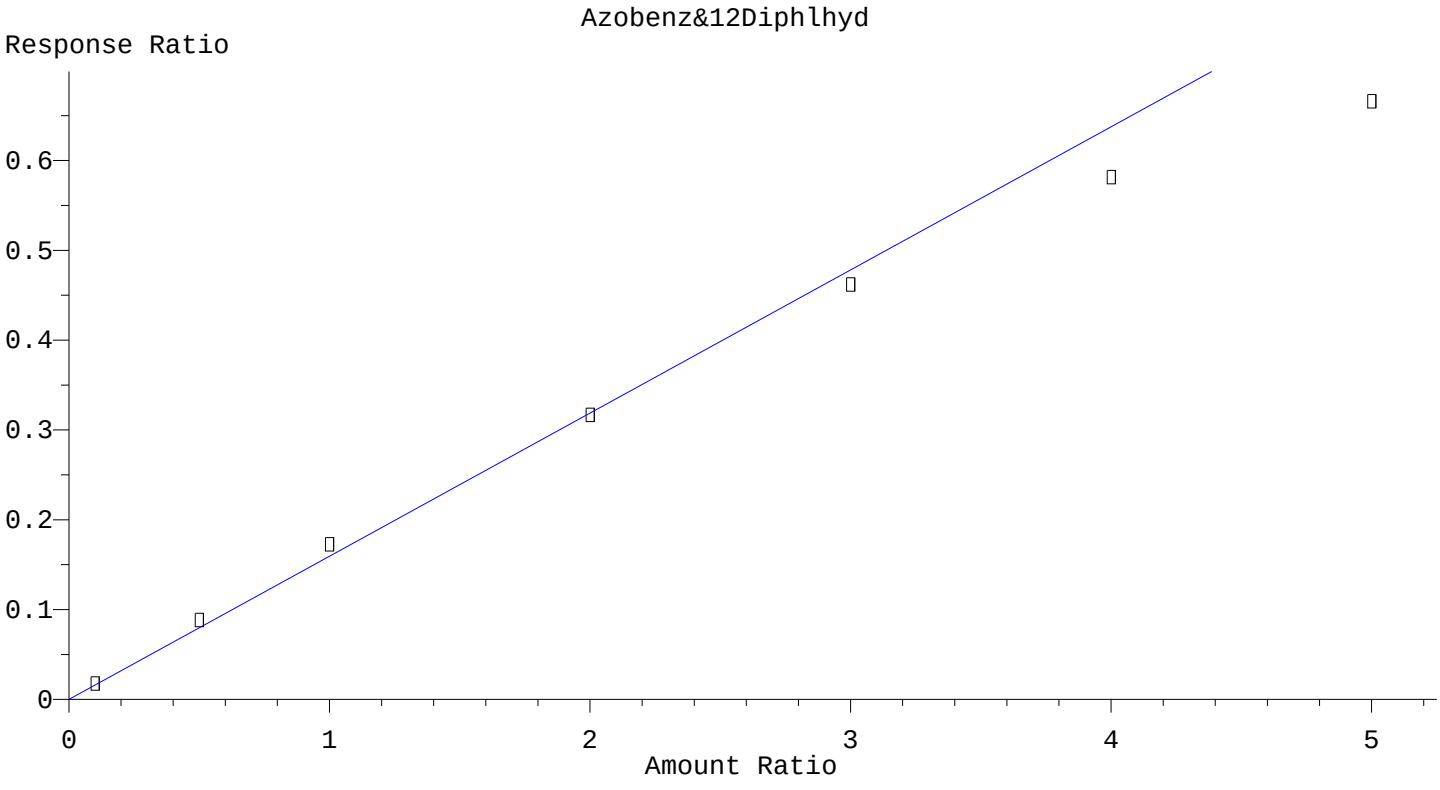
Resp Ratio = 5.94e-002 * Amt
RF Rel Std Dev = 7.3% Curve Fit: Avg RF



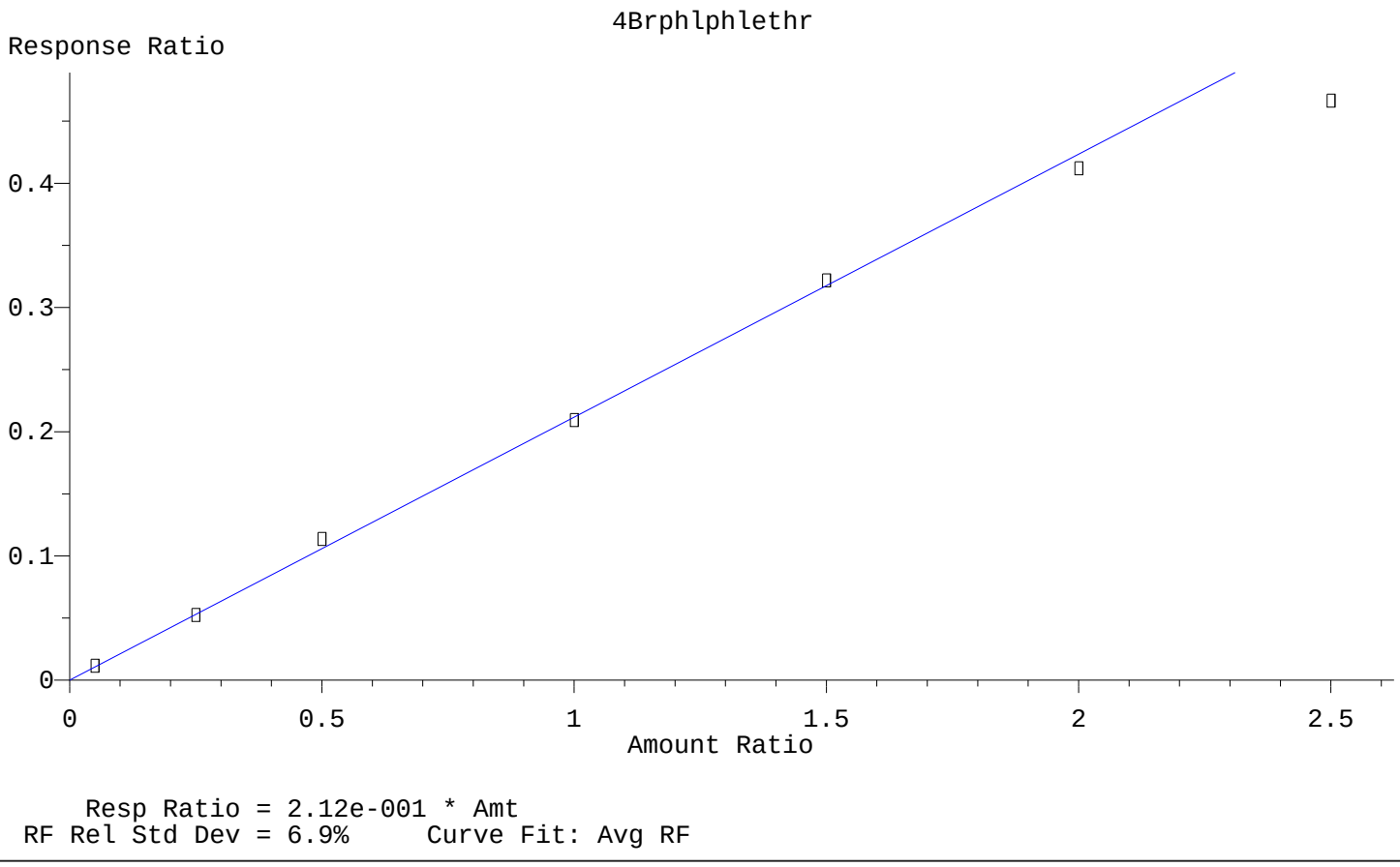
R = -3.34e-003 A*A + 1.40e-001 A - 1.04e-002
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)



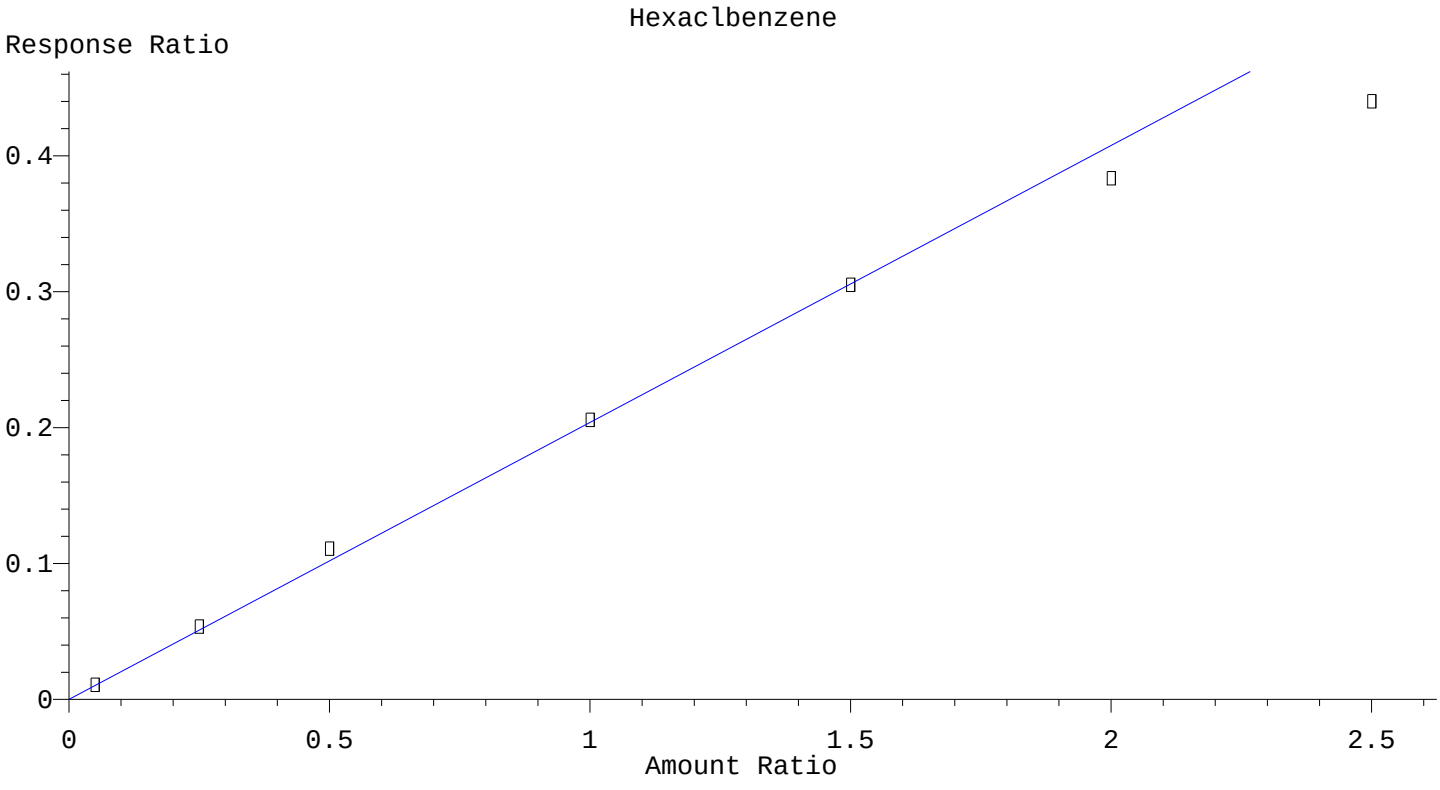
Resp Ratio = 4.40e-001 * Amt
RF Rel Std Dev = 11.3% Curve Fit: Avg RF



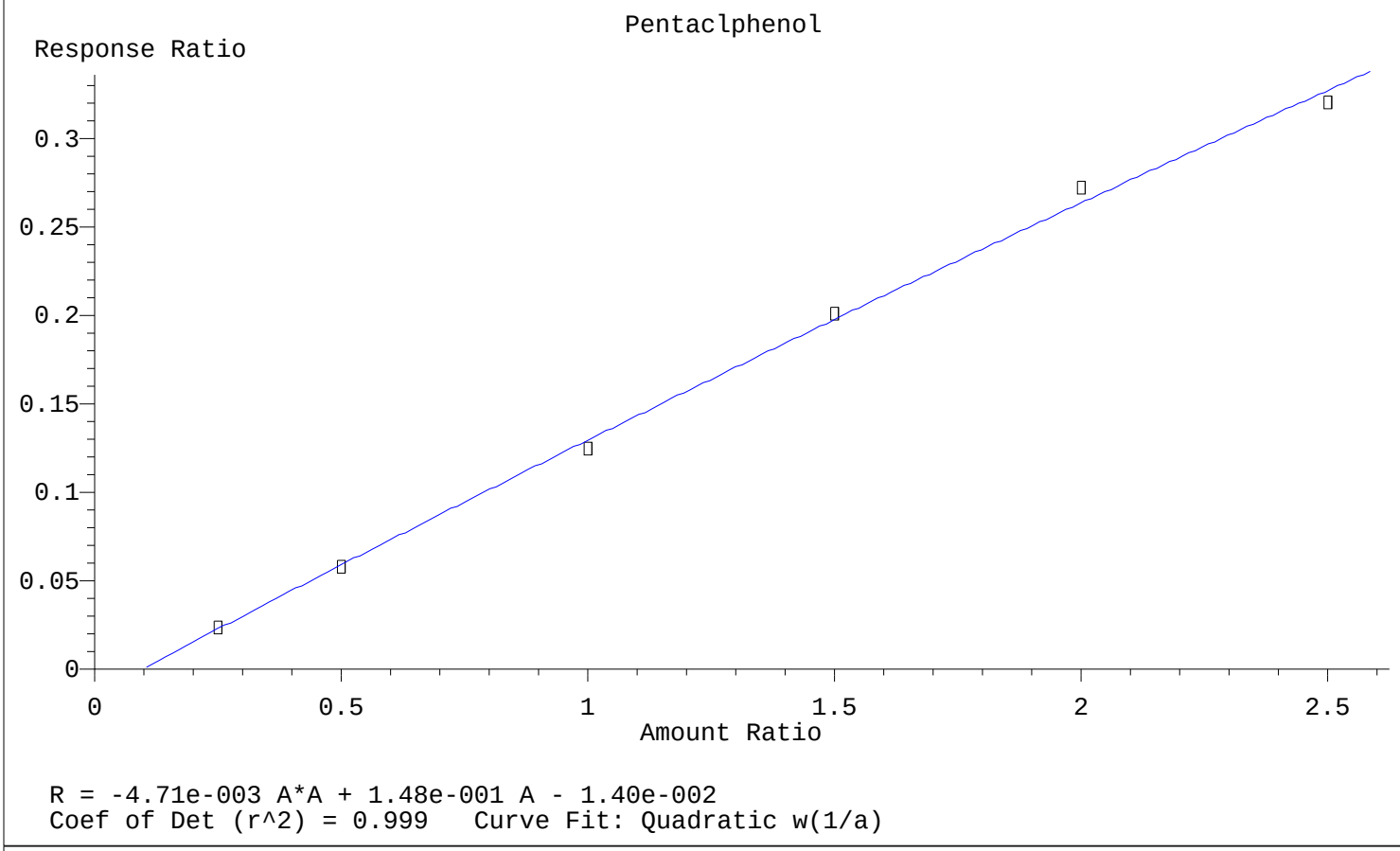
Resp Ratio = 1.59e-001 * Amt
RF Rel Std Dev = 10.4% Curve Fit: Avg RF



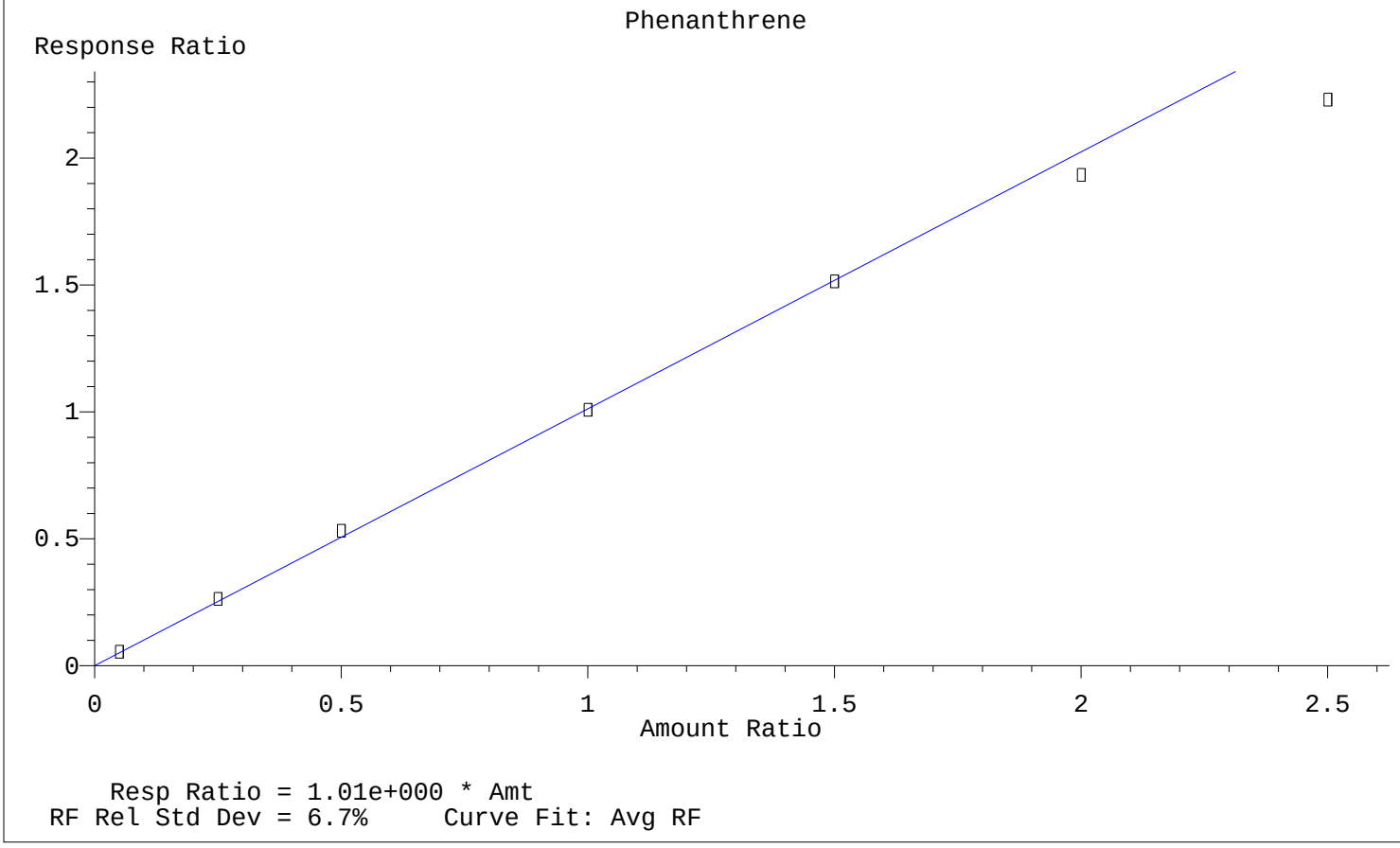
Resp Ratio = 2.12e-001 * Amt
RF Rel Std Dev = 6.9% Curve Fit: Avg RF



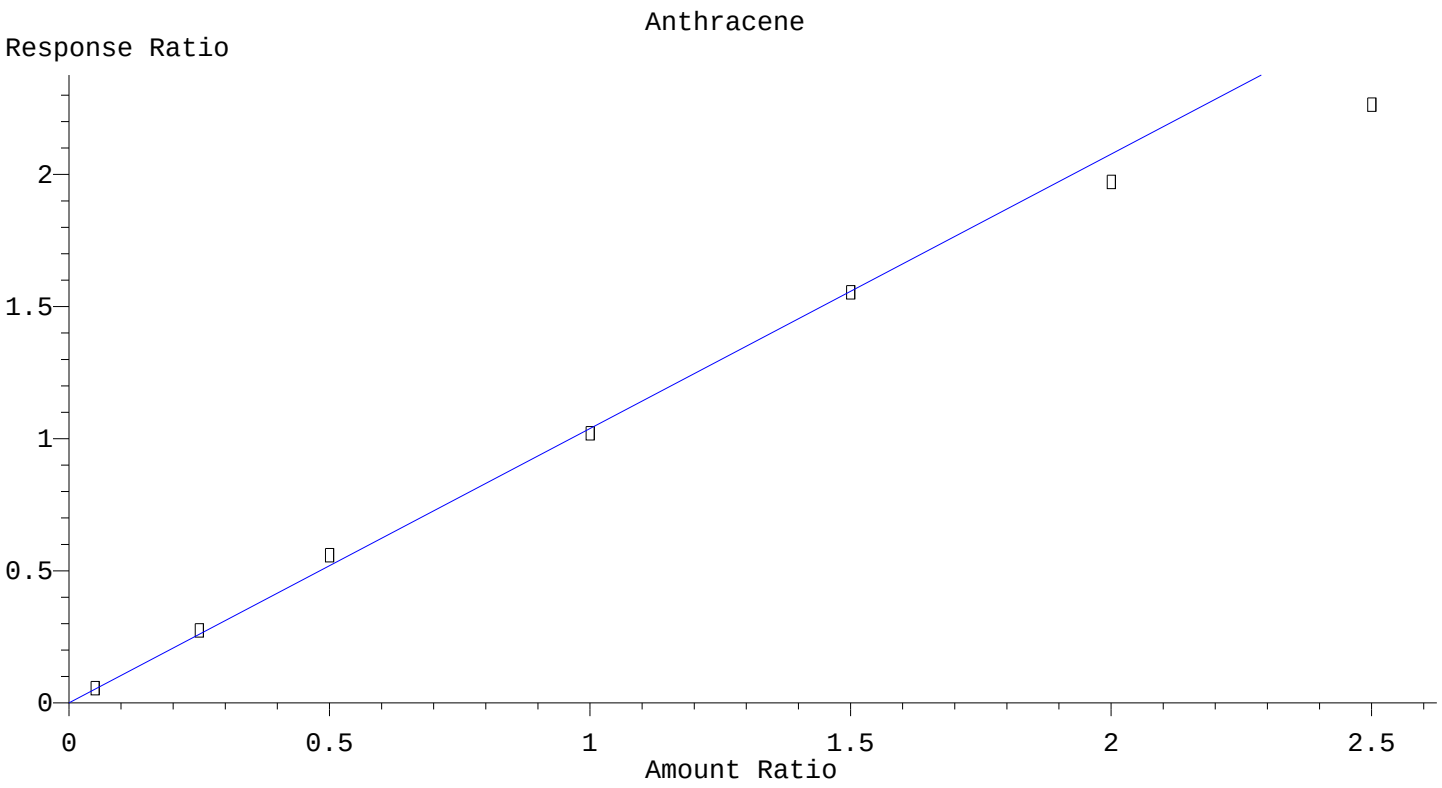
Resp Ratio = 2.04e-001 * Amt
RF Rel Std Dev = 7.6% Curve Fit: Avg RF



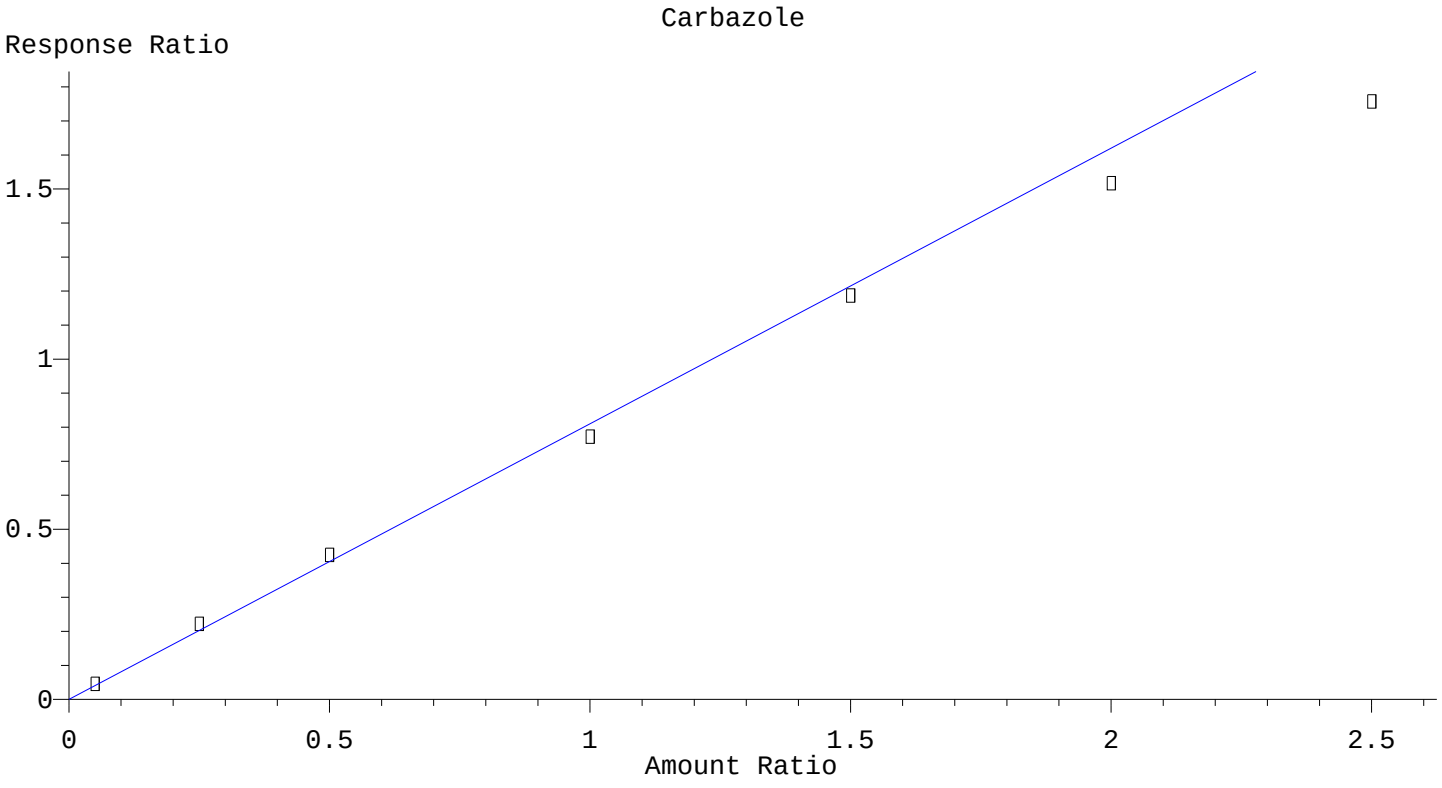
R = -4.71e-003 A*A + 1.48e-001 A - 1.40e-002
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)



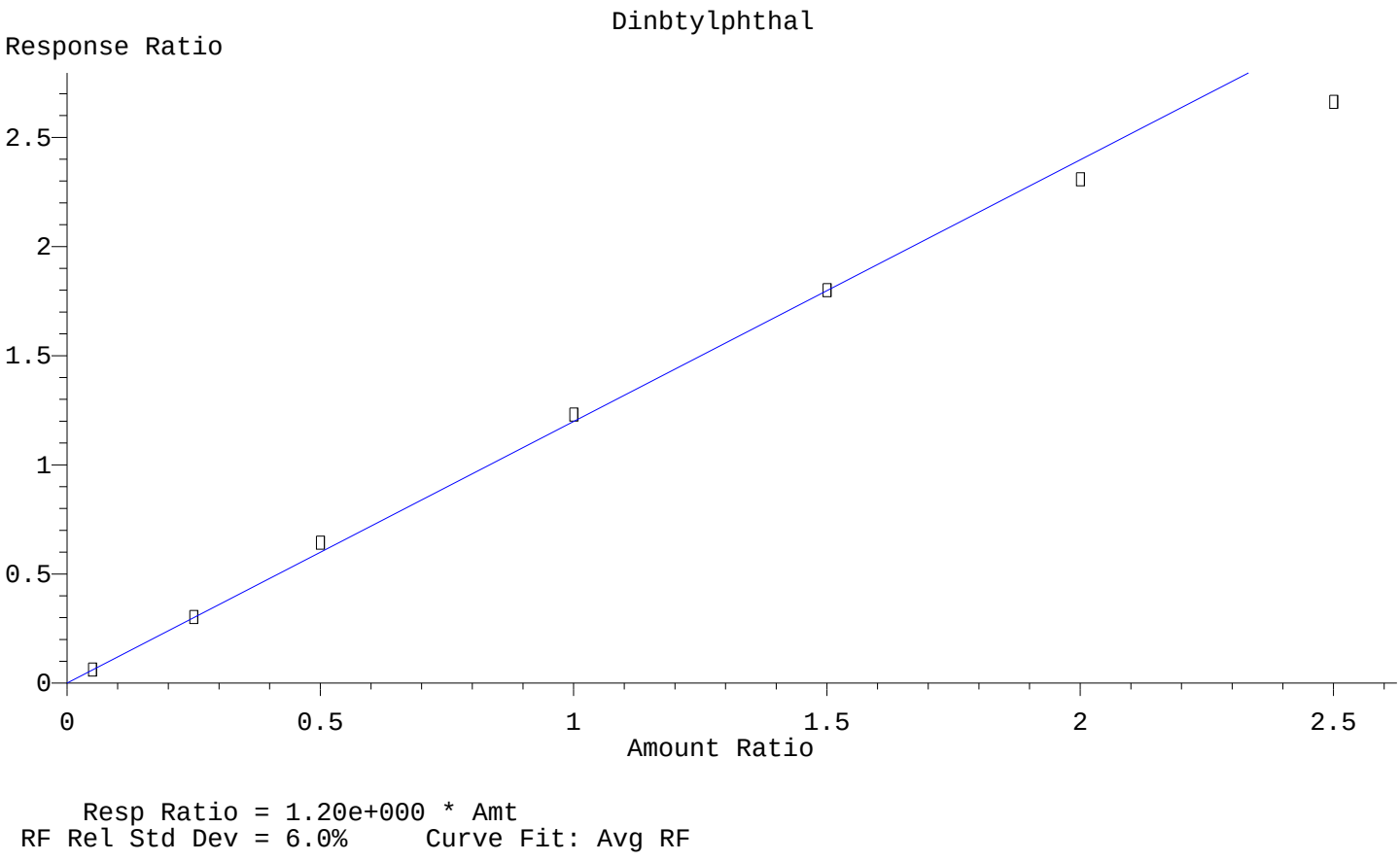
Resp Ratio = 1.01e+000 * Amt
RF Rel Std Dev = 6.7% Curve Fit: Avg RF



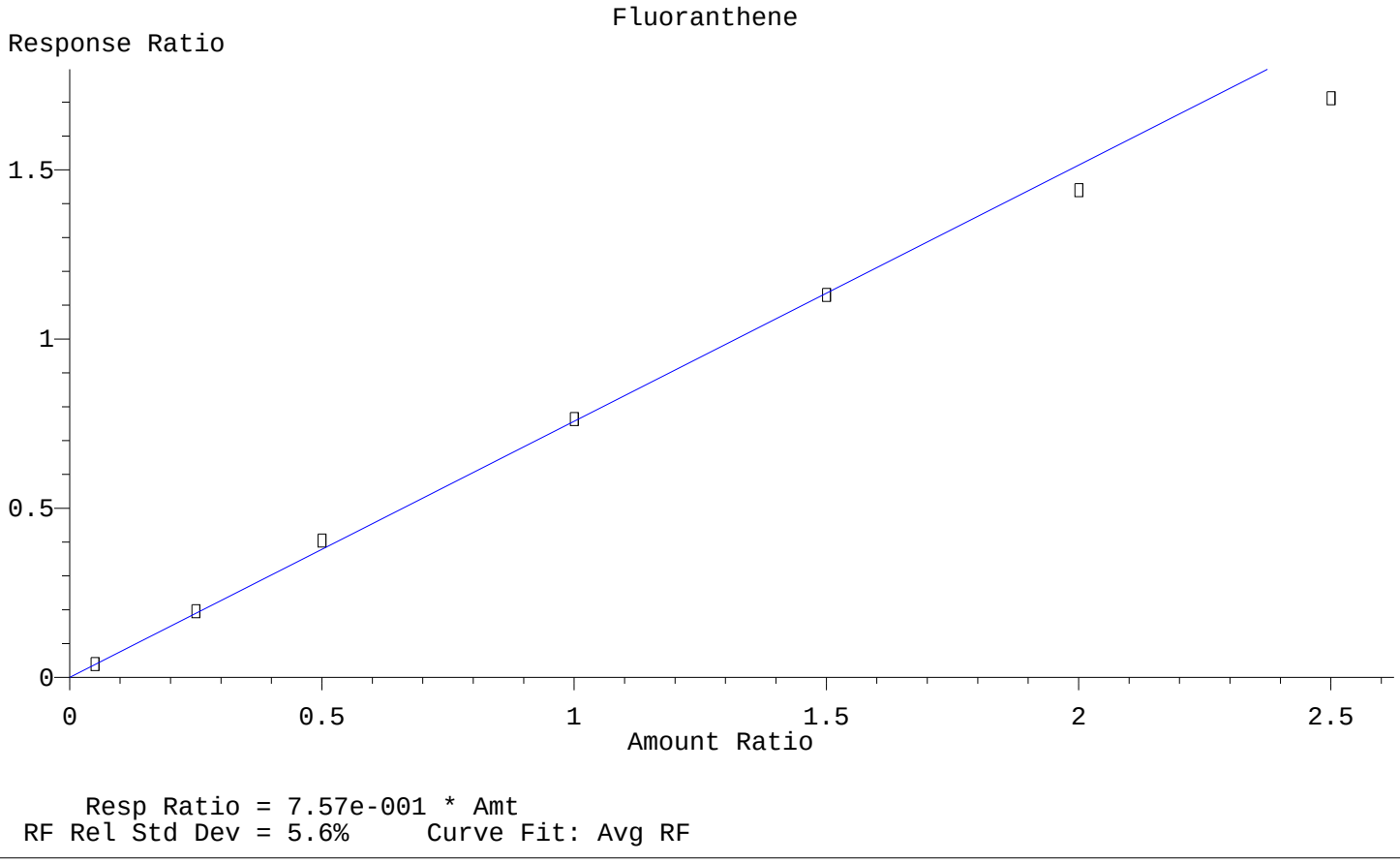
Resp Ratio = 1.04e+000 * Amt
RF Rel Std Dev = 7.4% Curve Fit: Avg RF



Resp Ratio = 8.10e-001 * Amt
RF Rel Std Dev = 9.2% Curve Fit: Avg RF

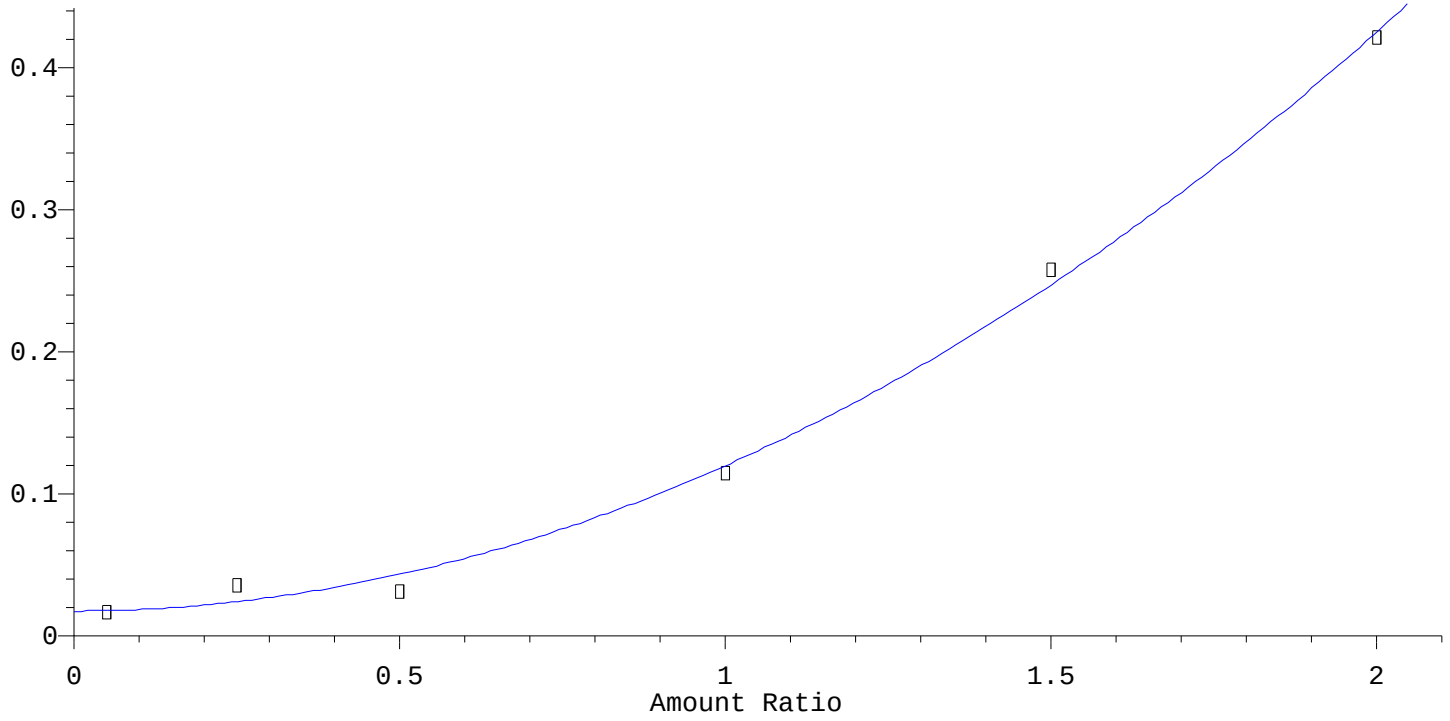


Resp Ratio = 1.20e+000 * Amt
RF Rel Std Dev = 6.0% Curve Fit: Avg RF



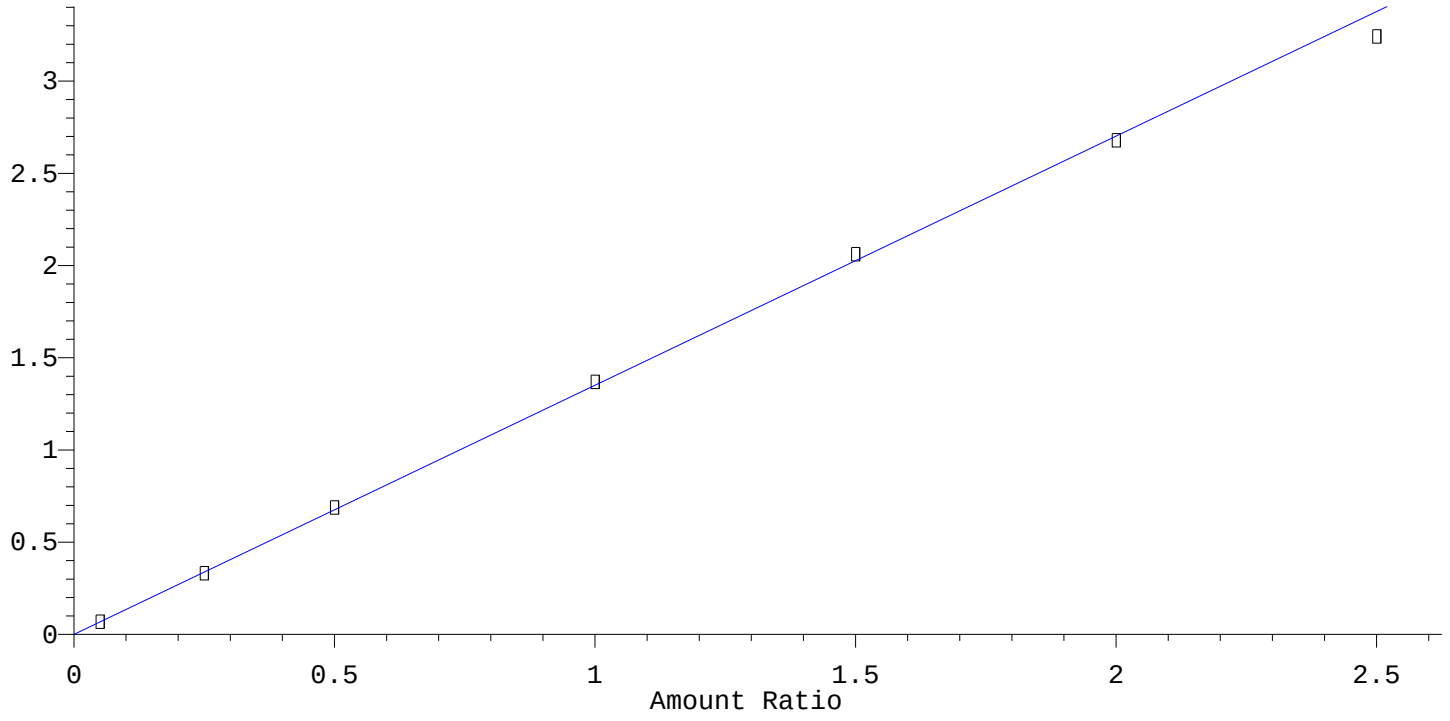
Resp Ratio = 7.57e-001 * Amt
RF Rel Std Dev = 5.6% Curve Fit: Avg RF

Benzidine

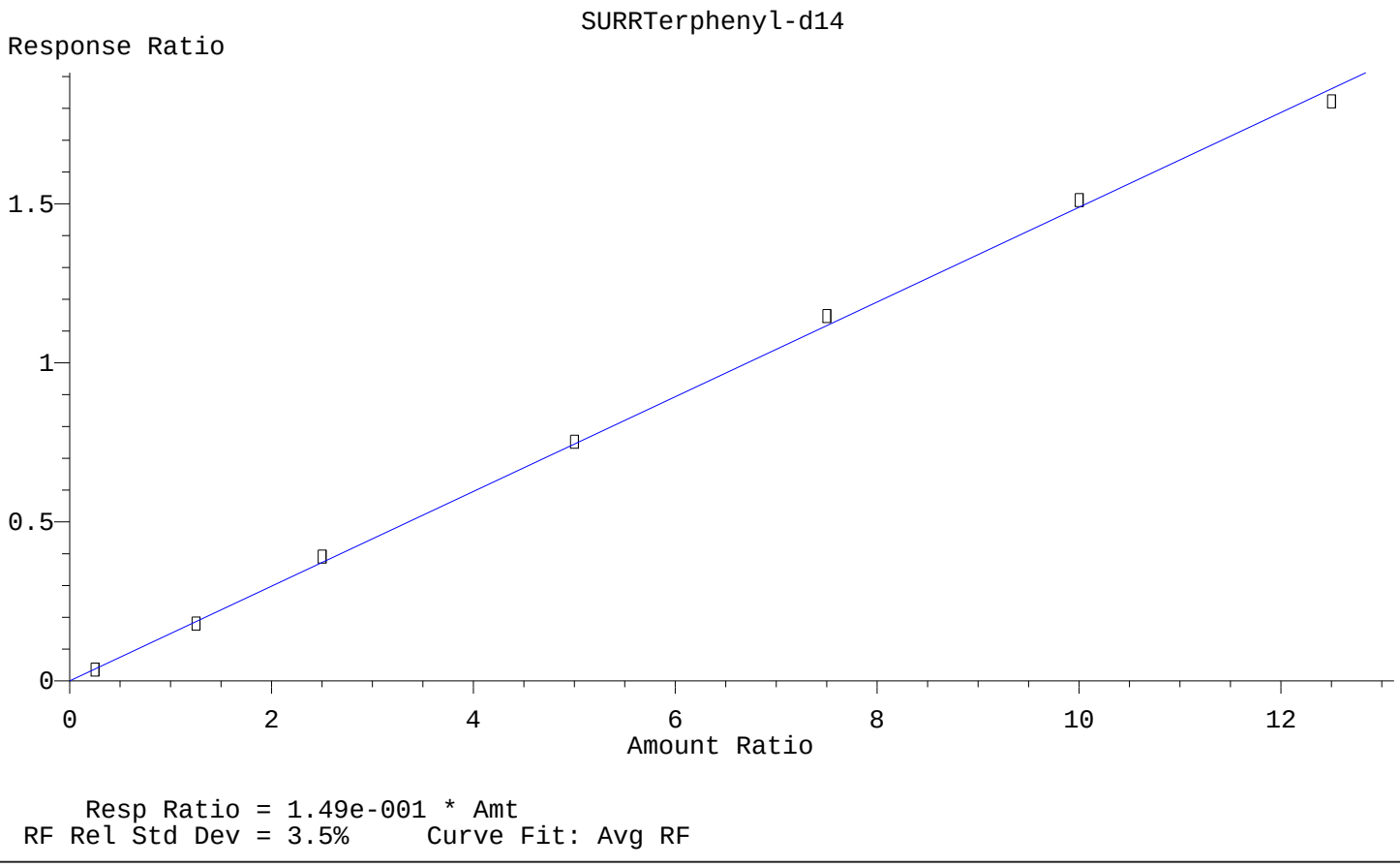


R = 1.01e-001 A*A + 9.31e-004 A + 1.75e-002
Coef of Det (r^2) = 0.992 Curve Fit: Quadratic w(1/a)

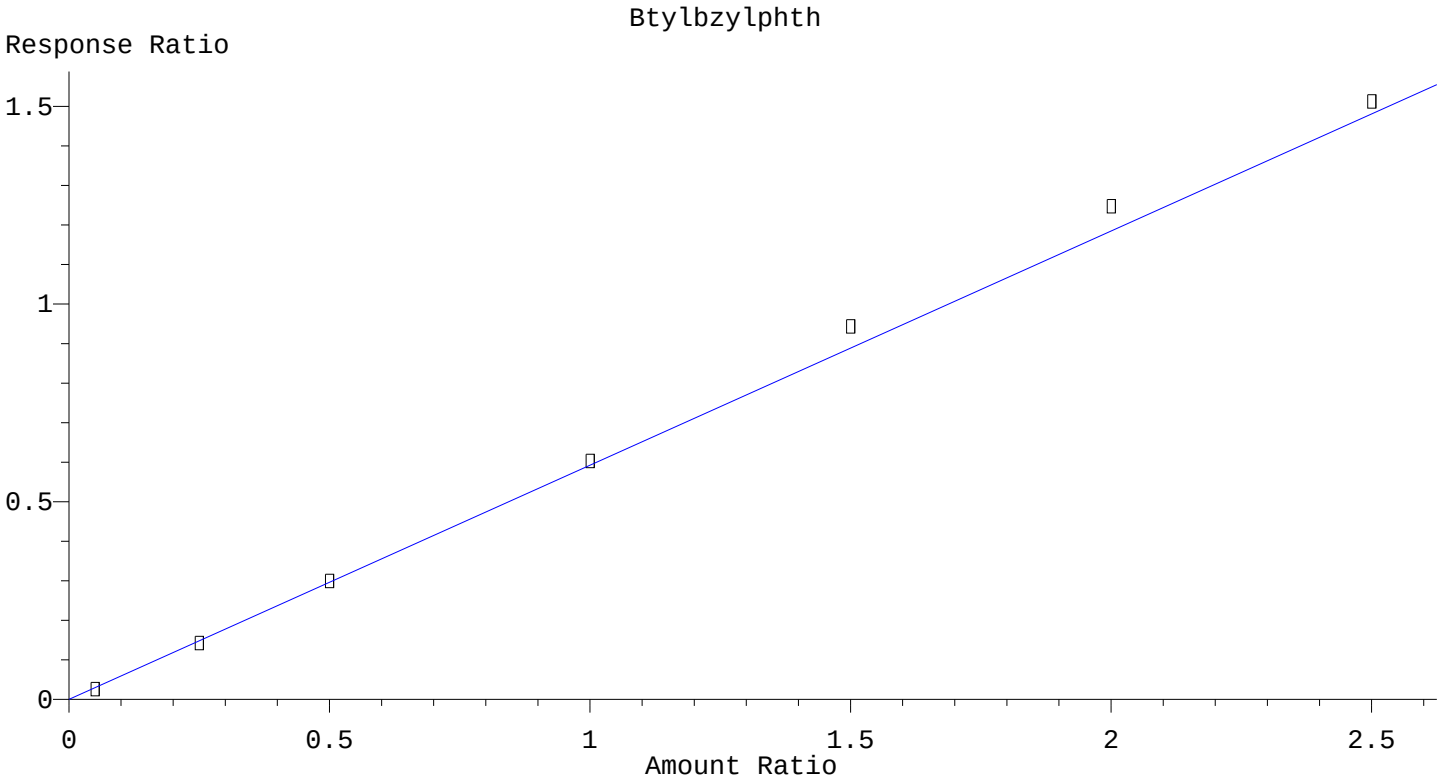
Pyrene



Resp Ratio = 1.35e+000 * Amt
RF Rel Std Dev = 2.3% Curve Fit: Avg RF

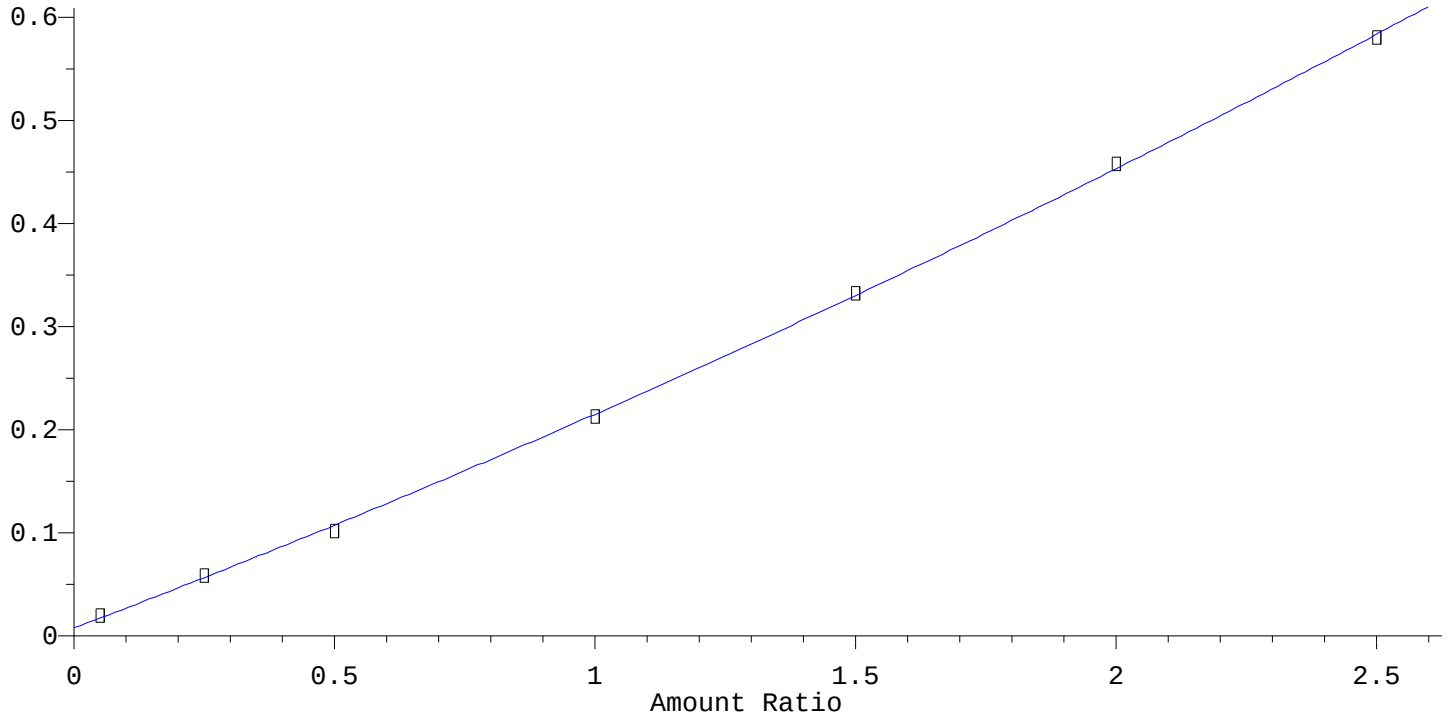


Resp Ratio = 1.49e-001 * Amt
RF Rel Std Dev = 3.5% Curve Fit: Avg RF



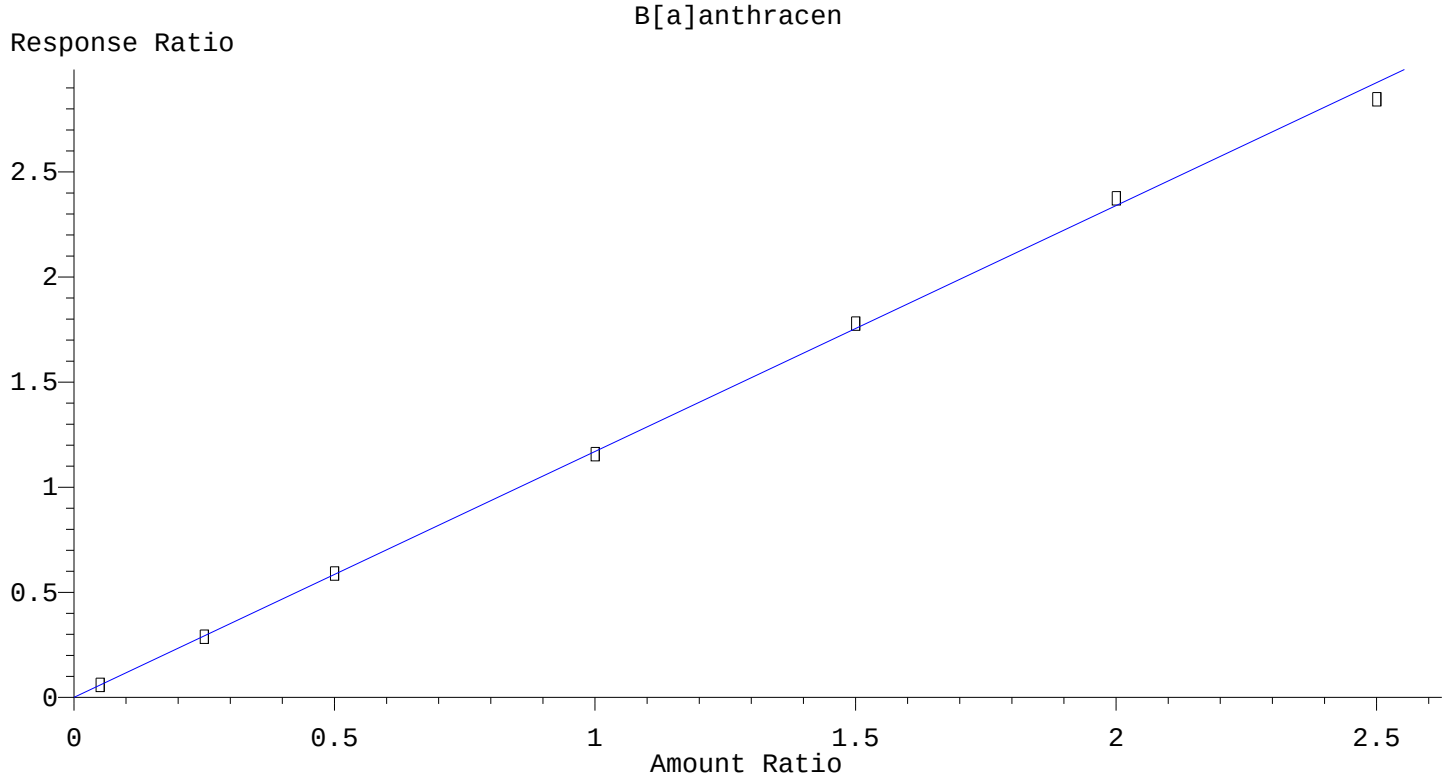
Resp Ratio = 5.92e-001 * Amt
RF Rel Std Dev = 6.4% Curve Fit: Avg RF

33Diclbnzidin

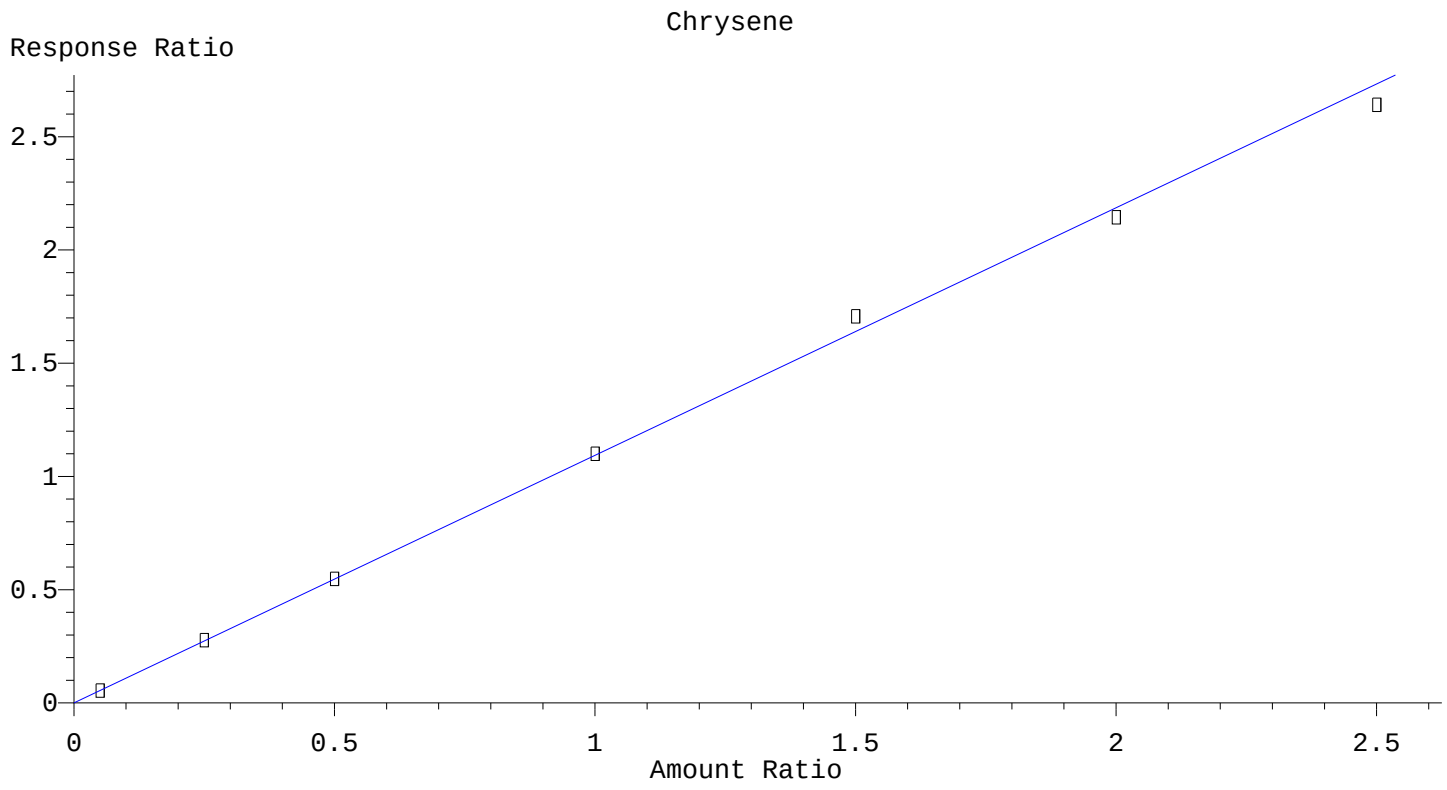


R = 1.53e-002 A*A + 1.92e-001 A + 7.54e-003
Coef of Det (r^2) = 1.000 Curve Fit: Quadratic

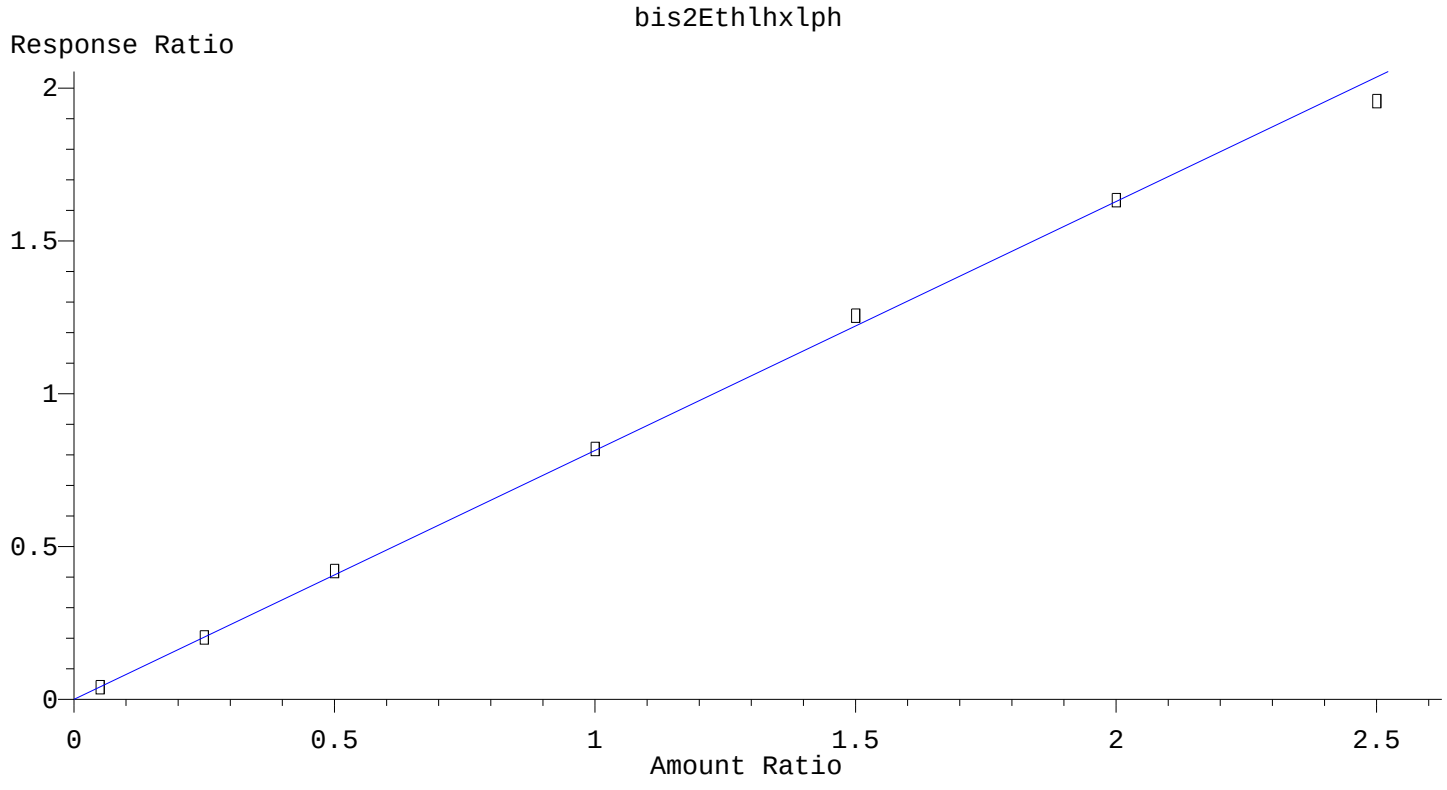
B[a]anthracen



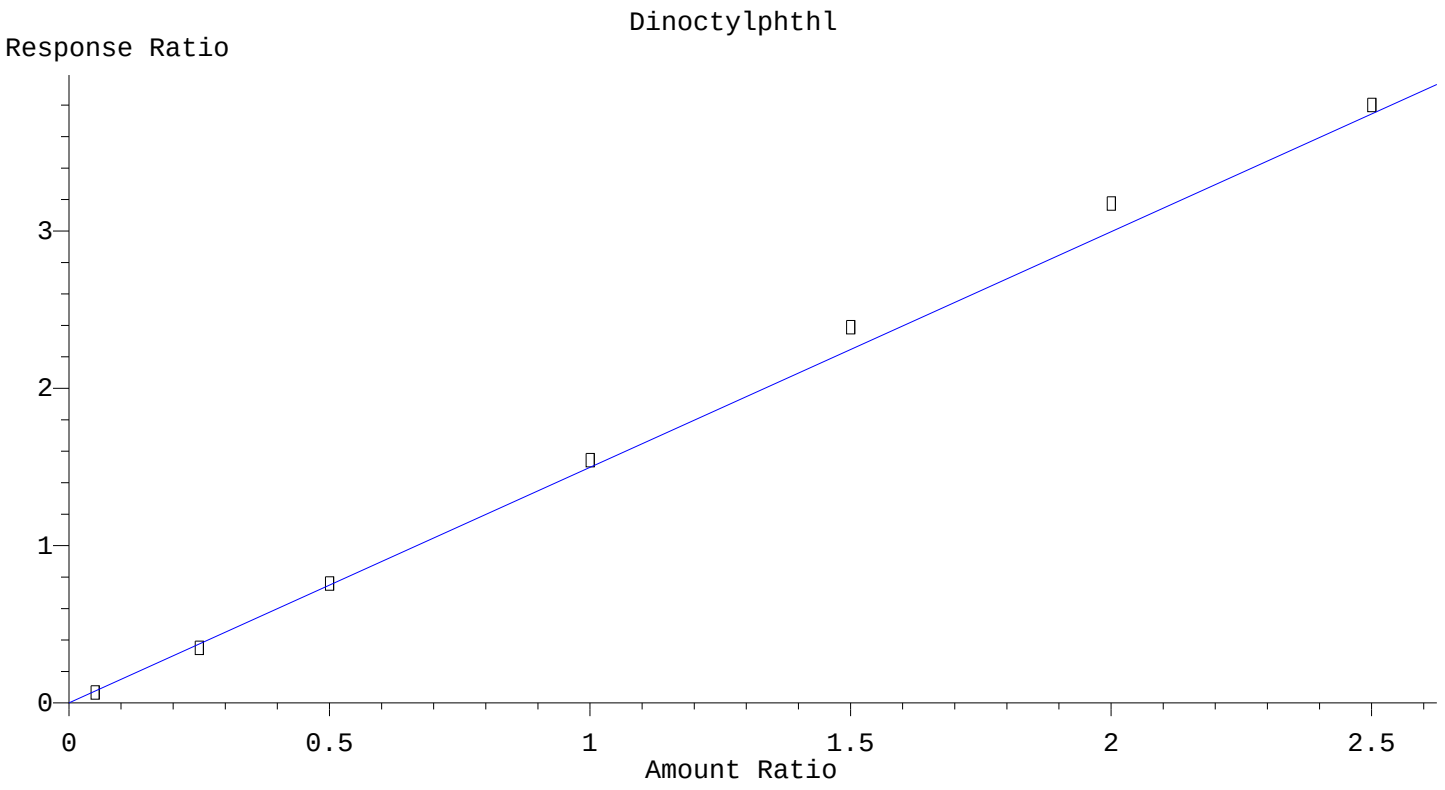
Resp Ratio = 1.17e+000 * Amt
RF Rel Std Dev = 1.7% Curve Fit: Avg RF



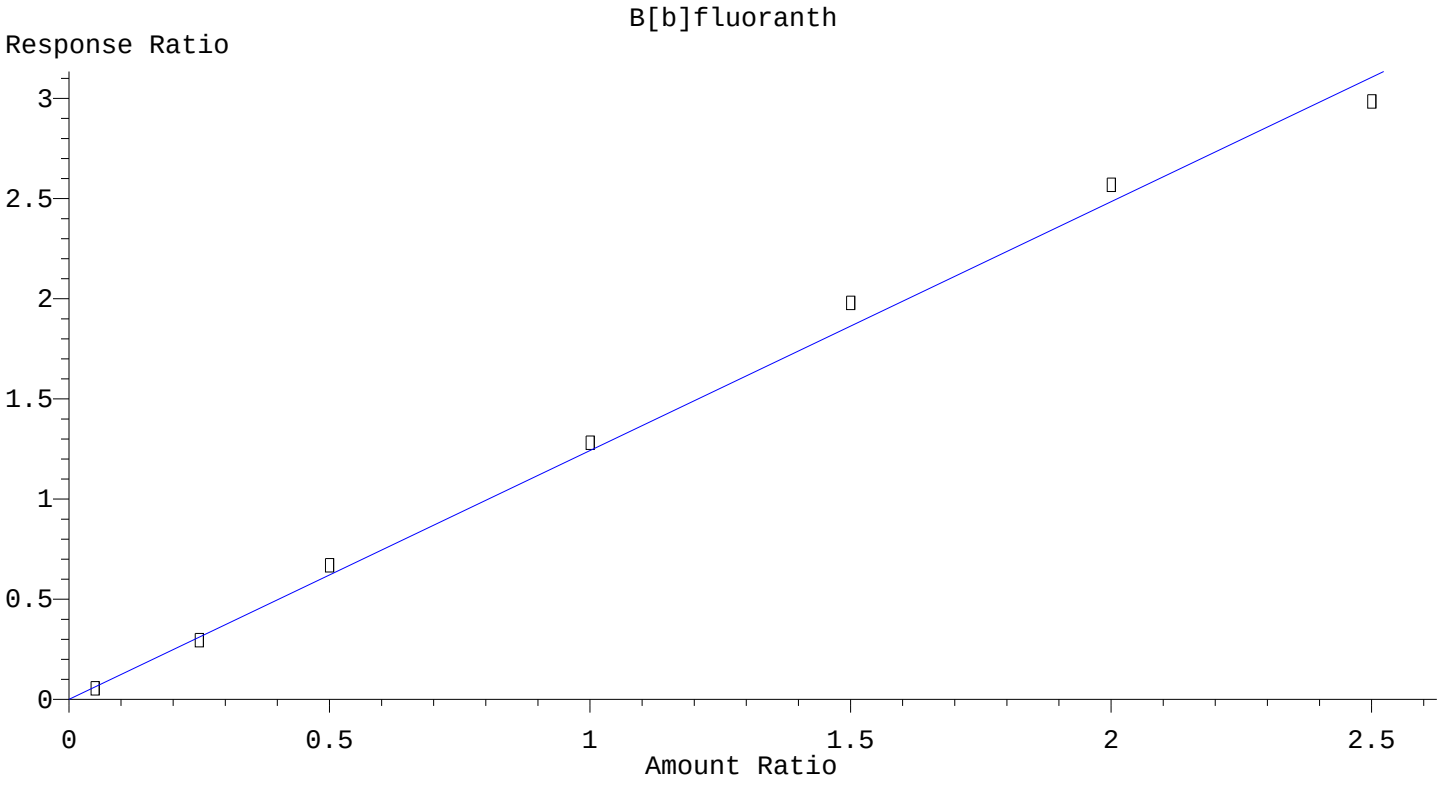
Resp Ratio = 1.09e+000 * Amt
RF Rel Std Dev = 2.4% Curve Fit: Avg RF



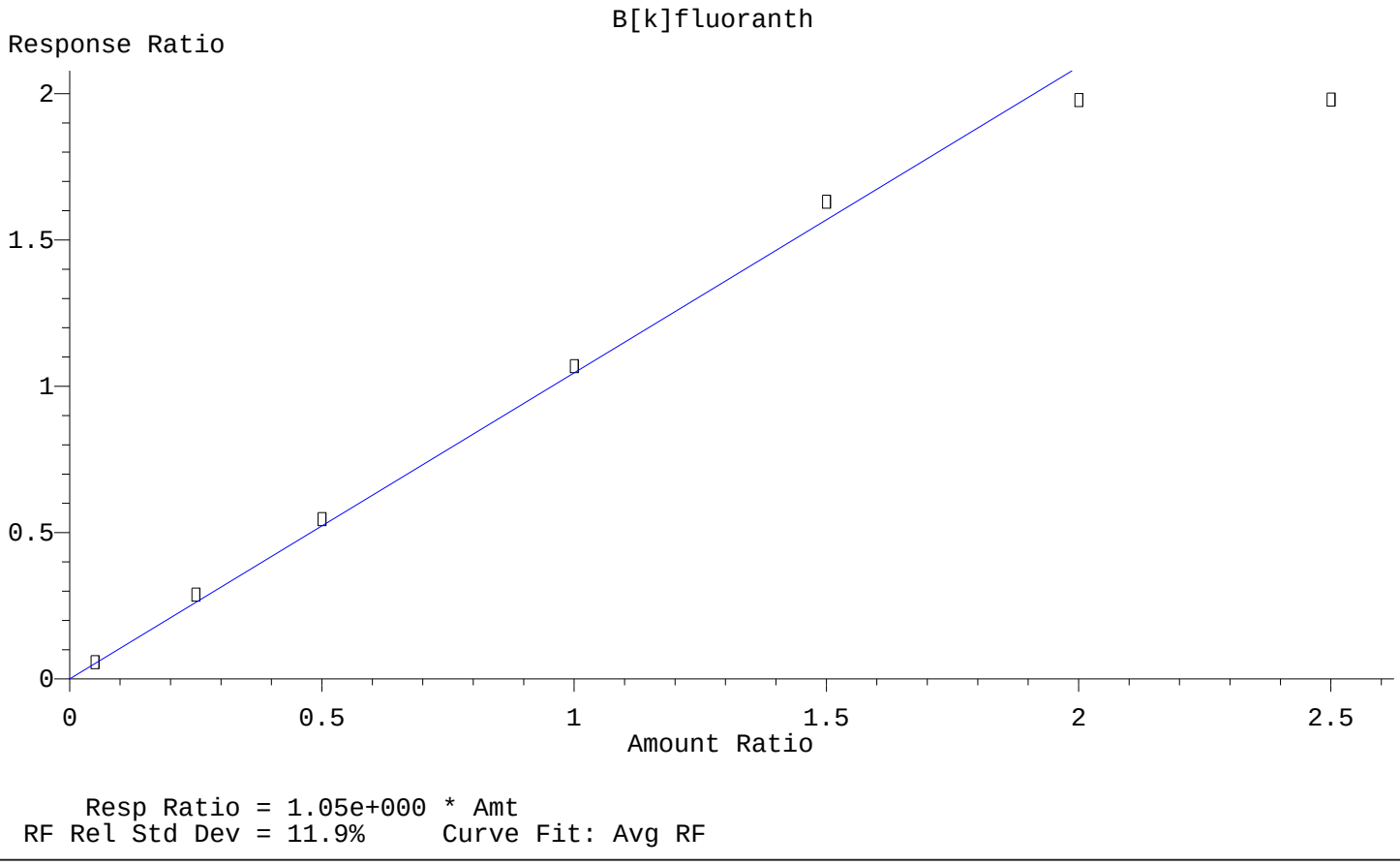
Resp Ratio = 8.15e-001 * Amt
RF Rel Std Dev = 2.5% Curve Fit: Avg RF



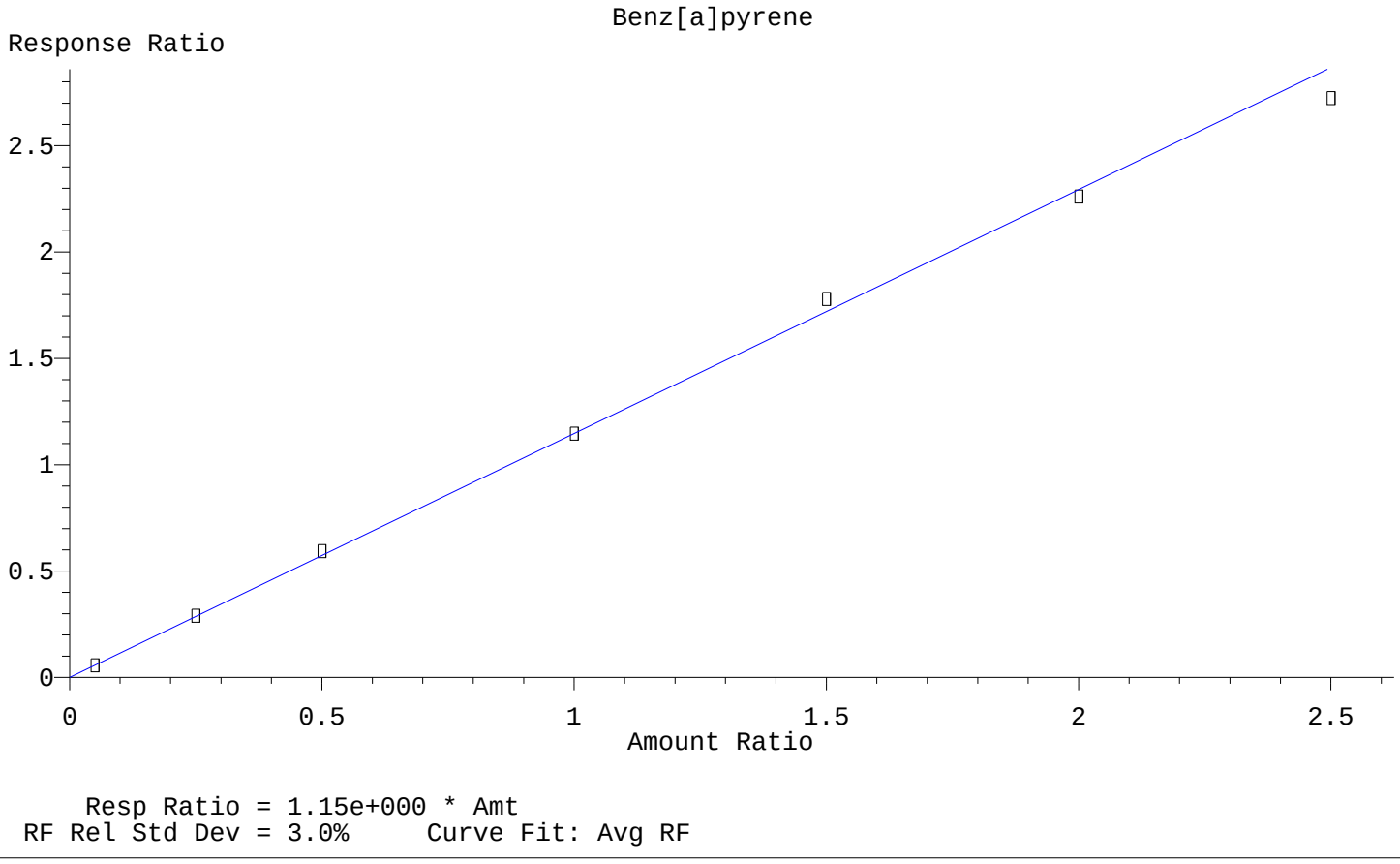
Resp Ratio = 1.50e+000 * Amt
RF Rel Std Dev = 6.7% Curve Fit: Avg RF



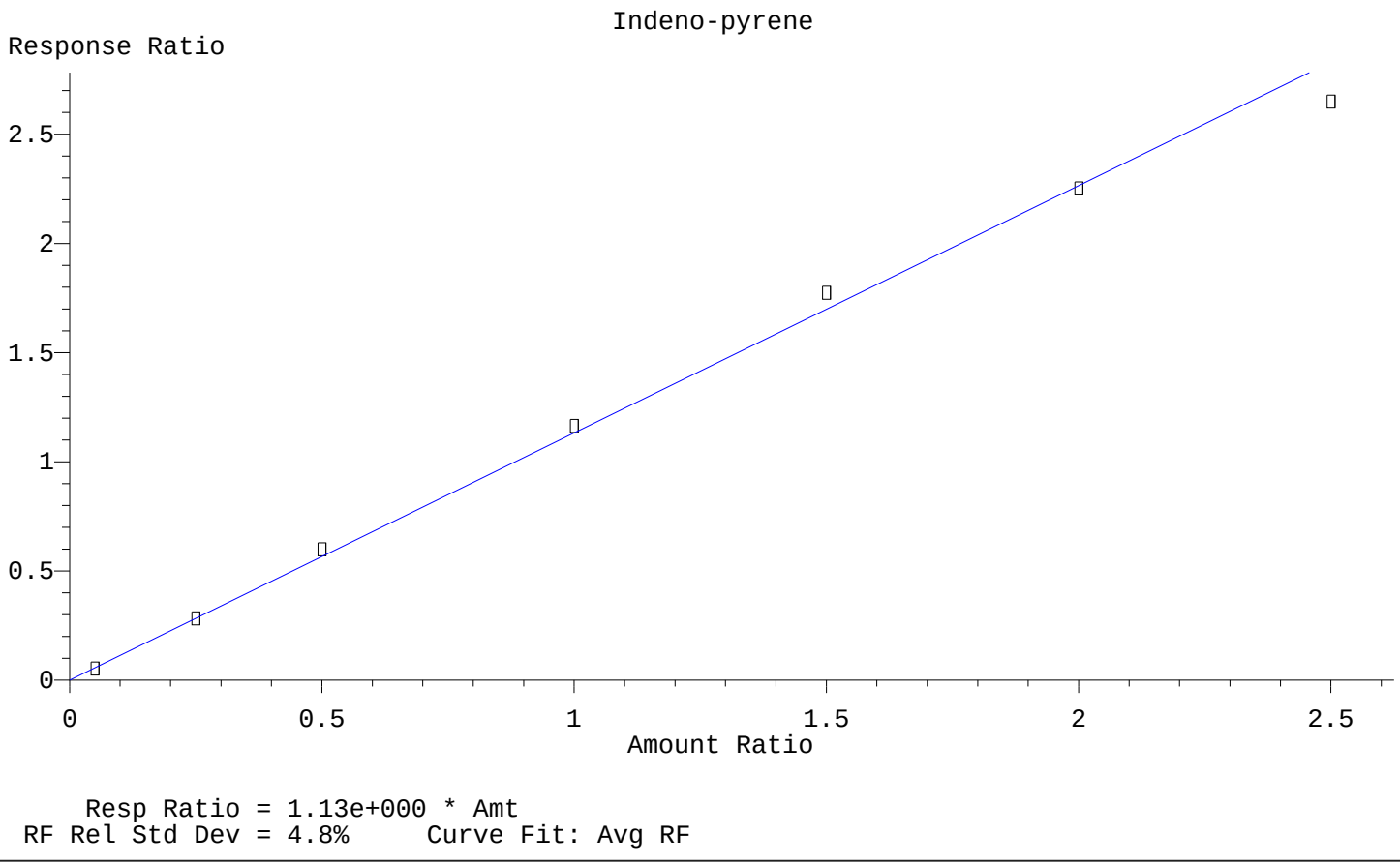
Resp Ratio = 1.24e+000 * Amt
RF Rel Std Dev = 7.0% Curve Fit: Avg RF



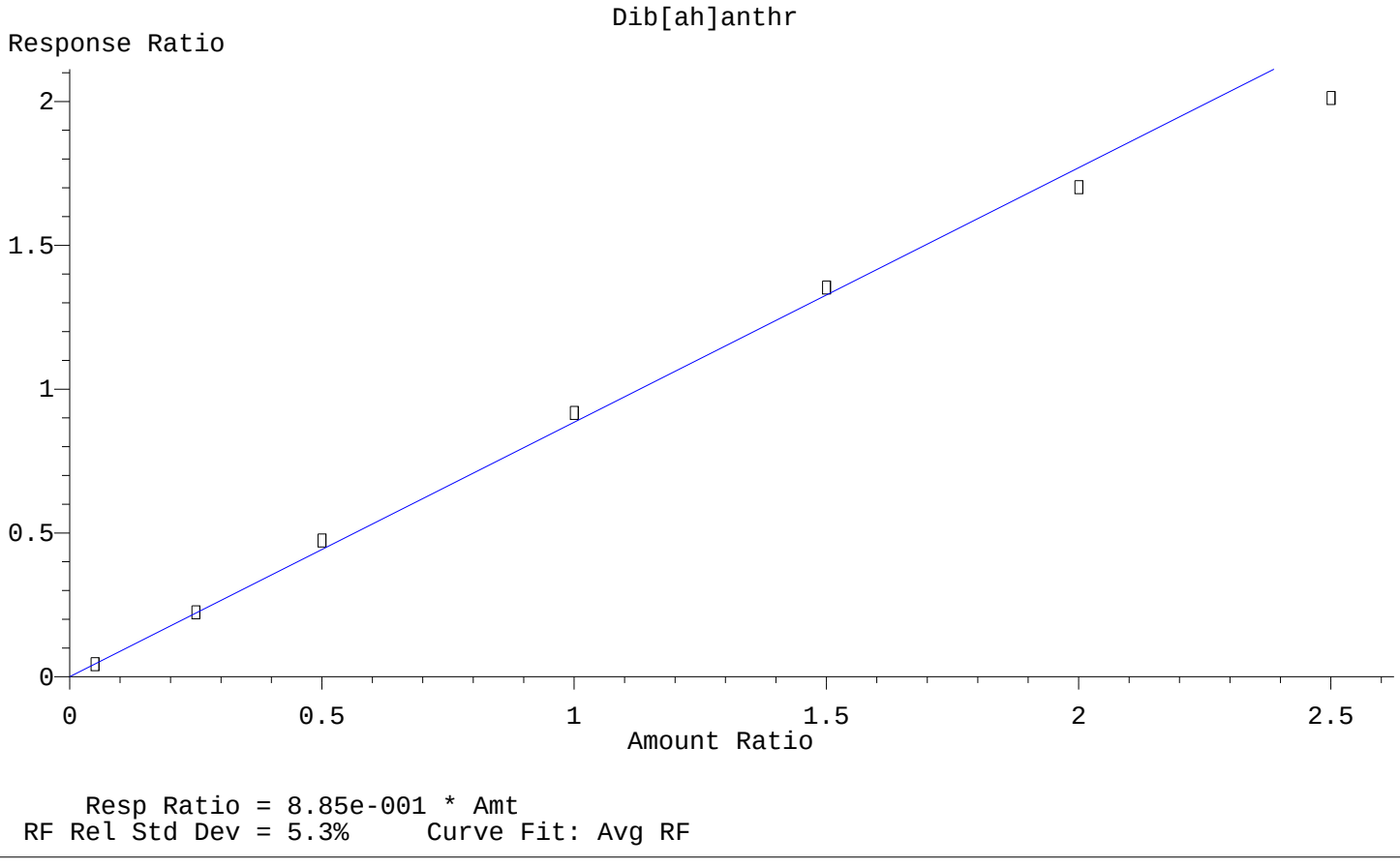
Resp Ratio = 1.05e+000 * Amt
RF Rel Std Dev = 11.9% Curve Fit: Avg RF



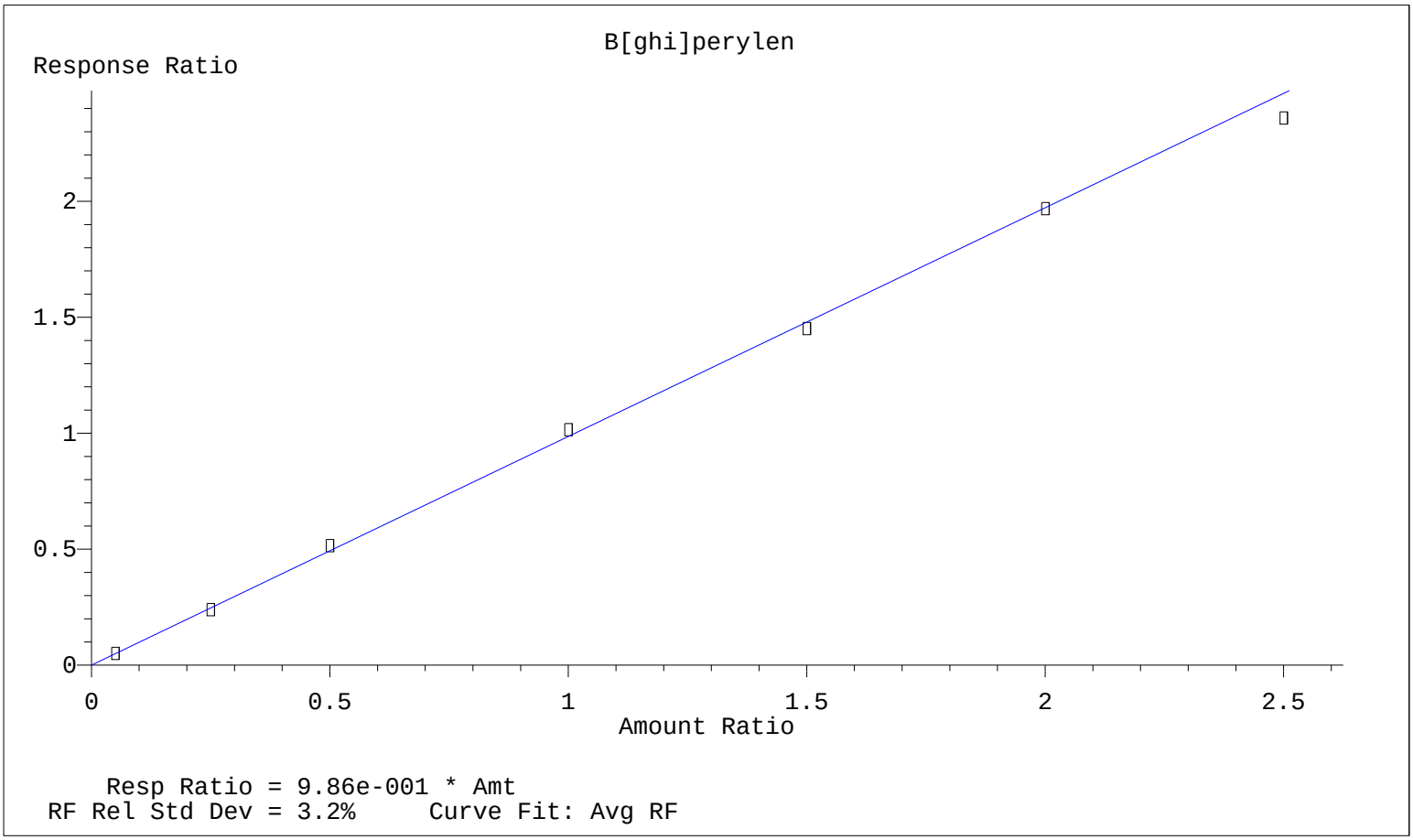
Resp Ratio = 1.15e+000 * Amt
RF Rel Std Dev = 3.0% Curve Fit: Avg RF



Resp Ratio = 1.13e+000 * Amt
RF Rel Std Dev = 4.8% Curve Fit: Avg RF



Resp Ratio = 8.85e-001 * Amt
RF Rel Std Dev = 5.3% Curve Fit: Avg RF


B[ghi]perylen
Response Ratio
2
1.5
1
0.5
0
0
0.5
1
1.5
2
2.5
Amount Ratio
Resp Ratio = 9.86e-001 * Amt
RF Rel Std Dev = 3.2%
Curve Fit: Avg RF

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1IB02.D Vial: 2
Acq On : 14 Dec 2010 13:04 Operator: RPN
Sample : InstrumentBlank Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 15:17:16 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	3.365	152	350386	20.00	ug/mL	0.00
21) Naphthalened8	4.894	136	1200888	20.00	ug/mL	0.00
39) Acenaphthened10	6.784	164	848376	20.00	ug/mL	0.00
63) Phenanthrd10	7.747	188	1497769	20.00	ug/mL	0.00
75) Chrysene-d12	9.165	240	868792	20.00	ug/mL	0.00
85) Perylene-d12	10.006	264	800376	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	0.000	112	0	0.00	%REC	
Spiked Amount 100.000	Range 20 - 110		Recovery =	0.00%#		
7) SURRPhenol-d5	3.368	99	3101	0.33	%REC	0.32
Spiked Amount 100.000	Range 10 - 115		Recovery =	0.33%#		
22) SURRNitrbenzened5	0.000	82	0	0.00	%REC	
Spiked Amount 100.000	Range 40 - 110		Recovery =	0.00%#		
44) SURR2Flbiphenyl	0.000	172	0	0.00	%REC	
Spiked Amount 100.000	Range 50 - 110		Recovery =	0.00%#		
62) SURR246Tribrphenl	0.000	330	0	0.00	%REC	
Spiked Amount 100.000	Range 40 - 125		Recovery =	0.00%#		
78) SURRTerphenyl-d14	0.000	244	0	0.00	%REC	
Spiked Amount 100.000	Range 50 - 135		Recovery =	0.00%#		

Target Compounds			Qvalue
2) Ntrsdimeth	0.000	0	N.D.
3) Pyridine	0.000	0	N.D.
5) Aniline	0.000	0	N.D.
6) bis2Clethletr	0.000	0	N.D.
8) Phenol	0.000	0	N.D.
9) 2-Cl-phenol	0.000	0	N.D.
10) 13Diclbenz	0.000	0	N.D.
11) 14Diclbenz	0.000	0	N.D.
12) 12Diclbenz	0.000	0	N.D.
13) Benzyl alcoho	0.000	0	N.D.
14) bis2clispreth	0.000	0	N.D.
15) 2Methylphenol	0.000	0	N.D.
16) Ntrspyrrol	0.000	0	N.D.
17) Acetophenone	0.000	0	N.D.
18) Hexaclethane	0.000	0	N.D.
19) N-Ntrsdinprop	0.000	0	N.D.
20) 3&4Methylphenol	0.000	0	N.D.
23) Nitrobenzene	0.000	0	N.D.
24) Isophorone	0.000	0	N.D.
25) 2-Nitrophenol	0.000	0	N.D.
26) 24Dimthpheno	0.000	0	N.D.
27) bis2clethoxym	0.000	0	N.D.
28) 24Diclphenol	0.000	0	N.D.
29) 124Triclbenz	0.000	0	N.D.
30) Benzoic acid	0.000	0	N.D.
31) Naphthalene	0.000	0	N.D.
32) 4-Cl-aniline	0.000	0	N.D.
33) 26Diclphenol	0.000	0	N.D.
34) Hexaclprop	0.000	0	N.D.
35) Hexaclbutdien	0.000	0	N.D.
36) 4Cl3methylphe	0.000	0	N.D.
37) 2Methylnaphth	0.000	0	N.D.
38) 1Methylnaphth	0.000	0	N.D.
40) Hxclcycpentdi	0.000	0	N.D.

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1IB02.D Vial: 2
Acq On : 14 Dec 2010 13:04 Operator: RPN
Sample : InstrumentBlank Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 15:17:16 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

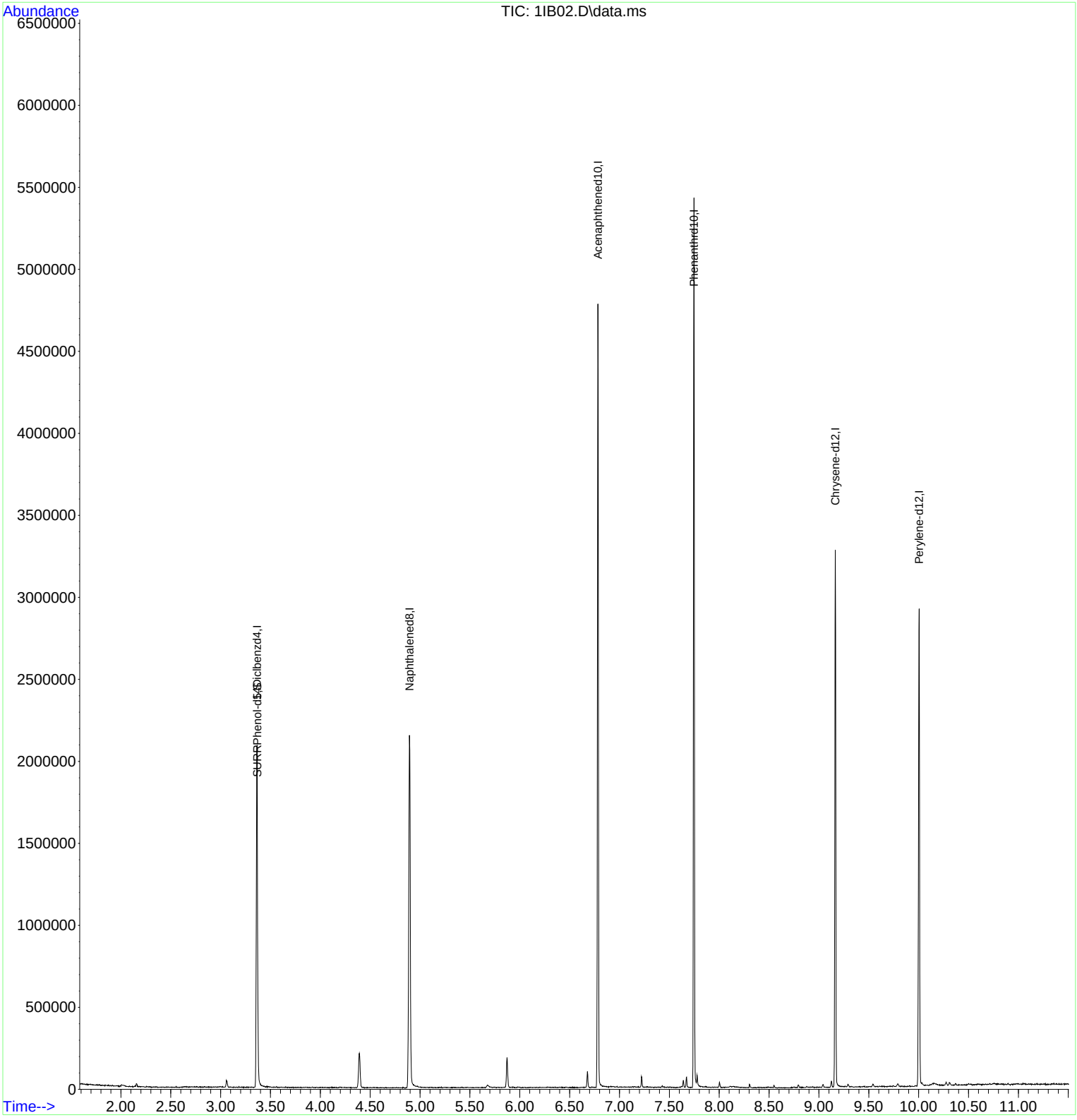
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1245Tetrclbenz	0.000		0			N.D.
42) 246Triclpheno	0.000		0			N.D.
43) 245Triclpheno	0.000		0			N.D.
45) 2Clnaphthalen	0.000		0			N.D.
46) 2Nitroaniline	0.000		0			N.D.
47) Acnaphthylene	0.000		0			N.D.
48) Dimethylphtha	0.000		0			N.D.
49) 26Dinitrotolu	0.000		0			N.D.
50) Acenaphthene	0.000		0			N.D.
51) 3Nitroaniline	0.000		0			N.D.
52) 24Dinitphenol	0.000		0			N.D.
53) Dibenzofuran	0.000		0			N.D.
54) 24Dinitrotolu	0.000		0			N.D.
55) 4-Nitrophenol	0.000		0			N.D.
56) 2,3,5,6-Tetrachlorop	0.000		0			N.D.
57) 2,3,4,6-Tetrachlorop	0.000		0			N.D.
58) Fluorene	0.000		0			N.D.
59) 4Clphlphlethr	0.000		0			N.D.
60) Diethylphthal	0.000		0			N.D.
61) 4Nitroaniline	0.000		0			N.D.
64) 46Dinit2mylph	0.000		0			N.D.
65) Ntrsdiphlam&Diphlam	0.000		0			N.D.
66) Azobenz&12Diphlhyd	0.000		0			N.D.
67) 4Brphlphlethr	0.000		0			N.D.
68) Hexaclbenzene	0.000		0			N.D.
69) Pentaclphenol	0.000		0			N.D.
70) Phenanthrene	0.000		0			N.D.
71) Anthracene	0.000		0			N.D.
72) Carbazole	0.000		0			N.D.
73) Dinbtylphthal	8.119	149	1063			N.D.
74) Fluoranthene	0.000		0			N.D.
76) Benzidine	0.000		0			N.D.
77) Pyrene	0.000		0			N.D.
79) Btylbzylphth	0.000		0			N.D.
80) 33Diclbnzidin	0.000		0			N.D.
81) B[a]anthracen	0.000		0			N.D.
82) Chrysene	0.000		0			N.D.
83) bis2Ethlhxlph	0.000		0			N.D.
84) Dinoctylphthl	0.000		0			N.D.
86) B[b]fluoranth	0.000		0			N.D.
87) B[k]fluoranth	0.000		0			N.D.
88) Benz[a]pyrene	0.000		0			N.D.
89) Indeno-pyrene	0.000		0			N.D.
90) Dib[ah]anthr	0.000		0			N.D.
91) B[ghi]perylen	0.000		0			N.D.

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1IB02.D Vial: 2
Acq On : 14 Dec 2010 13:04 Operator: RPN
Sample : InstrumentBlank Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 15:17:16 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICAL1.D Vial: 9
Acq On : 14 Dec 2010 15:14 Operator: RPN
Sample : I CAL 1ug/ml SVMS4679 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 15:29:06 2010

RPN 10/15/10

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Dec 14 15:28:40 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	3.365	152	225652	20.00	ug/mL	0.00
21) Naphthalened8	4.894	136	772148	20.00	ug/mL	0.00
39) Acenaphthened10	6.784	164	542403	20.00	ug/mL	0.00
63) Phenanthrd10	7.747	188	969364	20.00	ug/mL	0.00
75) Chrysene-d12	9.165	240	580344	20.00	ug/mL	0.00
85) Perylene-d12	10.003	264	564145	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	2.343	112	11617	2.20	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery =	2.20%#		
7) SURRPhenol-d5	3.044	99	12584	2.04	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery =	2.04%#		
22) SURRNitrbenzened5	3.976	82	10014	4.00	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery =	4.00%#		
44) SURR2Flbiphenyl	6.267	172	37887	5.03	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery =	5.03%#		
62) SURR246Tribrphenl	7.321	330	3510	4.10	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery =	4.10%#		
78) SURRTerphenyl-d14	8.608	244	20577	4.77	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery =	4.77%#		
Target Compounds						Qvalue
2) Ntrsdimeth	1.683	74	6209	0.7634	ug/mL	93
3) Pyridine	1.709	79	11947	0.8719	ug/mL#	70
5) Aniline	3.061	93	15722	0.8880	ug/mL#	40
6) bis2Clethletr	3.132	93	10907	0.9420	ug/mL	99
8) Phenol	3.056	94	13386	0.8047	ug/mL#	39
9) 2-Cl-phenol	3.161	128	13468	0.9440	ug/mL	84
10) 13Diclbenz	3.306	146	17327	1.0181	ug/mL	98
11) 14Diclbenz	3.383	146	16977	1.0150	ug/mL	89
12) 12Diclbenz	3.530	146	14962	0.9400	ug/mL	92
13) Benzyl alcoho	3.555	108	4592	0.8970	ug/mL#	1
14) bis2clispreth	3.689	45	20982	0.9285	ug/mL	95
15) 2Methylphenol	3.667	108	10310	0.8851	ug/mL	84
16) Ntrspyrrol	3.783	100	5229	0.8977	ug/mL#	73
17) Acetophenone	3.812	105	15733	0.9243	ug/mL	76
18) Hexaclethane	3.900	117	5848	0.9919	ug/mL	98
19) N-Ntrsdinprop	3.829	70	7488	0.8802	ug/mL	78
20) 3&4Methylphenol	3.851	108	10102	0.8644	ug/mL	99
23) Nitrobenzene	3.999	77	10200	0.8707	ug/mL	91
24) Isophorone	4.309	82	20307	0.8709	ug/mL	79
25) 2-Nitrophenol	4.405	139	5579	0.7604	ug/mL	96
26) 24Dimthpheno	4.522	107	10258	0.8755	ug/mL	91
27) bis2clethoxym	4.650	93	11942	0.8399	ug/mL	84
28) 24Diclphenol	4.744	162	10774	0.9086	ug/mL	76
29) 124Triclbenz	4.834	180	14418	0.9582	ug/mL	85
30) Benzoic acid	0.000		0	N.D.		
31) Naphthalene	4.923	128	38946	1.0325	ug/mL	98
32) 4-Cl-aniline	5.053	127	14012	1.0161	ug/mL	85
33) 26Diclphenol	5.045	162	9906	0.9093	ug/mL	76
34) Hexaclprop	5.059	213	8827	0.8548	ug/mL	91
35) Hexaclbutdien	5.147	225	9834	0.9675	ug/mL	82
36) 4Cl3methylphe	5.795	107	8843	0.6426	ug/mL	91
37) 2Methylnaphth	5.877	141	28562	1.0310	ug/mL	88
38) 1Methylnaphth	5.974	141	29624	1.0519	ug/mL	95
40) Hxclcycpentdi	6.053	237	5910	0.9731	ug/mL	85

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICAL1.D Vial: 9
Acq On : 14 Dec 2010 15:14 Operator: RPN
Sample : I CAL 1ug/ml SVMS4679 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 15:29:06 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Dec 14 15:28:40 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

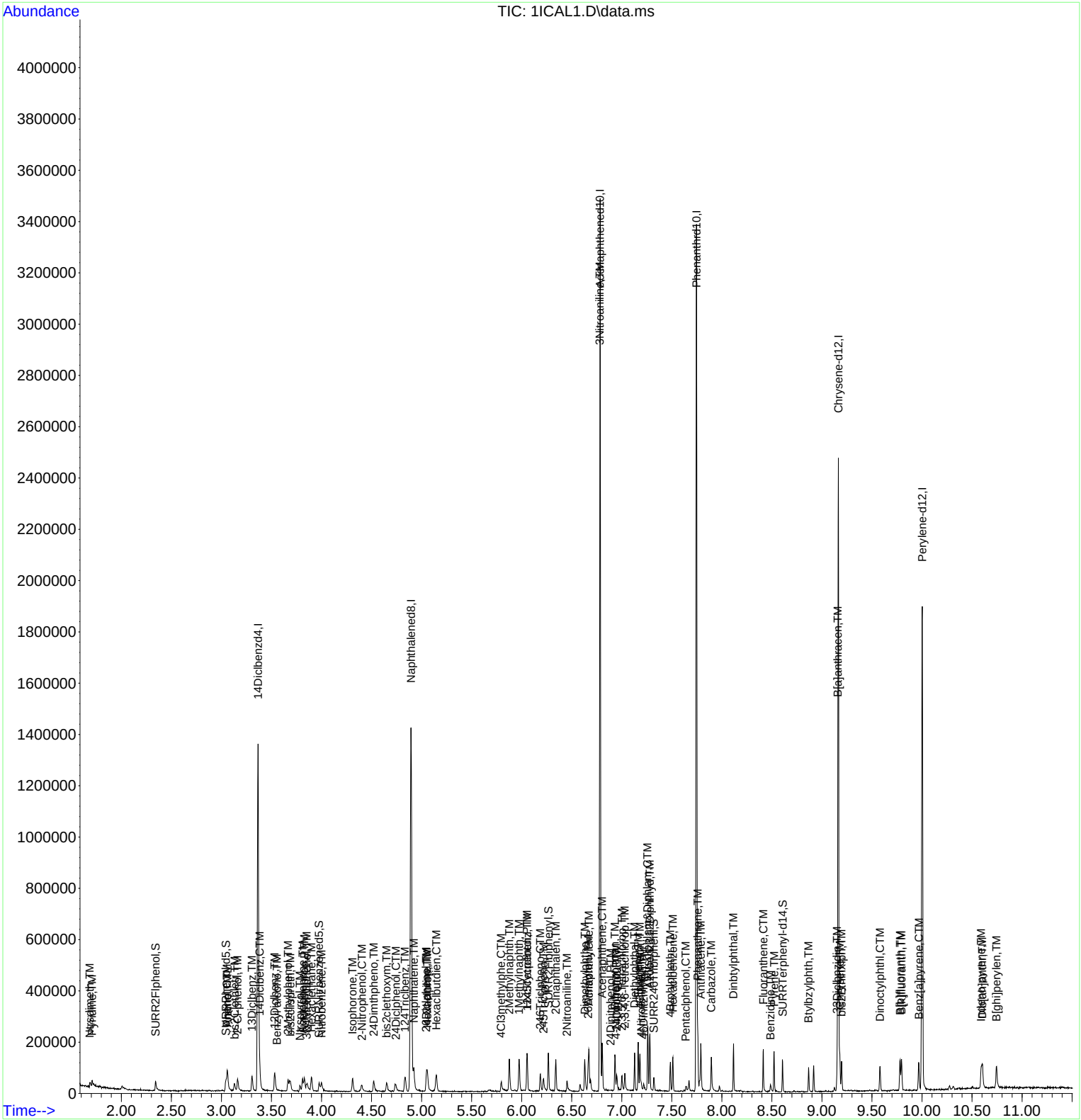
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.056	216	19833	1.0811 ug/mL	94
42) 246Triclpheno	6.187	196	9498	0.8569 ug/mL	93
43) 245Triclpheno	6.218	196	9334	0.7430 ug/mL	95
45) 2Clnaphthalen	6.340	162	32276	0.9952 ug/mL	97
46) 2Nitroaniline	6.451	65	6741	0.8502 ug/mL	85
47) Acnaphthylene	6.673	152	52859	1.0724 ug/mL	99
48) Dimethylphtha	6.630	163	36554	0.9896 ug/mL	96
49) 26Dinitrotolu	6.664	165	7276	0.9603 ug/mL	85
50) Acenaphthene	6.804	153	33269	1.0490 ug/mL	92
51) 3Nitroaniline	6.781	138	6579	1.0811 ug/mL#	63
52) 24Dinitphenol	6.889	184	261	2.9319 ug/mL#	45
53) Dibenzofuran	6.931	168	45265	1.0322 ug/mL	99
54) 24Dinitrotolu	6.951	165	9754	0.9256 ug/mL	67
55) 4-Nitrophenol	6.943	109	1486	0.5046 ug/mL#	42
56) 2,3,5,6-Tetrachlorop	7.003	232	6204	1.2390 ug/mL	95
57) 2,3,4,6-Tetrachlorop	7.031	232	7374	0.7877 ug/mL	85
58) Fluorene	7.164	166	35539	0.9884 ug/mL	97
59) 4Clphlphlethr	7.182	204	19296	1.0245 ug/mL	94
60) Diethylphthal	7.128	149	35713	0.9678 ug/mL	95
61) 4Nitroaniline	7.196	138	5338	0.8576 ug/mL	90
64) 46Dinit2mylph	7.218	198	2502	1.8548 ug/mL	92
65) Ntrsdiphlam&Diphlam	7.258	169	46669	2.1948 ug/mL	96
66) Azobenz&12Diphlhyd	7.281	182	17033	2.2141 ug/mL#	50
67) 4Brphlphlethr	7.486	248	11174	1.0964 ug/mL#	79
68) Hexaclbenzene	7.511	284	10350	1.0659 ug/mL	74
69) Pentaclphenol	7.639	266	2169	2.2017 ug/mL#	74
70) Phenanthrene	7.758	178	53098	1.0913 ug/mL	96
71) Anthracene	7.790	178	53842	1.0757 ug/mL	98
72) Carbazole	7.895	167	44069	1.1307 ug/mL	98
73) Dinbtylphthal	8.116	149	60285	1.0515 ug/mL	99
74) Fluoranthene	8.415	202	38078	1.0152 ug/mL	84
76) Benzidine	8.486	184	9674	2.2657 ug/mL	86
77) Pyrene	8.523	202	39868	1.0382 ug/mL	89
79) Btylbzylphth	8.866	149	15025	0.8727 ug/mL	97
80) 33Diclbnzidin	9.151	252	11419	1.5877 ug/mL	99
81) B[a]anthracen	9.159	228	34564	1.0122 ug/mL	95
82) Chrysene	9.179	228	31429	0.9902 ug/mL	98
83) bis2Ethlhxlph	9.196	149	23193	0.9960 ug/mL	98
84) Dinoctylphthl	9.580	149	38434	0.8878 ug/mL	96
86) B[b]fluoranth	9.781	252	30948	0.8687 ug/mL	91
87) B[k]fluoranth	9.796	252	32281	1.0928 ug/mL	93
88) Benz[a]pyrene	9.969	252	31903	0.9782 ug/mL	90
89) Indeno-pyrene	10.591	276	30034	0.9499 ug/mL	75
90) Dib[ah]anthr	10.603	278	24737	0.9968 ug/mL	89
91) B[ghi]perylen	10.745	276	28323	1.0443 ug/mL	81

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICAL1.D Vial: 9
Acq On : 14 Dec 2010 15:14 Operator: RPN
Sample : I CAL 1ug/ml SVMS4679 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 15:29:06 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Dec 14 15:28:40 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICAL2.D Vial: 8
Acq On : 14 Dec 2010 14:55 Operator: RPN
Sample : I CAL 5ug/ml SVMS4680 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 15:27:57 2010

RPN
10/15/10

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Dec 14 15:00:22 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	3.365	152	242208	20.00	ug/mL	0.00
21) Naphthalened8	4.894	136	819698	20.00	ug/mL	0.00
39) Acenaphthened10	6.784	164	586024	20.00	ug/mL	0.00
63) Phenanthrd10	7.747	188	1029770	20.00	ug/mL	0.00
75) Chrysene-d12	9.165	240	620832	20.00	ug/mL	0.00
85) Perylene-d12	10.003	264	570332	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	2.337	112	65588	11.28	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 11.28%#			
7) SURRPhenol-d5	3.039	99	76359	11.36	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 11.36%			
22) SURRNitrbenzened5	3.976	82	57373	20.33	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 20.33%#			
44) SURR2Flbiphenyl	6.267	172	198559	24.62	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 24.62%#			
62) SURR246Tribrphenl	7.321	330	20240	12.78	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 12.78%#			
78) SURRTerphenyl-d14	8.605	244	111902	24.34	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 24.34%#			
Target Compounds						Qvalue
2) Ntrsdimeth	1.672	74	36158	3.8676	ug/mL	94
3) Pyridine	1.683	79	65670	4.1484	ug/mL	93
5) Aniline	3.059	93	88987	4.5046	ug/mL#	46
6) bis2Clethletr	3.130	93	57824	4.4734	ug/mL	97
8) Phenol	3.050	94	83739	4.6030	ug/mL	74
9) 2-Cl-phenol	3.161	128	76551	5.0249	ug/mL	89
10) 13Diclbenz	3.306	146	89569	4.9002	ug/mL	96
11) 14Diclbenz	3.382	146	89773	5.0637	ug/mL	96
12) 12Diclbenz	3.530	146	85418	4.9964	ug/mL	99
13) Benzyl alcoho	3.542	108	34912	4.3320	ug/mL#	74
14) bis2clispreth	3.687	45	118443	5.0223	ug/mL	87
15) 2Methylphenol	3.664	108	62307	4.9780	ug/mL	92
16) Ntrspyrrol	3.786	100	28711	4.5061	ug/mL#	68
17) Acetophenone	3.812	105	83906	4.3723	ug/mL	95
18) Hexaclethane	3.897	117	30549	4.6133	ug/mL	80
19) N-Ntrsdinprop	3.831	70	41897	4.2949	ug/mL	81
20) 3&4Methylphenol	3.851	108	58677	4.5885	ug/mL	97
23) Nitrobenzene	3.996	77	56708	4.2287	ug/mL	81
24) Isophorone	4.312	82	109686	4.2356	ug/mL	94
25) 2-Nitrophenol	4.400	139	38688	5.0192	ug/mL	87
26) 24Dimthpheno	4.522	107	55544	4.2805	ug/mL	97
27) bis2clethoxym	4.653	93	69940	4.4821	ug/mL	88
28) 24Diclphenol	4.735	162	59288	4.6929	ug/mL	95
29) 124Triclbenz	4.834	180	77660	4.8129	ug/mL	95
30) Benzoic acid	4.667	105	25258	5.8637	ug/mL	78
31) Naphthalene	4.923	128	194333	4.8273	ug/mL	99
32) 4-Cl-aniline	5.048	127	69416	4.5601	ug/mL	96
33) 26Diclphenol	5.048	162	55446	4.7156	ug/mL	96
34) Hexaclprop	5.059	213	51929	4.4578	ug/mL	95
35) Hexaclbutdien	5.147	225	52671	4.7512	ug/mL	96
36) 4Cl3methylphe	5.792	107	67351	4.5067	ug/mL	87
37) 2Methylnaphth	5.874	141	148260	5.1229	ug/mL	91
38) 1Methylnaphth	5.974	141	151847	5.1477	ug/mL	99
40) Hxclcycpentdi	6.053	237	45149	4.3200	ug/mL	98

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICAL2.D Vial: 8
Acq On : 14 Dec 2010 14:55 Operator: RPN
Sample : I CAL 5ug/ml SVMS4680 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 15:27:57 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Dec 14 15:00:22 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

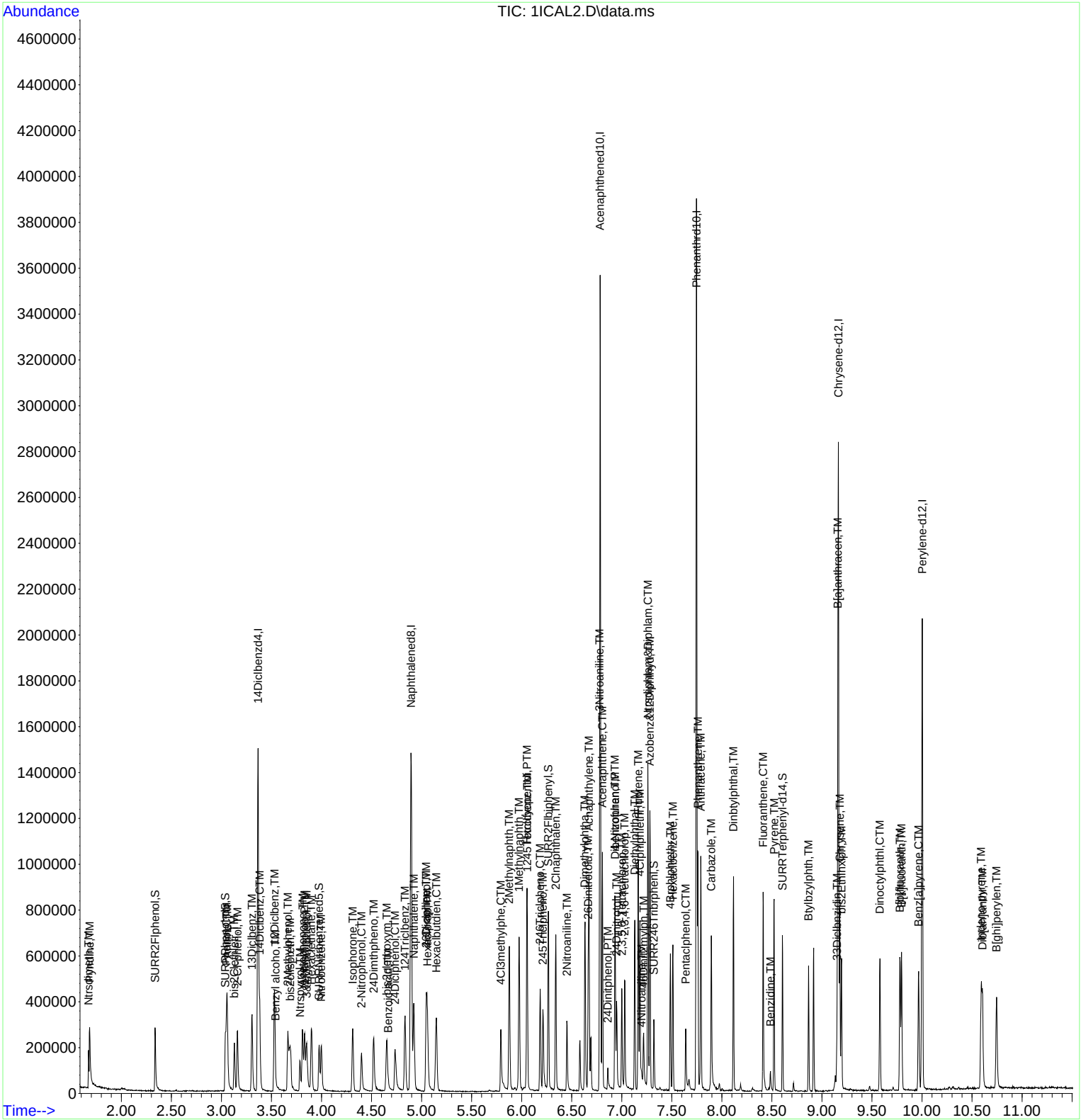
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.056	216	100413	4.9933 ug/mL	91
42) 246Triclpheno	6.184	196	57190	4.7908 ug/mL	96
43) 245Triclpheno	6.213	196	61922	4.5654 ug/mL	89
45) 2Clnaphthalen	6.340	162	174498	4.9969 ug/mL	98
46) 2Nitroaniline	6.451	65	35144	3.8724 ug/mL#	77
47) Acnaphthylene	6.673	152	274233	5.1952 ug/mL	98
48) Dimethylphtha	6.630	163	195974	4.9141 ug/mL	99
49) 26Dinitrotolu	6.664	165	41857	5.1348 ug/mL	74
50) Acenaphthene	6.806	153	169892	5.0140 ug/mL	98
51) 3Nitroaniline	6.778	138	37262	5.5885 ug/mL	93
52) 24Dinitphenol	6.860	184	12976	5.2377 ug/mL#	58
53) Dibenzofuran	6.934	168	233100	4.9194 ug/mL	83
54) 24Dinitrotolu	6.948	165	56688	4.9944 ug/mL#	64
55) 4-Nitrophenol	6.931	109	13062	3.5890 ug/mL	99
56) 2,3,5,6-Tetrachlorop	7.002	232	45000	4.6618 ug/mL	89
57) 2,3,4,6-Tetrachlorop	7.028	232	48354	4.7247 ug/mL	96
58) Fluorene	7.164	166	192149	4.9533 ug/mL	100
59) 4Clphlphlethr	7.181	204	97362	4.6986 ug/mL	95
60) Diethylphthal	7.130	149	189725	4.7087 ug/mL	97
61) 4Nitroaniline	7.199	138	32034	4.8108 ug/mL	74
64) 46Dinit2mylph	7.218	198	26024	5.3019 ug/mL	85
65) Ntrsdiphlam&Diphlam	7.261	169	251530	11.2696 ug/mL	97
66) Azobenz&12Diphlhyd	7.281	182	90998	11.2414 ug/mL#	54
67) 4Brphlphlethr	7.486	248	54089	4.9740 ug/mL#	77
68) Hexaclbenzene	7.511	284	55186	5.4027 ug/mL	93
69) Pentaclphenol	7.639	266	24223	5.7237 ug/mL	91
70) Phenanthrene	7.761	178	271228	5.2819 ug/mL	98
71) Anthracene	7.790	178	282659	5.3450 ug/mL	99
72) Carbazole	7.895	167	228438	5.5449 ug/mL	96
73) Dinbtylphthal	8.116	149	311983	5.1792 ug/mL	99
74) Fluoranthene	8.412	202	201446	4.9617 ug/mL	92
76) Benzidine	8.486	184	22098	10.8887 ug/mL	93
77) Pyrene	8.523	202	205700	5.0525 ug/mL	88
79) Btylbzylphth	8.866	149	88522	4.8351 ug/mL	96
80) 33Diclbnzidin	9.151	252	36369	4.5425 ug/mL	95
81) B[a]anthracen	9.159	228	179292	4.8968 ug/mL	98
82) Chrysene	9.179	228	171906	5.0743 ug/mL	98
83) bis2Ethlhxlph	9.196	149	125701	5.1004 ug/mL	99
84) Dinoctylphthl	9.580	149	217009	4.7047 ug/mL	99
86) B[b]fluoranth	9.779	252	168362	4.6318 ug/mL	93
87) B[k]fluoranth	9.796	252	164181	5.5645 ug/mL	96
88) Benz[a]pyrene	9.966	252	165197	5.0328 ug/mL	93
89) Indeno-pyrene	10.591	276	161378	5.1175 ug/mL	74
90) Dib[ah]anthr	10.605	278	127651	5.1774 ug/mL	91
91) B[ghi]perylen	10.745	276	136494	5.0966 ug/mL	87

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICAL2.D Vial: 8
Acq On : 14 Dec 2010 14:55 Operator: RPN
Sample : I CAL 5ug/ml SVMS4680 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 15:27:57 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Dec 14 15:00:22 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICAL3.D Vial: 7
Acq On : 14 Dec 2010 14:37 Operator: RPN
Sample : I CAL 10ug/ml SVMS4681 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:58:41 2010

RPN 10/15/10

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Dec 14 14:58:31 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	3.365	152	230286	20.00	ug/mL	0.00
21) Naphthalened8	4.897	136	779393	20.00	ug/mL	0.00
39) Acenaphthened10	6.789	164	544997	20.00	ug/mL	0.00
63) Phenanthrd10	7.753	188	978442	20.00	ug/mL	0.00
75) Chrysene-d12	9.162	240	562710	20.00	ug/mL	0.00
85) Perylene-d12	9.997	264	508098	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	2.340	112	134305	23.78	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 23.78%			
7) SURRPhenol-d5	3.042	99	160806	24.64	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 24.64%			
22) SURRNitrbenzened5	3.976	82	122689	43.23	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 43.23%			
44) SURR2Flbiphenyl	6.272	172	400096	54.01	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 54.01%			
62) SURR246Tribrphenl	7.329	330	42226	25.78	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 25.78%#			
78) SURRTerphenyl-d14	8.608	244	219864	52.75	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 52.75%			
Target Compounds						Qvalue
2) Ntrsdimeth	1.678	74	79123	8.3982	ug/mL	93
3) Pyridine	1.683	79	132836	8.2277	ug/mL	77
5) Aniline	3.059	93	179565	9.2032	ug/mL#	45
6) bis2Clethletr	3.132	93	124263	9.9590	ug/mL	97
8) Phenol	3.053	94	172846	9.6987	ug/mL	54
9) 2-Cl-phenol	3.161	128	149957	10.3067	ug/mL	97
10) 13Diclbenz	3.306	146	184267	10.5755	ug/mL	99
11) 14Diclbenz	3.382	146	177935	10.5267	ug/mL	100
12) 12Diclbenz	3.530	146	174813	10.7081	ug/mL	98
13) Benzyl alcoho	3.539	108	75222	9.0336	ug/mL	89
14) bis2clispreth	3.687	45	242467	11.1636	ug/mL	84
15) 2Methylphenol	3.667	108	120726	9.8894	ug/mL	96
16) Ntrspyrrol	3.792	100	59716	9.5654	ug/mL#	66
17) Acetophenone	3.812	105	173172	9.1032	ug/mL	94
18) Hexaclethane	3.900	117	59793	9.1620	ug/mL	74
19) N-Ntrsdinprop	3.834	70	83651	8.5774	ug/mL	85
20) 3&4Methylphenol	3.851	108	121909	9.7671	ug/mL	98
23) Nitrobenzene	3.999	77	110906	8.0175	ug/mL	75
24) Isophorone	4.314	82	223062	8.5858	ug/mL	89
25) 2-Nitrophenol	4.403	139	73632	10.1135	ug/mL	85
26) 24Dimthpheno	4.522	107	118390	9.2508	ug/mL	97
27) bis2clethoxym	4.653	93	139718	9.1418	ug/mL	91
28) 24Diclphenol	4.738	162	122878	10.1327	ug/mL	99
29) 124Triclbenz	4.834	180	161647	10.4609	ug/mL	93
30) Benzoic acid	4.695	105	65006	9.9123	ug/mL	84
31) Naphthalene	4.925	128	392935	10.1911	ug/mL	98
32) 4-Cl-aniline	5.050	127	133477	8.8043	ug/mL	91
33) 26Diclphenol	5.048	162	111431	9.6931	ug/mL	95
34) Hexaclprop	5.059	213	102123	8.6624	ug/mL	94
35) Hexaclbutdien	5.147	225	108236	9.9420	ug/mL	97
36) 4Cl3methylphe	5.795	107	142794	9.8551	ug/mL	90
37) 2Methylnaphth	5.880	141	302350	11.2068	ug/mL	97
38) 1Methylnaphth	5.980	141	313692	11.3839	ug/mL	95
40) Hxclcycpentdi	6.056	237	98295	9.4239	ug/mL	91

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICAL3.D Vial: 7
Acq On : 14 Dec 2010 14:37 Operator: RPN
Sample : I CAL 10ug/ml SVMS4681 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:58:41 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Dec 14 14:58:31 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

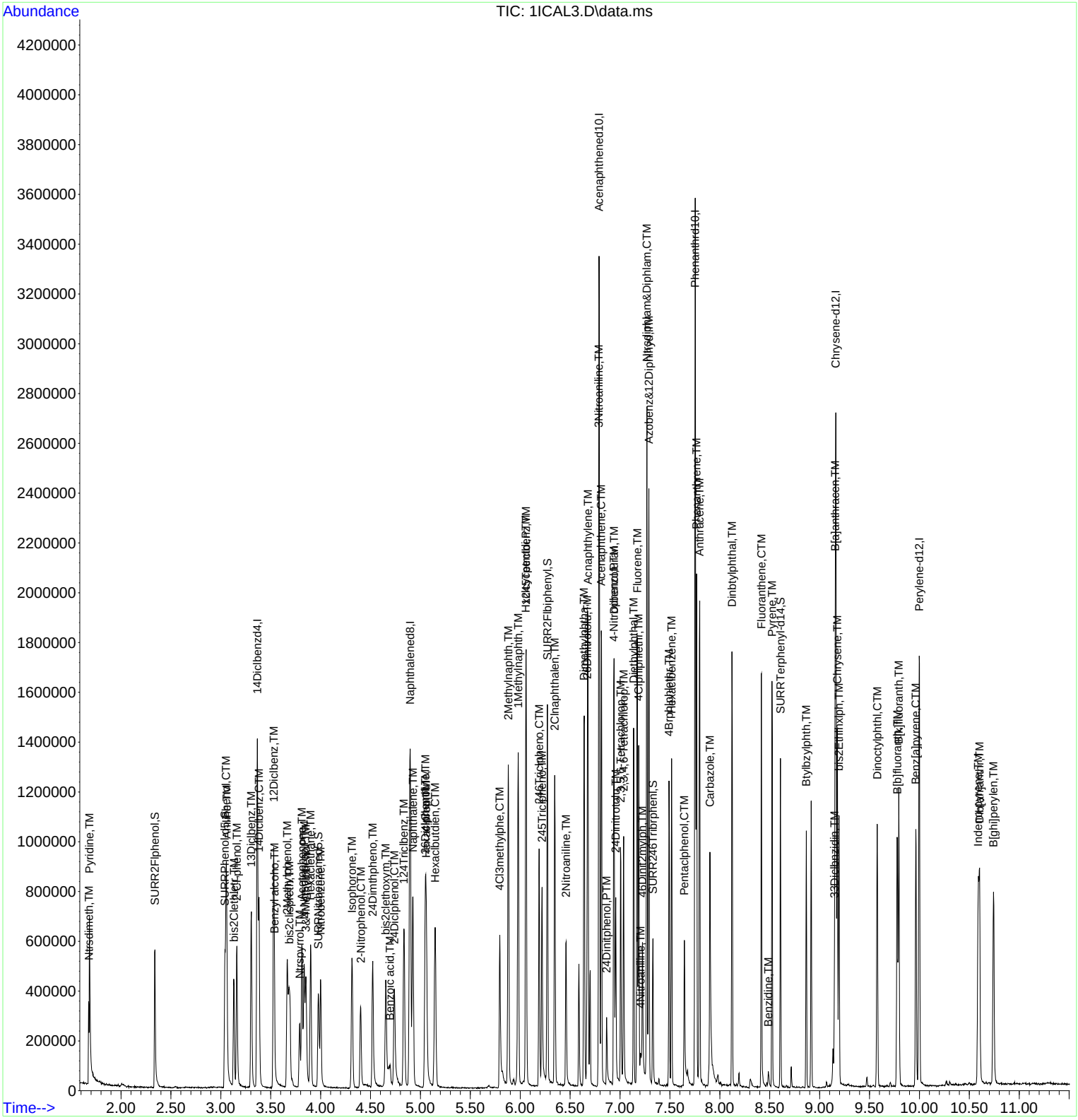
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1245Tetrclbenz	6.059	216	198510	10.5146	ug/mL	97
42) 246Triclpheno	6.190	196	116702	10.4279	ug/mL	95
43) 245Triclpheno	6.218	196	130791	10.3921	ug/mL	99
45) 2Clnaphthalen	6.346	162	340223	10.5239	ug/mL	99
46) 2Nitroaniline	6.460	65	76531	8.6611	ug/mL#	80
47) Acnaphthylene	6.679	152	537301	11.0855	ug/mL	98
48) Dimethylphtha	6.639	163	386886	10.4098	ug/mL	99
49) 26Dinitrotolu	6.673	165	82365	10.7965	ug/mL	79
50) Acenaphthene	6.812	153	331505	10.5912	ug/mL	99
51) 3Nitroaniline	6.787	138	52997	8.1264	ug/mL	97
52) 24Dinitphenol	6.866	184	38081	10.2849	ug/mL#	65
53) Dibenzofuran	6.940	168	465657	10.6531	ug/mL	78
54) 24Dinitrotolu	6.957	165	108015	10.2591	ug/mL	69
55) 4-Nitrophenol	6.937	109	27672	7.0826	ug/mL	85
56) 2,3,5,6-Tetrachlorop	7.005	232	97142	10.0421	ug/mL	95
57) 2,3,4,6-Tetrachlorop	7.037	232	93589	9.6703	ug/mL	98
58) Fluorene	7.173	166	382897	10.5643	ug/mL	99
59) 4Clphlphlethr	7.187	204	192157	9.8326	ug/mL	95
60) Diethylphthal	7.136	149	378091	9.9501	ug/mL	98
61) 4Nitroaniline	7.207	138	61568	9.7926	ug/mL	87
64) 46Dinit2mylph	7.224	198	56609	10.0491	ug/mL	85
65) Ntrsdiphlam&Diphlam	7.270	169	481814	22.8036	ug/mL	98
66) Azobenz&12Diphlhyd	7.289	182	168853	22.0744	ug/mL#	57
67) 4Brphlphlethr	7.491	248	111231	10.8429	ug/mL#	82
68) Hexaclbenzene	7.517	284	108490	11.3201	ug/mL	90
69) Pentaclphenol	7.645	266	56650	10.5808	ug/mL	97
70) Phenanthrene	7.767	178	520122	10.6756	ug/mL	99
71) Anthracene	7.798	178	546710	10.9388	ug/mL	100
72) Carbazole	7.900	167	415591	10.5660	ug/mL	99
73) Dinbtylphthal	8.122	149	629364	11.1405	ug/mL	98
74) Fluoranthene	8.418	202	395575	9.9965	ug/mL	88
76) Benzidine	8.486	184	17557	1.4412	ug/mL	87
77) Pyrene	8.523	202	387249	10.5197	ug/mL	92
79) Btylbzylphth	8.866	149	168450	10.1856	ug/mL	99
80) 33Diclbnzidin	9.148	252	57181	7.5092	ug/mL	97
81) B[a]anthracen	9.156	228	331589	9.8920	ug/mL	99
82) Chrysene	9.176	228	308028	9.8966	ug/mL	97
83) bis2Ethlhxlph	9.193	149	236234	10.6549	ug/mL	95
84) Dinoctylphthl	9.577	149	427106	10.2833	ug/mL	99
86) B[b]fluoranth	9.779	252	340008	10.4700	ug/mL	94
87) B[k]fluoranth	9.793	252	277372	10.4855	ug/mL	95
88) Benz[a]pyrene	9.963	252	301882	10.3182	ug/mL	92
89) Indeno-pyrene	10.588	276	304318	11.0236	ug/mL	75
90) Dib[ah]anthr	10.603	278	240766	11.1222	ug/mL	90
91) B[ghi]perylen	10.742	276	261602	11.1940	ug/mL	86

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICAL3.D Vial: 7
Acq On : 14 Dec 2010 14:37 Operator: RPN
Sample : I CAL 10ug/ml SVMS4681 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:58:41 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Dec 14 14:58:31 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICAL4.D Vial: 6
Acq On : 14 Dec 2010 14:18 Operator: RPN
Sample : I CAL 20ug/ml SVMS4682 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:54:27 2010

RPN 10/15/10

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Dec 14 14:52:42 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	3.366	152	231242	20.00	ug/mL	0.00
21) Naphthalened8	4.897	136	780164	20.00	ug/mL	0.00
39) Acenaphthened10	6.790	164	551500	20.00	ug/mL	0.00
63) Phenanthrd10	7.750	188	1029655	20.00	ug/mL	0.00
75) Chrysene-d12	9.168	240	588922	20.00	ug/mL	0.00
85) Perylene-d12	10.003	264	565033	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	2.340	112	278332	45.98	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 45.98%			
7) SURRPhenol-d5	3.045	99	324419	44.67	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 44.67%			
22) SURRNitrbenzened5	3.982	82	243186	69.97	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 69.97%			
44) SURR2Flbiphenyl	6.270	172	756120	99.54	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 99.54%			
62) SURR246Tribrphenl	7.327	330	84041	50.48	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 50.48%			
78) SURRTerphenyl-d14	8.608	244	442811	102.19	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 102.19%			
Target Compounds						Qvalue
2) Ntrsdimeth	1.675	74	161170	13.6566	ug/mL	92
3) Pyridine	1.678	79	279658	14.0240	ug/mL	76
5) Aniline	3.062	93	353913	15.2511	ug/mL#	47
6) bis2Clethletr	3.136	93	236013	16.5541	ug/mL	98
8) Phenol	3.056	94	341445	16.6704	ug/mL	56
9) 2-Cl-phenol	3.164	128	297853	19.8999	ug/mL	99
10) 13Diclbenz	3.306	146	356385	19.9065	ug/mL	97
11) 14Diclbenz	3.383	146	349218	20.0016	ug/mL	99
12) 12Diclbenz	3.533	146	336664	19.9365	ug/mL	99
13) Benzyl alcoho	3.539	108	154471	16.7915	ug/mL	87
14) bis2clispreth	3.690	45	482661	25.3310	ug/mL	89
15) 2Methylphenol	3.667	108	245796	18.4470	ug/mL	97
16) Ntrspyrrol	3.800	100	119336	17.0368	ug/mL#	73
17) Acetophenone	3.820	105	342552	15.3499	ug/mL	95
18) Hexaclethane	3.903	117	119080	15.8568	ug/mL#	71
19) N-Ntrsdinprop	3.843	70	163555	13.7099	ug/mL	82
20) 3&4Methylphenol	3.860	108	244695	18.0094	ug/mL	94
23) Nitrobenzene	4.005	77	226129	12.9223	ug/mL	71
24) Isophorone	4.323	82	446797	14.4217	ug/mL	91
25) 2-Nitrophenol	4.403	139	158717	22.2026	ug/mL	88
26) 24Dimthpheno	4.528	107	236827	15.8233	ug/mL	94
27) bis2clethoxym	4.659	93	280399	15.9570	ug/mL	93
28) 24Diclphenol	4.744	162	255790	20.5510	ug/mL	98
29) 124Triclbenz	4.838	180	303959	18.2970	ug/mL	95
30) Benzoic acid	4.730	105	163039	19.4776	ug/mL	86
31) Naphthalene	4.928	128	773930	19.0188	ug/mL	99
32) 4-Cl-aniline	5.053	127	265118	14.5371	ug/mL	94
33) 26Diclphenol	5.051	162	227370	17.7819	ug/mL	100
34) Hexaclprop	5.062	213	205939	14.0306	ug/mL	97
35) Hexaclbutdien	5.150	225	205926	16.7186	ug/mL	98
36) 4Cl3methylphe	5.795	107	282644	17.6905	ug/mL	91
37) 2Methylnaphth	5.880	141	578032	22.2357	ug/mL	99
38) 1Methylnaphth	5.980	141	604814	22.6350	ug/mL	98
40) Hxclcycpentdi	6.056	237	203065	17.2445	ug/mL	94

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICAL4.D Vial: 6
Acq On : 14 Dec 2010 14:18 Operator: RPN
Sample : I CAL 20ug/ml SVMS4682 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:54:27 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Dec 14 14:52:42 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

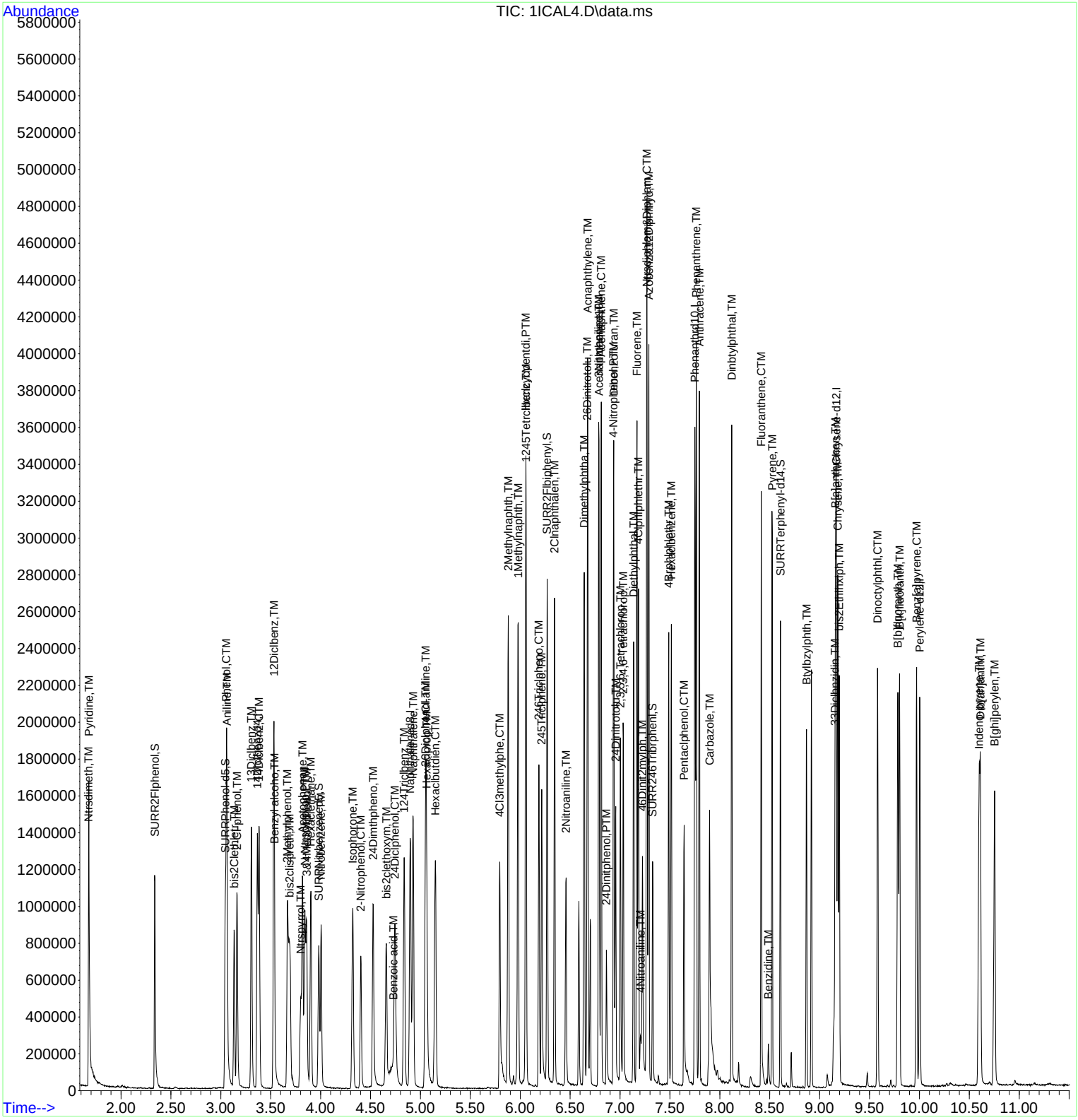
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.059	216	369846	17.8443 ug/mL	97
42) 246Triclpheno	6.187	196	229353	19.2810 ug/mL	99
43) 245Triclpheno	6.216	196	258370	19.9642 ug/mL	98
45) 2Clnaphthalen	6.343	162	665780	19.8000 ug/mL	99
46) 2Nitroaniline	6.460	65	150132	14.0715 ug/mL#	77
47) Acnaphthylene	6.676	152	998926	19.9139 ug/mL	98
48) Dimethylphtha	6.642	163	742064	19.0382 ug/mL	99
49) 26Dinitrotolu	6.673	165	156929	19.4248 ug/mL	77
50) Acenaphthene	6.812	153	650671	20.3757 ug/mL	98
51) 3Nitroaniline	6.787	138	111872	14.5403 ug/mL	85
52) 24Dinitphenol	6.863	184	93594	21.7995 ug/mL#	65
53) Dibenzofuran	6.937	168	892741	19.5691 ug/mL	75
54) 24Dinitrotolu	6.957	165	215500	19.8206 ug/mL	69
55) 4-Nitrophenol	6.934	109	62303	10.4490 ug/mL	97
56) 2,3,5,6-Tetrachlorop	7.006	232	193820	18.3513 ug/mL	98
57) 2,3,4,6-Tetrachlorop	7.034	232	193796	18.6599 ug/mL	95
58) Fluorene	7.170	166	733078	18.9805 ug/mL	100
59) 4Clphlphlethr	7.185	204	369459	17.3545 ug/mL	95
60) Diethylphthal	7.136	149	738022	18.4123 ug/mL	99
61) 4Nitroaniline	7.207	138	116675	16.6444 ug/mL	86
64) 46Dinit2mylph	7.224	198	124861	19.2199 ug/mL	89
65) Ntrsdiphlam&Diphlam	7.270	169	892408	37.2138 ug/mL	97
66) Azobenz&12Diphlhyd	7.290	182	326127	38.6687 ug/mL#	49
67) 4Brphlphlethr	7.489	248	215565	19.1623 ug/mL#	81
68) Hexaclbenzene	7.514	284	211813	20.7316 ug/mL	93
69) Pentaclphenol	7.642	266	128367	21.4310 ug/mL	91
70) Phenanthrene	7.764	178	1038040	19.1794 ug/mL	99
71) Anthracene	7.795	178	1050422	18.9120 ug/mL	100
72) Carbazole	7.898	167	795113	17.9307 ug/mL	99
73) Dinbtylphthal	8.119	149	1266826	21.4450 ug/mL	99
74) Fluoranthene	8.415	202	786171	16.7243 ug/mL	92
76) Benzidine	8.486	184	67461	6.0604 ug/mL	96
77) Pyrene	8.526	202	806114	21.0205 ug/mL	88
79) Btylbzylphth	8.870	149	355019	20.9952 ug/mL	99
80) 33Diclbnzidin	9.154	252	125279	13.5527 ug/mL	96
81) B[a]anthracen	9.159	228	681516	18.7461 ug/mL	99
82) Chrysene	9.182	228	647781	19.5800 ug/mL	99
83) bis2Ethlhxlph	9.196	149	482485	21.6217 ug/mL	97
84) Dinoctylphthl	9.580	149	908776	21.6417 ug/mL	100
86) B[b]fluoranth	9.784	252	723712	19.6244 ug/mL	94
87) B[k]fluoranth	9.802	252	603759	18.5025 ug/mL	94
88) Benz[a]pyrene	9.972	252	647450	19.2920 ug/mL	91
89) Indeno-pyrene	10.597	276	657662	21.9390 ug/mL	74
90) Dib[ah]anthr	10.611	278	518121	21.6069 ug/mL	92
91) B[ghi]perylen	10.753	276	573394	22.8554 ug/mL	88

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICAL4.D Vial: 6
Acq On : 14 Dec 2010 14:18 Operator: RPN
Sample : I CAL 20ug/ml SVMS4682 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:54:27 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Dec 14 14:52:42 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICAL5.D Vial: 5
Acq On : 14 Dec 2010 14:00 Operator: RPN
Sample : I CAL 30ug/ml SVMS4683 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:58:01 2010

RPN
10/15/10

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Dec 14 14:57:52 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	3.366	152	242276	20.00	ug/mL	0.00
21) Naphthalened8	4.900	136	849564	20.00	ug/mL	0.00
39) Acenaphthened10	6.790	164	575436	20.00	ug/mL	0.00
63) Phenanthrd10	7.753	188	1075806	20.00	ug/mL	0.00
75) Chrysene-d12	9.171	240	595202	20.00	ug/mL	0.00
85) Perylene-d12	10.006	264	579408	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	2.340	112	452848	75.00	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 75.00%			
7) SURRPhenol-d5	3.050	99	521956	74.37	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 74.37%			
22) SURRNitrbenzened5	3.985	82	409961	125.79	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 125.79%#			
44) SURR2Flbiphenyl	6.272	172	1194657	151.91	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 151.91%#			
62) SURR246Tribrphenl	7.332	330	138519	79.05	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 79.05%			
78) SURRTerphenyl-d14	8.608	244	682572	154.70	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 154.70%#			
Target Compounds						Qvalue
2) Ntrsdimeth	1.675	74	270095	25.6872	ug/mL	98
3) Pyridine	1.681	79	476377	26.5822	ug/mL	79
5) Aniline	3.062	93	575696	26.8163	ug/mL#	46
6) bis2Clethletr	3.135	93	392666	29.0293	ug/mL	93
8) Phenol	3.062	94	542502	28.0038	ug/mL#	45
9) 2-Cl-phenol	3.164	128	481564	31.4891	ug/mL	98
10) 13Diclbenz	3.306	146	573740	31.0990	ug/mL	97
11) 14Diclbenz	3.385	146	555589	31.0956	ug/mL	100
12) 12Diclbenz	3.533	146	537539	31.1575	ug/mL	96
13) Benzyl alcoho	3.542	108	250962	28.6773	ug/mL	89
14) bis2clispreth	3.692	45	798320	36.2875	ug/mL	92
15) 2Methylphenol	3.672	108	402670	30.8510	ug/mL	96
16) Ntrspyrrol	3.812	100	195830	28.9630	ug/mL#	71
17) Acetophenone	3.823	105	542635	26.0025	ug/mL	95
18) Hexaclethane	3.900	117	192595	27.1704	ug/mL	81
19) N-Ntrsdinprop	3.849	70	266843	24.7885	ug/mL	82
20) 3&4Methylphenol	3.866	108	388766	29.0067	ug/mL	100
23) Nitrobenzene	4.011	77	380892	23.8363	ug/mL	71
24) Isophorone	4.329	82	745811	25.2002	ug/mL	87
25) 2-Nitrophenol	4.406	139	250702	31.8107	ug/mL	83
26) 24Dimthpheno	4.531	107	385427	26.4869	ug/mL	98
27) bis2clethoxym	4.661	93	464094	26.9008	ug/mL	94
28) 24Diclphenol	4.747	162	415300	31.2068	ug/mL	97
29) 124Triclbenz	4.840	180	491004	28.6547	ug/mL	98
30) Benzoic acid	4.778	105	272736	27.9872	ug/mL	87
31) Naphthalene	4.928	128	1264151	29.7883	ug/mL	99
32) 4-Cl-aniline	5.056	127	445362	25.6494	ug/mL	94
33) 26Diclphenol	5.053	162	353470	27.5125	ug/mL	97
34) Hexaclprop	5.062	213	325554	23.9051	ug/mL	95
35) Hexaclbutdien	5.150	225	332739	27.1590	ug/mL	96
36) 4Cl3methylphe	5.798	107	474519	29.3348	ug/mL	87
37) 2Methylnaphth	5.883	141	933488	32.0968	ug/mL	98
38) 1Methylnaphth	5.980	141	946788	31.8714	ug/mL	97
40) Hxclcycpentdi	6.059	237	319929	28.2842	ug/mL	95

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICAL5.D Vial: 5
Acq On : 14 Dec 2010 14:00 Operator: RPN
Sample : I CAL 30ug/ml SVMS4683 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:58:01 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Dec 14 14:57:52 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

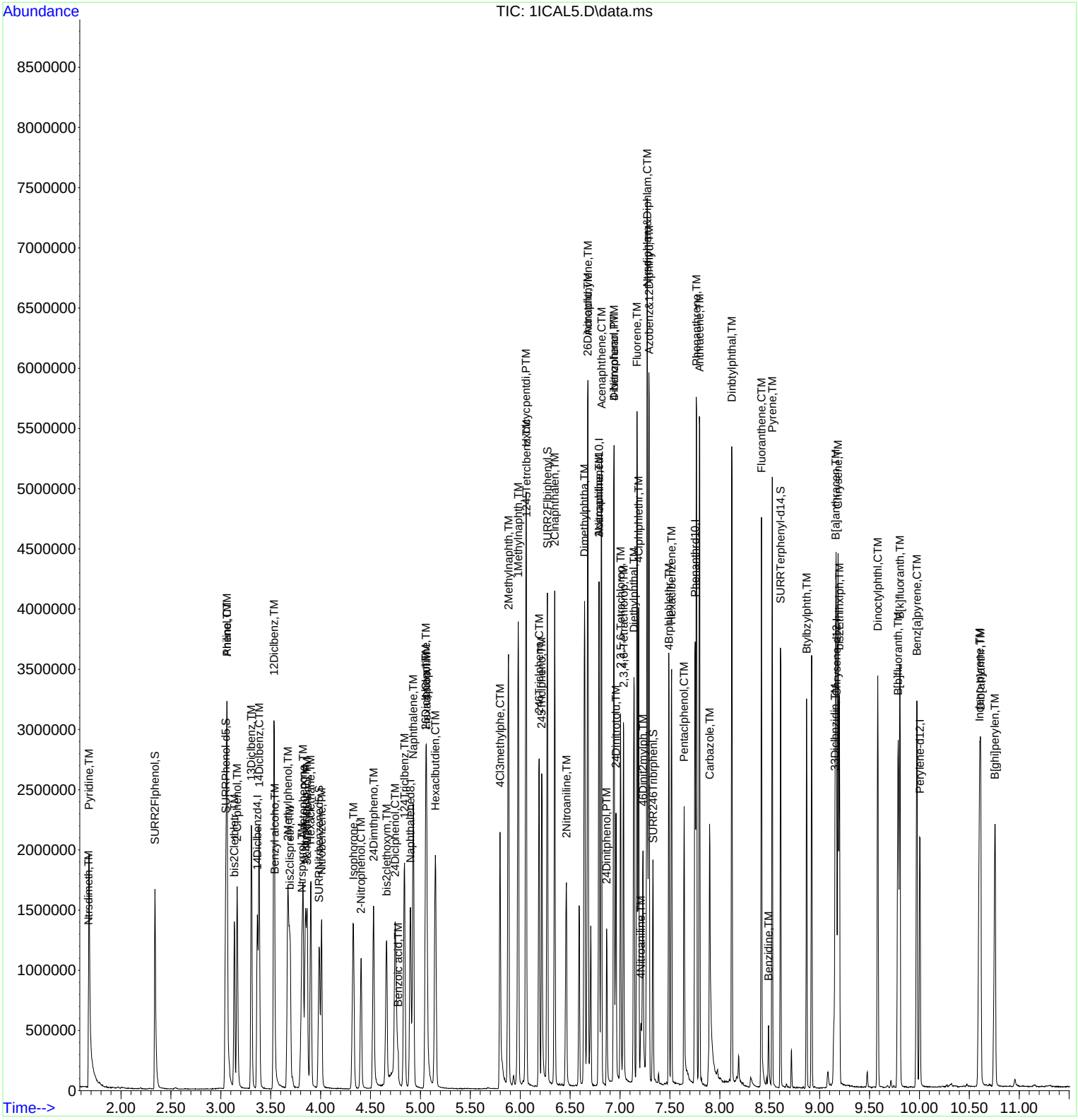
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.062	216	578194	28.4383 ug/mL	96
42) 246Triclpheno	6.190	196	374534	31.2818 ug/mL	98
43) 245Triclpheno	6.216	196	431904	32.6131 ug/mL	98
45) 2Clnaphthalen	6.346	162	1050106	30.5351 ug/mL	99
46) 2Nitroaniline	6.463	65	260326	26.6127 ug/mL	83
47) Acnaphthylene	6.679	152	1553689	30.2317 ug/mL	100
48) Dimethylphtha	6.645	163	1185421	29.9044 ug/mL	100
49) 26Dinitrotolu	6.676	165	246158	30.2567 ug/mL	79
50) Acenaphthene	6.815	153	1005529	30.2986 ug/mL	95
51) 3Nitroaniline	6.790	138	189930	26.3687 ug/mL	90
52) 24Dinitphenol	6.866	184	160696	31.2439 ug/mL#	65
53) Dibenzofuran	6.940	168	1419218	30.5439 ug/mL	73
54) 24Dinitrotolu	6.960	165	350320	31.2554 ug/mL	70
55) 4-Nitrophenol	6.940	109	100955	21.5860 ug/mL	96
56) 2,3,5,6-Tetrachlorop	7.005	232	312353	29.3832 ug/mL	98
57) 2,3,4,6-Tetrachlorop	7.037	232	321896	30.9989 ug/mL	96
58) Fluorene	7.170	166	1151387	29.7560 ug/mL	99
59) 4Clphlphlethr	7.187	204	583433	27.7993 ug/mL	94
60) Diethylphthal	7.139	149	1207515	29.7971 ug/mL	99
61) 4Nitroaniline	7.210	138	201160	29.4533 ug/mL	82
64) 46Dinit2mylph	7.230	198	212885	30.9007 ug/mL	86
65) Ntrsdiphlam&Diphlam	7.273	169	1376967	58.3243 ug/mL	98
66) Azobenz&12Diphlhyd	7.292	182	496825	58.5920 ug/mL#	55
67) 4Brphlphlethr	7.491	248	346155	30.4297 ug/mL#	77
68) Hexaclbenzene	7.517	284	328212	31.0822 ug/mL	95
69) Pentaclphenol	7.642	266	216225	31.6320 ug/mL	96
70) Phenanthrene	7.767	178	1628990	30.0964 ug/mL	99
71) Anthracene	7.795	178	1671383	30.0584 ug/mL	99
72) Carbazole	7.898	167	1276955	28.9994 ug/mL	99
73) Dinbtylphthal	8.119	149	1936180	31.2100 ug/mL	99
74) Fluoranthene	8.418	202	1215799	27.0600 ug/mL	90
76) Benzidine	8.489	184	153365	17.4697 ug/mL	98
77) Pyrene	8.526	202	1226536	31.5503 ug/mL	89
79) Btylbzylphth	8.869	149	561589	32.3247 ug/mL	97
80) 33Diclbnzidin	9.154	252	197818	23.5292 ug/mL	97
81) B[a]anthracen	9.162	228	1058578	29.6426 ug/mL	100
82) Chrysene	9.185	228	1015922	30.6882 ug/mL	98
83) bis2Ethlhxlph	9.199	149	747088	32.1033 ug/mL	97
84) Dinoctylphthl	9.583	149	1421558	32.6037 ug/mL	100
86) B[b]fluoranth	9.787	252	1146678	30.8651 ug/mL	95
87) B[k]fluoranth	9.804	252	944779	31.0174 ug/mL	94
88) Benz[a]pyrene	9.975	252	1030693	30.7057 ug/mL	92
89) Indeno-pyrene	10.603	276	1027736	32.9427 ug/mL	76
90) Dib[ah]anthr	10.614	278	784099	31.9260 ug/mL	92
91) B[ghi]perylen	10.756	276	840960	31.7765 ug/mL	89

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICAL5.D Vial: 5
Acq On : 14 Dec 2010 14:00 Operator: RPN
Sample : I CAL 30ug/ml SVMS4683 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:58:01 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Dec 14 14:57:52 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICAL6.D Vial: 4
Acq On : 14 Dec 2010 13:41 Operator: RPN
Sample : I CAL 40ug/ml SVMS4684 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:56:59 2010

RPN
10/15/10

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Dec 14 14:56:44 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	3.368	152	246799	20.00	ug/mL	0.00
21) Naphthalened8	4.903	136	852327	20.00	ug/mL	0.00
39) Acenaphthened10	6.790	164	576833	20.00	ug/mL	0.00
63) Phenanthrd10	7.753	188	1082882	20.00	ug/mL	0.00
75) Chrysene-d12	9.171	240	584938	20.00	ug/mL	0.00
85) Perylene-d12	10.006	264	591196	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	2.340	112	592976	94.64	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 94.64%			
7) SURRPhenol-d5	3.053	99	697217	94.84	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 94.84%			
22) SURRNitrbenzened5	3.991	82	537569	156.00	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 156.00%#			
44) SURR2Flbiphenyl	6.275	172	1576992	199.44	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 199.44%#			
62) SURR246Tribrphenl	7.335	330	178571	102.51	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 102.51%			
78) SURRTerphenyl-d14	8.611	244	884184	203.83	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 203.83%#			
Target Compounds						Qvalue
2) Ntrsdimeth	1.678	74	352491	31.0057	ug/mL	98
3) Pyridine	1.681	79	617699	32.0171	ug/mL	81
5) Aniline	3.067	93	748379	32.7143	ug/mL#	46
6) bis2Clethletr	3.138	93	515708	36.0858	ug/mL	95
8) Phenol	3.064	94	702750	34.2817	ug/mL#	47
9) 2-Cl-phenol	3.164	128	623657	39.5643	ug/mL	97
10) 13Diclbenz	3.309	146	758430	40.1121	ug/mL	99
11) 14Diclbenz	3.385	146	736939	40.1405	ug/mL	98
12) 12Diclbenz	3.536	146	696259	39.1711	ug/mL	98
13) Benzyl alcoho	3.545	108	331647	36.0525	ug/mL	86
14) bis2clispreth	3.692	45	1050788	48.3806	ug/mL	91
15) 2Methylphenol	3.675	108	512535	37.4985	ug/mL	99
16) Ntrspyrrol	3.817	100	262615	37.0576	ug/mL#	72
17) Acetophenone	3.829	105	719201	32.4188	ug/mL	96
18) Hexaclethane	3.903	117	252798	33.6926	ug/mL	82
19) N-Ntrsdinprop	3.854	70	364138	31.3851	ug/mL	81
20) 3&4Methylphenol	3.871	108	524325	37.5894	ug/mL	96
23) Nitrobenzene	4.016	77	497967	29.1670	ug/mL	73
24) Isophorone	4.335	82	989695	31.8181	ug/mL	90
25) 2-Nitrophenol	4.411	139	337027	42.6937	ug/mL	84
26) 24Dimthpheno	4.536	107	513107	33.7916	ug/mL	94
27) bis2clethoxym	4.667	93	612334	33.9837	ug/mL	94
28) 24Diclphenol	4.752	162	552352	40.9476	ug/mL	96
29) 124Triclbenz	4.843	180	643319	36.6206	ug/mL	98
30) Benzoic acid	4.803	105	376461	37.4405	ug/mL	91
31) Naphthalene	4.934	128	1658714	38.3848	ug/mL	99
32) 4-Cl-aniline	5.062	127	604127	33.0430	ug/mL	95
33) 26Diclphenol	5.056	162	471356	35.4716	ug/mL	97
34) Hexaclprop	5.065	213	419083	28.9379	ug/mL	99
35) Hexaclbutdien	5.153	225	439334	34.5684	ug/mL	100
36) 4Cl3methylphe	5.801	107	634048	38.1042	ug/mL	88
37) 2Methylnaphth	5.886	141	1215572	41.9245	ug/mL	97
38) 1Methylnaphth	5.983	141	1246262	42.0791	ug/mL	99
40) Hxclcycpentdi	6.059	237	422058	36.0682	ug/mL	92

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICAL6.D Vial: 4
Acq On : 14 Dec 2010 13:41 Operator: RPN
Sample : I CAL 40ug/ml SVMS4684 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:56:59 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Dec 14 14:56:44 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

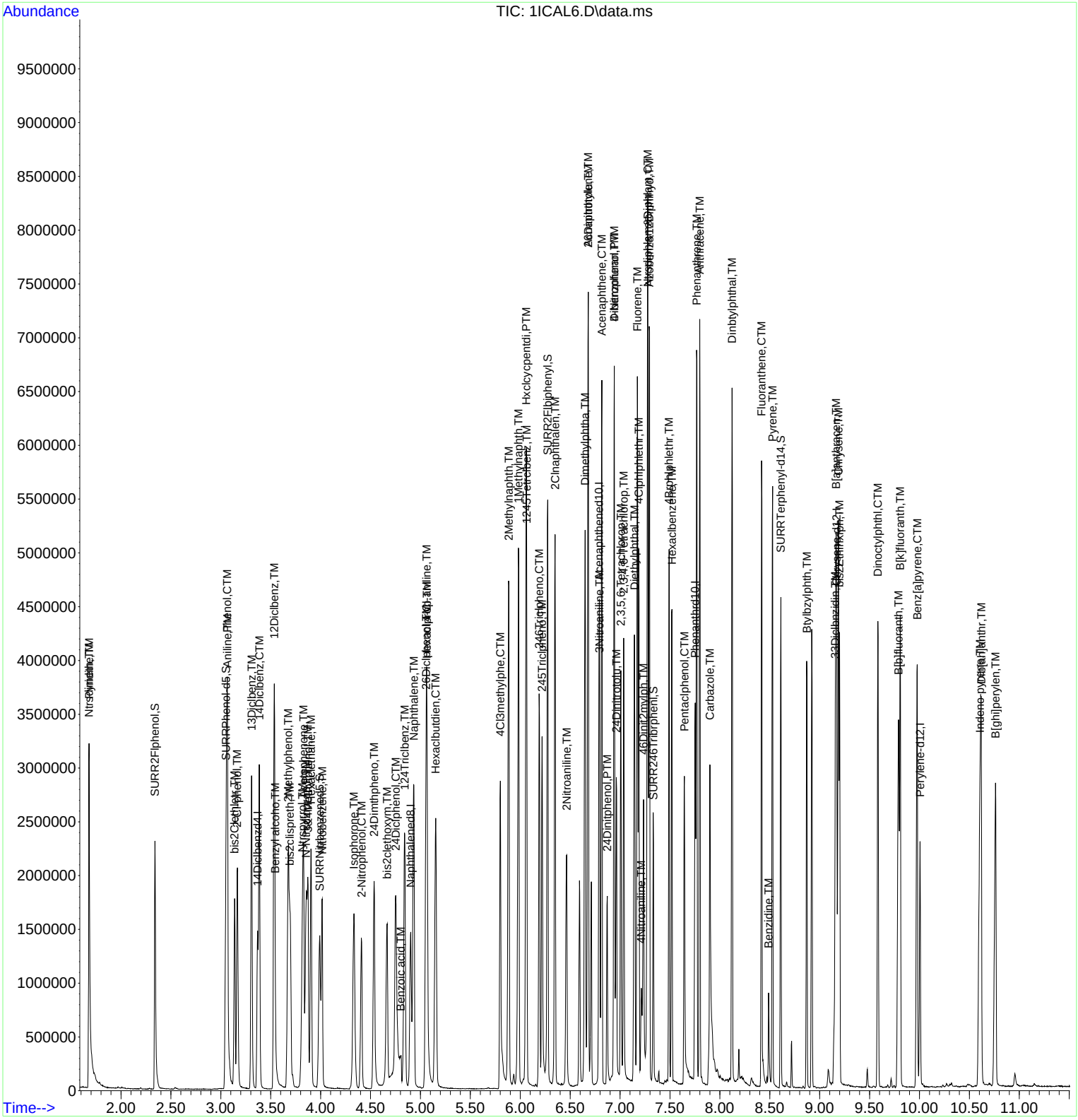
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.065	216	731817	35.0544 ug/mL	98
42) 246Triclpheno	6.190	196	497440	40.9326 ug/mL	100
43) 245Triclpheno	6.218	196	567250	42.6800 ug/mL	95
45) 2Clnaphthalen	6.349	162	1394804	40.1072 ug/mL	100
46) 2Nitroaniline	6.466	65	349876	34.1710 ug/mL	82
47) Acnaphthylene	6.682	152	2003813	38.5375 ug/mL	98
48) Dimethylphtha	6.650	163	1502843	37.4318 ug/mL	100
49) 26Dinitrotolu	6.682	165	312566	37.6794 ug/mL	80
50) Acenaphthene	6.818	153	1315575	39.3104 ug/mL	99
51) 3Nitroaniline	6.795	138	271456	36.3738 ug/mL	95
52) 24Dinitphenol	6.872	184	227076	42.5514 ug/mL#	63
53) Dibenzofuran	6.943	168	1816673	38.5735 ug/mL	76
54) 24Dinitrotolu	6.963	165	454776	40.2640 ug/mL	73
55) 4-Nitrophenol	6.943	109	133224	25.5908 ug/mL	100
56) 2,3,5,6-Tetrachlorop	7.008	232	418902	38.9205 ug/mL	98
57) 2,3,4,6-Tetrachlorop	7.037	232	422370	40.0739 ug/mL	95
58) Fluorene	7.173	166	1496979	38.0137 ug/mL	100
59) 4Clphlphlethr	7.187	204	736658	34.2471 ug/mL	96
60) Diethylphthal	7.145	149	1562401	37.9923 ug/mL	99
61) 4Nitroaniline	7.213	138	268611	38.1450 ug/mL	92
64) 46Dinit2mylph	7.236	198	284696	41.0038 ug/mL	83
65) Ntrsdiphlam&Diphlam	7.278	169	1716809	70.5647 ug/mL	98
66) Azobenz&12Diphlhyd	7.295	182	629641	72.5241 ug/mL#	53
67) 4Brphlphlethr	7.491	248	446194	38.4756 ug/mL#	82
68) Hexaclbenzene	7.520	284	415277	38.9043 ug/mL	94
69) Pentaclphenol	7.645	266	294776	43.1245 ug/mL	97
70) Phenanthrene	7.767	178	2093849	37.9165 ug/mL	99
71) Anthracene	7.798	178	2134887	37.5485 ug/mL	100
72) Carbazole	7.901	167	1642466	36.3939 ug/mL	99
73) Dinbtylphthal	8.122	149	2499328	40.0241 ug/mL	99
74) Fluoranthene	8.418	202	1559111	33.5385 ug/mL	92
76) Benzidine	8.489	184	246394	26.3010 ug/mL	95
77) Pyrene	8.528	202	1567159	40.8428 ug/mL	89
79) Btylbzylphth	8.872	149	729615	42.8634 ug/mL	98
80) 33Diclbnzidin	9.156	252	267807	31.0710 ug/mL	94
81) B[a]anthracen	9.165	228	1388562	39.2119 ug/mL	99
82) Chrysene	9.188	228	1254303	38.3072 ug/mL	98
83) bis2Ethlhxlph	9.199	149	955187	42.1360 ug/mL	95
84) Dinoctylphthl	9.583	149	1856826	43.6807 ug/mL	99
86) B[b]fluoranth	9.790	252	1518414	39.7594 ug/mL	95
87) B[k]fluoranth	9.807	252	1169423	37.5100 ug/mL	96
88) Benz[a]pyrene	9.978	252	1336474	38.5822 ug/mL	90
89) Indeno-pyrene	10.606	276	1331354	42.1483 ug/mL	80
90) Dib[ah]anthr	10.620	278	1006134	40.1622 ug/mL	92
91) B[ghi]perylen	10.762	276	1163641	43.5889 ug/mL	88

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICAL6.D Vial: 4
Acq On : 14 Dec 2010 13:41 Operator: RPN
Sample : I CAL 40ug/ml SVMS4684 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:56:59 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Dec 14 14:56:44 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICAL7.D Vial: 3
Acq On : 14 Dec 2010 13:23 Operator: RPN
Sample : I CAL 50ug/ml SVMS4685 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:55:50 2010

RPN 10/15/10

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Dec 14 14:55:17 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	3.368	152	258020	20.00	ug/mL	0.00
21) Naphthalened8	4.903	136	868405	20.00	ug/mL	0.00
39) Acenaphthened10	6.789	164	578934	20.00	ug/mL	0.00
63) Phenanthrd10	7.753	188	1131883	20.00	ug/mL	0.00
75) Chrysene-d12	9.173	240	587658	20.00	ug/mL	0.00
85) Perylene-d12	10.009	264	611646	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	2.343	112	752528	112.92	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 112.92%#			
7) SURRPhenol-d5	3.056	99	869393	109.47	%REC	0.01
Spiked Amount 100.000	Range 10 - 115		Recovery = 109.47%			
22) SURRNitrbenzened5	3.994	82	658571	178.35	%REC	0.01
Spiked Amount 100.000	Range 40 - 110		Recovery = 178.35%#			
44) SURR2Flbiphenyl	6.275	172	1903210	239.36	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 239.36%#			
62) SURR246Tribrphenl	7.335	330	216068	129.31	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 129.31%#			
78) SURRTerphenyl-d14	8.611	244	1070518	247.68	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 247.68%#			
Target Compounds						Qvalue
2) Ntrsdimeth	1.681	74	450933	35.9429	ug/mL	92
3) Pyridine	1.681	79	789063	37.1158	ug/mL	80
5) Aniline	3.067	93	925272	36.9195	ug/mL#	46
6) bis2Clethletr	3.141	93	636215	41.1053	ug/mL	97
8) Phenol	3.070	94	868925	38.9633	ug/mL#	50
9) 2-Cl-phenol	3.167	128	791454	47.6364	ug/mL	100
10) 13Diclbenz	3.309	146	946648	47.5635	ug/mL	98
11) 14Diclbenz	3.388	146	904546	46.6734	ug/mL	100
12) 12Diclbenz	3.536	146	841388	44.7065	ug/mL	99
13) Benzyl alcoho	3.547	108	409758	39.2865	ug/mL	87
14) bis2clispreth	3.695	45	1274271	57.8251	ug/mL	89
15) 2Methylphenol	3.678	108	644121	44.0621	ug/mL	100
16) Ntrspyrrol	3.823	100	318954	41.7055	ug/mL	79
17) Acetophenone	3.832	105	867226	35.9061	ug/mL	96
18) Hexaclethane	3.903	117	308045	37.8913	ug/mL	80
19) N-Ntrsdinprop	3.860	70	442245	34.7580	ug/mL	79
20) 3&4Methylphenol	3.880	108	640888	42.9348	ug/mL	92
23) Nitrobenzene	4.019	77	610609	33.0922	ug/mL	74
24) Isophorone	4.337	82	1226333	37.0498	ug/mL	88
25) 2-Nitrophenol	4.414	139	403745	50.0496	ug/mL	84
26) 24Dimthpheno	4.542	107	618784	38.3642	ug/mL	95
27) bis2clethoxym	4.667	93	757331	39.8661	ug/mL	95
28) 24Diclphenol	4.755	162	674118	48.6166	ug/mL	97
29) 124Triclbenz	4.846	180	779512	42.7546	ug/mL	99
30) Benzoic acid	4.826	105	463115	40.7102	ug/mL	87
31) Naphthalene	4.937	128	2014588	44.8816	ug/mL	99
32) 4-Cl-aniline	5.065	127	746784	38.3177	ug/mL	94
33) 26Diclphenol	5.056	162	558311	39.9888	ug/mL	97
34) Hexaclprop	5.068	213	509974	32.7773	ug/mL	98
35) Hexaclbutdien	5.153	225	535245	40.0911	ug/mL	100
36) 4Cl3methylphe	5.801	107	772159	44.3571	ug/mL	90
37) 2Methylnaphth	5.886	141	1454991	49.4086	ug/mL	98
38) 1Methylnaphth	5.982	141	1488062	49.2349	ug/mL	100
40) Hxclcycpentdi	6.059	237	500269	39.5361	ug/mL	91

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICAL7.D Vial: 3
Acq On : 14 Dec 2010 13:23 Operator: RPN
Sample : I CAL 50ug/ml SVMS4685 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:55:50 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Dec 14 14:55:17 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

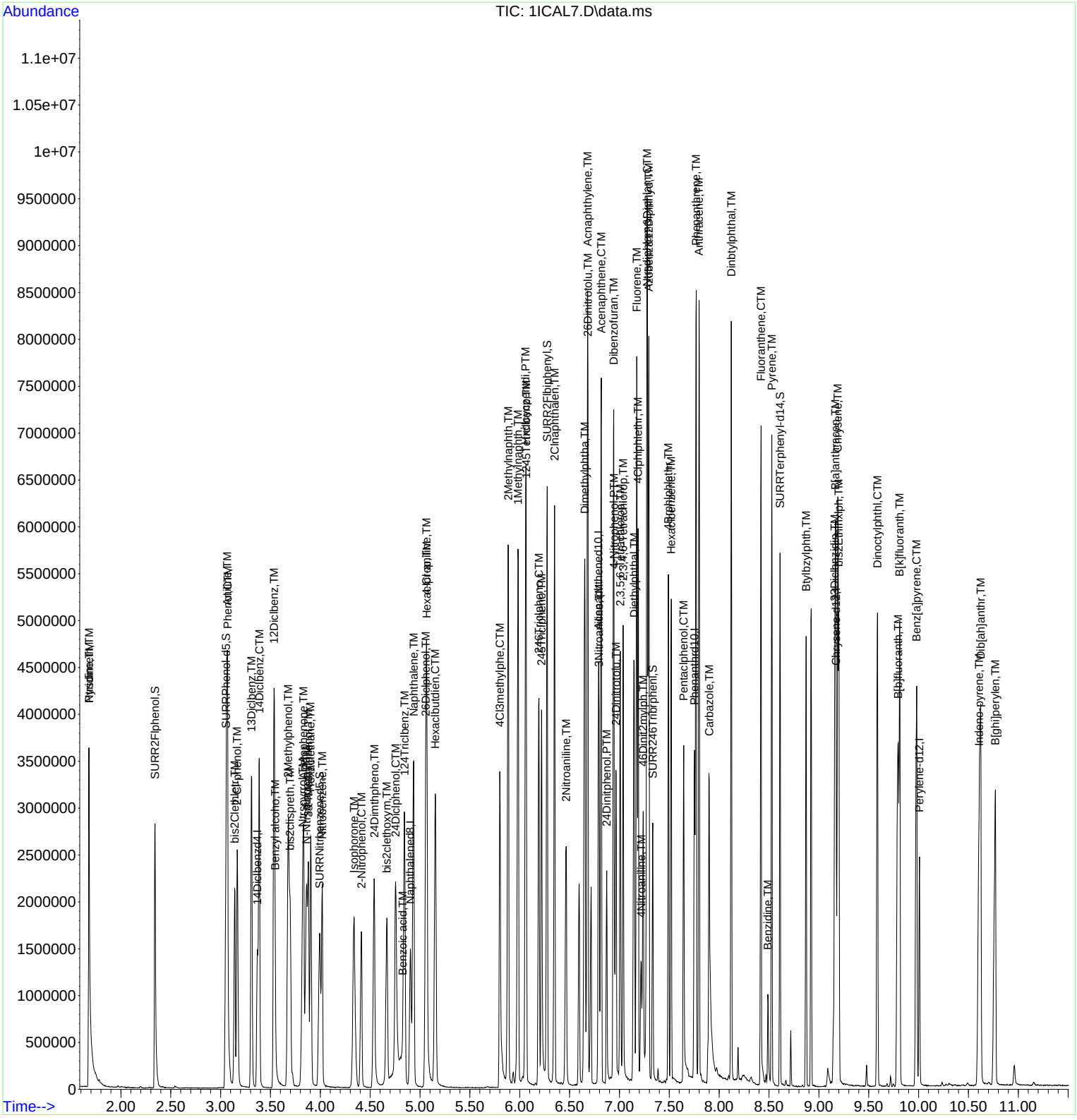
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.065	216	890976	41.6843 ug/mL	95
42) 246Triclpheno	6.193	196	605496	49.0319 ug/mL	99
43) 245Triclpheno	6.218	196	672443	49.9712 ug/mL	98
45) 2Clnaphthalen	6.349	162	1659441	47.1749 ug/mL	100
46) 2Nitroaniline	6.466	65	423941	39.5715 ug/mL	82
47) Acnaphthylene	6.681	152	2383067	45.2456 ug/mL	99
48) Dimethylphtha	6.653	163	1842813	45.4017 ug/mL	100
49) 26Dinitrotolu	6.684	165	373406	44.4304 ug/mL	78
50) Acenaphthene	6.818	153	1599487	47.4594 ug/mL	98
51) 3Nitroaniline	6.795	138	327642	42.3269 ug/mL	86
52) 24Dinitphenol	6.872	184	279683	53.6701 ug/mL#	66
53) Dibenzofuran	6.943	168	2155070	45.1343 ug/mL	78
54) 24Dinitrotolu	6.966	165	561433	49.4152 ug/mL	70
55) 4-Nitrophenol	6.946	109	166977	29.1904 ug/mL	99
56) 2,3,5,6-Tetrachlorop	7.008	232	505138	44.5670 ug/mL	97
57) 2,3,4,6-Tetrachlorop	7.037	232	513565	47.9642 ug/mL	97
58) Fluorene	7.173	166	1741025	43.2171 ug/mL	99
59) 4Clphlphlethr	7.187	204	889750	40.3799 ug/mL	93
60) Diethylphthal	7.148	149	1893130	45.4307 ug/mL	98
61) 4Nitroaniline	7.219	138	338845	47.1639 ug/mL	86
64) 46Dinit2mylph	7.238	198	355190	47.8582 ug/mL	84
65) Ntrsdiphlam&Diphlam	7.278	169	2052996	78.6826 ug/mL	98
66) Azobenz&12Diphlhyd	7.295	182	753766	81.4268 ug/mL#	57
67) 4Brphlphlethr	7.491	248	527969	42.8273 ug/mL#	81
68) Hexaclbenzene	7.520	284	498103	44.1196 ug/mL	92
69) Pentaclphenol	7.645	266	362643	51.2461 ug/mL	98
70) Phenanthrene	7.770	178	2524464	42.8278 ug/mL	99
71) Anthracene	7.798	178	2562277	42.2278 ug/mL	99
72) Carbazole	7.900	167	1988939	41.2347 ug/mL	100
73) Dinbtylphthal	8.122	149	3013975	45.8993 ug/mL	99
74) Fluoranthene	8.420	202	1937176	38.5117 ug/mL	89
76) Benzidine	8.489	184	305153	30.0745 ug/mL	99
77) Pyrene	8.528	202	1905213	49.5676 ug/mL	90
79) Btylbzylphth	8.872	149	888843	52.4940 ug/mL	98
80) 33Diclbnzidin	9.159	252	341142	38.0136 ug/mL	96
81) B[a]anthracen	9.165	228	1672078	46.6143 ug/mL	99
82) Chrysene	9.190	228	1551750	47.1960 ug/mL	97
83) bis2Ethlhxlph	9.199	149	1150110	51.3645 ug/mL	95
84) Dinoctylphthl	9.588	149	2233851	53.0344 ug/mL	100
86) B[b]fluoranth	9.796	252	1825768	45.7772 ug/mL	95
87) B[k]fluoranth	9.810	252	1210766	34.5821 ug/mL	95
88) Benz[a]pyrene	9.980	252	1665612	46.0832 ug/mL	92
89) Indeno-pyrene	10.608	276	1620601	49.7243 ug/mL	79
90) Dib[ah]anthr	10.623	278	1230421	47.3230 ug/mL	92
91) B[ghi]perylen	10.770	276	1442927	52.7290 ug/mL	88

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICAL7.D Vial: 3
Acq On : 14 Dec 2010 13:23 Operator: RPN
Sample : I CAL 50ug/ml SVMS4685 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 14 14:55:50 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Tue Dec 14 14:55:17 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICV1.D Vial: 10
Acq On : 14 Dec 2010 15:55 Operator: RPN
Sample : ICV 20ug/ml SVMS4686 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 09:09:31 2010

RPN
12/14/10

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	3.365	152	228767	20.00	ug/mL	0.00
21) Naphthalened8	4.897	136	754707	20.00	ug/mL	0.00
39) Acenaphthened10	6.792	164	519228	20.00	ug/mL	0.00
63) Phenanthrd10	7.753	188	962437	20.00	ug/mL	0.00
75) Chrysene-d12	9.165	240	532657	20.00	ug/mL	0.00
85) Perylene-d12	9.997	264	501270	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	2.337	112	253528	47.91	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 47.91%			
7) SURRPhenol-d5	3.044	99	305877	49.93	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 49.93%			
22) SURRNitrbenzened5	3.982	82	230030	101.29	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 101.29%			
44) SURR2Flbiphenyl	6.272	172	724298	101.11	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 101.11%			
62) SURR246Tribrphenl	7.332	330	79296	51.42	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 51.42%			
78) SURRTerphenyl-d14	8.608	244	414772	104.57	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 104.57%			
Target Compounds						Qvalue
2) Ntrsdimeth	1.669	74	149510	19.5171	ug/mL	95
3) Pyridine	1.672	79	263184	19.4239	ug/mL	79
5) Aniline	3.059	93	340289	19.8563	ug/mL	47
6) bis2Clethletr	3.132	93	226906	19.4672	ug/mL	99
8) Phenol	3.056	94	321621	20.0623	ug/mL#	49
9) 2-Cl-phenol	3.161	128	281280	19.4200	ug/mL	99
10) 13Diclbenz	3.306	146	349976	19.9433	ug/mL	99
11) 14Diclbenz	3.382	146	340227	19.8923	ug/mL	99
12) 12Diclbenz	3.533	146	325054	20.0834	ug/mL	96
13) Benzyl alcoho	3.538	108	150805	19.5869	ug/mL	96
14) bis2clispreth	3.692	45	450958	19.2858	ug/mL	87
15) 2Methylphenol	3.667	108	231978	19.7197	ug/mL	100
16) Ntrspyrrol	3.800	100	112378	19.4401	ug/mL#	72
17) Acetophenone	3.817	105	315838	19.2130	ug/mL	94
18) Hexaclethane	3.902	117	114133	19.5280	ug/mL	76
19) N-Ntrsdinprop	3.840	70	155825	19.2767	ug/mL	89
20) 3&4Methylphenol	3.857	108	231212	19.9097	ug/mL	95
23) Nitrobenzene	4.005	77	215560	20.1178	ug/mL	72
24) Isophorone	4.323	82	419360	19.7591	ug/mL	89
25) 2-Nitrophenol	4.403	139	143162	20.3330	ug/mL	85
26) 24Dimthpheno	4.525	107	218288	19.9219	ug/mL	97
27) bis2clethoxym	4.658	93	264155	20.0761	ug/mL	92
28) 24Diclphenol	4.741	162	240243	20.5183	ug/mL	96
29) 124Triclbenz	4.837	180	297039	20.5712	ug/mL	97
30) Benzoic acid	4.746	105	138257	17.9519	ug/mL	91
31) Naphthalene	4.925	128	746117	20.2041	ug/mL	99
32) 4-Cl-aniline	5.053	127	258434	19.7132	ug/mL	96
33) 26Diclphenol	5.050	162	206807	20.0269	ug/mL	95
34) Hexaclprop	5.062	213	197518	21.0058	ug/mL	98
35) Hexaclbutdien	5.150	225	196267	20.0174	ug/mL	99
36) 4Cl3methylphe	5.798	107	268527	19.3263	ug/mL	87
37) 2Methylnaphth	5.883	141	549736	20.0118	ug/mL	99
38) 1Methylnaphth	5.982	141	567089	20.0451	ug/mL	98
40) Hxclcycpentdi	6.059	237	193095	20.2786	ug/mL	93

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICV1.D Vial: 10
Acq On : 14 Dec 2010 15:55 Operator: RPN
Sample : ICV 20ug/ml SVMS4686 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 09:09:31 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

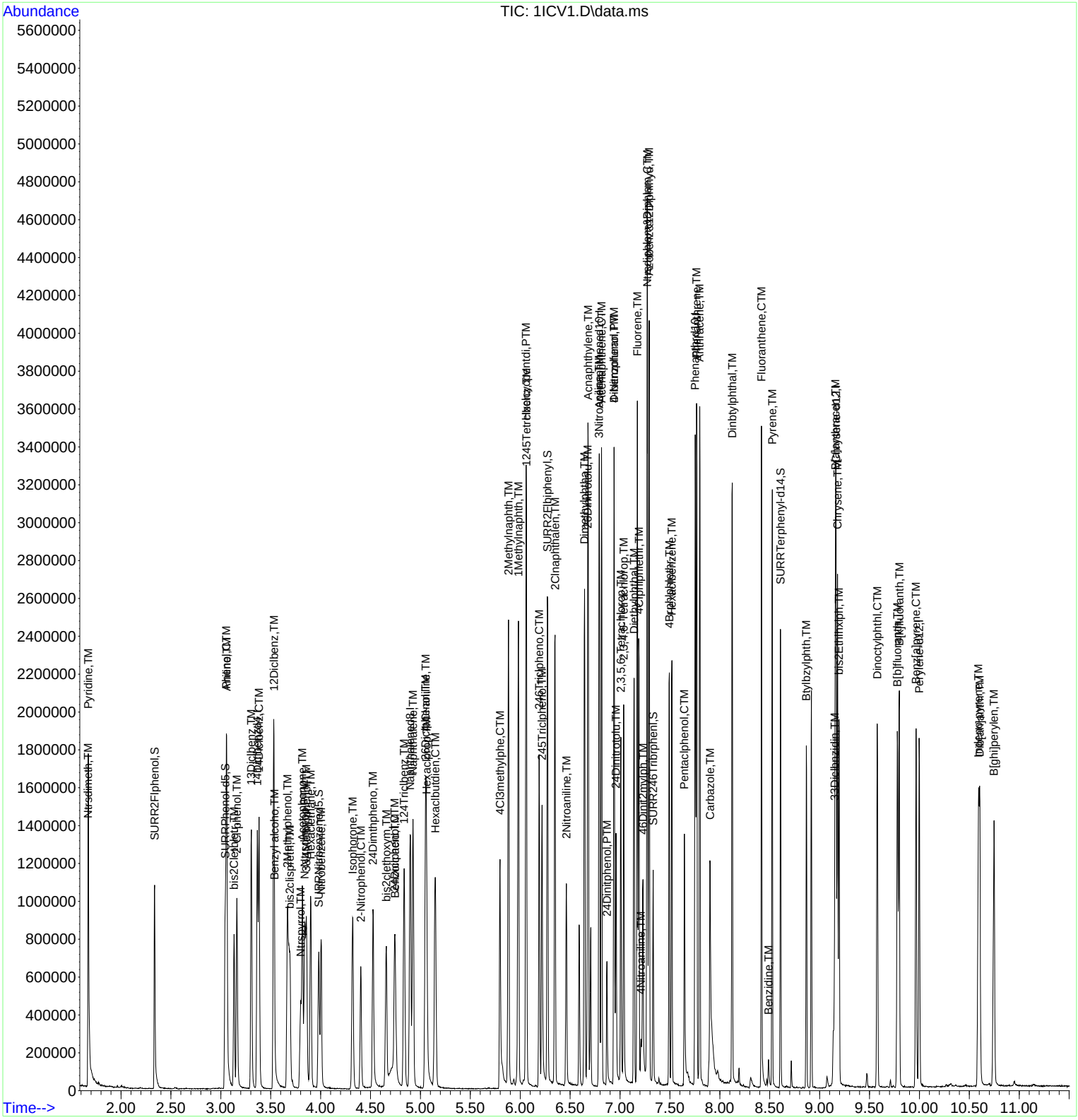
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.062	216	372673	21.2190 ug/mL	96
42) 246Triclpheno	6.190	196	218320	20.5239 ug/mL	98
43) 245Triclpheno	6.218	196	240116	20.4109 ug/mL	97
45) 2Clnaphthalen	6.349	162	625063	20.0422 ug/mL	99
46) 2Nitroaniline	6.463	65	138733	19.2888 ug/mL#	82
47) Acnaphthylene	6.681	152	953239	20.0997 ug/mL	100
48) Dimethylphtha	6.644	163	711203	20.4001 ug/mL	99
49) 26Dinitrotolu	6.676	165	147297	20.3159 ug/mL	78
50) Acenaphthene	6.815	153	610627	20.0954 ug/mL	95
51) 3Nitroaniline	6.789	138	101102	17.2974 ug/mL	97
52) 24Dinitphenol	6.869	184	80961	18.2806 ug/mL#	60
53) Dibenzofuran	6.940	168	849333	20.2739 ug/mL	75
54) 24Dinitrotolu	6.960	165	206817	20.4888 ug/mL	69
55) 4-Nitrophenol	6.940	109	55033	19.5228 ug/mL	89
56) 2,3,5,6-Tetrachlorop	7.008	232	186779	21.7278 ug/mL	98
57) 2,3,4,6-Tetrachlorop	7.037	232	184839	20.8470 ug/mL	96
58) Fluorene	7.173	166	701445	20.5784 ug/mL	99
59) 4Clphlphlethr	7.190	204	353797	20.3819 ug/mL	93
60) Diethylphthal	7.142	149	693515	19.8954 ug/mL	98
61) 4Nitroaniline	7.210	138	111272	19.3192 ug/mL	83
64) 46Dinit2mylph	7.230	198	116455	19.1650 ug/mL	82
65) Ntrsdiphlam&Diphlam	7.272	169	868688	41.0070 ug/mL	99
66) Azobenz&12Diphlhyd	7.292	182	308032	40.1546 ug/mL#	52
67) 4Brphlphlethr	7.494	248	204476	20.0366 ug/mL#	82
68) Hexaclbenzene	7.520	284	201587	20.5558 ug/mL	93
69) Pentaclphenol	7.645	266	117658	18.9562 ug/mL	94
70) Phenanthrene	7.767	178	993597	20.3890 ug/mL	99
71) Anthracene	7.798	178	1005610	20.1114 ug/mL	97
72) Carbazole	7.903	167	724526	18.5850 ug/mL	98
73) Dinbtylphthal	8.125	149	1144365	19.8374 ug/mL	99
74) Fluoranthene	8.418	202	731913	20.0952 ug/mL	92
76) Benzidine	8.489	184	41576	15.3671 ug/mL	97
77) Pyrene	8.526	202	760071	21.1295 ug/mL	89
79) Btylbzylphth	8.866	149	324478	20.5633 ug/mL	100
80) 33Diclbnzidin	9.151	252	107695	18.8425 ug/mL	99
81) B[a]anthracen	9.159	228	621614	19.9419 ug/mL	98
82) Chrysene	9.179	228	598362	20.5534 ug/mL	98
83) bis2Ethlhxlph	9.193	149	437268	20.1481 ug/mL	95
84) Dinoctylphthl	9.577	149	808708	20.2746 ug/mL	98
86) B[b]fluoranth	9.779	252	608470	19.5452 ug/mL	95
87) B[k]fluoranth	9.798	252	514385	19.6150 ug/mL	94
88) Benz[a]pyrene	9.966	252	572735	19.9221 ug/mL	92
89) Indeno-pyrene	10.591	276	576062	20.2970 ug/mL	76
90) Dib[ah]anthr	10.605	278	456464	20.5798 ug/mL	92
91) B[ghi]perylen	10.748	276	499183	20.2015 ug/mL	87

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICV1.D Vial: 10
Acq On : 14 Dec 2010 15:55 Operator: RPN
Sample : ICV 20ug/ml SVMS4686 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 09:09:31 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M



Initial Calibration Verification Report

Data File Name	1ICV1.D
Data File Path	C:\INSTARCH\DATA\1S121410\
Operator	RPN
Date Acquired	12/14/2010 15:55
Acq. Method File	1S121410.M
Sample Name	ICV 20ug/ml SVMS4686
Misc Info	1000uL+10ul IS S2263B
Vial Number	10
Instrument Name	SVMS1
Sample Multiplier	1

#	Name	Ret Time	Amount	Units	Response	70-130 %REC
1)	14Diclbenzd4	3.37	20.00	ug/mL	228767	ISTD
2)	Ntrsdimeth	1.67	19.52	ug/mL	149510	98
3)	Pyridine	1.67	19.42	ug/mL	263184	97
4)	SURR2Flphenol	2.34	47.91	%REC	253528	96
5)	Aniline	3.06	19.86	ug/mL	340289	99
6)	bis2Clethletr	3.13	19.47	ug/mL	226906	97
7)	SURRPhenol-d5	3.04	49.93	%REC	305877	100
8)	Phenol	3.06	20.06	ug/mL	321621	100
9)	2-Cl-phenol	3.16	19.42	ug/mL	281280	97
10)	13Diclbenz	3.31	19.94	ug/mL	349976	100
11)	14Diclbenz	3.38	19.89	ug/mL	340227	99
12)	12Diclbenz	3.53	20.08	ug/mL	325054	100
13)	Benzyl alcoho	3.54	19.59	ug/mL	150805	98
14)	bis2clispreth	3.69	19.29	ug/mL	450958	96
15)	2Methylphenol	3.67	19.72	ug/mL	231978	99
16)	Ntrspyrrol	3.80	19.44	ug/mL	112378	97
17)	Acetophenone	3.82	19.21	ug/mL	315838	96
18)	Hexaclethane	3.90	19.53	ug/mL	114133	98
19)	N-Ntrsdinprop	3.84	19.28	ug/mL	155825	96
20)	3&4Methylphenol	3.86	19.91	ug/mL	231212	100
21)	Naphthalened8	4.90	20.00	ug/mL	754707	ISTD
22)	SURRNitrbenzened5	3.98	101.29	%REC	230030	101
23)	Nitrobenzene	4.00	20.12	ug/mL	215560	101
24)	Isophorone	4.32	19.76	ug/mL	419360	99
25)	2-Nitrophenol	4.40	20.33	ug/mL	143162	102
26)	24Dimthpheno	4.52	19.92	ug/mL	218288	100
27)	bis2clethoxym	4.66	20.08	ug/mL	264155	100
28)	24Diclphenol	4.74	20.52	ug/mL	240243	103
29)	124Triclbenz	4.84	20.57	ug/mL	297039	103
30)	Benzoic acid	4.75	17.95	ug/mL	138257	90
31)	Naphthalene	4.93	20.20	ug/mL	746117	101
32)	4-Cl-aniline	5.05	19.71	ug/mL	258434	99
33)	26Diclphenol	5.05	20.03	ug/mL	206807	100
34)	Hexaclprop	5.06	21.01	ug/mL	197518	105
35)	Hexaclbutdien	5.15	20.02	ug/mL	196267	100
36)	4Cl3methylphe	5.80	19.33	ug/mL	268527	97
37)	2Methylnaphth	5.88	20.01	ug/mL	549736	100

38) 1Methylnaphth	5.98	20.05	ug/mL	567089	100
39) Acenaphthened10	6.79	20.00	ug/mL	519228	ISTD
40) Hxclcycpentdi	6.06	20.28	ug/mL	193095	101
41) 1245Tetrclbenz	6.06	21.22	ug/mL	372673	106
42) 246Triclpheno	6.19	20.52	ug/mL	218320	103
43) 245Triclpheno	6.22	20.41	ug/mL	240116	102
44) SURR2Flbiphenyl	6.27	101.11	%REC	724298	101
45) 2Clnaphthalen	6.35	20.04	ug/mL	625063	100
46) 2Nitroaniline	6.46	19.29	ug/mL	138733	96
47) Acnaphthylene	6.68	20.10	ug/mL	953239	100
48) Dimethylphtha	6.64	20.40	ug/mL	711203	102
49) 26Dinitrotolu	6.68	20.32	ug/mL	147297	102
50) Acenaphthene	6.81	20.10	ug/mL	610627	100
51) 3Nitroaniline	6.79	17.30	ug/mL	101102	86
52) 24Dinitphenol	6.87	18.28	ug/mL	80961	91
53) Dibenzofuran	6.94	20.27	ug/mL	849333	101
54) 24Dinitrotolu	6.96	20.49	ug/mL	206817	102
55) 4-Nitrophenol	6.94	19.52	ug/mL	55033	98
56) 2,3,5,6-Tetrachlorop	7.01	21.73	ug/mL	186779	109
57) 2,3,4,6-Tetrachlorop	7.04	20.85	ug/mL	184839	104
58) Fluorene	7.17	20.58	ug/mL	701445	103
59) 4Clphlphlethr	7.19	20.38	ug/mL	353797	102
60) Diethylphthal	7.14	19.90	ug/mL	693515	99
61) 4Nitroaniline	7.21	19.32	ug/mL	111272	97
62) SURR246Tribrphenl	7.33	51.42	%REC	79296	103
63) Phenanthrd10	7.75	20.00	ug/mL	962437	ISTD
64) 46Dinit2mylph	7.23	19.17	ug/mL	116455	96
65) Ntrsdiphlam&Diphlam	7.27	41.01	ug/mL	868688	103
66) Azobenz&12Diphlhyd	7.29	40.15	ug/mL	308032	100
67) 4Brphlphlethr	7.49	20.04	ug/mL	204476	100
68) Hexaclbenzene	7.52	20.56	ug/mL	201587	103
69) Pentaclphenol	7.64	18.96	ug/mL	117658	95
70) Phenanthrene	7.77	20.39	ug/mL	993597	102
71) Anthracene	7.80	20.11	ug/mL	1005610	101
72) Carbazole	7.90	18.58	ug/mL	724526	93
73) Dinbtylphthal	8.12	19.84	ug/mL	1144365	99
74) Fluoranthene	8.42	20.10	ug/mL	731913	100
75) Chrysene-d12	9.16	20.00	ug/mL	532657	ISTD
76) Benzidine	8.49	15.37	ug/mL	41576	77
77) Pyrene	8.53	21.13	ug/mL	760071	106
78) SURRTerphenyl-d14	8.61	104.57	%REC	414772	105
79) Btylbzylphth	8.87	20.56	ug/mL	324478	103
80) 33Diclbnzidin	9.15	18.84	ug/mL	107695	94
81) B[a]anthracen	9.16	19.94	ug/mL	621614	100
82) Chrysene	9.18	20.55	ug/mL	598362	103
83) bis2Ethlhxlph	9.19	20.15	ug/mL	437268	101
84) Dinoctylphthl	9.58	20.27	ug/mL	808708	101
85) Perylene-d12	10.00	20.00	ug/mL	501270	ISTD
86) B[b]fluoranth	9.78	19.55	ug/mL	608470	98
87) B[k]fluoranth	9.80	19.61	ug/mL	514385	98

88) Benz[a]pyrene	9.97	19.92	ug/mL	572735	100
89) Indeno-pyrene	10.59	20.30	ug/mL	576062	101
90) Dib[ah]anthr	10.61	20.58	ug/mL	456464	103
91) B[ghi]perylen	10.75	20.20	ug/mL	499183	101

(#) = recovery out of range Average Percent Recovery = 99

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICV2.D Vial: 11
Acq On : 14 Dec 2010 16:13 Operator: RPN
Sample : ICV 40ug/ml SVMS4687 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 09:12:07 2010

RPN
12/14/10

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	3.368	152	216771	20.00	ug/mL	0.00
21) Naphthalened8	4.903	136	736802	20.00	ug/mL	0.00
39) Acenaphthened10	6.789	164	505602	20.00	ug/mL	0.00
63) Phenanthrd10	7.753	188	952139	20.00	ug/mL	0.00
75) Chrysene-d12	9.171	240	540582	20.00	ug/mL	0.00
85) Perylene-d12	10.006	264	536383	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	2.340	112	505229	100.75	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 100.75%			
7) SURRPhenol-d5	3.053	99	593269	102.20	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 102.20%			
22) SURRNitrbenzened5	3.991	82	440318	198.61	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 198.61%#			
44) SURR2Flbiphenyl	6.272	172	1352971	193.96	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 193.96%#			
62) SURR246Tribrphenl	7.332	330	152847	101.79	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 101.79%			
78) SURRTerphenyl-d14	8.611	244	793150	197.04	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 197.04%#			
Target Compounds						Qvalue
2) Ntrsdimeth	1.675	74	292159	40.2492	ug/mL	92
3) Pyridine	1.675	79	522960	40.7322	ug/mL	76
5) Aniline	3.067	93	647111	39.8494	ug/mL#	47
6) bis2Clethletr	3.141	93	439068	39.7540	ug/mL	95
8) Phenol	3.064	94	613347	40.3771	ug/mL#	48
9) 2-Cl-phenol	3.167	128	548679	39.9780	ug/mL	100
10) 13Diclbenz	3.309	146	668337	40.1927	ug/mL	97
11) 14Diclbenz	3.385	146	649750	40.0918	ug/mL	99
12) 12Diclbenz	3.536	146	610019	39.7756	ug/mL	99
13) Benzyl alcoho	3.544	108	293707	41.1711	ug/mL	83
14) bis2clispreth	3.695	45	860086	38.8182	ug/mL	85
15) 2Methylphenol	3.675	108	446221	40.0309	ug/mL	99
16) Ntrspyrrol	3.814	100	219133	40.0053	ug/mL#	70
17) Acetophenone	3.829	105	600967	38.5811	ug/mL	92
18) Hexaclethane	3.902	117	211801	38.2443	ug/mL	75
19) N-Ntrsdinprop	3.854	70	297223	38.8034	ug/mL	87
20) 3&4Methylphenol	3.874	108	446963	40.6180	ug/mL	93
23) Nitrobenzene	4.013	77	415712	39.7404	ug/mL	72
24) Isophorone	4.334	82	832843	40.1949	ug/mL	90
25) 2-Nitrophenol	4.408	139	289067	42.0534	ug/mL	83
26) 24Dimthpheno	4.536	107	433637	40.5373	ug/mL	95
27) bis2clethoxym	4.664	93	518571	40.3697	ug/mL	95
28) 24Diclphenol	4.752	162	481948	42.1618	ug/mL	99
29) 124Triclbenz	4.843	180	564015	40.0096	ug/mL	97
30) Benzoic acid	4.800	105	320330	40.2005	ug/mL	83
31) Naphthalene	4.934	128	1437289	39.8662	ug/mL	100
32) 4-Cl-aniline	5.062	127	518636	40.5227	ug/mL	95
33) 26Diclphenol	5.056	162	385518	38.2403	ug/mL	96
34) Hexaclprop	5.065	213	372946	40.6262	ug/mL	99
35) Hexaclbutdien	5.153	225	387344	40.4656	ug/mL	96
36) 4Cl3methylphe	5.801	107	524924	39.0639	ug/mL	89
37) 2Methylnaphth	5.883	141	1024262	38.1918	ug/mL	99
38) 1Methylnaphth	5.982	141	1062366	38.4644	ug/mL	97
40) Hxclcycpentdi	6.059	237	377838	41.8149	ug/mL	93

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICV2.D Vial: 11
Acq On : 14 Dec 2010 16:13 Operator: RPN
Sample : ICV 40ug/ml SVMS4687 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 09:12:07 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

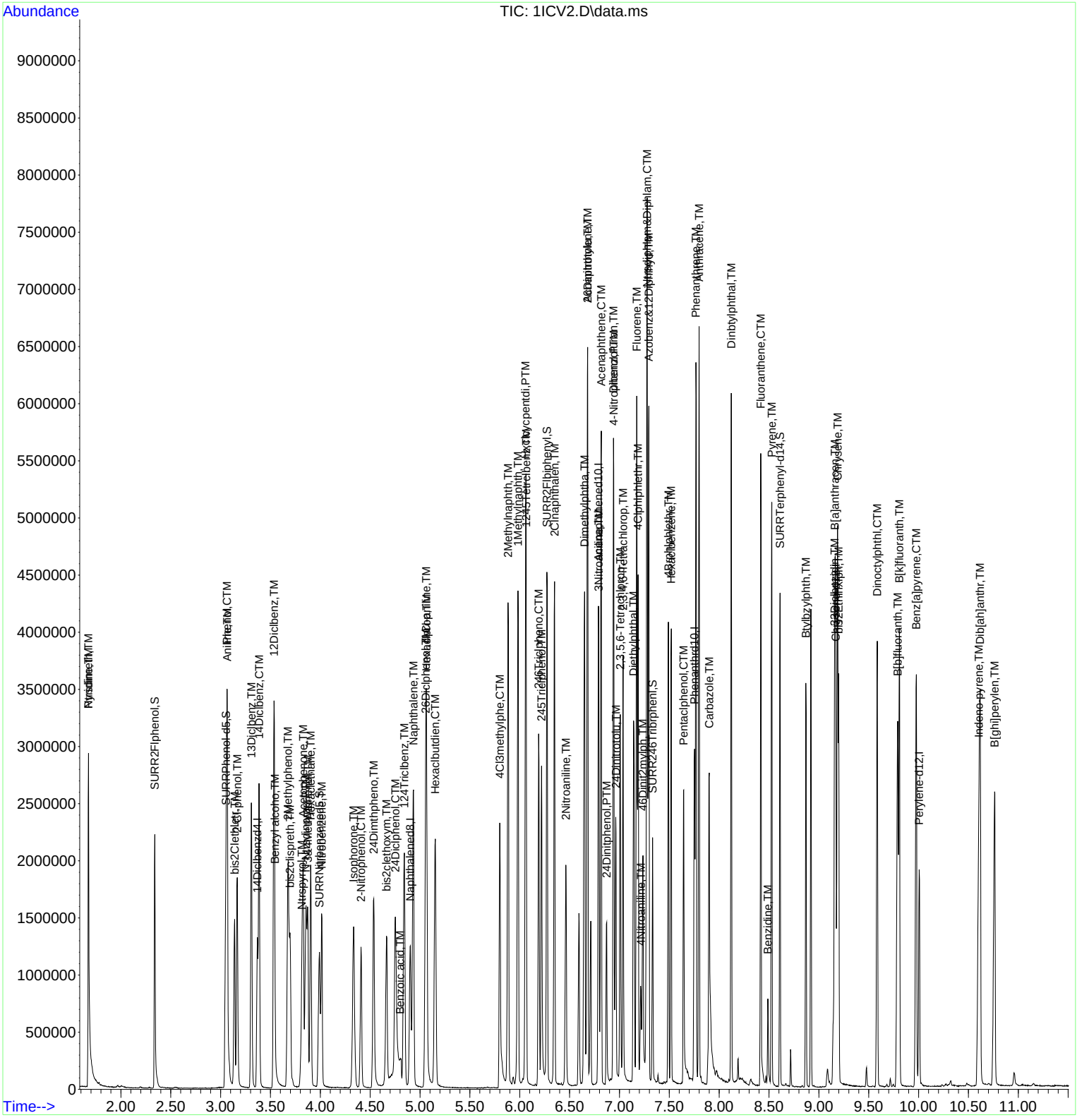
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.065	216	661752	38.6938 ug/mL	96
42) 246Triclpheno	6.190	196	424599	40.9915 ug/mL	99
43) 245Triclpheno	6.218	196	490360	42.8061 ug/mL	99
45) 2Clnaphthalen	6.349	162	1185849	39.0481 ug/mL	99
46) 2Nitroaniline	6.463	65	278118	39.7103 ug/mL#	82
47) Acnaphthylene	6.681	152	1734211	37.5526 ug/mL	99
48) Dimethylphtha	6.650	163	1333558	39.2825 ug/mL	99
49) 26Dinitrotolu	6.681	165	276746	39.1989 ug/mL	77
50) Acenaphthene	6.818	153	1162649	39.2933 ug/mL	100
51) 3Nitroaniline	6.792	138	250518	44.0158 ug/mL	91
52) 24Dinitphenol	6.872	184	187620	38.8620 ug/mL#	61
53) Dibenzofuran	6.940	168	1587055	38.9046 ug/mL	77
54) 24Dinitrotolu	6.966	165	390849	39.7638 ug/mL#	65
55) 4-Nitrophenol	6.943	109	114684	41.7803 ug/mL	99
56) 2,3,5,6-Tetrachlorop	7.008	232	364070	43.4932 ug/mL	98
57) 2,3,4,6-Tetrachlorop	7.037	232	372178	43.1072 ug/mL	97
58) Fluorene	7.173	166	1281960	38.6226 ug/mL	100
59) 4Clphlphlethr	7.187	204	648700	38.3781 ug/mL	95
60) Diethylphthal	7.142	149	1309909	38.5911 ug/mL	100
61) 4Nitroaniline	7.216	138	239500	42.7030 ug/mL	86
64) 46Dinit2mylph	7.236	198	247957	40.5563 ug/mL	80
65) Ntrsdiphlam&Diphlam	7.278	169	1541739	73.5660 ug/mL	99
66) Azobenz&12Diphlhyd	7.295	182	565036	74.4539 ug/mL#	55
67) 4Brphlphlethr	7.491	248	393382	38.9645 ug/mL#	81
68) Hexaclbenzene	7.520	284	368171	37.9484 ug/mL	93
69) Pentaclphenol	7.645	266	256584	40.9070 ug/mL	98
70) Phenanthrene	7.767	178	1867415	38.7345 ug/mL	99
71) Anthracene	7.798	178	1886699	38.1407 ug/mL	100
72) Carbazole	7.900	167	1383769	35.8792 ug/mL	99
73) Dinbtylphthal	8.122	149	2182150	38.2363 ug/mL	100
74) Fluoranthene	8.418	202	1428906	39.6560 ug/mL	92
76) Benzidine	8.489	184	221706	39.2630 ug/mL	99
77) Pyrene	8.528	202	1460245	39.9988 ug/mL	89
79) Btylbzylphth	8.869	149	655965	40.9613 ug/mL	98
80) 33Diclbnzidin	9.156	252	251384	40.9349 ug/mL	94
81) B[a]anthracen	9.162	228	1266745	40.0425 ug/mL	99
82) Chrysene	9.188	228	1176382	39.8157 ug/mL	98
83) bis2Ethlhxlph	9.199	149	867437	39.3832 ug/mL	96
84) Dinoctylphthl	9.585	149	1659155	40.9859 ug/mL	99
86) B[b]fluoranth	9.790	252	1352225	40.5926 ug/mL	94
87) B[k]fluoranth	9.807	252	1095291	39.0324 ug/mL	95
88) Benz[a]pyrene	9.977	252	1226337	39.8646 ug/mL	92
89) Indeno-pyrene	10.605	276	1234518	40.6497 ug/mL	78
90) Dib[ah]anthr	10.617	278	943317	39.7456 ug/mL	93
91) B[ghi]perylen	10.762	276	1045729	39.5495 ug/mL	88

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121410\1ICV2.D Vial: 11
Acq On : 14 Dec 2010 16:13 Operator: RPN
Sample : ICV 40ug/ml SVMS4687 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 09:12:07 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M



Initial Calibration Verification Report

Data File Name	1ICV2.D
Data File Path	C:\INSTARCH\DATA\1S121410\
Operator	RPN
Date Acquired	12/14/2010 16:13
Acq. Method File	1S121410.M
Sample Name	ICV 40ug/ml SVMS4687
Misc Info	1000uL+10ul IS S2263B
Vial Number	11
Instrument Name	SVMS1
Sample Multiplier	1

#	Name	Ret Time	Amount	Units	Response	70-130 %REC
1)	14Diclbenzd4	3.37	20.00	ug/mL	216771	ISTD
2)	Ntrsdimeth	1.67	40.25	ug/mL	292159	101
3)	Pyridine	1.67	40.73	ug/mL	522960	102
4)	SURR2Flphenol	2.34	100.75	%REC	505229	101
5)	Aniline	3.07	39.85	ug/mL	647111	100
6)	bis2Clethletr	3.14	39.75	ug/mL	439068	99
7)	SURRPhenol-d5	3.05	102.20	%REC	593269	102
8)	Phenol	3.06	40.38	ug/mL	613347	101
9)	2-Cl-phenol	3.17	39.98	ug/mL	548679	100
10)	13Diclbenz	3.31	40.19	ug/mL	668337	100
11)	14Diclbenz	3.39	40.09	ug/mL	649750	100
12)	12Diclbenz	3.54	39.78	ug/mL	610019	99
13)	Benzyl alcoho	3.54	41.17	ug/mL	293707	103
14)	bis2clispreth	3.70	38.82	ug/mL	860086	97
15)	2Methylphenol	3.68	40.03	ug/mL	446221	100
16)	Ntrspyrrol	3.81	40.01	ug/mL	219133	100
17)	Acetophenone	3.83	38.58	ug/mL	600967	96
18)	Hexaclethane	3.90	38.24	ug/mL	211801	96
19)	N-Ntrsdinprop	3.85	38.80	ug/mL	297223	97
20)	3&4Methylphenol	3.87	40.62	ug/mL	446963	102
21)	Naphthalened8	4.90	20.00	ug/mL	736802	ISTD
22)	SURRNitrbenzened5	3.99	198.61	%REC	440318	99
23)	Nitrobenzene	4.01	39.74	ug/mL	415712	99
24)	Isophorone	4.33	40.19	ug/mL	832843	100
25)	2-Nitrophenol	4.41	42.05	ug/mL	289067	105
26)	24Dimthpheno	4.54	40.54	ug/mL	433637	101
27)	bis2clethoxym	4.66	40.37	ug/mL	518571	101
28)	24Diclphenol	4.75	42.16	ug/mL	481948	105
29)	124Triclbenz	4.84	40.01	ug/mL	564015	100
30)	Benzoic acid	4.80	40.20	ug/mL	320330	101
31)	Naphthalene	4.93	39.87	ug/mL	1437289	100
32)	4-Cl-aniline	5.06	40.52	ug/mL	518636	101
33)	26Diclphenol	5.06	38.24	ug/mL	385518	96
34)	Hexaclprop	5.06	40.63	ug/mL	372946	102
35)	Hexaclbutdien	5.15	40.47	ug/mL	387344	101
36)	4Cl3methylphe	5.80	39.06	ug/mL	524924	98
37)	2Methylnaphth	5.88	38.19	ug/mL	1024262	95

38) 1Methylnaphth	5.98	38.46	ug/mL	1062366	96
39) Acenaphthened10	6.79	20.00	ug/mL	505602	ISTD
40) Hxclcycpentdi	6.06	41.81	ug/mL	377838	105
41) 1245Tetrclbenz	6.06	38.69	ug/mL	661752	97
42) 246Triclpheno	6.19	40.99	ug/mL	424599	102
43) 245Triclpheno	6.22	42.81	ug/mL	490360	107
44) SURR2Flbiphenyl	6.27	193.96	%REC	1352971	97
45) 2Clnaphthalen	6.35	39.05	ug/mL	1185849	98
46) 2Nitroaniline	6.46	39.71	ug/mL	278118	99
47) Acnaphthylene	6.68	37.55	ug/mL	1734211	94
48) Dimethylphtha	6.65	39.28	ug/mL	1333558	98
49) 26Dinitrotolu	6.68	39.20	ug/mL	276746	98
50) Acenaphthene	6.82	39.29	ug/mL	1162649	98
51) 3Nitroaniline	6.79	44.02	ug/mL	250518	110
52) 24Dinitphenol	6.87	38.86	ug/mL	187620	97
53) Dibenzofuran	6.94	38.90	ug/mL	1587055	97
54) 24Dinitrotolu	6.97	39.76	ug/mL	390849	99
55) 4-Nitrophenol	6.94	41.78	ug/mL	114684	104
56) 2,3,5,6-Tetrachlorop	7.01	43.49	ug/mL	364070	109
57) 2,3,4,6-Tetrachlorop	7.04	43.11	ug/mL	372178	108
58) Fluorene	7.17	38.62	ug/mL	1281960	97
59) 4Clphlphlethr	7.19	38.38	ug/mL	648700	96
60) Diethylphthal	7.14	38.59	ug/mL	1309909	96
61) 4Nitroaniline	7.22	42.70	ug/mL	239500	107
62) SURR246Tribrphenl	7.33	101.79	%REC	152847	102
63) Phenanthrd10	7.75	20.00	ug/mL	952139	ISTD
64) 46Dinit2mylph	7.24	40.56	ug/mL	247957	101
65) Ntrsdiphlam&Diphlam	7.28	73.57	ug/mL	1541739	92
66) Azobenz&12Diphlhyd	7.30	74.45	ug/mL	565036	93
67) 4Brphlphlethr	7.49	38.96	ug/mL	393382	97
68) Hexaclbenzene	7.52	37.95	ug/mL	368171	95
69) Pentaclphenol	7.64	40.91	ug/mL	256584	102
70) Phenanthrene	7.77	38.73	ug/mL	1867415	97
71) Anthracene	7.80	38.14	ug/mL	1886699	95
72) Carbazole	7.90	35.88	ug/mL	1383769	90
73) Dinbtylphthal	8.12	38.24	ug/mL	2182150	96
74) Fluoranthene	8.42	39.66	ug/mL	1428906	99
75) Chrysene-d12	9.17	20.00	ug/mL	540582	ISTD
76) Benzidine	8.49	39.26	ug/mL	221706	98
77) Pyrene	8.53	40.00	ug/mL	1460245	100
78) SURRTerphenyl-d14	8.61	197.04	%REC	793150	99
79) Btylbzylphth	8.87	40.96	ug/mL	655965	102
80) 33Diclbnzidin	9.16	40.93	ug/mL	251384	102
81) B[a]anthracen	9.16	40.04	ug/mL	1266745	100
82) Chrysene	9.19	39.82	ug/mL	1176382	100
83) bis2Ethlhxlph	9.20	39.38	ug/mL	867437	98
84) Dinoctylphthl	9.59	40.99	ug/mL	1659155	102
85) Perylene-d12	10.01	20.00	ug/mL	536383	ISTD
86) B[b]fluoranth	9.79	40.59	ug/mL	1352225	101
87) B[k]fluoranth	9.81	39.03	ug/mL	1095291	98

88) Benz[a]pyrene	9.98	39.86	ug/mL	1226337	100
89) Indeno-pyrene	10.61	40.65	ug/mL	1234518	102
90) Dib[ah]anthr	10.62	39.75	ug/mL	943317	99
91) B[ghi]perylen	10.76	39.55	ug/mL	1045729	99

(#) = recovery out of range Average Percent Recovery = 100

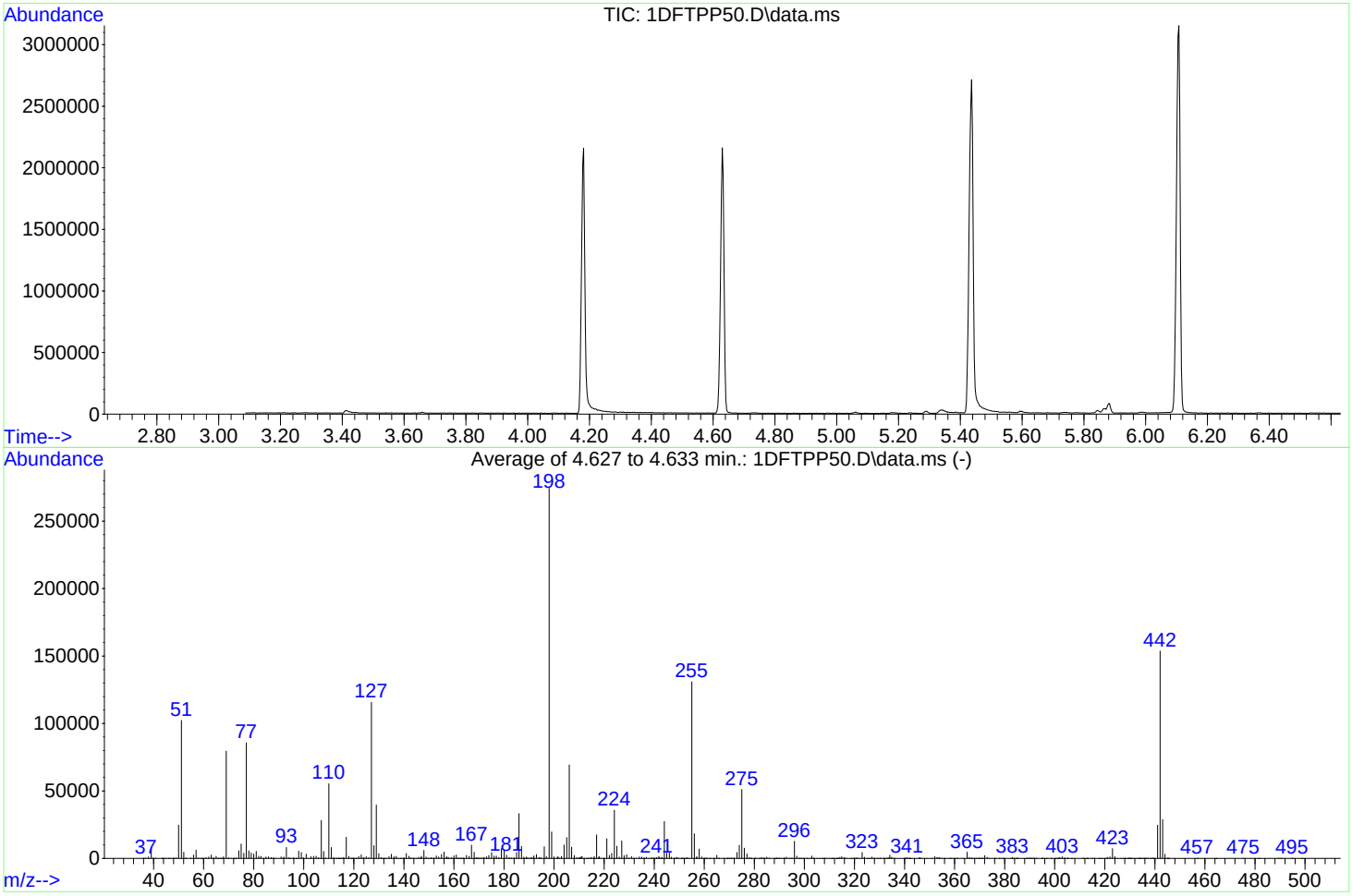
SEMI - VOLATILE ORGANIC ANALYSIS
CONTINUING CALIBRATION
DOCUMENTS

Data Path : C:\INSTARCH\DATA\1S121510\
Data File : 1DFTPP50.D
Acq On : 15 Dec 2010 9:49
Operator : RPN
Sample : DFTPP TUNE SVMS4570
Misc : SVMS1,25 ug DFTPP
ALS Vial : 1 Sample Multiplier: 1

RPN
10/15/10

Integration File: rteint.p

Method : C:\INSTARCH\METHOD\1DFTPP.M
Title : DFTPP TUNE Method
Last Update : Wed Dec 15 13:52:17 2010



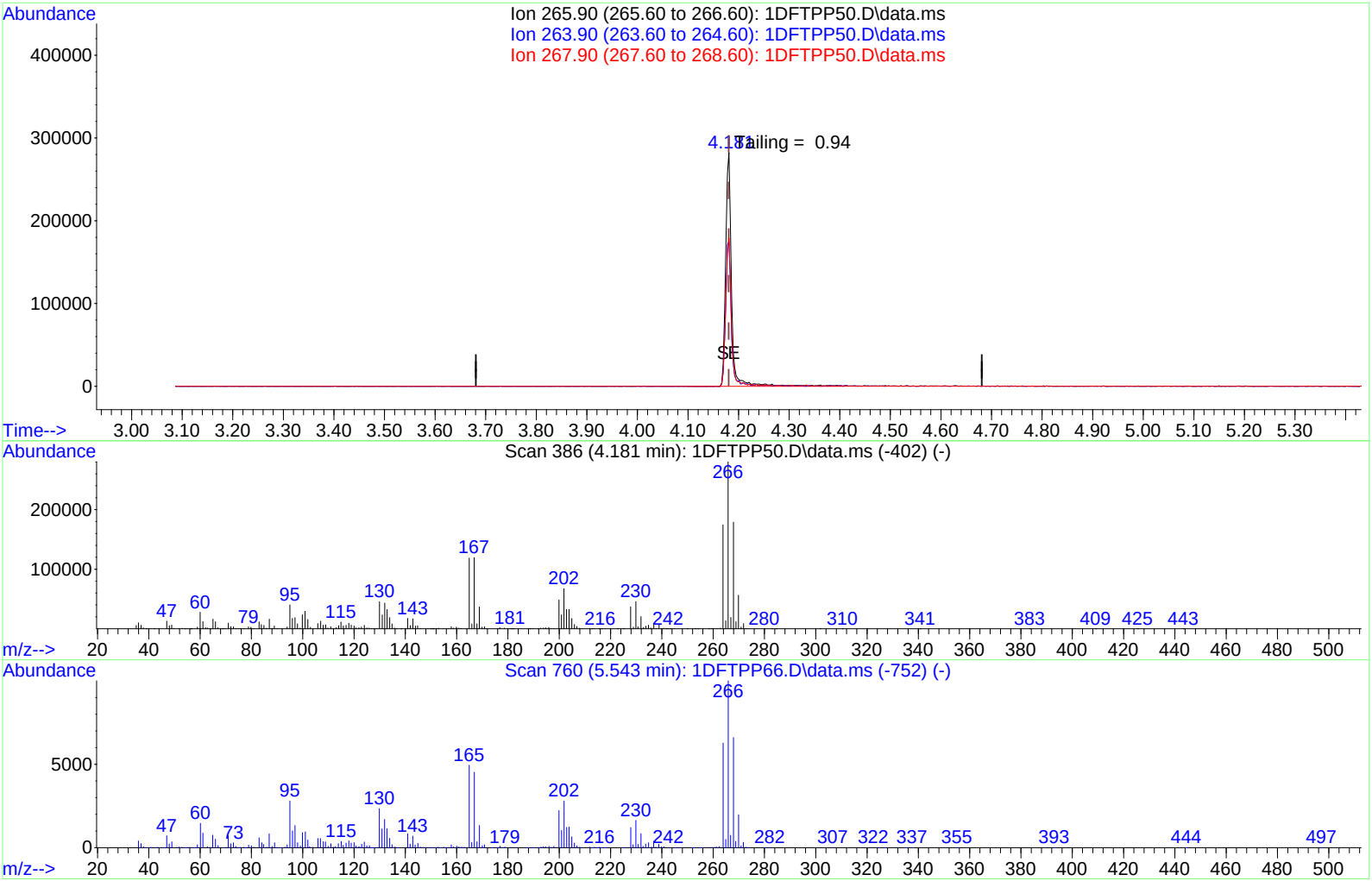
AutoFind: Scans 543, 544, 545; Background Corrected with Scan 534

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.3	102370	PASS
68	69	0.00	2	1.5	1233	PASS
69	198	0.00	100	29.0	79594	PASS
70	69	0.00	2	0.6	442	PASS
127	198	40	60	42.2	115738	PASS
197	198	0.00	1	0.5	1271	PASS
198	198	100	100	100.0	274176	PASS
199	198	5	9	7.1	19597	PASS
275	198	10	30	18.6	51080	PASS
365	198	1	100	1.7	4616	PASS
441	443	0.01	100	85.5	24696	PASS
442	198	40	100	56.1	153698	PASS
443	442	17	23	18.8	28874	PASS

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\1S121510\1DFTPP50.D Vial: 1
Acq On : 15 Dec 2010 9:49 Operator: RPN
Sample : DFTPP TUNE SVMS4570 Inst : SVMS1
Misc : SVMS1,25 ug DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 13:52:21 2010

Quant Method : C:\INSTARCH\METHOD\1DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Wed Dec 15 13:52:17 2010
Response via : Initial Calibration
DataAcq Meth:1DFTPP.M



TIC: 1DFTPP50.D\data.ms

(1) Pentachlorophenol

4.181min (0.000) 39.05 ng

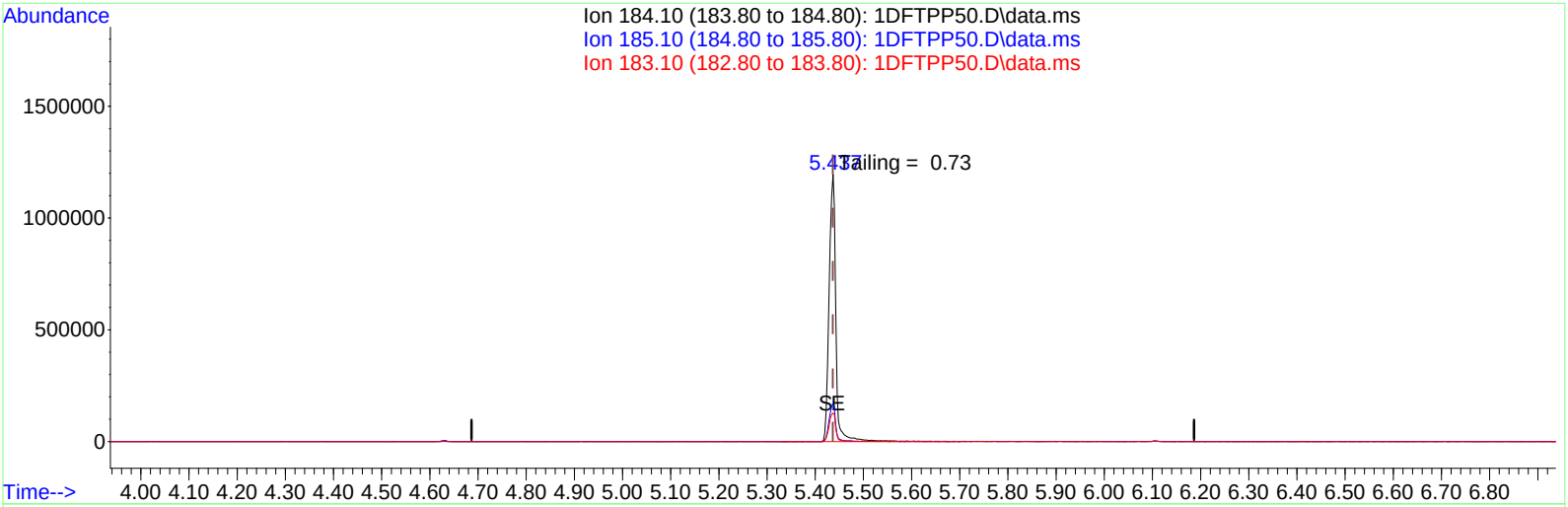
response 219300

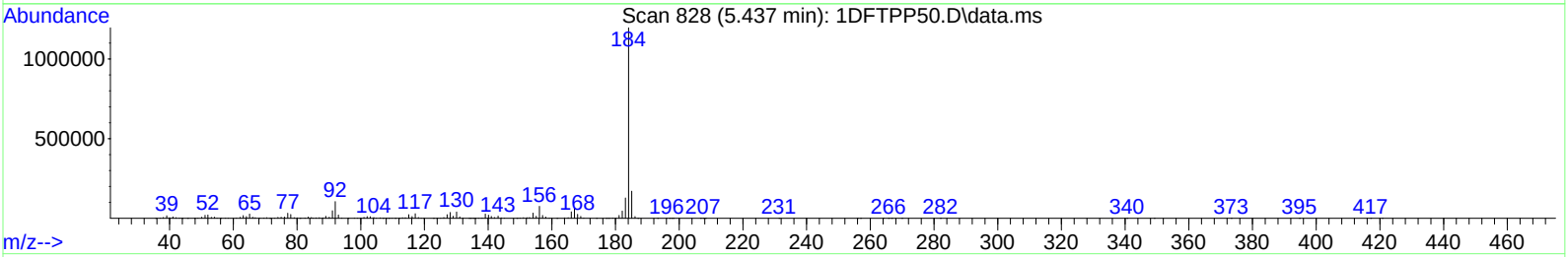
Ion	Exp%	Act%
265.90	100	100
263.90	66.20	62.04
267.90	60.90	63.35
0.00	0.00	0.00

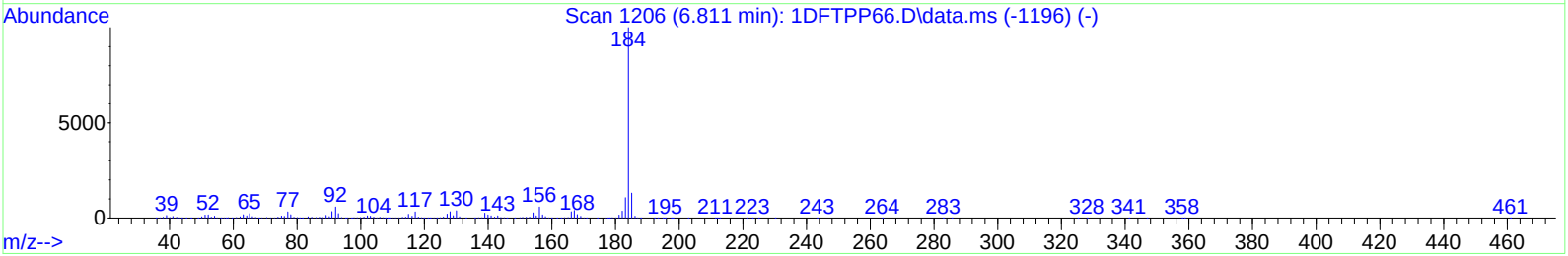
Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\1S121510\1DFTPP50.D Vial: 1
Acq On : 15 Dec 2010 9:49 Operator: RPN
Sample : DFTPP TUNE SVMS4570 Inst : SVMS1
Misc : SVMS1,25 ug DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 13:52:21 2010

Quant Method : C:\INSTARCH\METHOD\1DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Wed Dec 15 13:52:17 2010
Response via : Initial Calibration
DataAcq Meth:1DFTPP.M







TIC: 1DFTPP50.D\data.ms

(3) Benzidine

5.437min (0.000) 22.74 ng

response 1140412

Ion	Exp%	Act%
184.10	100	100
185.10	13.80	14.02
183.10	12.20	10.66
0.00	0.00	0.00

Data File	: 1DFTPP50.D	Vial Number	: 1
Data File Path	: C:\INSTARCH\DATA\1S121510\	Operator	: RPN
Date Acquired	: 12/15/2010 9:49	Instrument Name:	SVMS1
Sample Name	: DFTPP TUNE SVMS4570	Sample Multiplier:	1
Misc Info	: SVMS1,25 ug DFTPP		

Quant Method	: C:\INSTARCH\METHOD\1DFTPP.M
Calibration Title	: DFTPP TUNE Method
Last Update	: Wed Dec 15 13:52:17 2010

Compound	R.T.	QIon	Response
1) Pentachlorophenol	4.18	266	219300
2) DFTPP	4.63	198	230767
3) Benzidine	5.44	184	1140412
4) DDE	5.59	246	1133
5) DDD	5.88	235	17200
6) DDT	6.11	235	609520

DDT %Degradation

$$\frac{\text{DDD + DDE}}{\text{DDD + DDE + DDT}} \times 100\% = 2.92\ \%$$

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\1S121510\1CCV45.D Vial: 2
Acq On : 15 Dec 2010 10:05 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 10:16:53 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	20.000	20.000	0.0	91	0.00
2	TM	Ntrsdimeth	20.000	21.058	-5.3	92	0.00
3	TM	Pyridine	20.000	21.667	-8.3	97	0.00
4	S	SURR2Flphenol	50.000	53.183	-6.4	93	0.00
5	TM	Aniline	20.000	21.329	-6.6	95	0.00
6	TM	bis2Clethletr	20.000	20.509	-2.5	94	0.00
7	S	SURRPhenol-d5	50.000	53.775	-7.5	94	0.00
8	CTM	Phenol	20.000	21.222	-6.1	92	0.00
9	TM	2-Cl-phenol	20.000	20.726	-3.6	93	0.00
10	TM	13Diclbenz	20.000	20.969	-4.8	95	0.00
11	CTM	14Diclbenz	20.000	21.151	-5.8	96	0.00
12	TM	12Diclbenz	20.000	21.263	-6.3	94	0.00
13	TM	Benzyl alcoho	20.000	20.573	-2.9	95	0.00
14	TM	bis2clispreth	20.000	19.759	1.2	88	0.00
15	TM	2Methylphenol	20.000	21.079	-5.4	93	0.00
16	TM	Ntrspyrrol	20.000	21.399	-7.0	96	0.00
17	TM	Acetophenone	20.000	20.237	-1.2	90	0.00
18	TM	Hexaclethane	20.000	20.307	-1.5	92	0.00
19	PTM	N-Ntrsdinprop	20.000	19.502	2.5	89	0.00
20	TM	3&4Methylphenol	20.000	21.148	-5.7	93	0.00
21	I	Naphthalened8	20.000	20.000	0.0	90	0.00
22	S	SURRNitrbenzened5	100.000	103.649	-3.6	90	0.00
23	TM	Nitrobenzene	20.000	20.278	-1.4	89	0.00
24	TM	Isophorone	20.000	20.562	-2.8	91	0.00
25	CTM	2-Nitrophenol	20.000	21.345	-6.7	88	0.00
26	TM	24Dimthpheno	20.000	21.145	-5.7	91	0.00
27	TM	bis2clethoxym	20.000	20.744	-3.7	90	0.00
28	CTM	24Diclphenol	20.000	21.486	-7.4	91	0.00
29	TM	124Triclbenz	20.000	20.936	-4.7	92	0.00
30	TM	Benzoic acid	20.000	18.029	9.9	79	0.00
31	TM	Naphthalene	20.000	20.966	-4.8	93	0.00
32	TM	4-Cl-aniline	20.000	21.069	-5.3	97	0.00
33	TM	26Diclphenol	20.000	22.103	-10.5	93	0.00
34	TM	Hexaclprop	20.000	22.302	-11.5	94	0.00
35	CTM	Hexaclbutdien	20.000	20.840	-4.2	92	0.00
36	CTM	4Cl3methylphe	20.000	19.750	1.3	90	0.00
37	TM	2Methylnaphth	20.000	20.615	-3.1	91	0.00
38	TM	1Methylnaphth	20.000	20.740	-3.7	90	0.00
39	I	Acenaphthened10	20.000	20.000	0.0	86	0.00
40	PTM	Hxclcycpentdi	20.000	20.836	-4.2	89	0.00
41	TM	1245Tetrclbenz	20.000	21.879	-9.4	95	0.00
42	CTM	246Triclpheno	20.000	21.989	-9.9	93	0.00
43	TM	245Triclpheno	20.000	21.809	-9.0	90	0.00
44	S	SURR2Flbiphenyl	100.000	107.708	-7.7	93	0.00
45	TM	2Clnaphthalen	20.000	21.223	-6.1	90	0.00
46	TM	2Nitroaniline	20.000	20.438	-2.2	89	0.00
47	TM	Acnaphthylene	20.000	21.242	-6.2	92	0.00
48	TM	Dimethylphtha	20.000	21.454	-7.3	92	0.00
49	TM	26Dinitrotolu	20.000	21.292	-6.5	90	0.00
50	CTM	Acenaphthene	20.000	21.212	-6.1	90	0.00
51	TM	3Nitroaniline	20.000	18.319	8.4	87	0.00

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\1S121510\1CCV45.D Vial: 2
Acq On : 15 Dec 2010 10:05 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 10:16:53 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	PTM	24Dinitphenol	20.000	17.463	12.7	74	0.00
53	TM	Dibenzofuran	20.000	21.591	-8.0	92	0.00
54	TM	24Dinitrotolu	20.000	21.326	-6.6	91	0.00
55	PTM	4-Nitrophenol	20.000	21.365	-6.8	88	0.00
56	TM	2,3,5,6-Tetrachlorop	20.000	22.880	-14.4	92	0.00
57	TM	2,3,4,6-Tetrachlorop	20.000	22.053	-10.3	92	0.00
58	TM	Fluorene	20.000	20.995	-5.0	89	0.00
59	TM	4Clphlphlethr	20.000	21.210	-6.1	91	0.00
60	TM	Diethylphthal	20.000	21.033	-5.2	90	0.00
61	TM	4Nitroaniline	20.000	21.544	-7.7	97	0.00
62	S	SURR246Tribrphenl	50.000	55.925	-11.8	93	0.00
63	I	Phenanthrd10	20.000	20.000	0.0	88	0.00
64	TM	46Dinit2mylph	20.000	18.099	9.5	83	0.00
65	CTM	Ntrsdiphlam&Diphlam	40.000	41.740	-4.4	93	0.00
66	TM	Azobenz&12Diphlhyd	40.000	40.979	-2.4	91	0.00
67	TM	4Brphlphlethr	20.000	20.600	-3.0	92	0.00
68	TM	Hexaclbenzene	20.000	21.181	-5.9	92	0.00
69	CTM	Pentaclphenol	20.000	20.144	-0.7	92	0.00
70	TM	Phenanthrene	20.000	20.785	-3.9	92	0.00
71	TM	Anthracene	20.000	20.778	-3.9	93	0.00
72	TM	Carbazole	20.000	17.664	11.7	82	0.00
73	TM	Dinbtylphthal	20.000	20.680	-3.4	89	0.00
74	CTM	Fluoranthene	20.000	21.397	-7.0	93	0.00
75	I	Chrysene-d12	20.000	20.000	0.0	93	0.00
76	TM	Benzidine	20.000	18.931	5.3	88	0.00
77	TM	Pyrene	20.000	20.218	-1.1	92	0.00
78	S	SURRTerphenyl-d14	100.000	103.348	-3.3	95	0.00
79	TM	Btylbzylphth	20.000	20.730	-3.7	94	0.00
80	TM	33Diclbnzidin	20.000	19.058	4.7	89	0.00
81	TM	B[a]anthracen	20.000	20.420	-2.1	96	0.00
82	TM	Chrysene	20.000	21.100	-5.5	97	0.00
83	TM	bis2Ethlhxlph	20.000	20.378	-1.9	94	0.00
84	CTM	Dinoctylphthl	20.000	20.732	-3.7	93	0.00
85	I	Perylene-d12	20.000	20.000	0.0	92	0.00
86	TM	B[b]fluoranth	20.000	20.109	-0.5	90	0.00
87	TM	B[k]fluoranth	20.000	22.500	-12.5	102	0.00
88	CTM	Benz[a]pyrene	20.000	21.267	-6.3	98	0.00
89	TM	Indeno-pyrene	20.000	21.579	-7.9	97	0.00
90	TM	Dib[ah]anthr	20.000	22.137	-10.7	99	0.00
91	TM	B[ghi]perylen	20.000	21.288	-6.4	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\1S121510\1CCV45.D Vial: 2
Acq On : 15 Dec 2010 10:05 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 10:16:53 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	1.000	1.000	0.0	91	0.00
2	TM	Ntrsdimeth	0.670	0.705	-5.2	92	0.00
3	TM	Pyridine	1.185	1.283	-8.3	97	0.00
4	S	SURR2Flphenol	0.463	0.492	-6.3	93	0.00
5	TM	Aniline	1.498	1.598	-6.7	95	0.00
6	TM	bis2Clethletr	1.019	1.045	-2.6	94	0.00
7	S	SURRPhenol-d5	0.536	0.576	-7.5	94	0.00
8	CTM	Phenol	1.402	1.487	-6.1	92	0.00
9	TM	2-Cl-phenol	1.266	1.312	-3.6	93	0.00
10	TM	13Diclbenz	1.534	1.609	-4.9	95	0.00
11	CTM	14Diclbenz	1.495	1.581	-5.8	96	0.00
12	TM	12Diclbenz	1.415	1.504	-6.3	94	0.00
13	TM	Benzyl alcoho	0.615	0.692	-12.5	95	0.00
14	TM	bis2clispreth	2.044	2.020	1.2	88	0.00
15	TM	2Methylphenol	1.028	1.084	-5.4	93	0.00
16	TM	Ntrspyrrol	0.505	0.541	-7.1	96	0.00
17	TM	Acetophenone	1.437	1.454	-1.2	90	0.00
18	TM	Hexaclethane	0.511	0.519	-1.6	92	0.00
19	PTM	N-Ntrsdinprop	0.707	0.689	2.5	89	0.00
20	TM	3&4Methylphenol	1.015	1.074	-5.8	93	0.00
21	I	Naphthalened8	1.000	1.000	0.0	90	0.00
22	S	SURRNitrbenzened5	0.060	0.062	-3.3	90	0.00
23	TM	Nitrobenzene	0.284	0.288	-1.4	89	0.00
24	TM	Isophorone	0.562	0.578	-2.8	91	0.00
25	CTM	2-Nitrophenol	0.187	0.199	-6.4	88	0.00
26	TM	24Dimthpheno	0.290	0.307	-5.9	91	0.00
27	TM	bis2clethoxym	0.349	0.362	-3.7	90	0.00
28	CTM	24Diclphenol	0.310	0.333	-7.4	91	0.00
29	TM	124Triclbenz	0.383	0.401	-4.7	92	0.00
30	TM	Benzoic acid	0.191	0.184	3.7	79	0.00
31	TM	Naphthalene	0.979	1.026	-4.8	93	0.00
32	TM	4-Cl-aniline	0.347	0.366	-5.5	97	0.00
33	TM	26Diclphenol	0.274	0.302	-10.2	93	0.00
34	TM	Hexaclprop	0.249	0.278	-11.6	94	0.00
35	CTM	Hexaclbutdien	0.260	0.271	-4.2	92	0.00
36	CTM	4Cl3methylphe	0.341	0.364	-6.7	90	0.00
37	TM	2Methylnaphth	0.728	0.750	-3.0	91	0.00
38	TM	1Methylnaphth	0.750	0.777	-3.6	90	0.00
39	I	Acenaphthened10	1.000	1.000	0.0	86	0.00
40	PTM	Hxclcycpentdi	0.334	0.382	-14.4	89	0.00
41	TM	1245Tetrclbenz	0.677	0.740	-9.3	95	0.00
42	CTM	246Triclpheno	0.410	0.450	-9.8	93	0.00
43	TM	245Triclpheno	0.453	0.494	-9.1	90	0.00
44	S	SURR2Flbiphenyl	0.276	0.297	-7.6	93	0.00
45	TM	2Clnaphthalen	1.201	1.275	-6.2	90	0.00
46	TM	2Nitroaniline	0.277	0.283	-2.2	89	0.00
47	TM	Acnaphthylene	1.827	1.940	-6.2	92	0.00
48	TM	Dimethylphtha	1.343	1.440	-7.2	92	0.00
49	TM	26Dinitrotolu	0.279	0.297	-6.5	90	0.00
50	CTM	Acenaphthene	1.170	1.241	-6.1	90	0.00
51	TM	3Nitroaniline	0.225	0.206	8.4	87	0.00

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\1S121510\1CCV45.D Vial: 2
Acq On : 15 Dec 2010 10:05 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 10:16:53 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	PTM	24Dinitphenol	0.162	0.148	8.6	74	0.00
53	TM	Dibenzofuran	1.614	1.742	-7.9	92	0.00
54	TM	24Dinitrotolu	0.389	0.415	-6.7	91	0.00
55	PTM	4-Nitrophenol	0.109	0.116	-6.4	88	0.00
56	TM	2,3,5,6-Tetrachlorop	0.331	0.379	-14.5	92	0.00
57	TM	2,3,4,6-Tetrachlorop	0.342	0.377	-10.2	92	0.00
58	TM	Fluorene	1.313	1.378	-5.0	89	0.00
59	TM	4Clphlphlethr	0.669	0.709	-6.0	91	0.00
60	TM	Diethylphthal	1.343	1.412	-5.1	90	0.00
61	TM	4Nitroaniline	0.222	0.239	-7.7	97	0.00
62	S	SURR246Tribrphenl	0.059	0.066	-11.9	93	0.00
63	I	Phenanthrd10	1.000	1.000	0.0	88	0.00
64	TM	46Dinit2mylph	0.121	0.114	5.8	83	0.00
65	CTM	Ntrsdiphlam&Diphlam	0.440	0.459	-4.3	93	0.00
66	TM	Azobenz&12Diphlhyd	0.159	0.163	-2.5	91	0.00
67	TM	4Brphlphlethr	0.212	0.218	-2.8	92	0.00
68	TM	Hexaclbenzene	0.204	0.216	-5.9	92	0.00
69	CTM	Pentaclphenol	0.122	0.131	-7.4	92	0.00
70	TM	Phenanthrene	1.013	1.052	-3.8	92	0.00
71	TM	Anthracene	1.039	1.079	-3.8	93	0.00
72	TM	Carbazole	0.810	0.716	11.6	82	0.00
73	TM	Dinbtylphthal	1.199	1.240	-3.4	89	0.00
74	CTM	Fluoranthene	0.757	0.810	-7.0	93	0.00
75	I	Chrysene-d12	1.000	1.000	0.0	93	0.00
76	TM	Benzidine	0.173	0.109	37.0#	88	0.00
77	TM	Pyrene	1.351	1.365	-1.0	92	0.00
78	S	SURRTerphenyl-d14	0.149	0.154	-3.4	95	0.00
79	TM	Btylbzylphth	0.592	0.614	-3.7	94	0.00
80	TM	33Diclbnzidin	0.247	0.205	17.0	89	0.00
81	TM	B[a]anthracen	1.170	1.195	-2.1	96	0.00
82	TM	Chrysene	1.093	1.153	-5.5	97	0.00
83	TM	bis2Ethlhxlph	0.815	0.830	-1.8	94	0.00
84	CTM	Dinoctylphthl	1.498	1.552	-3.6	93	0.00
85	I	Perylene-d12	1.000	1.000	0.0	92	0.00
86	TM	B[b]fluoranth	1.242	1.249	-0.6	90	0.00
87	TM	B[k]fluoranth	1.046	1.177	-12.5	102	0.00
88	CTM	Benz[a]pyrene	1.147	1.220	-6.4	98	0.00
89	TM	Indeno-pyrene	1.132	1.222	-8.0	97	0.00
90	TM	Dib[ah]anthr	0.885	0.980	-10.7	99	0.00
91	TM	B[ghi]perylen	0.986	1.049	-6.4	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\1CCV45.D Vial: 2
Acq On : 15 Dec 2010 10:05 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 10:16:53 2010

RPN
10/15/10

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	3.366	152	211359	20.00	ug/mL	0.00
21) Naphthalened8	4.897	136	699661	20.00	ug/mL	0.00
39) Acenaphthened10	6.787	164	472601	20.00	ug/mL	0.00
63) Phenanthrd10	7.747	188	906957	20.00	ug/mL	0.00
75) Chrysene-d12	9.168	240	544836	20.00	ug/mL	0.00
85) Perylene-d12	10.003	264	522547	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	2.340	112	260044	53.18	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 53.18%			
7) SURRPhenol-d5	3.044	99	304361	53.78	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 53.78%			
22) SURRNitrbenzened5	3.982	82	218211	103.65	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 103.65%			
44) SURR2Flbiphenyl	6.269	172	702285	107.71	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 107.71%			
62) SURR246Tribrphenl	7.327	330	78495	55.92	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 55.92%			
78) SURRTerphenyl-d14	8.608	244	419287	103.35	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 103.35%			
Target Compounds						Qvalue
2) Ntrsdimeth	1.672	74	149041	21.0584	ug/mL	97
3) Pyridine	1.678	79	271240	21.6672	ug/mL	79
5) Aniline	3.062	93	337713	21.3291	ug/mL	49
6) bis2Clethletr	3.133	93	220856	20.5087	ug/mL	98
8) Phenol	3.056	94	314328	21.2223	ug/mL	54
9) 2-Cl-phenol	3.161	128	277349	20.7257	ug/mL	98
10) 13Diclbenz	3.306	146	339973	20.9689	ug/mL	100
11) 14Diclbenz	3.383	146	334232	21.1513	ug/mL	100
12) 12Diclbenz	3.533	146	317959	21.2630	ug/mL	94
13) Benzyl alcoho	3.538	108	146289	20.5726	ug/mL	83
14) bis2clispreth	3.689	45	426875	19.7594	ug/mL	90
15) 2Methylphenol	3.667	108	229102	21.0792	ug/mL	99
16) Ntrspyrrol	3.797	100	114290	21.3992	ug/mL#	62
17) Acetophenone	3.817	105	307349	20.2365	ug/mL	95
18) Hexaclethane	3.900	117	109654	20.3069	ug/mL	75
19) N-Ntrsdinprop	3.840	70	145653	19.5024	ug/mL	85
20) 3&4Methylphenol	3.857	108	226902	21.1478	ug/mL	99
23) Nitrobenzene	4.005	77	201430	20.2781	ug/mL	72
24) Isophorone	4.320	82	404575	20.5622	ug/mL	87
25) 2-Nitrophenol	4.403	139	139327	21.3452	ug/mL	90
26) 24Dimthpheno	4.525	107	214788	21.1447	ug/mL	96
27) bis2clethoxym	4.656	93	253032	20.7437	ug/mL	93
28) 24Diclphenol	4.744	162	233229	21.4864	ug/mL	95
29) 124Triclbenz	4.837	180	280253	20.9357	ug/mL	94
30) Benzoic acid	4.738	105	128801	18.0286	ug/mL	84
31) Naphthalene	4.925	128	717765	20.9656	ug/mL	99
32) 4-Cl-aniline	5.053	127	256057	21.0686	ug/mL	98
33) 26Diclphenol	5.048	162	211598	22.1030	ug/mL	98
34) Hexaclprop	5.059	213	194413	22.3023	ug/mL	97
35) Hexaclbutdien	5.150	225	189430	20.8401	ug/mL	96
36) 4Cl3methylphe	5.792	107	254407	19.7496	ug/mL	89
37) 2Methylnaphth	5.877	141	524995	20.6147	ug/mL	95
38) 1Methylnaphth	5.977	141	543959	20.7402	ug/mL	99
40) Hxclcycpentdi	6.056	237	180530	20.8356	ug/mL	96

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\1CCV45.D Vial: 2
Acq On : 15 Dec 2010 10:05 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 10:16:53 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

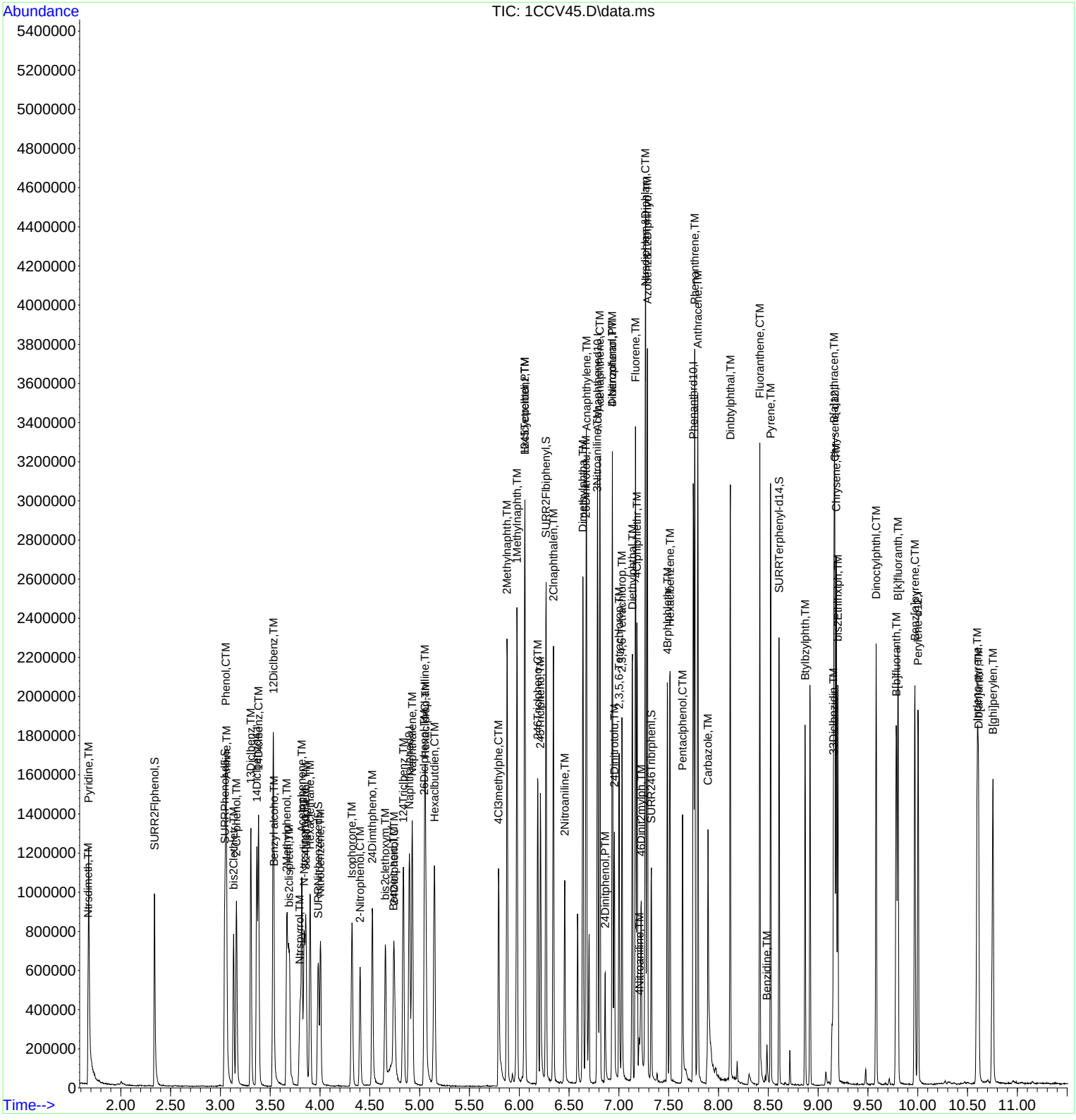
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.056	216	349756	21.8789 ug/mL	99
42) 246Triclpheno	6.187	196	212900	21.9890 ug/mL	95
43) 245Triclpheno	6.213	196	233520	21.8087 ug/mL	97
45) 2Clnaphthalen	6.343	162	602460	21.2233 ug/mL	98
46) 2Nitroaniline	6.457	65	133801	20.4385 ug/mL#	81
47) Acnaphthylene	6.676	152	916960	21.2423 ug/mL	100
48) Dimethylphtha	6.639	163	680766	21.4536 ug/mL	98
49) 26Dinitrotolu	6.670	165	140510	21.2919 ug/mL	79
50) Acenaphthene	6.809	153	586685	21.2123 ug/mL	97
51) 3Nitroaniline	6.784	138	97457	18.3188 ug/mL	94
52) 24Dinitphenol	6.863	184	69725	17.4627 ug/mL#	62
53) Dibenzofuran	6.934	168	823298	21.5914 ug/mL	77
54) 24Dinitrotolu	6.954	165	195939	21.3262 ug/mL	67
55) 4-Nitrophenol	6.934	109	54818	21.3652 ug/mL	81
56) 2,3,5,6-Tetrachlorop	7.003	232	179020	22.8798 ug/mL	99
57) 2,3,4,6-Tetrachlorop	7.031	232	177974	22.0531 ug/mL	97
58) Fluorene	7.167	166	651383	20.9951 ug/mL	99
59) 4Clphlphlethr	7.182	204	335105	21.2097 ug/mL	97
60) Diethylphthal	7.136	149	667319	21.0327 ug/mL	97
61) 4Nitroaniline	7.207	138	112941	21.5436 ug/mL	80
64) 46Dinit2mylph	7.224	198	103260	18.0991 ug/mL	81
65) Ntrsdiphlam&Diphlam	7.267	169	833245	41.7400 ug/mL	98
66) Azobenz&12Diphlhyd	7.287	182	296238	40.9794 ug/mL#	53
67) 4Brphlphlethr	7.488	248	198109	20.6003 ug/mL#	80
68) Hexaclbenzene	7.514	284	195746	21.1812 ug/mL	93
69) Pentaclphenol	7.639	266	118363	20.1437 ug/mL	93
70) Phenanthrene	7.761	178	954486	20.7845 ug/mL	99
71) Anthracene	7.793	178	979051	20.7780 ug/mL	99
72) Carbazole	7.895	167	648933	17.6642 ug/mL	99
73) Dinbtylphthal	8.119	149	1124209	20.6801 ug/mL	99
74) Fluoranthene	8.415	202	734418	21.3975 ug/mL	91
76) Benzidine	8.486	184	59502	18.9312 ug/mL	97
77) Pyrene	8.523	202	743895	20.2176 ug/mL	92
79) Btylbzylphth	8.869	149	334591	20.7302 ug/mL	99
80) 33Diclbnzidin	9.154	252	111457	19.0582 ug/mL	99
81) B[a]anthracen	9.162	228	651072	20.4201 ug/mL	98
82) Chrysene	9.182	228	628309	21.0996 ug/mL	98
83) bis2Ethlhxlph	9.199	149	452364	20.3778 ug/mL	96
84) Dinoctylphthl	9.583	149	845843	20.7316 ug/mL	98
86) B[b]fluoranth	9.787	252	652598	20.1091 ug/mL	94
87) B[k]fluoranth	9.801	252	615093	22.5002 ug/mL	94
88) Benz[a]pyrene	9.972	252	637366	21.2675 ug/mL	89
89) Indeno-pyrene	10.597	276	638449	21.5792 ug/mL	70
90) Dib[ah]anthr	10.611	278	511853	22.1374 ug/mL	91
91) B[ghi]perylen	10.756	276	548363	21.2882 ug/mL	85

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\1CCV45.D Vial: 2
Acq On : 15 Dec 2010 10:05 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 10:16:53 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M



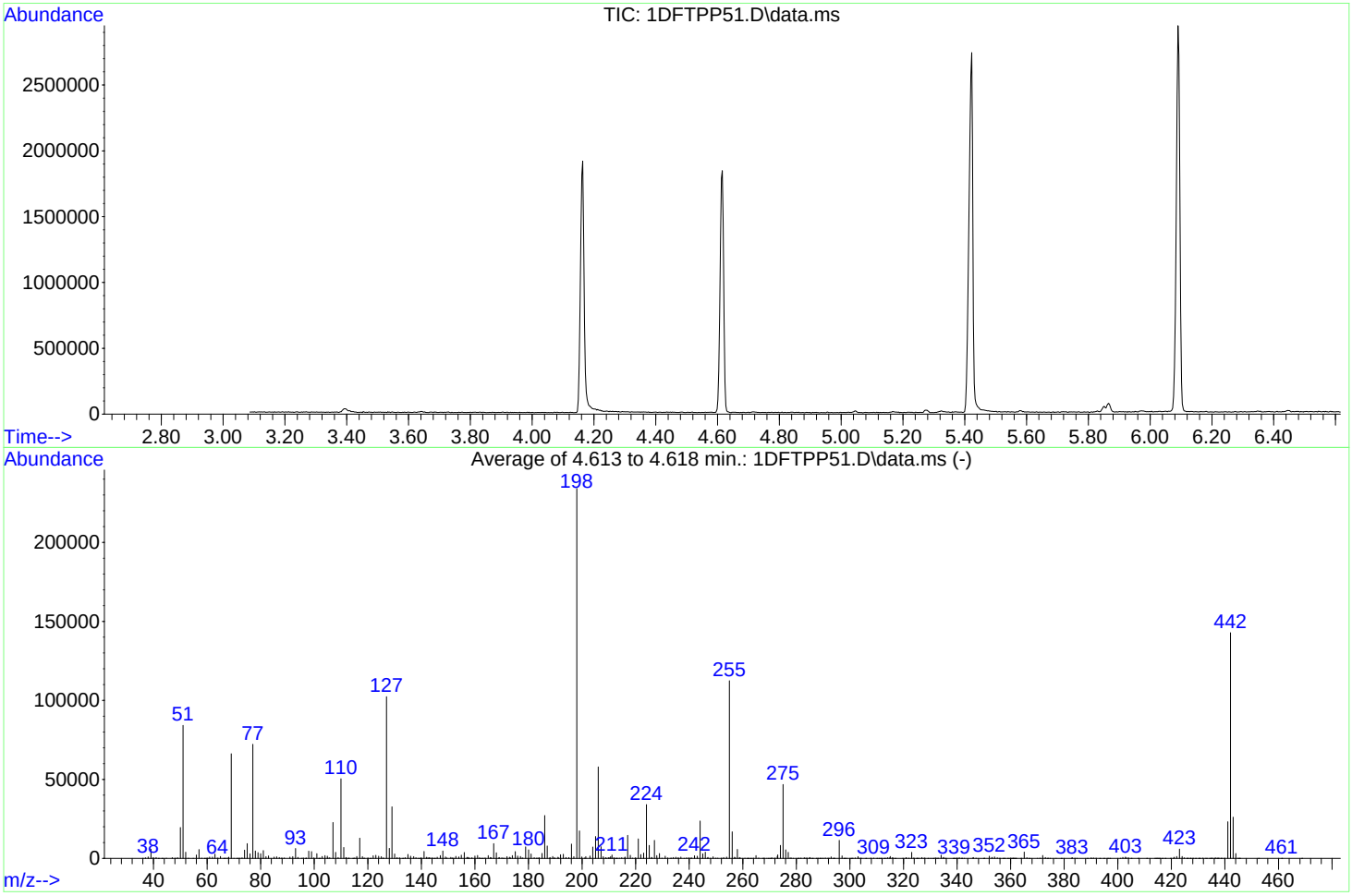
DFTPP

Data Path : C:\INSTARCH\DATA\1S121610\
Data File : 1DFTPP51.D
Acq On : 16 Dec 2010 12:23
Operator : RPN
Sample : DFTPP TUNE SVMS4570
Misc : SVMS1,25 ug DFTPP
ALS Vial : 1 Sample Multiplier: 1

RPN
12/27/10

Integration File: INTP57.p

Method : C:\INSTARCH\METHOD\1SS013.M
Title : Method for 8270 analysis for instrument SVMS2
Last Update : Mon Dec 27 12:11:56 2010



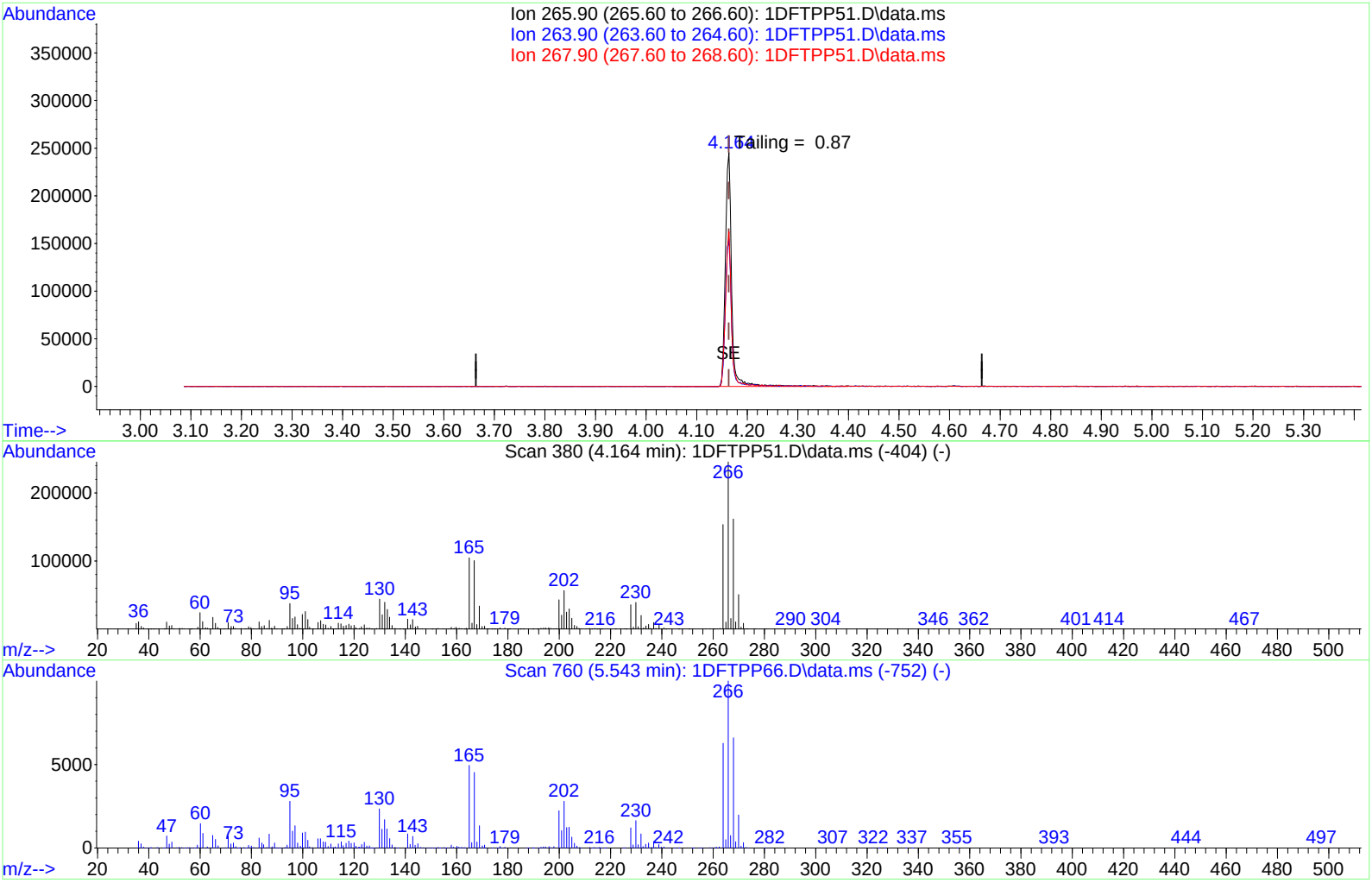
AutoFind: Scans 538, 539, 540; Background Corrected with Scan 528

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.0	84240	PASS
68	69	0.00	2	1.1	739	PASS
69	198	0.00	100	28.3	66212	PASS
70	69	0.00	2	0.1	97	PASS
127	198	40	60	43.7	102348	PASS
197	198	0.00	1	0.5	1121	PASS
198	198	100	100	100.0	234133	PASS
199	198	5	9	7.4	17438	PASS
275	198	10	30	20.0	46821	PASS
365	198	1	100	1.7	4018	PASS
441	443	0.01	100	88.8	23194	PASS
442	198	40	100	61.0	142848	PASS
443	442	17	23	18.3	26133	PASS

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\1S121610\1DFTPP51.D Vial: 1
Acq On : 16 Dec 2010 12:23 Operator: RPN
Sample : DFTPP TUNE SVMS4570 Inst : SVMS1
Misc : SVMS1,25 ug DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 27 12:34:29 2010

Quant Method : C:\INSTARCH\METHOD\1DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Mon Dec 27 12:34:26 2010
Response via : Initial Calibration
DataAcq Meth:1DFTPP.M



TIC: 1DFTPP51.D\data.ms

(1) Pentachlorophenol

4.164min (0.000) 36.73 ng

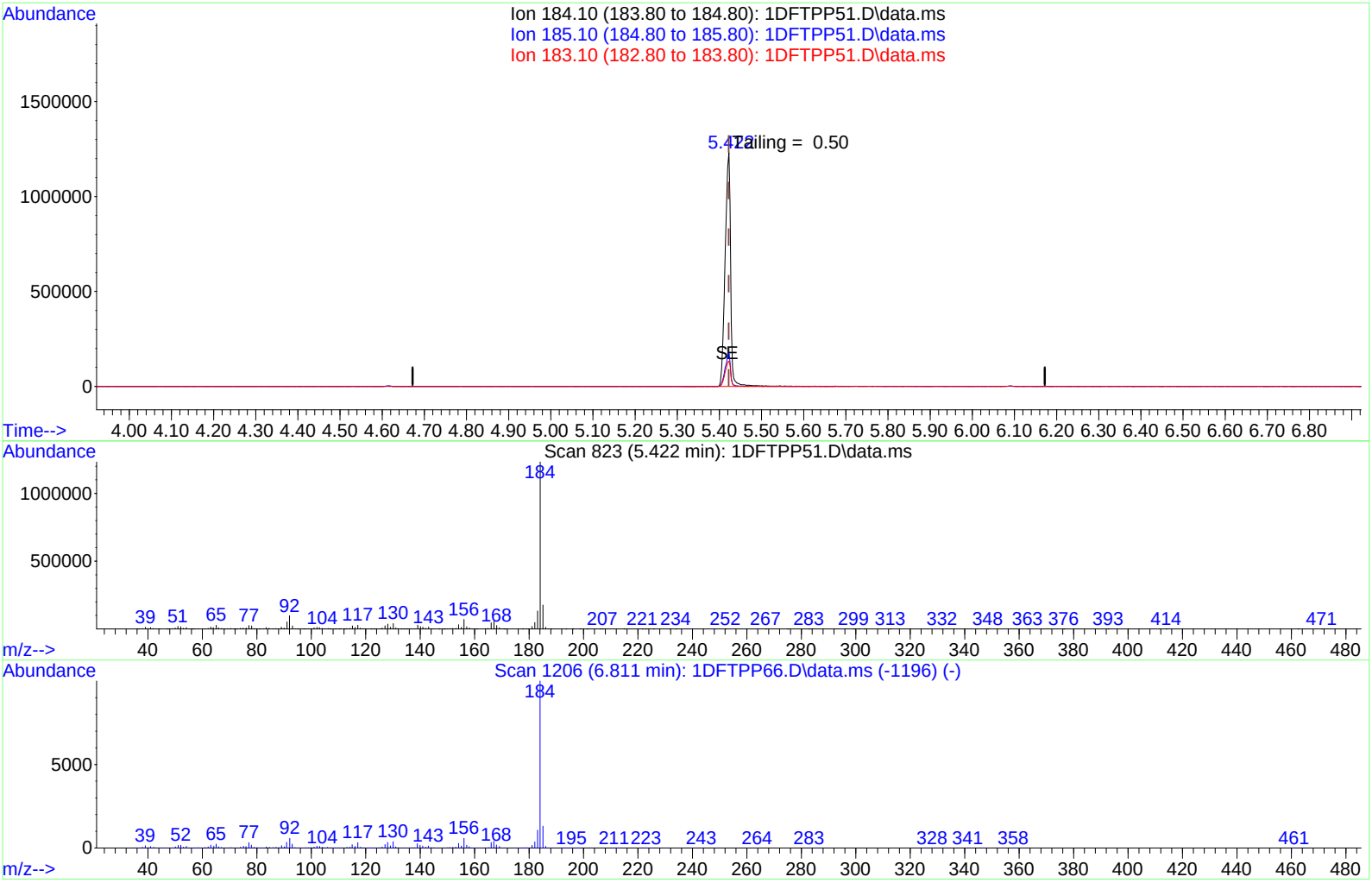
response 206302

Ion	Exp%	Act%
265.90	100	100
263.90	66.20	62.84
267.90	60.90	66.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\1S121610\1DFTPP51.D Vial: 1
Acq On : 16 Dec 2010 12:23 Operator: RPN
Sample : DFTPP TUNE SVMS4570 Inst : SVMS1
Misc : SVMS1,25 ug DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 27 12:34:29 2010

Quant Method : C:\INSTARCH\METHOD\1DFTPP.M
Quant Title : DFTPP TUNE Method
QLast Update : Mon Dec 27 12:34:26 2010
Response via : Initial Calibration
DataAcq Meth:1DFTPP.M



TIC: 1DFTPP51.D\data.ms

(3) Benzidine

5.422min (0.000) 21.95 ng

response 1100360

Ion	Exp%	Act%
184.10	100	100
185.10	13.80	13.87
183.10	12.20	10.94
0.00	0.00	0.00

Data File	: 1DFTPP51.D	Vial Number	: 1
Data File Path	: C:\INSTARCH\DATA\1S121610\	Operator	: RPN
Date Acquired	: 12/16/2010 12:23	Instrument Name:	SVMS1
Sample Name	: DFTPP TUNE SVMS4570	Sample Multiplier:	1
Misc Info	: SVMS1,25 ug DFTPP		

Quant Method	: C:\INSTARCH\METHOD\1DFTPP.M
Calibration Title	: DFTPP TUNE Method
Last Update	: Mon Dec 27 12:34:26 2010

Compound	R.T.	QIon	Response
1) Pentachlorophenol	4.16	266	206302
2) DFTPP	4.62	198	205098
3) Benzidine	5.42	184	1100360
4) DDE	5.58	246	1007
5) DDD	5.87	235	17606
6) DDT	6.09	235	531883

DDT %Degradation

$$\frac{\text{DDD + DDE}}{\text{DDD + DDE + DDT}} \times 100\% = 3.38\ \%$$

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\1S121610\1CCV47.D Vial: 2
Acq On : 16 Dec 2010 12:41 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 16 16:35:20 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Dec 16 16:35:16 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	20.000	20.000	0.0	82	0.00
2	TM	Ntrsdimeth	20.000	20.475	-2.4	80	0.00
3	TM	Pyridine	20.000	20.323	-1.6	81	0.00
4	S	SURR2Flphenol	50.000	53.029	-6.1	83	0.00
5	TM	Aniline	20.000	21.123	-5.6	84	0.00
6	TM	bis2Clethletr	20.000	19.765	1.2	81	0.00
7	S	SURRPhenol-d5	50.000	53.568	-7.1	83	0.00
8	CTM	Phenol	20.000	21.452	-7.3	83	0.00
9	TM	2-Cl-phenol	20.000	20.834	-4.2	84	0.00
10	TM	13Diclbenz	20.000	21.328	-6.6	87	0.00
11	CTM	14Diclbenz	20.000	21.297	-6.5	86	0.00
12	TM	12Diclbenz	20.000	21.703	-8.5	86	0.00
13	TM	Benzyl alcoho	20.000	21.311	-6.6	88	0.00
14	TM	bis2clispreth	20.000	19.531	2.3	78	0.00
15	TM	2Methylphenol	20.000	20.571	-2.9	81	0.00
16	TM	Ntrspyrrol	20.000	20.600	-3.0	82	0.00
17	TM	Acetophenone	20.000	20.136	-0.7	80	0.00
18	TM	Hexaclethane	20.000	21.363	-6.8	87	0.00
19	PTM	N-Ntrsdinprop	20.000	18.510	7.4	76	0.00
20	TM	3&4Methylphenol	20.000	21.339	-6.7	84	0.00
21	I	Naphthalened8	20.000	20.000	0.0	81	0.00
22	S	SURRNitrbenzened5	100.000	103.438	-3.4	80	0.00
23	TM	Nitrobenzene	20.000	20.701	-3.5	82	0.00
24	TM	Isophorone	20.000	20.141	-0.7	80	0.00
25	CTM	2-Nitrophenol	20.000	22.271	-11.4	82	0.00
26	TM	24Dimthpheno	20.000	20.927	-4.6	81	0.00
27	TM	bis2clethoxym	20.000	20.321	-1.6	79	0.00
28	CTM	24Diclphenol	20.000	21.897	-9.5	83	0.00
29	TM	124Triclbenz	20.000	21.426	-7.1	85	0.00
30	TM	Benzoic acid	20.000	20.466	-2.3	82	0.00
31	TM	Naphthalene	20.000	21.071	-5.4	84	0.00
32	TM	4-Cl-aniline	20.000	23.378	-16.9	96	0.00
33	TM	26Diclphenol	20.000	21.982	-9.9	83	0.00
34	TM	Hexaclprop	20.000	21.937	-9.7	83	0.00
35	CTM	Hexaclbutdien	20.000	20.160	-0.8	80	0.00
36	CTM	4Cl3methylphe	20.000	19.319	3.4	79	0.00
37	TM	2Methylnaphth	20.000	20.502	-2.5	81	0.00
38	TM	1Methylnaphth	20.000	20.480	-2.4	80	0.00
39	I	Acenaphthened10	20.000	20.000	0.0	78	0.00
40	PTM	Hxclcycpentdi	20.000	20.108	-0.5	78	0.00
41	TM	1245Tetrclbenz	20.000	21.525	-7.6	85	0.00
42	CTM	246Triclpheno	20.000	21.520	-7.6	83	0.00
43	TM	245Triclpheno	20.000	21.347	-6.7	80	0.00
44	S	SURR2Flbiphenyl	100.000	106.618	-6.6	84	0.00
45	TM	2Clnaphthalen	20.000	21.076	-5.4	82	0.00
46	TM	2Nitroaniline	20.000	19.773	1.1	78	0.00
47	TM	Acnaphthylene	20.000	21.015	-5.1	83	0.00
48	TM	Dimethylphtha	20.000	20.973	-4.9	81	0.00
49	TM	26Dinitrotolu	20.000	21.541	-7.7	82	0.00
50	CTM	Acenaphthene	20.000	20.687	-3.4	80	0.00
51	TM	3Nitroaniline	20.000	26.986	-34.9#	117	0.00

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\1S121610\1CCV47.D Vial: 2
Acq On : 16 Dec 2010 12:41 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 16 16:35:20 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Dec 16 16:35:16 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	PTM	24Dinitphenol	20.000	19.822	0.9	79	0.00
53	TM	Dibenzofuran	20.000	21.455	-7.3	83	0.00
54	TM	24Dinitrotolu	20.000	20.965	-4.8	81	0.00
55	PTM	4-Nitrophenol	20.000	24.242	-21.2#	91	0.00
56	TM	2,3,5,6-Tetrachlorop	20.000	23.200	-16.0	85	0.00
57	TM	2,3,4,6-Tetrachlorop	20.000	22.175	-10.9	84	0.00
58	TM	Fluorene	20.000	21.071	-5.4	81	0.00
59	TM	4Clphlphlethr	20.000	21.416	-7.1	83	0.00
60	TM	Diethylphthal	20.000	20.435	-2.2	80	0.00
61	TM	4Nitroaniline	20.000	26.254	-31.3#	107	0.00
62	S	SURR246Tribrphenl	50.000	56.330	-12.7	85	0.00
63	I	Phenanthrd10	20.000	20.000	0.0	78	0.00
64	TM	46Dinit2mylph	20.000	20.608	-3.0	84	0.00
65	CTM	Ntrsdiphlam&Diphlam	40.000	42.919	-7.3	85	0.00
66	TM	Azobenz&12Diphlhyd	40.000	41.418	-3.5	81	0.00
67	TM	4Brphlphlethr	20.000	21.133	-5.7	84	0.00
68	TM	Hexaclbenzene	20.000	21.117	-5.6	82	0.00
69	CTM	Pentaclphenol	20.000	21.907	-9.5	89	0.00
70	TM	Phenanthrene	20.000	21.019	-5.1	82	0.00
71	TM	Anthracene	20.000	20.908	-4.5	83	0.00
72	TM	Carbazole	20.000	22.951	-14.8	94	0.00
73	TM	Dinbtylphthal	20.000	21.179	-5.9	81	0.00
74	CTM	Fluoranthene	20.000	22.207	-11.0	86	0.00
75	I	Chrysene-d12	20.000	20.000	0.0	85	0.00
76	TM	Benzidine	20.000	31.271	-56.4#	199	0.00
77	TM	Pyrene	20.000	20.138	-0.7	85	0.00
78	S	SURRTerphenyl-d14	100.000	105.176	-5.2	89	0.00
79	TM	Btylbzylphth	20.000	19.991	0.0	84	0.00
80	TM	33Diclbnzidin	20.000	29.378	-46.9#	130	0.00
81	TM	B[a]anthracen	20.000	20.821	-4.1	90	0.00
82	TM	Chrysene	20.000	21.227	-6.1	90	0.00
83	TM	bis2Ethlhxlph	20.000	20.220	-1.1	86	0.00
84	CTM	Dinoctylphthl	20.000	20.529	-2.6	85	0.00
85	I	Perylene-d12	20.000	20.000	0.0	87	0.00
86	TM	B[b]fluoranth	20.000	19.789	1.1	84	0.00
87	TM	B[k]fluoranth	20.000	20.011	-0.1	85	0.00
88	CTM	Benz[a]pyrene	20.000	20.650	-3.2	90	0.00
89	TM	Indeno-pyrene	20.000	21.143	-5.7	90	0.00
90	TM	Dib[ah]anthr	20.000	21.503	-7.5	90	0.00
91	TM	B[ghi]perylen	20.000	20.973	-4.9	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\1S121610\1CCV47.D Vial: 2
Acq On : 16 Dec 2010 12:41 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 16 16:35:20 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Dec 16 16:35:16 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	1.000	1.000	0.0	82	0.00
2	TM	Ntrsdimeth	0.670	0.686	-2.4	80	0.00
3	TM	Pyridine	1.185	1.204	-1.6	81	0.00
4	S	SURR2Flphenol	0.463	0.491	-6.0	83	0.00
5	TM	Aniline	1.498	1.582	-5.6	84	0.00
6	TM	bis2Clethletr	1.019	1.007	1.2	81	0.00
7	S	SURRPhenol-d5	0.536	0.574	-7.1	83	0.00
8	CTM	Phenol	1.402	1.503	-7.2	83	0.00
9	TM	2-Cl-phenol	1.266	1.319	-4.2	84	0.00
10	TM	13Diclbenz	1.534	1.636	-6.6	87	0.00
11	CTM	14Diclbenz	1.495	1.592	-6.5	86	0.00
12	TM	12Diclbenz	1.415	1.535	-8.5	86	0.00
13	TM	Benzyl alcoho	0.615	0.717	-16.6	88	0.00
14	TM	bis2clispreth	2.044	1.996	2.3	78	0.00
15	TM	2Methylphenol	1.028	1.058	-2.9	81	0.00
16	TM	Ntrspyrrol	0.505	0.521	-3.2	82	0.00
17	TM	Acetophenone	1.437	1.447	-0.7	80	0.00
18	TM	Hexaclethane	0.511	0.546	-6.8	87	0.00
19	PTM	N-Ntrsdinprop	0.707	0.654	7.5	76	0.00
20	TM	3&4Methylphenol	1.015	1.083	-6.7	84	0.00
21	I	Naphthalened8	1.000	1.000	0.0	81	0.00
22	S	SURRNitrbenzened5	0.060	0.062	-3.3	80	0.00
23	TM	Nitrobenzene	0.284	0.294	-3.5	82	0.00
24	TM	Isophorone	0.562	0.566	-0.7	80	0.00
25	CTM	2-Nitrophenol	0.187	0.208	-11.2	82	0.00
26	TM	24Dimthpheno	0.290	0.304	-4.8	81	0.00
27	TM	bis2clethoxym	0.349	0.354	-1.4	79	0.00
28	CTM	24Diclphenol	0.310	0.340	-9.7	83	0.00
29	TM	124Triclbenz	0.383	0.410	-7.0	85	0.00
30	TM	Benzoic acid	0.191	0.212	-11.0	82	0.00
31	TM	Naphthalene	0.979	1.031	-5.3	84	0.00
32	TM	4-Cl-aniline	0.347	0.406	-17.0	96	0.00
33	TM	26Diclphenol	0.274	0.301	-9.9	83	0.00
34	TM	Hexaclprop	0.249	0.273	-9.6	83	0.00
35	CTM	Hexaclbutdien	0.260	0.262	-0.8	80	0.00
36	CTM	4Cl3methylphe	0.341	0.356	-4.4	79	0.00
37	TM	2Methylnaphth	0.728	0.746	-2.5	81	0.00
38	TM	1Methylnaphth	0.750	0.768	-2.4	80	0.00
39	I	Acenaphthened10	1.000	1.000	0.0	78	0.00
40	PTM	Hxclcycpentdi	0.334	0.369	-10.5	78	0.00
41	TM	1245Tetrclbenz	0.677	0.728	-7.5	85	0.00
42	CTM	246Triclpheno	0.410	0.441	-7.6	83	0.00
43	TM	245Triclpheno	0.453	0.484	-6.8	80	0.00
44	S	SURR2Flbiphenyl	0.276	0.294	-6.5	84	0.00
45	TM	2Clnaphthalen	1.201	1.266	-5.4	82	0.00
46	TM	2Nitroaniline	0.277	0.274	1.1	78	0.00
47	TM	Acnaphthylene	1.827	1.920	-5.1	83	0.00
48	TM	Dimethylphtha	1.343	1.408	-4.8	81	0.00
49	TM	26Dinitrotolu	0.279	0.301	-7.9	82	0.00
50	CTM	Acenaphthene	1.170	1.211	-3.5	80	0.00
51	TM	3Nitroaniline	0.225	0.304	-35.1#	117	0.00

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\1S121610\1CCV47.D Vial: 2
Acq On : 16 Dec 2010 12:41 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 16 16:35:20 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Dec 16 16:35:16 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	PTM	24Dinitphenol	0.162	0.172	-6.2	79	0.00
53	TM	Dibenzofuran	1.614	1.731	-7.2	83	0.00
54	TM	24Dinitrotolu	0.389	0.408	-4.9	81	0.00
55	PTM	4-Nitrophenol	0.109	0.132	-21.1#	91	0.00
56	TM	2,3,5,6-Tetrachlorop	0.331	0.384	-16.0	85	0.00
57	TM	2,3,4,6-Tetrachlorop	0.342	0.379	-10.8	84	0.00
58	TM	Fluorene	1.313	1.383	-5.3	81	0.00
59	TM	4Clphlphlethr	0.669	0.716	-7.0	83	0.00
60	TM	Diethylphthal	1.343	1.372	-2.2	80	0.00
61	TM	4Nitroaniline	0.222	0.291	-31.1#	107	0.00
62	S	SURR246Tribrphenl	0.059	0.067	-13.6	85	0.00
63	I	Phenanthrd10	1.000	1.000	0.0	78	0.00
64	TM	46Dinit2mylph	0.121	0.131	-8.3	84	0.00
65	CTM	Ntrsdiphlam&Diphlam	0.440	0.472	-7.3	85	0.00
66	TM	Azobenz&12Diphlhyd	0.159	0.165	-3.8	81	0.00
67	TM	4Brphlphlethr	0.212	0.224	-5.7	84	0.00
68	TM	Hexaclbenzene	0.204	0.215	-5.4	82	0.00
69	CTM	Pentaclphenol	0.122	0.143	-17.2	89	0.00
70	TM	Phenanthrene	1.013	1.064	-5.0	82	0.00
71	TM	Anthracene	1.039	1.086	-4.5	83	0.00
72	TM	Carbazole	0.810	0.930	-14.8	94	0.00
73	TM	Dinbtylphthal	1.199	1.269	-5.8	81	0.00
74	CTM	Fluoranthene	0.757	0.840	-11.0	86	0.00
75	I	Chrysene-d12	1.000	1.000	0.0	85	0.00
76	TM	Benzidine	0.173	0.267	-54.3#	199#	0.00
77	TM	Pyrene	1.351	1.360	-0.7	85	0.00
78	S	SURRTerphenyl-d14	0.149	0.157	-5.4	89	0.00
79	TM	Btylbzylphth	0.592	0.592	0.0	84	0.00
80	TM	33Diclbnzidin	0.247	0.323	-30.8#	130	0.00
81	TM	B[a]anthracen	1.170	1.218	-4.1	90	0.00
82	TM	Chrysene	1.093	1.160	-6.1	90	0.00
83	TM	bis2Ethlhxlph	0.815	0.824	-1.1	86	0.00
84	CTM	Dinoctylphthl	1.498	1.537	-2.6	85	0.00
85	I	Perylene-d12	1.000	1.000	0.0	87	0.00
86	TM	B[b]fluoranth	1.242	1.229	1.0	84	0.00
87	TM	B[k]fluoranth	1.046	1.047	-0.1	85	0.00
88	CTM	Benz[a]pyrene	1.147	1.184	-3.2	90	0.00
89	TM	Indeno-pyrene	1.132	1.197	-5.7	90	0.00
90	TM	Dib[ah]anthr	0.885	0.951	-7.5	90	0.00
91	TM	B[ghi]perylen	0.986	1.034	-4.9	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121610\1CCV47.D Vial: 2
Acq On : 16 Dec 2010 12:41 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 16 16:35:20 2010

RPN
12/16/10

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Dec 16 16:35:16 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	3.343	152	188839	20.00	ug/mL	0.00
21) Naphthalened8	4.874	136	628089	20.00	ug/mL	0.00
39) Acenaphthened10	6.770	164	429341	20.00	ug/mL	0.00
63) Phenanthrd10	7.733	188	804509	20.00	ug/mL	0.00
75) Chrysene-d12	9.154	240	503106	20.00	ug/mL	0.00
85) Perylene-d12	9.992	264	492482	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	2.320	112	231661	53.03	%REC	0.00
Spiked Amount 100.000	Range 20 - 110		Recovery = 53.03%			
7) SURRPhenol-d5	3.025	99	270883	53.57	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 53.57%			
22) SURRNitrbenzened5	3.959	82	195489	103.44	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 103.44%			
44) SURR2Flbiphenyl	6.253	172	631544	106.62	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 106.62%			
62) SURR246Tribrphenl	7.310	330	71827	56.33	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 56.33%			
78) SURRTerphenyl-d14	8.597	244	394022	105.18	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 105.18%			
Target Compounds						Qvalue
2) Ntrsdimeth	1.655	74	129470	20.4747	ug/mL	92
3) Pyridine	1.664	79	227303	20.3228	ug/mL#	72
5) Aniline	3.039	93	298818	21.1232	ug/mL#	46
6) bis2Clethletr	3.110	93	190165	19.7647	ug/mL	96
8) Phenol	3.036	94	283878	21.4521	ug/mL#	44
9) 2-Cl-phenol	3.141	128	249089	20.8337	ug/mL	99
10) 13Diclbenz	3.283	146	308944	21.3275	ug/mL	99
11) 14Diclbenz	3.360	146	300674	21.2968	ug/mL	97
12) 12Diclbenz	3.508	146	289957	21.7028	ug/mL	98
13) Benzyl alcoho	3.518	108	135344	21.3106	ug/mL	84
14) bis2clispreth	3.667	45	376979	19.5308	ug/mL	87
15) 2Methylphenol	3.647	108	199757	20.5711	ug/mL	98
16) Ntrspyrrol	3.781	100	98301	20.6005	ug/mL#	64
17) Acetophenone	3.798	105	273243	20.1364	ug/mL	91
18) Hexaclethane	3.877	117	103068	21.3635	ug/mL	83
19) N-Ntrsdinprop	3.820	70	123514	18.5103	ug/mL	85
20) 3&4Methylphenol	3.837	108	204555	21.3386	ug/mL	99
23) Nitrobenzene	3.982	77	184595	20.7009	ug/mL	71
24) Isophorone	4.300	82	355747	20.1409	ug/mL	95
25) 2-Nitrophenol	4.380	139	130498	22.2708	ug/mL	95
26) 24Dimthpheno	4.505	107	190827	20.9266	ug/mL	93
27) bis2clethoxym	4.636	93	222519	20.3209	ug/mL	91
28) 24Diclphenol	4.718	162	213370	21.8969	ug/mL	98
29) 124Triclbenz	4.815	180	257471	21.4255	ug/mL	97
30) Benzoic acid	4.721	105	133461	20.4663	ug/mL	87
31) Naphthalene	4.903	128	647582	21.0710	ug/mL	98
32) 4-Cl-aniline	5.031	127	255055	23.3776	ug/mL	96
33) 26Diclphenol	5.028	162	188909	21.9816	ug/mL	96
34) Hexaclprop	5.039	213	171669	21.9372	ug/mL	97
35) Hexaclbutdien	5.122	225	164500	20.1597	ug/mL	99
36) 4Cl3methylphe	5.778	107	223385	19.3185	ug/mL	89
37) 2Methylnaphth	5.860	141	468718	20.5022	ug/mL	97
38) 1Methylnaphth	5.960	141	482199	20.4805	ug/mL	99
40) Hxclcycpentdi	6.037	237	158340	20.1084	ug/mL	91

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121610\1CCV47.D Vial: 2
Acq On : 16 Dec 2010 12:41 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 16 16:35:20 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Dec 16 16:35:16 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

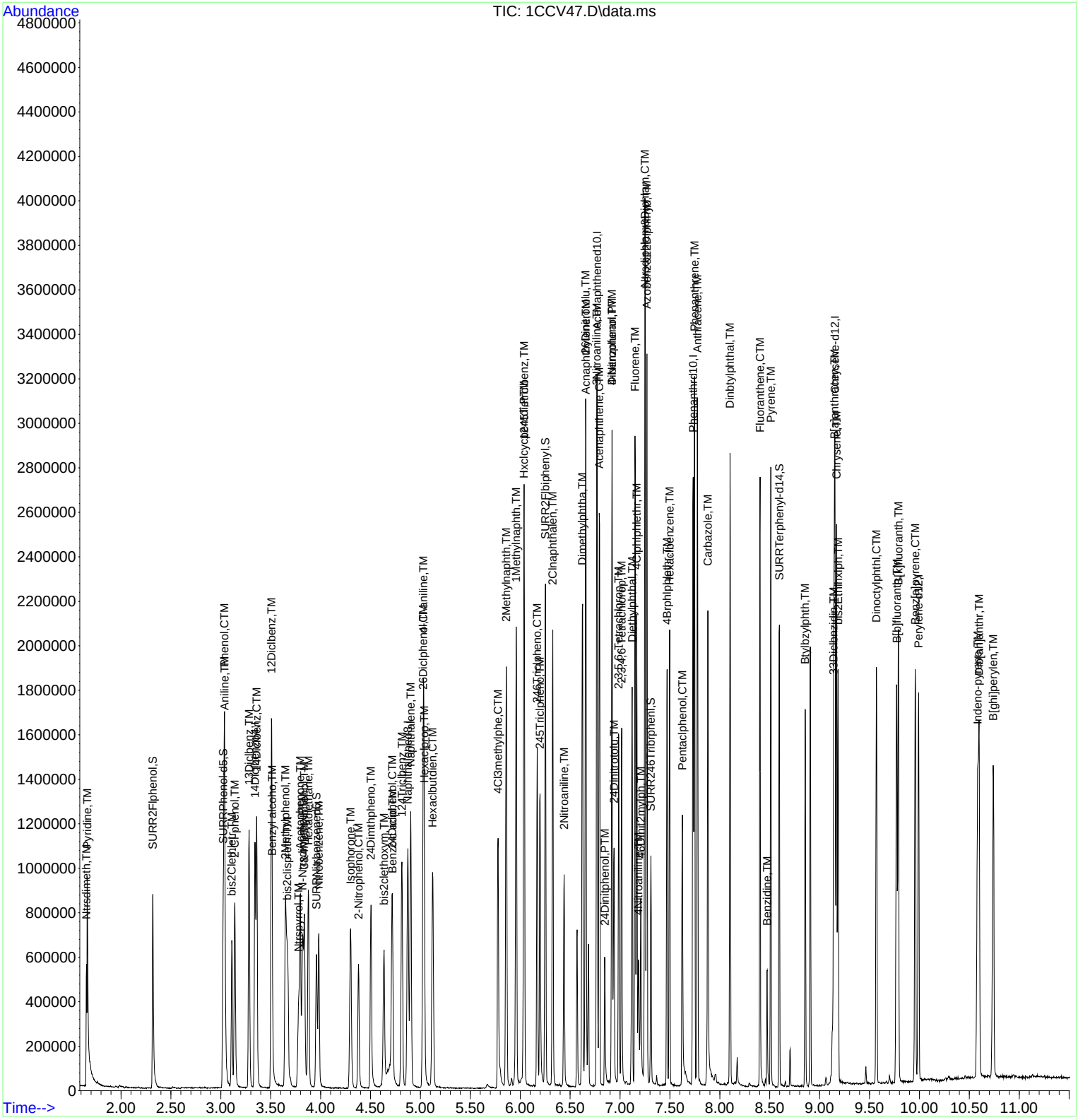
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.039	216	312606	21.5253 ug/mL	96
42) 246Triclpheno	6.170	196	189286	21.5199 ug/mL	96
43) 245Triclpheno	6.199	196	207651	21.3467 ug/mL	97
45) 2Clnaphthalen	6.326	162	543506	21.0757 ug/mL	99
46) 2Nitroaniline	6.440	65	117597	19.7732 ug/mL	84
47) Acnaphthylene	6.659	152	824125	21.0154 ug/mL	99
48) Dimethylphtha	6.622	163	604597	20.9730 ug/mL	99
49) 26Dinitrotolu	6.656	165	129143	21.5412 ug/mL	72
50) Acenaphthene	6.792	153	519793	20.6874 ug/mL	99
51) 3Nitroaniline	6.767	138	130425	26.9859 ug/mL	99
52) 24Dinitphenol	6.849	184	73748	19.8217 ug/mL#	63
53) Dibenzofuran	6.920	168	743212	21.4550 ug/mL	74
54) 24Dinitrotolu	6.940	165	174988	20.9649 ug/mL#	64
55) 4-Nitrophenol	6.920	109	56506	24.2421 ug/mL	100
56) 2,3,5,6-Tetrachlorop	6.986	232	164907	23.1997 ug/mL	98
57) 2,3,4,6-Tetrachlorop	7.017	232	162576	22.1749 ug/mL	96
58) Fluorene	7.150	166	593899	21.0710 ug/mL	100
59) 4Clphlphlethr	7.167	204	307385	21.4155 ug/mL	94
60) Diethylphthal	7.122	149	589009	20.4350 ug/mL	97
61) 4Nitroaniline	7.185	138	125034	26.2535 ug/mL	83
64) 46Dinit2mylph	7.210	198	105108	20.6085 ug/mL	73
65) Ntrsdiphlam&Diphlam	7.250	169	759999	42.9189 ug/mL	98
66) Azobenz&12Diphlhyd	7.270	182	265585	41.4175 ug/mL#	47
67) 4Brphlphlethr	7.472	248	180272	21.1326 ug/mL	97
68) Hexaclbenzene	7.497	284	173109	21.1170 ug/mL	96
69) Pentaclphenol	7.625	266	114807	21.9073 ug/mL	95
70) Phenanthrene	7.747	178	856231	21.0192 ug/mL	99
71) Anthracene	7.776	178	873873	20.9076 ug/mL	99
72) Carbazole	7.881	167	747922	22.9512 ug/mL	99
73) Dinbtylphthal	8.102	149	1021268	21.1788 ug/mL	98
74) Fluoranthene	8.404	202	676112	22.2072 ug/mL	89
76) Benzidine	8.475	184	134250	31.2712 ug/mL	98
77) Pyrene	8.511	202	684204	20.1377 ug/mL	88
79) Btylbzylphth	8.855	149	297950	19.9912 ug/mL	99
80) 33Diclbnzidin	9.139	252	162435	29.3778 ug/mL	92
81) B[a]anthracen	9.148	228	613002	20.8207 ug/mL	99
82) Chrysene	9.171	228	583676	21.2266 ug/mL	99
83) bis2Ethlhxlph	9.185	149	414486	20.2202 ug/mL	97
84) Dinoctylphthl	9.569	149	773426	20.5290 ug/mL	99
86) B[b]fluoranth	9.773	252	605247	19.7886 ug/mL	95
87) B[k]fluoranth	9.790	252	515567	20.0109 ug/mL	93
88) Benz[a]pyrene	9.958	252	583252	20.6499 ug/mL	92
89) Indeno-pyrene	10.583	276	589563	21.1434 ug/mL	76
90) Dib[ah]anthr	10.597	278	468583	21.5032 ug/mL	92
91) B[ghi]perylen	10.739	276	509153	20.9727 ug/mL	86

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121610\1CCV47.D Vial: 2
Acq On : 16 Dec 2010 12:41 Operator: RPN
Sample : CCV 20ug/ml SVMS4688 Inst : SVMS1
Misc : 1000uL+10ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 16 16:35:20 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Dec 16 16:35:16 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M



SEMI - VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL
DOCUMENTS

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\1MBS01.D Vial: 15
Acq On : 15 Dec 2010 14:18 Operator: RPN
Sample : 72515,MBS,1 Inst : SVMS1
Misc : 879025,500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 15:31:20 2010

RPN
10/15/10

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

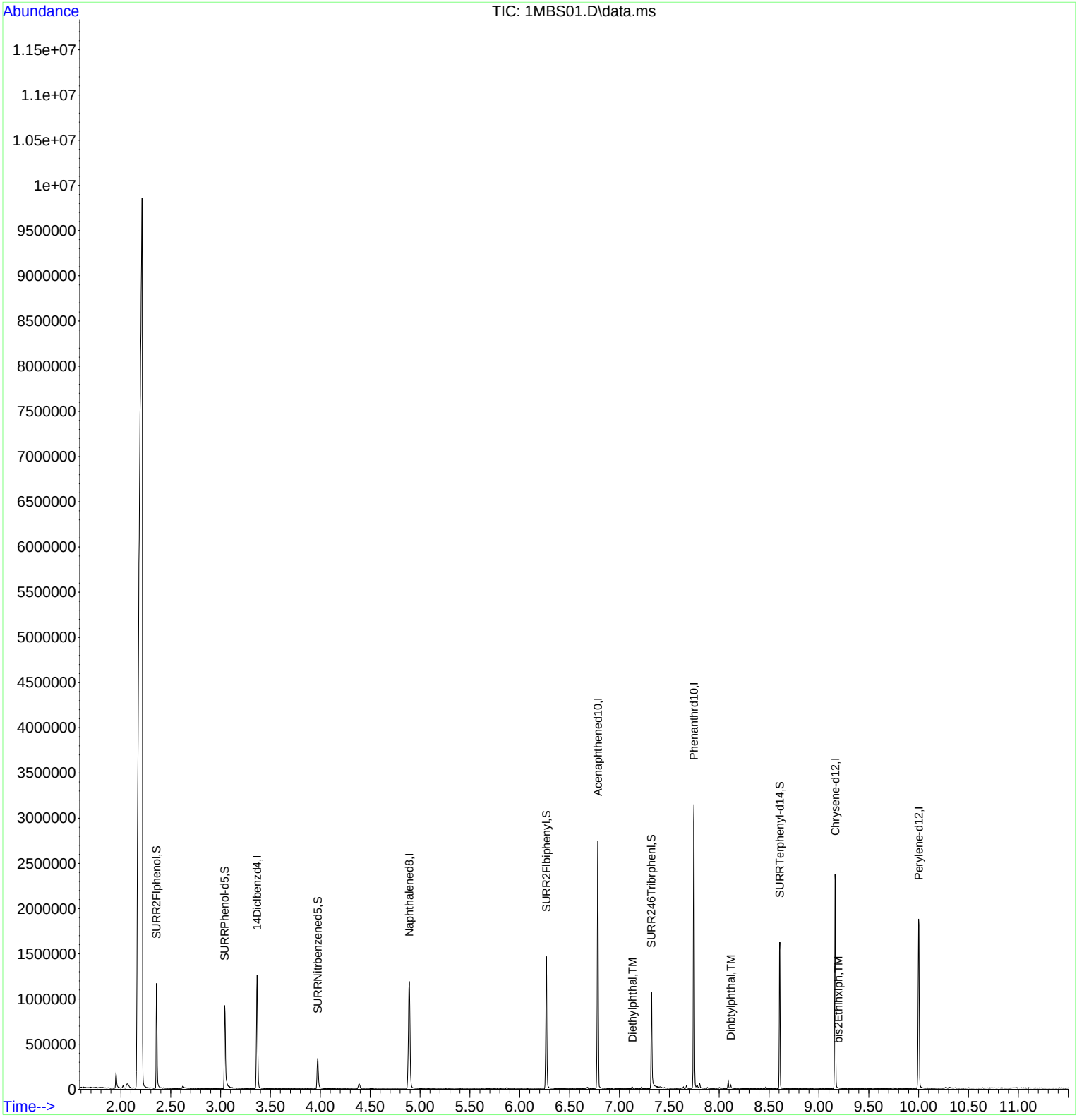
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	3.366	152	206653	20.00	ug/mL	0.00
21) Naphthalened8	4.891	136	733224	20.00	ug/mL	0.00
39) Acenaphthened10	6.784	164	514470	20.00	ug/mL	0.00
63) Phenanthrd10	7.747	188	932133	20.00	ug/mL	0.00
75) Chrysene-d12	9.165	240	599924	20.00	ug/mL	0.00
85) Perylene-d12	10.003	264	557772	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	2.357	112	230086	48.13	%REC	0.02
Spiked Amount 100.000	Range 20 - 110		Recovery = 48.13%			
7) SURRPhenol-d5	3.042	99	319127	57.67	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 57.67%			
22) SURRNitrbenzened5	3.974	82	106463	48.25	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 48.25%			
44) SUR2Flbiphenyl	6.267	172	433916	61.13	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 61.13%			
62) SURR246Tribrphenl	7.321	330	87408	57.21	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 57.21%			
78) SURRTerphenyl-d14	8.608	244	296784	66.44	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 66.44%			
Target Compounds						Qvalue
60) Diethylphthal	7.130	149	4082	0.1182	ug/mL	96
73) Dinbtylphthal	8.116	149	11373	0.2036	ug/mL	96
76) Benzidine	8.608	184	3622	Below Cal		84
83) bis2Ethlhxlph	9.196	149	1133	0.0464	ug/mL	78

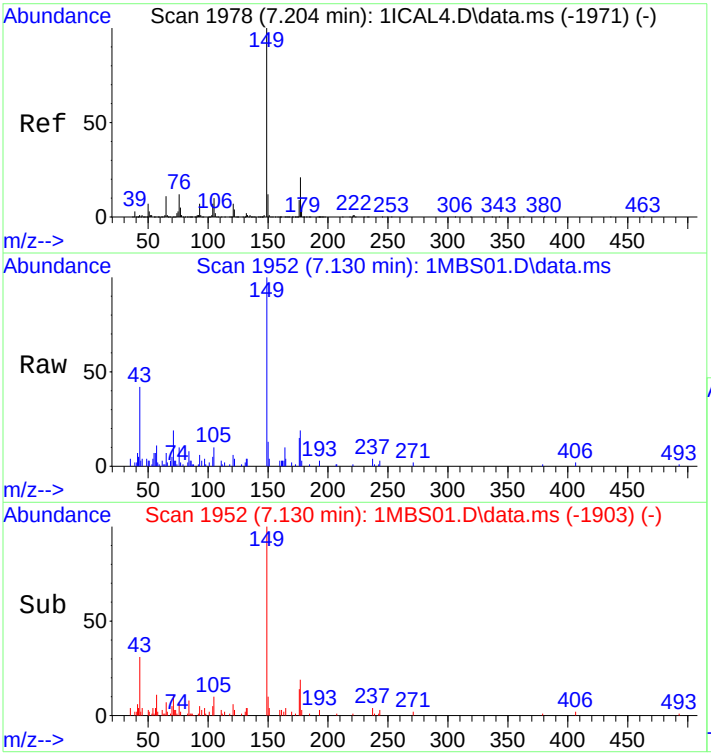
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\1MBS01.D Vial: 15
Acq On : 15 Dec 2010 14:18 Operator: RPN
Sample : 72515,MBS,1 Inst : SVMS1
Misc : 879025,500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 15:31:20 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

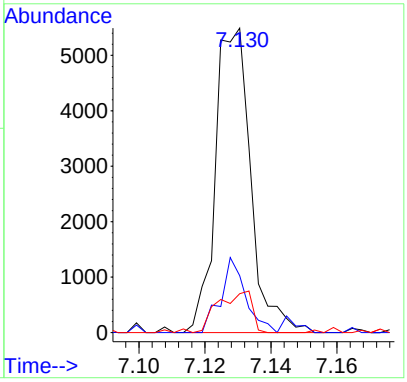


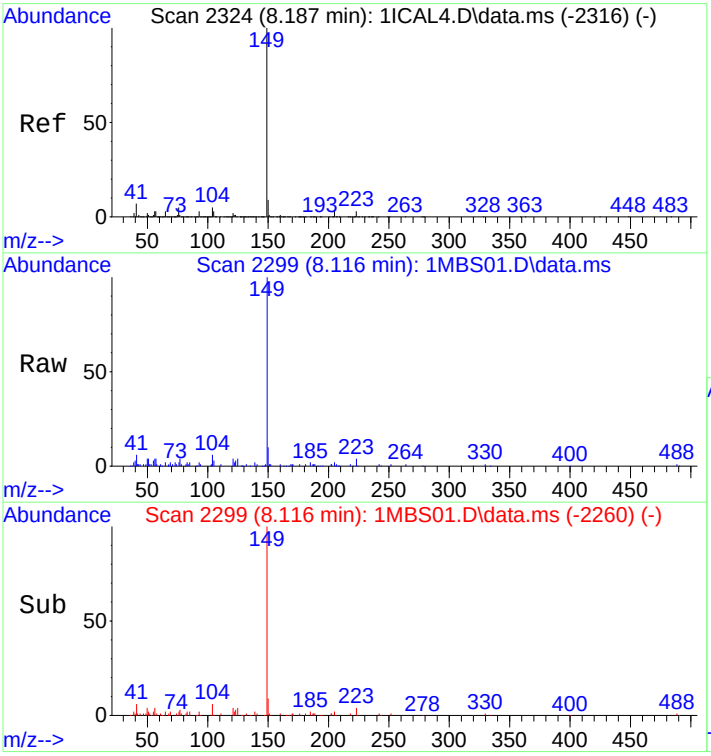


#60
Diethylphthal
Concen: 0.12 ug/mL
RT: 7.130 min Scan# 1952
Delta R.T. -0.006 min
Lab File: 1MBS01.D
Acq: 15 Dec 10 2:18 pm

Tgt Ion:149 Resp: 4082

Ion	Ratio	Lower	Upper
149	100		
177	18.7	0.0	50.8
150	12.7	0.0	41.2

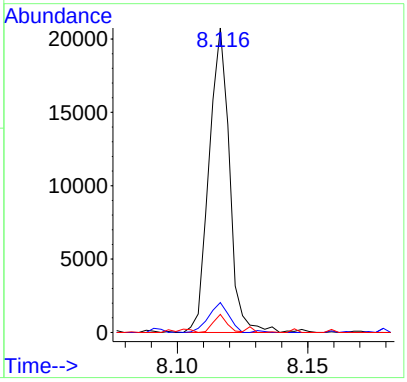


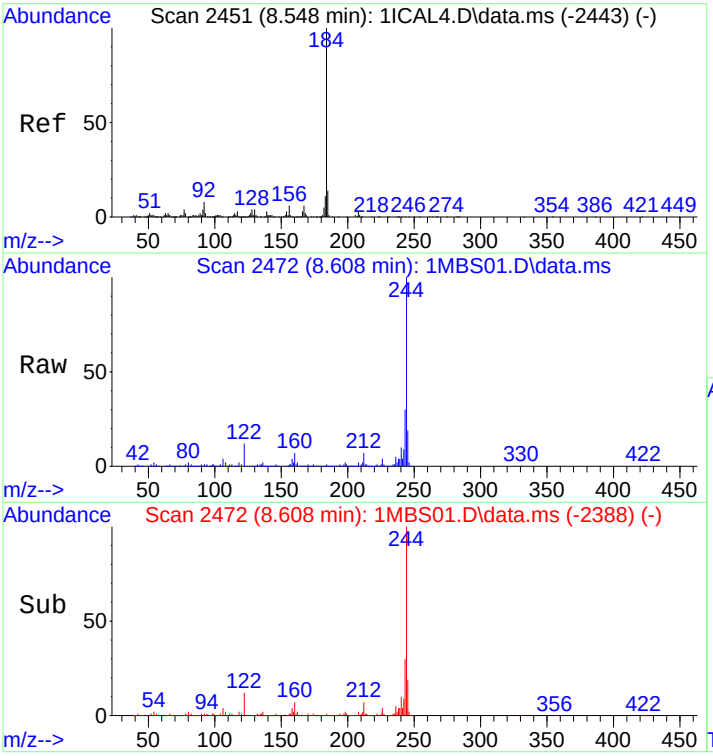


#73
Dinbtylphthal
Concen: 0.20 ug/mL
RT: 8.116 min Scan# 2299
Delta R.T. -0.003 min
Lab File: 1MBS01.D
Acq: 15 Dec 10 2:18 pm

Tgt Ion:149 Resp: 11373

Ion	Ratio	Lower	Upper
149	100		
150	9.8	0.0	38.9
104	5.9	0.0	32.6

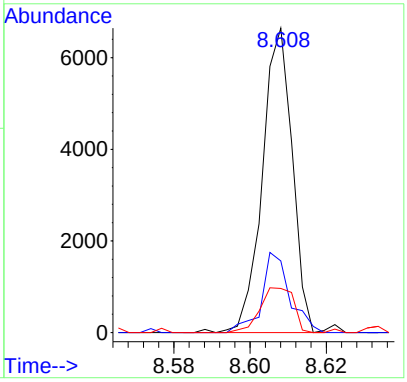


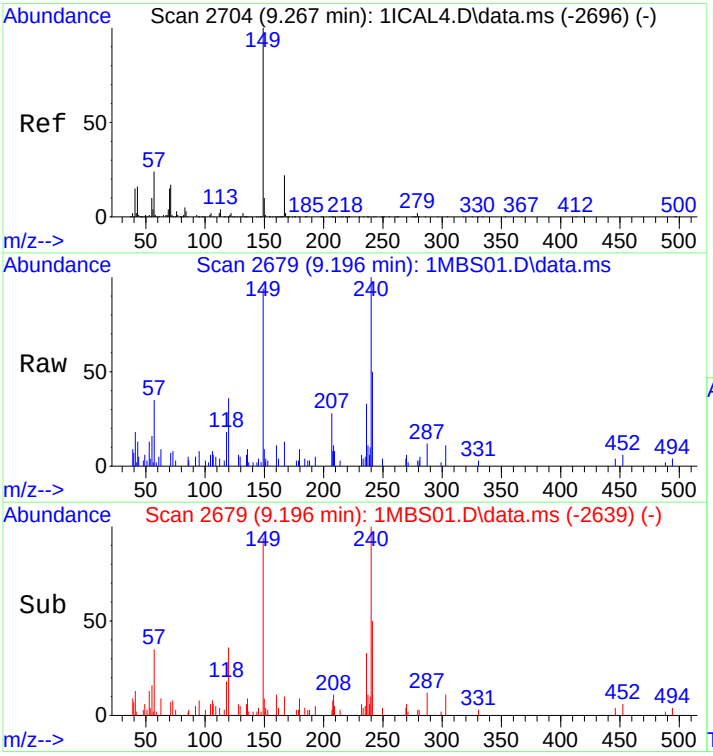


#76
Benzidine
Concen: Below ug/mL
RT: 8.608 min Scan# 2472
Delta R.T. 0.123 min
Lab File: 1MBS01.D
Acq: 15 Dec 10 2:18 pm

Tgt Ion:184 Resp: 3622

Ion	Ratio	Lower	Upper
184	100		
185	23.5	0.0	45.6
183	14.5	0.0	40.2

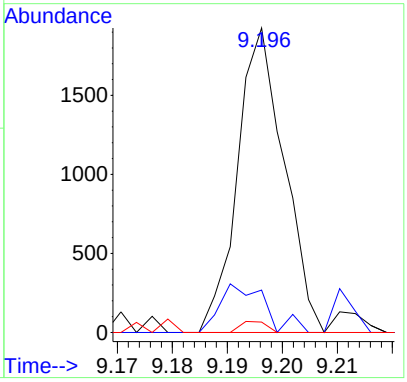




#83
bis2Ethlhxlph
Concen: 0.05 ug/mL
RT: 9.196 min Scan# 2679
Delta R.T. -0.000 min
Lab File: 1MBS01.D
Acq: 15 Dec 10 2:18 pm

Tgt Ion:149 Resp: 1133

Ion	Ratio	Lower	Upper
149	100		
167	13.9	0.0	56.4
279	3.4	0.0	32.7



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\1LCSS01.D Vial: 16
Acq On : 15 Dec 2010 14:37 Operator: RPN
Sample : 72515,LCSS,1 Inst : SVMS1
Misc : 879026,500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 15:32:46 2010

RPN 10/15/10

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	3.366	152	211263	20.00	ug/mL	0.00
21) Naphthalened8	4.894	136	732492	20.00	ug/mL	0.00
39) Acenaphthened10	6.790	164	496390	20.00	ug/mL	0.00
63) Phenanthrd10	7.753	188	926044	20.00	ug/mL	0.00
75) Chrysene-d12	9.168	240	555787	20.00	ug/mL	0.00
85) Perylene-d12	10.000	264	528740	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	2.360	112	276035	56.48	%REC	0.02
Spiked Amount 100.000	Range 20 - 110		Recovery = 56.48%			
7) SURRPhenol-d5	3.047	99	365367	64.58	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 64.58%			
22) SURRNitrbenzened5	3.979	82	131446	59.64	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 59.64%			
44) SURR2Flbiphenyl	6.270	172	463426	67.67	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 67.67%			
62) SURR246Tribrphenl	7.329	330	110012	74.62	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 74.62%			
78) SURRTerphenyl-d14	8.608	244	322836	78.01	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 78.01%			
Target Compounds						Qvalue
2) Ntrsdimeth	1.701	74	71253	10.0721	ug/mL	99
3) Pyridine	1.715	79	102885	8.2224	ug/mL	80
5) Aniline	3.062	93	117079	7.3978	ug/mL#	8
6) bis2Clethletr	3.133	93	124779	11.5923	ug/mL	94
8) Phenol	3.059	94	180969	12.2239	ug/mL	62
9) 2-Cl-phenol	3.167	128	163174	12.1992	ug/mL	93
10) 13Diclbenz	3.306	146	183269	11.3088	ug/mL	100
11) 14Diclbenz	3.383	146	183354	11.6085	ug/mL	100
12) 12Diclbenz	3.530	146	179573	12.0141	ug/mL	99
13) Benzyl alcoho	3.554	108	62562	8.9303	ug/mL	90
14) bis2clispreth	3.684	45	250805	11.6147	ug/mL	89
15) 2Methylphenol	3.670	108	143230	13.1843	ug/mL	94
16) Ntrspyrrol	3.795	100	68925	12.9111	ug/mL#	66
17) Acetophenone	3.815	105	189407	12.4766	ug/mL	92
18) Hexaclethane	3.900	117	60661	11.2390	ug/mL#	69
19) N-Ntrsdinprop	3.837	70	91295	12.2296	ug/mL	90
20) 3&4Methylphenol	3.857	108	137636	12.8338	ug/mL	99
23) Nitrobenzene	4.002	77	127051	12.2170	ug/mL	71
24) Isophorone	4.315	82	250400	12.1560	ug/mL	93
25) 2-Nitrophenol	4.400	139	85120	12.4561	ug/mL	87
26) 24Dimthpheno	4.525	107	124510	11.7080	ug/mL	89
27) bis2clethoxym	4.653	93	161624	12.6561	ug/mL	93
28) 24Diclphenol	4.738	162	149811	13.1829	ug/mL	98
29) 124Triclbenz	4.835	180	179426	12.8029	ug/mL	97
30) Benzoic acid	4.661	105	14715	4.2823	ug/mL	82
31) Naphthalene	4.923	128	452316	12.6198	ug/mL	98
32) 4-Cl-aniline	5.051	127	98585	7.7481	ug/mL	99
33) 26Diclphenol	5.048	162	128271	12.7983	ug/mL	96
34) Hexaclprop	5.059	213	114754	12.5741	ug/mL	97
35) Hexaclbutdien	5.147	225	111222	11.6877	ug/mL	96
36) 4Cl3methylphe	5.804	107	163545	12.2043	ug/mL	89
37) 2Methylnaphth	5.880	141	330884	12.4103	ug/mL	98
38) 1Methylnaphth	5.980	141	352905	12.8526	ug/mL	94
40) Hxclcycpentdi	6.056	237	107676	11.8751	ug/mL	91

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\1LCSS01.D Vial: 16
Acq On : 15 Dec 2010 14:37 Operator: RPN
Sample : 72515,LCSS,1 Inst : SVMS1
Misc : 879026,500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 15:32:46 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

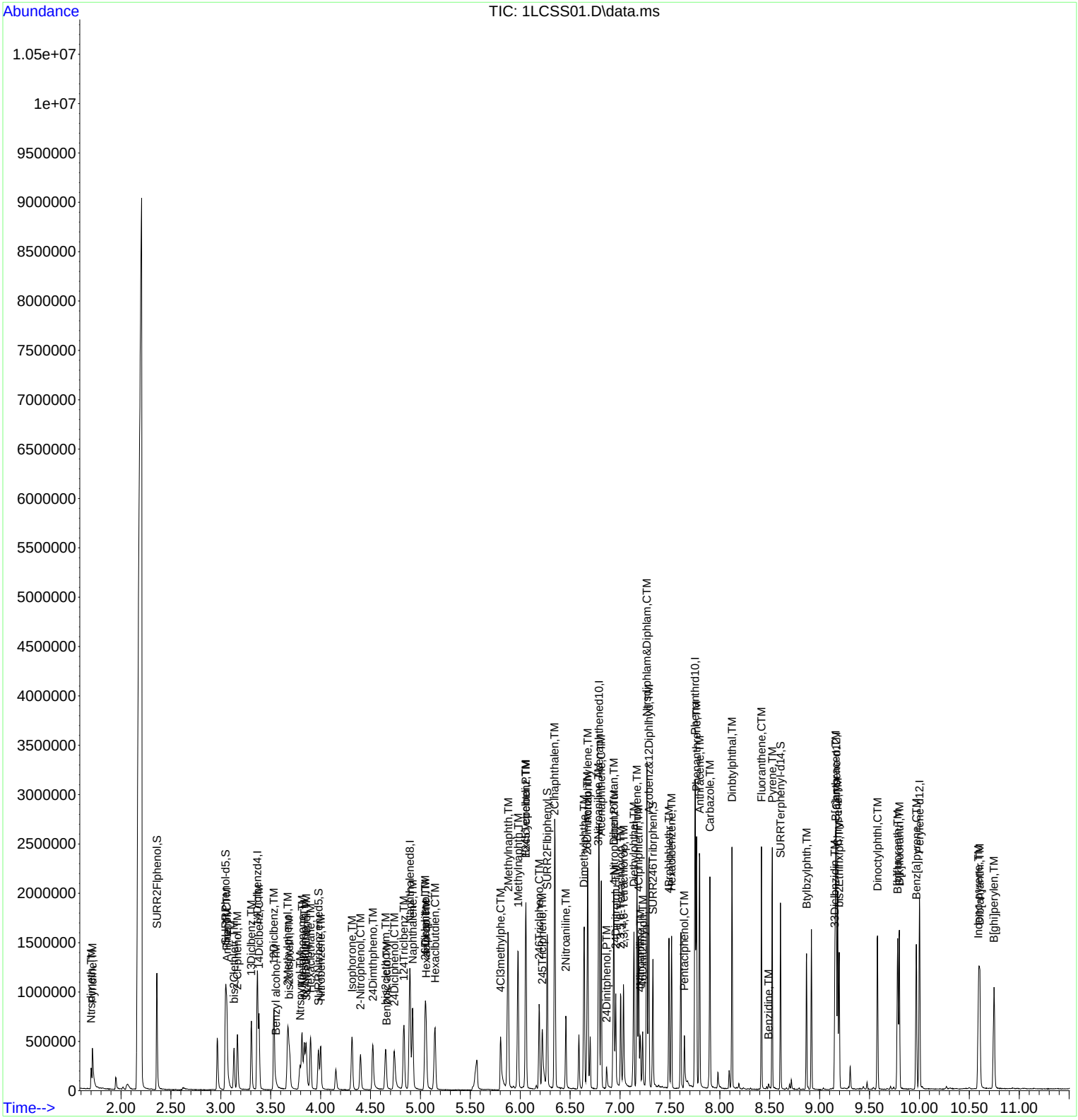
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.056	216	237690	14.1561 ug/mL	97
42) 246Triclpheno	6.190	196	133002	13.0785 ug/mL	96
43) 245Triclpheno	6.221	196	159169	14.1526 ug/mL	94
45) 2Clnaphthalen	6.343	162	384991	12.9124 ug/mL	96
46) 2Nitroaniline	6.457	65	89796	13.0592 ug/mL#	75
47) Acnaphthylene	6.676	152	627253	13.8346 ug/mL	99
48) Dimethylphtha	6.639	163	500893	15.0286 ug/mL	99
49) 26Dinitrotolu	6.673	165	109692	15.8253 ug/mL	76
50) Acenaphthene	6.812	153	388989	13.3904 ug/mL	99
51) 3Nitroaniline	6.784	138	70853	12.6798 ug/mL	93
52) 24Dinitphenol	6.866	184	37557	10.4079 ug/mL#	61
53) Dibenzofuran	6.937	168	558376	13.9419 ug/mL	89
54) 24Dinitrotolu	6.957	165	145101	15.0361 ug/mL#	59
55) 4-Nitrophenol	6.940	109	25502	9.4630 ug/mL#	72
56) 2,3,5,6-Tetrachlorop	7.006	232	111227	13.5342 ug/mL	99
57) 2,3,4,6-Tetrachlorop	7.037	232	122582	14.4615 ug/mL	96
58) Fluorene	7.170	166	466660	14.3203 ug/mL	97
59) 4Clphlphlethr	7.187	204	240477	14.4910 ug/mL	94
60) Diethylphthal	7.139	149	494490	14.8385 ug/mL	98
61) 4Nitroaniline	7.204	138	92683	16.8321 ug/mL	86
64) 46Dinit2mylph	7.227	198	69470	12.3561 ug/mL#	64
65) Ntrsdiphlam&Diphlam	7.270	169	644800	31.6344 ug/mL	98
66) Azobenz&12Diphlhyd	7.290	182	217678	29.4913 ug/mL#	47
67) 4Brphlphlethr	7.491	248	146067	14.8756 ug/mL#	78
68) Hexaclbenzene	7.517	284	137758	14.5992 ug/mL	92
69) Pentaclphenol	7.645	266	70030	12.3365 ug/mL	93
70) Phenanthrene	7.767	178	698841	14.9040 ug/mL	99
71) Anthracene	7.798	178	715001	14.8614 ug/mL	99
72) Carbazole	7.901	167	641024	17.0892 ug/mL	100
73) Dinbtylphthal	8.122	149	844186	15.2089 ug/mL	98
74) Fluoranthene	8.418	202	559545	15.9665 ug/mL	90
76) Benzidine	8.489	184	11804	3.7650 ug/mL	87
77) Pyrene	8.526	202	560564	14.9348 ug/mL	88
79) Btylbzylphth	8.870	149	242692	14.7402 ug/mL	96
80) 33Diclbnzidin	9.151	252	111878	18.7621 ug/mL	95
81) B[a]anthracen	9.159	228	496348	15.2606 ug/mL	99
82) Chrysene	9.182	228	456604	15.0314 ug/mL	97
83) bis2Ethlhxlph	9.196	149	327888	14.4794 ug/mL	96
84) Dinoctylphthl	9.580	149	613547	14.7417 ug/mL	99
86) B[b]fluoranth	9.782	252	484743	14.7619 ug/mL	94
87) B[k]fluoranth	9.799	252	419271	15.1574 ug/mL	92
88) Benz[a]pyrene	9.969	252	453386	14.9513 ug/mL	90
89) Indeno-pyrene	10.591	276	433009	14.4640 ug/mL	72
90) Dib[ah]anthr	10.606	278	344169	14.7108 ug/mL	90
91) B[ghi]perylen	10.748	276	374285	14.3601 ug/mL	86

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\1LCSS01.D Vial: 16
Acq On : 15 Dec 2010 14:37 Operator: RPN
Sample : 72515,LCSS,1 Inst : SVMS1
Misc : 879026,500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 15 15:32:46 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Wed Dec 15 08:45:37 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\877687MS.D Vial: 20
Acq On : 15 Dec 2010 16:28 Operator: RPN
Sample : 72515,MSS877687,1 Inst : SVMS1
Misc : 879023,500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 16 12:19:26 2010

RPN 10/15/10

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Dec 16 12:15:21 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	3.371	152	218382	20.00	ug/mL	0.00
21) Naphthalened8	4.894	136	752041	20.00	ug/mL	0.00
39) Acenaphthened10	6.784	164	512771	20.00	ug/mL	0.00
63) Phenanthrd10	7.747	188	934422	20.00	ug/mL	0.00
75) Chrysene-d12	9.168	240	589306	20.00	ug/mL	0.00
85) Perylene-d12	10.006	264	561066	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	2.377	112	192695	38.14	%REC	0.04
Spiked Amount 100.000	Range 20 - 110		Recovery = 38.14%			
7) SURRPhenol-d5	3.050	99	229311	39.21	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 39.21%			
22) SURRNitrbenzened5	3.979	82	93900	41.50	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 41.50%			
44) SURR2Flbiphenyl	6.267	172	322145	45.54	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 45.54%#			
62) SURR246Tribrphenl	7.326	330	66134	43.43	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 43.43%			
78) SURRTerphenyl-d14	8.608	244	201068	45.82	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 45.82%#			
Target Compounds						Qvalue
2) Ntrsdimeth	1.703	74	47704	6.5235	ug/mL	91
3) Pyridine	1.720	79	39711	3.0702	ug/mL#	69
5) Aniline	3.070	93	43098	2.6344	ug/mL#	1
6) bis2Clethletr	3.135	93	91123	8.1896	ug/mL	88
8) Phenol	3.061	94	117235	7.6607	ug/mL	74
9) 2-Cl-phenol	3.172	128	115527	8.3555	ug/mL	99
10) 13Diclbenz	3.309	146	145019	8.6569	ug/mL	99
11) 14Diclbenz	3.385	146	144984	8.8800	ug/mL	91
12) 12Diclbenz	3.536	146	139940	9.0573	ug/mL	94
13) Benzyl alcoho	3.673	108	86706	11.8542	ug/mL#	33
14) bis2clispreth	3.684	45	195295	8.7492	ug/mL	87
15) 2Methylphenol	3.672	108	94339	8.4008	ug/mL	91
16) Ntrspyrrol	3.792	100	43064	7.8038	ug/mL#	66
17) Acetophenone	3.814	105	137639	8.7710	ug/mL	92
18) Hexaclethane	3.900	117	48370	8.6696	ug/mL	83
19) N-Ntrsdinprop	3.834	70	64314	8.3345	ug/mL	79
20) 3&4Methylphenol	3.857	108	100107	9.0302	ug/mL	91
23) Nitrobenzene	4.002	77	91524	8.5720	ug/mL	73
24) Isophorone	4.314	82	176249	8.3338	ug/mL	91
25) 2-Nitrophenol	4.403	139	57442	8.1873	ug/mL	93
26) 24Dimthpheno	4.525	107	90830	8.3189	ug/mL	91
27) bis2clethoxym	4.653	93	113827	8.6816	ug/mL	97
28) 24Diclphenol	4.735	162	98420	8.4355	ug/mL	94
29) 124Triclbenz	4.834	180	132160	9.1851	ug/mL	96
30) Benzoic acid	4.525	105	2457	2.9028	ug/mL#	1
31) Naphthalene	4.923	128	332125	9.0255	ug/mL	98
32) 4-Cl-aniline	5.050	127	54106	4.1418	ug/mL	97
33) 26Diclphenol	5.048	162	88628	8.6130	ug/mL	95
34) Hexaclprop	5.059	213	81163	8.6622	ug/mL	95
35) Hexaclbutdien	5.147	225	90391	9.2517	ug/mL	98
36) 4Cl3methylphe	5.803	107	105294	7.7849	ug/mL	90
37) 2Methylnaphth	5.877	141	241792	8.8330	ug/mL	95
38) 1Methylnaphth	5.974	141	250389	8.8820	ug/mL	95
40) Hxclcycpentdi	6.051	237	61795	6.7734	ug/mL	96

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\877687MS.D Vial: 20
Acq On : 15 Dec 2010 16:28 Operator: RPN
Sample : 72515,MSS877687,1 Inst : SVMS1
Misc : 879023,500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 16 12:19:26 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Dec 16 12:15:21 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

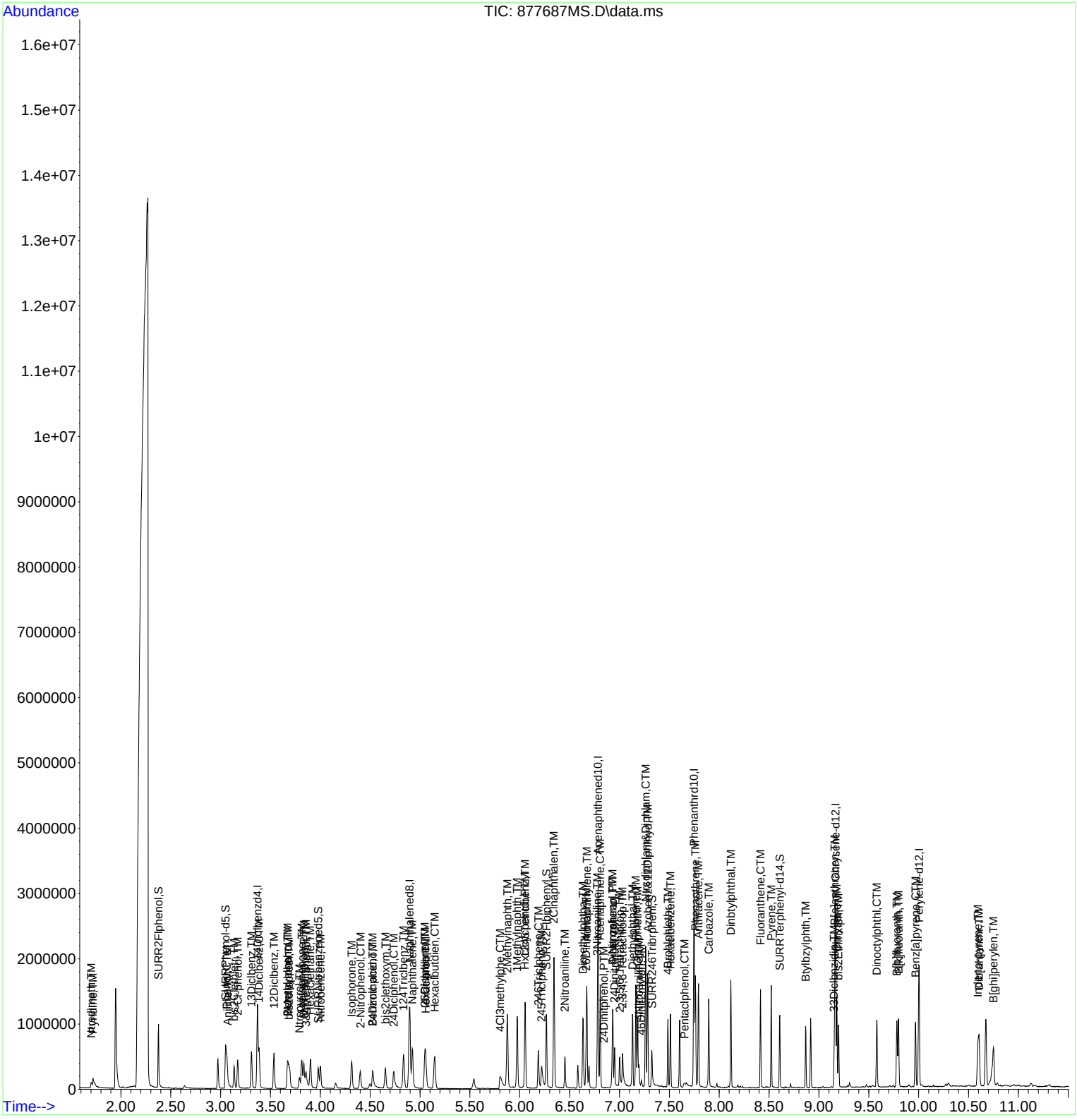
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.053	216	168766	9.7301 ug/mL	97
42) 246Triclpheno	6.187	196	85041	8.0952 ug/mL	94
43) 245Triclpheno	6.218	196	103351	8.8959 ug/mL	96
45) 2Clnaphthalen	6.340	162	281027	9.1244 ug/mL	98
46) 2Nitroaniline	6.451	65	58720	8.2670 ug/mL	84
47) Acnaphthylene	6.673	152	442543	9.4488 ug/mL	99
48) Dimethylphtha	6.633	163	317048	9.2087 ug/mL	100
49) 26Dinitrotolu	6.667	165	68868	9.6182 ug/mL	81
50) Acenaphthene	6.806	153	275778	9.1900 ug/mL	97
51) 3Nitroaniline	6.778	138	40839	7.0751 ug/mL	94
52) 24Dinitphenol	6.843	184	86	2.9005 ug/mL#	18
53) Dibenzofuran	6.931	168	387464	9.3654 ug/mL	89
54) 24Dinitrotolu	6.951	165	90521	9.0806 ug/mL#	65
55) 4-Nitrophenol	6.931	109	1356	0.4871 ug/mL#	74
56) 2,3,5,6-Tetrachlorop	7.002	232	57680	6.7943 ug/mL	98
57) 2,3,4,6-Tetrachlorop	7.031	232	71140	8.1245 ug/mL	98
58) Fluorene	7.164	166	322239	9.5726 ug/mL	96
59) 4Clphlphlethr	7.181	204	166494	9.7123 ug/mL	94
60) Diethylphthal	7.130	149	322138	9.3578 ug/mL	99
61) 4Nitroaniline	7.196	138	56669	9.9629 ug/mL	80
64) 46Dinit2mylph	7.218	198	9966	3.0137 ug/mL	72
65) Ntrsdiphlam&Diphlam	7.264	169	417661	20.3071 ug/mL	99
66) Azobenz&12Diphlhyd	7.284	182	148271	19.9079 ug/mL#	44
67) 4Brphlphlethr	7.486	248	96211	9.7104 ug/mL#	78
68) Hexaclbenzene	7.511	284	93108	9.7789 ug/mL	92
69) Pentaclphenol	7.653	266	32839	6.7049 ug/mL	79
70) Phenanthrene	7.761	178	456871	9.6562 ug/mL	98
71) Anthracene	7.792	178	464418	9.5665 ug/mL	99
72) Carbazole	7.895	167	415226	10.9704 ug/mL	99
73) Dinbtylphthal	8.116	149	560002	9.9986 ug/mL	99
74) Fluoranthene	8.415	202	372352	10.5297 ug/mL	87
76) Benzidine	8.605	184	2667	Below Cal	94
77) Pyrene	8.523	202	366250	9.2028 ug/mL	88
79) Btylbzylphth	8.866	149	159901	9.1594 ug/mL	99
80) 33Diclbnzidin	9.151	252	37482	5.7049 ug/mL	96
81) B[a]anthracen	9.159	228	315685	9.1539 ug/mL	97
82) Chrysene	9.179	228	291983	9.0653 ug/mL	99
83) bis2Ethlhxlph	9.196	149	223707	9.3169 ug/mL	98
84) Dinoctylphthl	9.580	149	413538	9.3709 ug/mL	98
86) B[b]fluoranth	9.781	252	313663	9.0017 ug/mL	95
87) B[k]fluoranth	9.798	252	285574	9.7292 ug/mL	94
88) Benz[a]pyrene	9.969	252	286345	8.8987 ug/mL	91
89) Indeno-pyrene	10.594	276	268979	8.4672 ug/mL	74
90) Dib[ah]anthr	10.605	278	219170	8.8282 ug/mL	93
91) B[ghi]perylen	10.750	276	208961	7.5552 ug/mL	85

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\877687MS.D Vial: 20
Acq On : 15 Dec 2010 16:28 Operator: RPN
Sample : 72515,MSS877687,1 Inst : SVMS1
Misc : 879023,500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 16 12:19:26 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Dec 16 12:15:21 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121610\877687SR.D Vial: 6
Acq On : 16 Dec 2010 13:56 Operator: RPN
Sample : 72515,MSS877687,1 Inst : SVMS1
Misc : 879023,500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 27 12:43:33 2010

RPN 12/27/10

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Dec 16 16:35:39 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	3.346	152	213803	20.00	ug/mL	0.00
21) Naphthalened8	4.871	136	731580	20.00	ug/mL	0.00
39) Acenaphthened10	6.767	164	505254	20.00	ug/mL	0.00
63) Phenanthrd10	7.730	188	925295	20.00	ug/mL	0.00
75) Chrysene-d12	9.153	240	573724	20.00	ug/mL	0.00
85) Perylene-d12	9.992	264	538070	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	2.360	112	189911	38.40	%REC	0.04
Spiked Amount 100.000	Range 20 - 110		Recovery = 38.40%			
7) SURRPhenol-d5	3.030	99	241279	42.14	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 42.14%			
22) SURRNitrbenzened5	3.956	82	93080	42.28	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 42.28%			
44) SURR2Flbiphenyl	6.250	172	310550	44.55	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 44.55%#			
62) SURR246Tribrphenl	7.307	330	71179	47.43	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 47.43%			
78) SURRTerphenyl-d14	8.594	244	198112	46.37	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 46.37%#			
Target Compounds						Qvalue
2) Ntrsdimeth	1.695	74	46301	6.4672	ug/mL	89
3) Pyridine	1.709	79	39338	3.1065	ug/mL	89
5) Aniline	3.044	93	42697	2.6658	ug/mL#	1
6) bis2Clethletr	3.113	93	88949	8.1654	ug/mL	99
8) Phenol	3.042	94	123411	8.2370	ug/mL	71
9) 2-Cl-phenol	3.150	128	117231	8.6603	ug/mL	99
10) 13Diclbenz	3.286	146	145070	8.8454	ug/mL	95
11) 14Diclbenz	3.363	146	143186	8.9577	ug/mL	100
12) 12Diclbenz	3.510	146	137807	9.1103	ug/mL	97
13) Benzyl alcoho	3.546	108	48376	6.9222	ug/mL#	78
14) bis2clispreth	3.664	45	182987	8.3734	ug/mL	86
15) 2Methylphenol	3.650	108	93851	8.5363	ug/mL	98
16) Ntrspyrrol	3.766	100	47610	8.8124	ug/mL#	61
17) Acetophenone	3.789	105	138615	9.0224	ug/mL	93
18) Hexaclethane	3.874	117	47525	8.7006	ug/mL	77
19) N-Ntrsdinprop	3.812	70	64515	8.5396	ug/mL	83
20) 3&4Methylphenol	3.834	108	96330	8.8756	ug/mL	90
23) Nitrobenzene	3.976	77	93183	8.9715	ug/mL	69
24) Isophorone	4.292	82	174526	8.4831	ug/mL	89
25) 2-Nitrophenol	4.377	139	62895	9.2153	ug/mL	86
26) 24Dimthpheno	4.499	107	80066	7.5382	ug/mL	94
27) bis2clethoxym	4.627	93	113983	8.9367	ug/mL	93
28) 24Diclphenol	4.712	162	103049	9.0793	ug/mL	96
29) 124Triclbenz	4.809	180	130233	9.3043	ug/mL	99
30) Benzoic acid	0.000		0	N.D. d		
31) Naphthalene	4.897	128	327697	9.1542	ug/mL	100
32) 4-Cl-aniline	5.025	127	51357	4.0413	ug/mL	95
33) 26Diclphenol	5.022	162	91583	9.1491	ug/mL	96
34) Hexaclprop	5.031	213	86496	9.4895	ug/mL	95
35) Hexaclbutdien	5.121	225	83412	8.7762	ug/mL	92
36) 4Cl3methylphe	5.778	107	111616	8.4488	ug/mL	86
37) 2Methylnaphth	5.857	141	238325	8.9499	ug/mL	96
38) 1Methylnaphth	5.957	141	251584	9.1740	ug/mL	98
40) Hxclcycpentdi	6.034	237	71196	7.8452	ug/mL	93

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121610\877687SR.D Vial: 6
Acq On : 16 Dec 2010 13:56 Operator: RPN
Sample : 72515,MSS877687,1 Inst : SVMS1
Misc : 879023,500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 27 12:43:33 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Dec 16 16:35:39 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

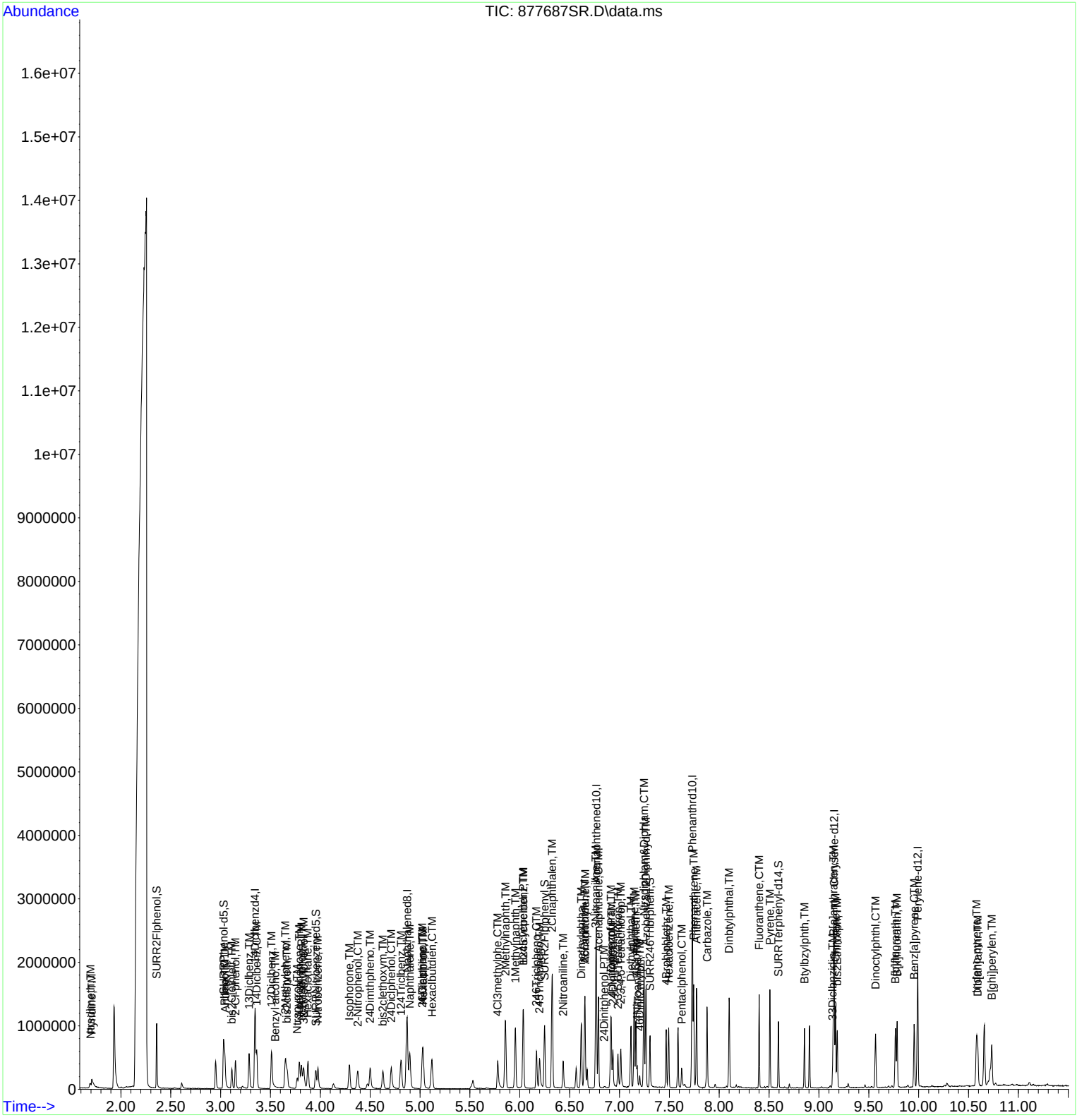
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.036	216	164902	9.6487 ug/mL	97
42) 246Triclpheno	6.167	196	90440	8.7373 ug/mL	96
43) 245Triclpheno	6.198	196	98240	8.5818 ug/mL	96
45) 2Clnaphthalen	6.323	162	276645	9.1158 ug/mL	96
46) 2Nitroaniline	6.434	65	57008	8.1453 ug/mL#	73
47) Acnaphthylene	6.656	152	439232	9.5177 ug/mL	99
48) Dimethylphtha	6.616	163	307928	9.0769 ug/mL	98
49) 26Dinitrotolu	6.650	165	68706	9.7384 ug/mL	70
50) Acenaphthene	6.789	153	273475	9.2488 ug/mL	99
51) 3Nitroaniline	6.761	138	38679	6.8005 ug/mL	96
52) 24Dinitphenol	6.846	184	4909	3.8557 ug/mL#	55
53) Dibenzofuran	6.914	168	391487	9.6034 ug/mL	90
54) 24Dinitrotolu	6.934	165	92481	9.4152 ug/mL#	65
55) 4-Nitrophenol	6.920	109	18741	6.8322 ug/mL	82
56) 2,3,5,6-Tetrachlorop	6.985	232	64203	7.6752 ug/mL	96
57) 2,3,4,6-Tetrachlorop	7.014	232	77627	8.9973 ug/mL	95
58) Fluorene	7.147	166	318760	9.6101 ug/mL	98
59) 4Clphlphlethr	7.164	204	165283	9.7851 ug/mL	95
60) Diethylphthal	7.116	149	312268	9.2060 ug/mL	99
61) 4Nitroaniline	7.179	138	54327	9.6932 ug/mL	79
64) 46Dinit2mylph	7.204	198	24619	5.3083 ug/mL	73
65) Ntrsdiphlam&Diphlam	7.247	169	412192	20.2389 ug/mL	96
66) Azobenz&12Diphlhyd	7.267	182	150108	20.3533 ug/mL#	40
67) 4Brphlphlethr	7.468	248	95951	9.7797 ug/mL	96
68) Hexaclbenzene	7.494	284	92310	9.7907 ug/mL	94
69) Pentaclphenol	7.625	266	37262	7.4124 ug/mL	97
70) Phenanthrene	7.744	178	448788	9.5790 ug/mL	99
71) Anthracene	7.773	178	460360	9.5764 ug/mL	99
72) Carbazole	7.878	167	410300	10.9471 ug/mL	99
73) Dinbtylphthal	8.099	149	549646	9.9105 ug/mL	99
74) Fluoranthene	8.400	202	349823	9.9902 ug/mL	90
76) Benzidine	8.594	184	2283	Below Cal	87
77) Pyrene	8.508	202	366418	9.4571 ug/mL	90
79) Btylbzylphth	8.855	149	154504	9.0906 ug/mL	98
80) 33Diclbnzidin	9.136	252	28923	4.3852 ug/mL	99
81) B[a]anthracen	9.145	228	311343	9.2732 ug/mL	98
82) Chrysene	9.168	228	289469	9.2314 ug/mL	98
83) bis2Ethlhxlph	9.185	149	208352	8.9131 ug/mL	98
84) Dinoctylphthl	9.568	149	370509	8.6239 ug/mL	99
86) B[b]fluoranth	9.767	252	290116	8.6817 ug/mL	95
87) B[k]fluoranth	9.784	252	265026	9.4150 ug/mL	94
88) Benz[a]pyrene	9.955	252	270313	8.7595 ug/mL	91
89) Indeno-pyrene	10.580	276	263282	8.6421 ug/mL	73
90) Dib[ah]anthr	10.591	278	218085	9.1600 ug/mL	91
91) B[ghi]perylen	10.733	276	204135	7.6962 ug/mL	84

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121610\877687SR.D Vial: 6
Acq On : 16 Dec 2010 13:56 Operator: RPN
Sample : 72515,MSS877687,1 Inst : SVMS1
Misc : 879023,500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 27 12:43:33 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Dec 16 16:35:39 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\877687SD.D Vial: 21
Acq On : 15 Dec 2010 16:47 Operator: RPN
Sample : 72515,MSDS877687,1 Inst : SVMS1
Misc : 879024,500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 16 12:22:58 2010

RPN
10/15/10

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Dec 16 12:15:21 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	3.366	152	214924	20.00	ug/mL	0.00
21) Naphthalened8	4.894	136	736573	20.00	ug/mL	0.00
39) Acenaphthened10	6.792	164	516316	20.00	ug/mL	0.00
63) Phenanthrd10	7.753	188	962207	20.00	ug/mL	0.00
75) Chrysene-d12	9.165	240	583182	20.00	ug/mL	0.00
85) Perylene-d12	10.003	264	579335	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	2.365	112	267013	53.70	%REC	0.03
Spiked Amount 100.000	Range 20 - 110		Recovery = 53.70%			
7) SURRPhenol-d5	3.050	99	375756	65.29	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 65.29%			
22) SURRNitrbenzened5	3.979	82	143355	64.68	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 64.68%			
44) SURR2Flbiphenyl	6.272	172	493813	69.32	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 69.32%			
62) SURR246Tribrphenl	7.332	330	105437	68.76	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 68.76%			
78) SURRTerphenyl-d14	8.608	244	333395	76.77	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 76.77%			
Target Compounds						Qvalue
2) Ntrsdimeth	1.701	74	85243	11.8444	ug/mL	94
3) Pyridine	1.715	79	94848	7.4510	ug/mL	78
5) Aniline	3.064	93	32892	2.0429	ug/mL#	1
6) bis2Clethletr	3.133	93	134589	12.2907	ug/mL	93
8) Phenol	3.062	94	176010	11.6864	ug/mL	78
9) 2-Cl-phenol	3.170	128	174271	12.8069	ug/mL	99
10) 13Diclbenz	3.309	146	209904	12.7318	ug/mL	99
11) 14Diclbenz	3.386	146	207506	12.9139	ug/mL	96
12) 12Diclbenz	3.533	146	210762	13.8606	ug/mL	99
13) Benzyl alcoho	3.591	108	11098	1.9597	ug/mL	78
14) bis2clispreth	3.687	45	276588	12.5905	ug/mL	80
15) 2Methylphenol	3.673	108	133926	12.1179	ug/mL	99
16) Ntrspyrrol	3.798	100	72956	13.4334	ug/mL#	61
17) Acetophenone	3.815	105	211592	13.7006	ug/mL	88
18) Hexaclethane	3.900	117	68705	12.5125	ug/mL	80
19) N-Ntrsdinprop	3.837	70	98281	12.9412	ug/mL	79
20) 3&4Methylphenol	3.857	108	146155	13.3961	ug/mL	98
23) Nitrobenzene	4.002	77	139861	13.3743	ug/mL	74
24) Isophorone	4.315	82	271543	13.1094	ug/mL	93
25) 2-Nitrophenol	4.400	139	95387	13.8812	ug/mL	92
26) 24Dimthpheno	4.531	107	85048	7.9529	ug/mL	95
27) bis2clethoxym	4.653	93	171706	13.3711	ug/mL	95
28) 24Diclphenol	4.738	162	154531	13.5229	ug/mL	99
29) 124Triclbenz	4.838	180	193352	13.7201	ug/mL	91
30) Benzoic acid	4.664	105	26475	5.5875	ug/mL#	69
31) Naphthalene	4.923	128	491231	13.6296	ug/mL	99
32) 4-Cl-aniline	5.053	127	73752	5.7643	ug/mL	93
33) 26Diclphenol	5.048	162	132725	13.1693	ug/mL	96
34) Hexaclprop	5.059	213	117099	12.7599	ug/mL	94
35) Hexaclbutdien	5.147	225	129657	13.5494	ug/mL	97
36) 4Cl3methylphe	5.809	107	175263	12.9873	ug/mL	86
37) 2Methylnaphth	5.880	141	364457	13.5938	ug/mL	99
38) 1Methylnaphth	5.980	141	386314	13.9914	ug/mL	94
40) Hxclcycpentdi	6.056	237	82501	8.8406	ug/mL	88

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\877687SD.D Vial: 21
Acq On : 15 Dec 2010 16:47 Operator: RPN
Sample : 72515,MSDS877687,1 Inst : SVMS1
Misc : 879024,500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 16 12:22:58 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Dec 16 12:15:21 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

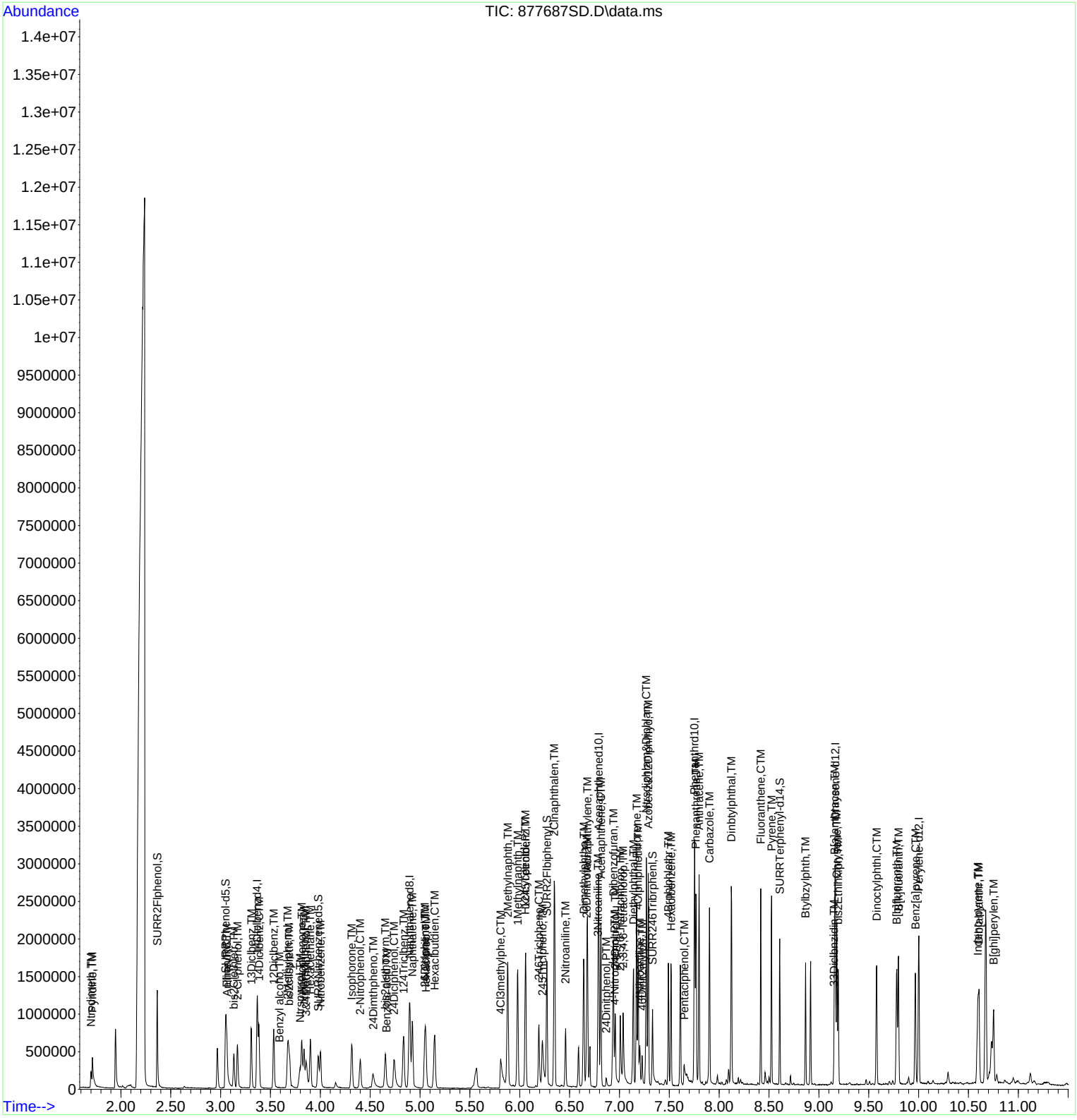
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.059	216	257696	14.7552 ug/mL	96
42) 246Triclpheno	6.193	196	129030	12.1983 ug/mL	96
43) 245Triclpheno	6.227	196	196005	16.7553 ug/mL	98
45) 2Clnaphthalen	6.346	162	421210	13.5820 ug/mL	98
46) 2Nitroaniline	6.460	65	92043	12.8694 ug/mL#	76
47) Acnaphthylene	6.679	152	680494	14.4296 ug/mL	99
48) Dimethylphtha	6.642	163	532114	15.3492 ug/mL	99
49) 26Dinitrotolu	6.673	165	114066	15.8213 ug/mL	75
50) Acenaphthene	6.815	153	432804	14.3237 ug/mL	98
51) 3Nitroaniline	6.784	138	66423	11.4283 ug/mL	87
52) 24Dinitphenol	6.866	184	18255	6.4125 ug/mL#	64
53) Dibenzofuran	6.940	168	605139	14.5264 ug/mL	92
54) 24Dinitrotolu	6.957	165	150627	15.0063 ug/mL	68
55) 4-Nitrophenol	6.952	109	57165	20.3935 ug/mL	97
56) 2,3,5,6-Tetrachlorop	7.008	232	109977	12.8657 ug/mL	98
57) 2,3,4,6-Tetrachlorop	7.037	232	137849	15.6349 ug/mL	95
58) Fluorene	7.173	166	514320	15.1738 ug/mL	100
59) 4Clphlphlethr	7.187	204	260201	15.0745 ug/mL	95
60) Diethylphthal	7.142	149	523351	15.0985 ug/mL	99
61) 4Nitroaniline	7.204	138	93738	16.3667 ug/mL	83
64) 46Dinit2mylph	7.227	198	47330	8.5809 ug/mL#	69
65) Ntrsdiphlam&Diphlam	7.270	169	614586	29.0189 ug/mL	98
66) Azobenz&12Diphlhyd	7.290	182	240033	31.2978 ug/mL#	54
67) 4Brphlphlethr	7.491	248	157145	15.4024 ug/mL#	82
68) Hexaclbenzene	7.520	284	149028	15.2000 ug/mL	92
69) Pentaclphenol	7.651	266	80060	13.4030 ug/mL	90
70) Phenanthrene	7.767	178	752642	15.4482 ug/mL	99
71) Anthracene	7.798	178	763889	15.2809 ug/mL	99
72) Carbazole	7.903	167	703135	18.0406 ug/mL	98
73) Dinbtylphthal	8.122	149	903533	15.6663 ug/mL	99
74) Fluoranthene	8.418	202	587165	16.1249 ug/mL	90
76) Benzidine	8.605	184	4834	Below Cal	86
77) Pyrene	8.526	202	595438	15.1187 ug/mL	89
79) Btylbzylphth	8.867	149	260419	15.0738 ug/mL	98
80) 33Diclbnzidin	9.151	252	19854	2.7286 ug/mL	83
81) B[a]anthracen	9.159	228	517579	15.1658 ug/mL	97
82) Chrysene	9.179	228	475927	14.9315 ug/mL	96
83) bis2Ethlhxlph	9.193	149	355496	14.9611 ug/mL	96
84) Dinoctylphthl	9.580	149	664042	15.2055 ug/mL	99
86) B[b]fluoranth	9.782	252	540228	15.0148 ug/mL	95
87) B[k]fluoranth	9.799	252	447205	14.7553 ug/mL	95
88) Benz[a]pyrene	9.969	252	470963	14.1746 ug/mL	91
89) Indeno-pyrene	10.594	276	441812	13.4692 ug/mL	71
90) Dib[ah]anthr	10.606	278	354369	13.8240 ug/mL	92
91) B[ghi]perylen	10.753	276	358646	12.5584 ug/mL	86

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121510\877687SD.D Vial: 21
Acq On : 15 Dec 2010 16:47 Operator: RPN
Sample : 72515,MSDS877687,1 Inst : SVMS1
Misc : 879024,500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 16 12:22:58 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Dec 16 12:15:21 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121610\877687DR.D Vial: 7
Acq On : 16 Dec 2010 14:14 Operator: RPN
Sample : 72515,MSDS877687,1 Inst : SVMS1
Misc : 879024,500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 27 12:46:42 2010

RPN
12/27/10

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Dec 16 16:35:39 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	3.346	152	216543	20.00	ug/mL	0.00
21) Naphthalened8	4.872	136	741121	20.00	ug/mL	0.00
39) Acenaphthened10	6.767	164	524349	20.00	ug/mL	0.00
63) Phenanthrd10	7.730	188	972446	20.00	ug/mL	0.00
75) Chrysene-d12	9.154	240	624497	20.00	ug/mL	0.00
85) Perylene-d12	9.992	264	602302	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	2.346	112	270243	53.95	%REC	0.03
Spiked Amount 100.000	Range 20 - 110		Recovery = 53.95%			
7) SURRPhenol-d5	3.030	99	381807	65.84	%REC	0.00
Spiked Amount 100.000	Range 10 - 115		Recovery = 65.84%			
22) SURRNitrbenzened5	3.957	82	144556	64.82	%REC	0.00
Spiked Amount 100.000	Range 40 - 110		Recovery = 64.82%			
44) SURR2Flbiphenyl	6.250	172	497757	68.81	%REC	0.00
Spiked Amount 100.000	Range 50 - 110		Recovery = 68.81%			
62) SURR246Tribrphenl	7.310	330	108542	69.70	%REC	0.00
Spiked Amount 100.000	Range 40 - 125		Recovery = 69.70%			
78) SURRTerphenyl-d14	8.594	244	356197	76.60	%REC	0.00
Spiked Amount 100.000	Range 50 - 135		Recovery = 76.60%			
Target Compounds						Qvalue
2) Ntrsdimeth	1.684	74	94010	12.9649	ug/mL	82
3) Pyridine	1.701	79	92879	7.2418	ug/mL	79
5) Aniline	3.042	93	36062	2.2231	ug/mL#	1
6) bis2Clethletr	3.113	93	138093	12.5164	ug/mL	97
8) Phenol	3.042	94	192636	12.6947	ug/mL	78
9) 2-Cl-phenol	3.147	128	184832	13.4814	ug/mL	99
10) 13Diclbenz	3.283	146	210956	12.6999	ug/mL	95
11) 14Diclbenz	3.363	146	215226	13.2942	ug/mL	100
12) 12Diclbenz	3.511	146	212175	13.8492	ug/mL	98
13) Benzyl alcoho	3.540	108	93758	12.9024	ug/mL	87
14) bis2clispreth	3.667	45	275808	12.4611	ug/mL	87
15) 2Methylphenol	3.653	108	136446	12.2536	ug/mL	96
16) Ntrspyrrol	3.775	100	77876	14.2321	ug/mL#	67
17) Acetophenone	3.792	105	216074	13.8862	ug/mL	91
18) Hexaclethane	3.877	117	68931	12.4598	ug/mL#	71
19) N-Ntrsdinprop	3.817	70	99707	13.0308	ug/mL	86
20) 3&4Methylphenol	3.835	108	145007	13.1915	ug/mL	96
23) Nitrobenzene	3.979	77	144273	13.7116	ug/mL	72
24) Isophorone	4.298	82	279274	13.3999	ug/mL	92
25) 2-Nitrophenol	4.380	139	98127	14.1923	ug/mL	88
26) 24Dimthpheno	4.502	107	79512	7.3896	ug/mL	96
27) bis2clethoxym	4.630	93	173138	13.3999	ug/mL	92
28) 24Diclphenol	4.713	162	166865	14.5126	ug/mL	99
29) 124Triclbenz	4.809	180	200892	14.1676	ug/mL	94
30) Benzoic acid	4.659	105	33312	6.3310	ug/mL	86
31) Naphthalene	4.900	128	506866	13.9771	ug/mL	98
32) 4-Cl-aniline	5.028	127	83085	6.4539	ug/mL	93
33) 26Diclphenol	5.025	162	141332	13.9373	ug/mL	99
34) Hexaclprop	5.034	213	129820	14.0593	ug/mL	98
35) Hexaclbutdien	5.119	225	125890	13.0750	ug/mL	95
36) 4Cl3methylphe	5.784	107	174039	12.8211	ug/mL	88
37) 2Methylnaphth	5.860	141	369742	13.7063	ug/mL	97
38) 1Methylnaphth	5.957	141	382218	13.7581	ug/mL	93
40) Hxclcycpentdi	6.034	237	95216	9.9947	ug/mL	92

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121610\877687DR.D Vial: 7
Acq On : 16 Dec 2010 14:14 Operator: RPN
Sample : 72515,MSDS877687,1 Inst : SVMS1
Misc : 879024,500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 27 12:46:42 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Dec 16 16:35:39 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M

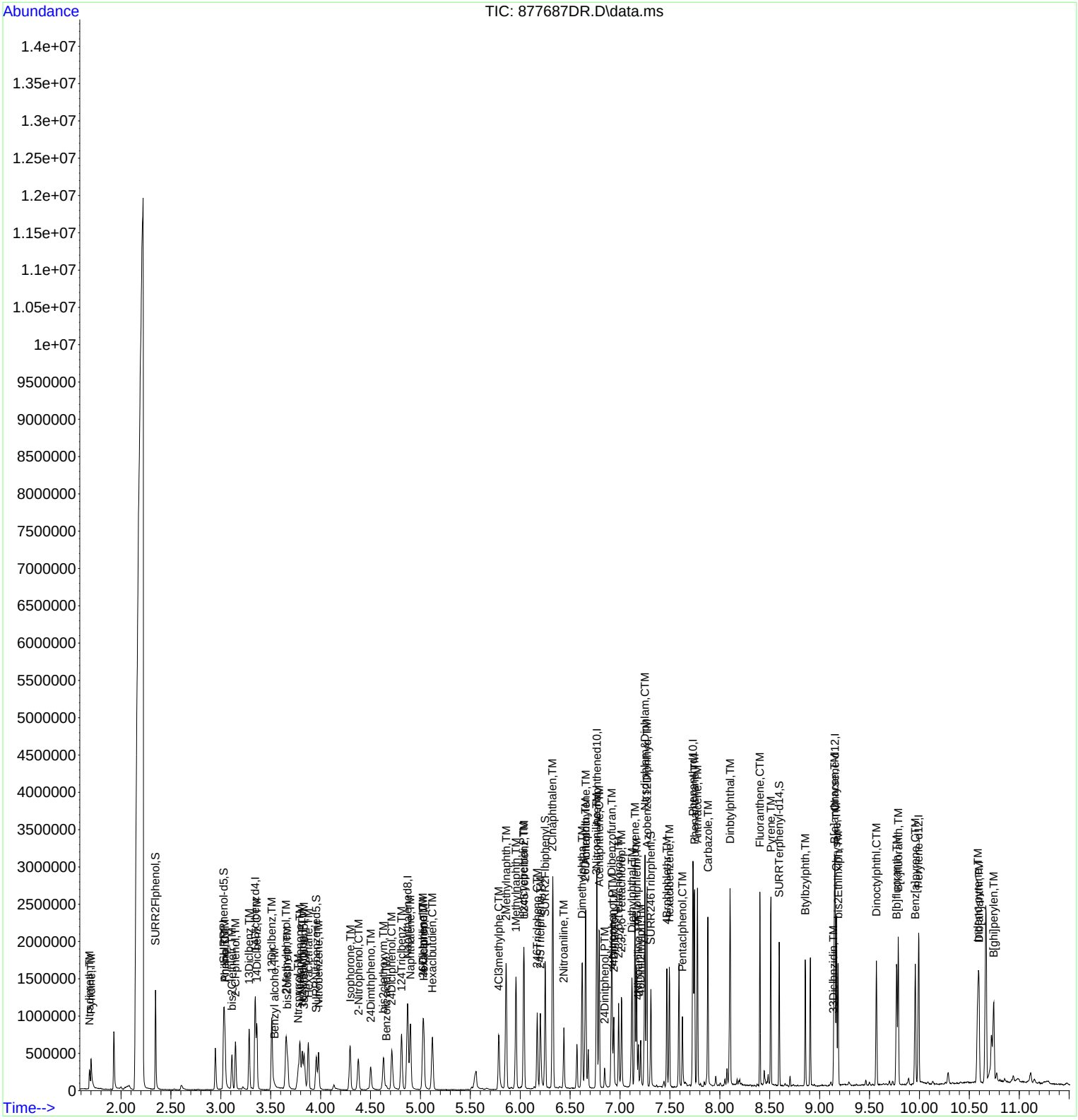
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	6.039	216	262399	14.7944 ug/mL	94
42) 246Triclpheno	6.170	196	148068	13.7837 ug/mL	99
43) 245Triclpheno	6.201	196	173757	14.6259 ug/mL	99
45) 2Clnaphthalen	6.324	162	429993	13.6528 ug/mL	97
46) 2Nitroaniline	6.437	65	98997	13.6297 ug/mL#	76
47) Acnaphthylene	6.656	152	684772	14.2979 ug/mL	99
48) Dimethylphtha	6.619	163	527424	14.9808 ug/mL	99
49) 26Dinitrotolu	6.653	165	108718	14.8485 ug/mL	70
50) Acenaphthene	6.792	153	432726	14.1017 ug/mL	99
51) 3Nitroaniline	6.764	138	62759	10.6325 ug/mL	88
52) 24Dinitphenol	6.846	184	37912	10.0762 ug/mL#	60
53) Dibenzofuran	6.917	168	621805	14.6978 ug/mL	81
54) 24Dinitrotolu	6.937	165	154094	15.1166 ug/mL	68
55) 4-Nitrophenol	6.923	109	47326	16.6248 ug/mL	85
56) 2,3,5,6-Tetrachlorop	6.986	232	126854	14.6127 ug/mL	98
57) 2,3,4,6-Tetrachlorop	7.014	232	139257	15.5527 ug/mL	93
58) Fluorene	7.150	166	520053	15.1079 ug/mL	98
59) 4Clphlphlethr	7.168	204	263198	15.0145 ug/mL	91
60) Diethylphthal	7.119	149	511633	14.5343 ug/mL	96
61) 4Nitroaniline	7.185	138	96980	16.6734 ug/mL	85
64) 46Dinit2mylph	7.207	198	81275	13.6150 ug/mL#	72
65) Ntrsdiphlam&Diphlam	7.250	169	621154	29.0202 ug/mL	98
66) Azobenz&12Diphlhyd	7.270	182	238206	30.7326 ug/mL#	44
67) 4Brphlphlethr	7.469	248	159412	15.4600 ug/mL	96
68) Hexaclbenzene	7.494	284	149462	15.0838 ug/mL	92
69) Pentaclphenol	7.625	266	88527	14.5085 ug/mL	95
70) Phenanthrene	7.747	178	754066	15.3144 ug/mL	99
71) Anthracene	7.776	178	762521	15.0929 ug/mL	99
72) Carbazole	7.881	167	709981	18.0244 ug/mL	99
73) Dinbtylphthal	8.102	149	898459	15.4143 ug/mL	99
74) Fluoranthene	8.401	202	601737	16.3511 ug/mL	92
76) Benzidine	8.594	184	3927	Below Cal	97
77) Pyrene	8.512	202	617320	14.6374 ug/mL	89
79) Btylbzylphth	8.855	149	276704	14.9568 ug/mL	99
80) 33Diclbnzidin	9.137	252	17051	2.0402 ug/mL	79
81) B[a]anthracen	9.148	228	569860	15.5931 ug/mL	98
82) Chrysene	9.168	228	520657	15.2542 ug/mL	99
83) bis2Ethlhxlph	9.185	149	365306	14.3569 ug/mL	96
84) Dinoctylphthl	9.569	149	684160	14.6297 ug/mL	99
86) B[b]fluoranth	9.770	252	540528	14.4503 ug/mL	95
87) B[k]fluoranth	9.787	252	497216	15.7798 ug/mL	94
88) Benz[a]pyrene	9.958	252	497683	14.4076 ug/mL	92
89) Indeno-pyrene	10.586	276	495792	14.5385 ug/mL	74
90) Dib[ah]anthr	10.597	278	406019	15.2349 ug/mL	90
91) B[ghi]perylen	10.745	276	409908	13.8060 ug/mL	86

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

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\1S121610\877687DR.D Vial: 7
Acq On : 16 Dec 2010 14:14 Operator: RPN
Sample : 72515,MSDS877687,1 Inst : SVMS1
Misc : 879024,500ul+5ul IS S2263B Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 27 12:46:42 2010

Quant Method : C:\INSTARCH\METHOD\1S121410.M
Quant Title : Method for 8270 analysis
QLast Update : Thu Dec 16 16:35:39 2010
Response via : Initial Calibration
DataAcq Meth:1S121410.M



SEMI - VOLATILE ORGANIC ANALYSIS
LOGBOOK
DOCUMENTS

S SVOC 8270 SOIL Analytical Run
72515 on 1/5/2011

Date Analyzed: JJY 01/05/11

Date Entered:

Date Reviewed:

Date Validated:

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME		QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82599	874693		11/23/2010			CT LABORATORIES	QSM Quarterly Check	SVOC 8270 QSM		S	**1**	
		LOD							35715			
82599	874694		11/23/2010			CT LABORATORIES	QSM Quarterly Check	SVOC 8270 QSM		S	**1**	
		LOQ							35715			
	879025							SVOC 8270 QSM				
					MBS				35715			
	879026							SVOC 8270 QSM				
					LCSS				35715			
82743	877664		12/2/2010	1325		USACE - LOUISVILLE	RAVENNA	SVOC 8270 QSM		S	**4**	
RERUN		DAASS-041-0001-SO							35715			
82743	877666		12/2/2010	1355		USACE - LOUISVILLE	RAVENNA	SVOC 8270 QSM		S	**4**	
RERUN		DAASS-040-0001-SO							35715			
82743	877664		12/2/2010	1325		USACE - LOUISVILLE	RAVENNA	SVOC 8270 QSM		S	**4**	
		DAASS-041-0001-SO							35715			
82743	877666		12/2/2010	1355		USACE - LOUISVILLE	RAVENNA	SVOC 8270 QSM		S	**4**	
		DAASS-040-0001-SO							35715			

8 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 1/5/2011

Prep Batch **35,715**

Prepped By:: BEL

Date Prepped: 12/8/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	879025	MBS		SVOC 8270 QSM	SOLID	1.0	10.00			
	879026	LCSS		SVOC 8270 QSM	SOLID	1.0	10.00			
82599	874693			SVOC 8270 QSM	SOIL	1.0	10.00		N	
	874694			SVOC 8270 QSM	SOIL	1.0	10.00		N	
82743	877664			SVOC 8270 QSM	SOIL	1.0	10.03		N	
	877664			SVOC 8270 QSM	SOIL	1.0	10.03		N	
	877666			SVOC 8270 QSM	SOIL	1.0	9.97		N	
	877666			SVOC 8270 QSM	SOIL	1.0	9.97		N	

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

METHOD 8270-SV GC/MS Extraction Bench Sheet
SOP Reference Number 8270, 8270 SIM Explosives, 8270SIM PAH

EPA Method references: (8270) (Semivolatiles)
3510 (Separatory funnel extraction)
~~3545~~ (Pressurized Fluid Extraction)
3580 (Waste Dilution)
3546 (Microwave Extraction)

Prep Batch Number 35715 + 35812

Spike and Surrogate Information:
Spike amount and concentration (Matrix Spike and LCS): 1.0 mL @ 20 mg/mL + varies + see below
Spike Reference: SVMS 4717 + 4721 ADDED: BEL
Surrogate amount and concentration: 1.0 mL @ 70/40 (BN/A) mg/mL + see below
Surrogate Reference: SVMS 4676 + 4771 ADDED: BEL
Reagent lot # $MeCl_2$ 341E11 Na_2SO_4 J29601 Acetone JH652
Sulfuric Acid SVMS — NaOH SVMS — Diatomaceous earth 909120
Dionex DI 14136 Scale Sem. balance GPC Start 12/12/10 GPC End 12/13/10

Extraction by: BEL Date 12/8/10 Start Time 14:30 End 16:30
Initial Concentration by: BEL Date 12/12/10
Final Concentration by: BEL Date 12/13/10

Cell #	Client	Sample Number	Sample Amt. (gm or L)	Final Vol (mL)	pH <2	pH >11	Comments
	Method Blank	MB 879025	10.00	1.0			882170
	Control Spike	LCS 879026	10.00	↓			882171
	~~Control Spike Dup.~~	~~LCSD~~	~~N/A~~ BEL	12/8/10			
882173	Matrix Spike	MS ~~877687~~	10.00	1.0			
882177	Matrix Spike Dup.	MSD ~~877687~~	9.95				
	CT Labs	LOD/LOQ	10.00				150 mL surr + SVMS 4721
	↓	LOD/LOQ	10.00				300 mL
		LOD/LOQ	10.00				500 mL
		LOD/LOQ	10.00				1000 mL
	Ravenna	877664	10.03				
	↓	877666	9.97				
	ARA	877680	10.06				
		877681	10.07				
		877682	10.09				
		877683	10.03				
		877684	9.99				
		877685	10.05				
		877686	10.05				
		877687	9.96				
		877688	9.99				
		877689	9.98				
	↓	877690	10.01	↓			
		~~N/A~~	BEL	12/8/10			

Footnotes:

Separate Prep batch for ARA - (35812)

Final extract
Relinquished by: BEL Date: 12/13/10 Relinquished to: BEL Date: 12/13/10

RON

Table 4

8270 SVOC Analysis Data Review Checklist

Analytical Run #: 72515	**Independent Reviewer: JJY**
Sequence Date: 12/15/2010	**Date of Review: 12/29/2010**
Analyst/Data Interpreter: RPN	**Approval: Yes**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the initial calibration performed using a minimum of five standard concentration levels?	Lowest standard at or near MRL	**Yes**		**Yes**		
b. SPCC responses.	Avg. RRF ≥ 0.05	**Yes**		**Yes**		
c. Is the variation between calibration response factors for all concentration levels <20% RSD, is r >.995, or r^2 > 0.990 for the regression line. RSD≤ 15%, ≤ 30% for CCCs.	RSD≤ 15%, ≤ 30% for CCCs	**Yes**		**Yes**		
d. Were the standards used for the ICAL uniquely identified?		**Yes**		**Yes**		
e. Was there a DFTPP standard analyzed prior to the ICAL?		**Yes**		**Yes**		
f. Was an instrument blank (IB) analyzed prior to the ICAL?		**Yes**		**Yes**		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Were there a second source ICVs for all target analytes analyzed after the initial calibration and prior to analysis of any samples?	Second source	**Yes**		**Yes**		
b. Were the SPCC within QC limits	RRF ≥ 0.05	**Yes**		**Yes**		
c. Were the CCCs within QC limits	%D ≤ 20%	**Yes**		**Yes**		
d. Were the ICVs uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
a. Were CCVs for target analytes analyzed at the beginning of the sequence and after every 12 hours.		**Yes**		**Yes**		
b. Were SPCC compounds acceptable?	RRF ≥ 0.050	**Yes**		**Yes**		
c. Were the CCCs compounds acceptable?	%D ≤ 20%	**Yes**		**Yes**		
d. Were the recoveries for the CCVs acceptable?	%D≤20%	**Yes**		**Yes**		
e. Was each CCV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 72515

Table 4

8270 SVOC Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. DFTPP						
a. Was a DFTPP tune check ran at the beginning of every twelve hour shift?		yes		Yes		
b. Were the relative abundance criteria met?		Yes		Yes		
c. Was the peak tailing <2 on Pentachlorophenol and <2 on Benzidine?	Tailing <2%	yes		yes		
d. Was the breakdown of DDT to DDE and DDD less than 20%	Breakdown ≤20%	Yes		Yes		
5. BLANKS						
a. Was method blank (MB) analyzed prior to the analysis of samples?		Yes		Yes		
b. Were the MB results less than the reporting limit (RL)?	< MRL	Yes		Yes		
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch <20 samples	Yes		Yes		
6. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed prior to the analysis of samples?		Yes		Yes		
b. Were the LCS recoveries in each LCS within the acceptance criteria?	In-house limits or client specified limits	Yes		Yes		
7. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch <20 samples	Yes		Yes		See below
b. Were MS recoveries in each MS within the acceptance criteria?	In-house limits or client specified limits		No		No	
8. LABORATORY CONTROL SPIKE / MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike or laboratory control spike sample analyzed at a . frequency one per Prep Batch?	Batch <20 samples	Yes		Yes		
b. Were MSD or LCSD recoveries within the acceptance criteria?	In-house limits or client specified limits		No		No	
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its' duplicate (MSD) or laboratory control spike (LCS) and its' duplicate (LCSD) within the acceptance criteria?	In-house limits or client specified limits		No		No	

Additional Comments:

MS/MSD analyzed on sample 877687 from a different client.

Analytical Run #: 72515

Table 4

8270 SVOC Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
9. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		**Yes**		**Yes**		
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?		**Yes**		**Yes**		
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		**Yes**		**Yes**		See below
d. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	**Yes**		**Yes**		
e. Did the samples require additional cleanup steps? (i.e. acid treatment, acid-base fractioning, and GPC)	GPC, Acid/Base, Treatments	**Yes**		**Yes**		
10. RECORDS AND REPORTING						
a. Are Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, initial and rerun raw and process data present in the data file?		**Yes**		**Yes**		
b. Are all chromatograms dated and initialed?		**Yes**		**Yes**		
c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, a NCR completed?		**Yes**		**Yes**		
d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		**Yes**		**Yes**		
e. Is the ICAL method referenced on the Raw Data?		**Yes**		**Yes**		

Additional Comments:

Sample 877664 1:10 dilution for fluoranthene, phenanthrene, pyrene. Sample 877666 1:10 dilution for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene fluoranthene, phenanthrene, pyrene.

Sequence Name: C:\INSTARCH\SEQUENCE\1S121410.S
Comment: 8270
Operator: RPN
Data Path: C:\INSTARCH\DATA\1S121410\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

RPN
12/14/10

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info	
1)	Sample	100	1PRIM01	1S121410 PRIMER 50ug/ml
2)	Sample	99	1IB01	1S121410 InstrumentBlank
3)	DFTPP	1	1DFTPP49	1DFTPP DFTPP TUNE SVMS4570
4)	Sample	2	1IB02	1S121410 InstrumentBlank
5)	Sample	3	1ICAL7	1S121410 I CAL 50ug/ml SVMS4685
6)	Sample	4	1ICAL6	1S121410 I CAL 40ug/ml SVMS4684
7)	Sample	5	1ICAL5	1S121410 I CAL 30ug/ml SVMS4683
8)	Sample	6	1ICAL4	1S121410 I CAL 20ug/ml SVMS4682
9)	Sample	7	1ICAL3	1S121410 I CAL 10ug/ml SVMS4681
10)	Sample	8	1ICAL2	1S121410 I CAL 5ug/ml SVMS4680
11)	Sample	9	1ICAL1	1S121410 I CAL 1ug/ml SVMS4679
12)	Sample	8	1ICAL2R	1S121410 I CAL 5ug/ml SVMS4680
13)	Sample	10	1ICV1	1S121410 ICV 20ug/ml SVMS4686
14)	Sample	11	1ICV2	1S121410 ICV 40ug/ml SVMS4687
15)	Sample	2	1IB03	1S121410 InstrumentBlank
16)	Sample	3	1ICAL7A	1S121410 I CAL 50ug/ml SVMS4554
17)	Sample	4	1ICAL6A	1S121410 I CAL 40ug/ml SVMS4553
18)	Sample	5	1ICAL5A	1S121410 I CAL 30ug/ml SVMS4552
19)	Sample	6	1ICAL4A	1S121410 I CAL 20ug/ml SVMS4551
20)	Sample	7	1ICAL3A	1S121410 I CAL 10ug/ml SVMS4550
21)	Sample	8	1ICAL2A	1S121410 I CAL 5ug/ml SVMS4549
22)	Sample	9	1ICAL1A	1S121410 I CAL 1ug/ml SVMS4548
23)	Sample	10	1ICV1A	1S121410 ICV 20ug/ml SVMS4555
24)	Sample	11	1ICV2A	1S121410 ICV 40ug/ml SVMS4556

Sequence Name: C:\INSTARCH\SEQUENCE\1S121510.S
Comment: 8270
Operator: RPN
Data Path: C:\INSTARCH\DATA\1S121510\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

RPN
12/27/10

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info	
1)	Sample	99	1IB01	1S121410 InstrumentBlank
2)	DFTPP	1	1DFTPP50	1DFTPP DFTPP TUNE SVMS4570
3)	Sample	2	1CCV45	1S121410 CCV 20ug/ml SVMS4688
4)	Sample	3	1CCV46	1S121410 CCV 20ug/ml SVMS4557
5)	Sample	4	874693	1S121410 72515,874693,1
6)	Sample	5	874694A	1S121410 72515,874694,1
7)	Sample	6	874694B	1S121410 72515,874694,1
8)	Sample	7	874694C	1S121410 72515,874694,1
9)	Sample	8	1MBW01	1S121410 72513,MBW,1
10)	Sample	9	1MBTV01	1S121410 72513,MBTV,1
11)	Sample	10	1MBTS01	1S121410 72513,MBTS,1
12)	Sample	11	1LCSW01	1S121410 72513,LCSW,1
13)	Sample	12	875478	1S121410 72513,875478,1
14)	Sample	13	875478MS	1S121410 72513,MSW875478,1
15)	Sample	14	875478SD	1S121410 72513,MSDW875478,1
16)	Sample	15	1MBS01	1S121410 72515,MBS,1
17)	Sample	16	1LCSS01	1S121410 72515,LCSS,1
18)	Sample	13	875478SR	1S121410 72513,MSW875478,1
19)	Sample	14	875478DR	1S121410 72513,MSDW875478,1
20)	Sample	17	877664D	1S121410 72515,877664,10
21)	Sample	18	877666D	1S121410 72515,877666,10
22)	Sample	19	877687	1S121410 72544,877687,1
23)	Sample	20	877687MS	1S121410 72544,MSS877687,1
24)	Sample	21	877687SD	1S121410 72544,MSDS877687,1
25)	Sample	22	877680	1S121410 72544,877680,1
26)	Sample	23	877681	1S121410 72544,877681,1
27)	Sample	24	877682	1S121410 72544,877682,1
28)	Sample	25	877683	1S121410 72544,877683,1
29)	Sample	26	877684	1S121410 72544,877684,1
30)	Sample	27	877685	1S121410 72544,877685,1
31)	Sample	28	877686	1S121410 72544,877686,1
32)	Sample	29	877688	1S121410 72544,877688,1
33)	Sample	30	877689	1S121410 72544,877689,1
34)	Sample	31	877690	1S121410 72544,877690,1
35)	Sample	32	877664	1S121410 72515,877664,1
36)	Sample	33	877666	1S121410 72515,877666,1

Sequence Name: C:\INSTARCH\SEQUENCE\1S121610.S
Comment: 8270
Operator: RPN
Data Path: C:\INSTARCH\DATA\1S121610\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

RPN
12/16/10

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info		
1)	Sample	100	1PRIM01	1S121410	PRIMER 50ug/ml
2)	Sample	99	1IB01	1S121410	InstrumentBlank
3)	DFTPP	1	1DFTPP51	1DFTPP	DFTPP TUNE SVMS4570
4)	Sample	2	1CCV47	1S121410	CCV 20ug/ml SVMS4688
5)	Sample	3	1CCV48	1S121410	CCV 20ug/ml SVMS4557
6)	Sample	4	1MBS01	1S121410	72545,MBS,1
7)	Sample	5	1LCSS01	1S121410	72545,LCSS,1
8)	Sample	6	877687SR	1S121410	72515,MSS877687,1
9)	Sample	7	877687DR	1S121410	72515,MSDS877687,1
10)	Sample	8	877681R	1S121410	72515,877681,1
11)	Sample	9	879275	1S121410	72545,879275,1
12)	Sample	10	879275MS	1S121410	72545,MSS879275,1
13)	Sample	11	879275SD	1S121410	72545,MSDS879275,1
14)	Sample	12	879260	1S121410	72545,879260,1
15)	Sample	13	879269	1S121410	72545,879269,1
16)	Sample	14	879270	1S121410	72545,879270,1
17)	Sample	15	879271	1S121410	72545,879271,1
18)	Sample	16	879272	1S121410	72545,879272,1
19)	Sample	17	879273	1S121410	72545,879273,1
20)	Sample	18	879274	1S121410	72545,879274,1
21)	Sample	19	879276	1S121410	72545,879276,1
22)	Sample	20	879277	1S121410	72545,879277,1
23)	Sample	21	879278	1S121410	72545,879278,1
24)	Sample	99	1IB02	1S121410	InstrumentBlank
25)	Sample	5	1LCSS01R	1S121410	72545,LCSS,1
26)	Sample	12	879260R	1S121410	72545,879260,1
27)	Sample	13	879269R	1S121410	72545,879269,1
28)	Sample	14	879270R	1S121410	72545,879270,1
29)	Sample	15	879271R	1S121410	72545,879271,1
30)	Sample	10	879275SR	1S121410	72545,MSS879275,1
31)	Sample	11	879275DR	1S121410	72545,MSDS879275,1
32)	Sample	16	879272R	1S121410	72545,879272,1
33)	Sample	17	879273R	1S121410	72545,879273,1
34)	Sample	18	879274R	1S121410	72545,879274,1

SVMS4545

RPN
6/28/2010
x11/26/10

8270 Benzidines/ Benzoic acid spike 100ug/ml

STD NAME	Manuf	Cat #	CTL STD #	Lot #	Conc ug/mL	V added uL	V final mL	CONC final ug/mL
Benzoic acid	RESTEK	31879	S2167A	A073930	2000	500	10	100
Benzidines	RESTEK	31834	S2067B	A069986	2000	500	10	100
Acetone	JTBaker		N/A	H12E11	99.9%			

SVMS4546

RPN
07/01/10
X12/21/2010

8270 ADDL. COMP.CALIBRATION STOCK STD.

STD NAME	Manuf	Cat #	CTL STD #	Lot #	Conc ug/mL	V added uL	V final mL	CONC final ug/mL
Atrazine	Restek	32208	S1947B	A059889	1000	200	2	100
Biphenyl	SPEX-CERT	S-500	S2194A	M1091211004	1000	200	2	100
Di-allate	SPEX-CERT	S-1155	S2198B	T1100520019	1000	200	2	100
Benzaldehyde	Restek	33017	S1948B	A064917	2000	100	2	100
Caprolactum	Restek	31833	S1949B	A065204	2000	100	2	100
2-Amininaphthalene	SPEX-CERT	S-235-2K	S2188A	T1090731014	2000	100	2	100
MeCl2	JTBaker			H49-S06	99.40%			

SVMS4547

RPN
07/01/10
X12/21/2010

8270 ADDL. COMP. ICV STOCK STD.

STD NAME	Manuf	Cat #	CTL STD #	Lot #	Conc ug/mL	V added uL	V final mL	CONC final ug/mL
Atrazine	Restek	32208	S2165	A065263	1000	100	1	100
Biphenyl	SPEX-CERT	S-500	S2193	T1100520022	1000	100	1	100
Di-allate	SPEX-CERT	S-1155	S2197	T1100520020	1000	100	1	100
Benzaldehyde	Restek	33017	S2164	A072600	2000	50	1	100
Caprolactum	SPEX-CERT	S-712	S1945B	R1080206002	1000	100	1	100
2-Amininaphthalene	SPEX-CERT	S-235-2K	S2189A	T1090731015	2000	50	1	100
MeCl2	JTBaker			H49-S06	99.40%			

RPN
7/1/2010
X12/21/10

8270 Addl. Comp. Calibration working standards

	STD ID	PARENT STD	PARENT CONC ug/mL	Vol STD uL	Vol final mL	CONC final ug/mL
ICAL1	SVMS4548	SVMS4446	100	5	0.5	1
ICAL2	SVMS4549	SVMS4446	100	25	0.5	5
ICAL3	SVMS4550	SVMS4446	100	50	0.5	10
ICAL4	SVMS4551	SVMS4446	100	100	0.5	20
ICAL5	SVMS4552	SVMS4446	100	150	0.5	30
ICAL6	SVMS4553	SVMS4446	100	200	0.5	40
ICAL7	SVMS4554	SVMS4446	100	250	0.5	50
ICV1	SVMS4555	SVMS4547	100	100	0.5	20
ICV2	SVMS4556	SVMS4547	100	200	0.5	40
CCV	SVMS4557	SVMS4446	100	100	0.5	20

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Read and Understood By

Signed	Date	Signed	Date

DFTPP TUNE MIX 50µg/ml

SVMS 4570 RPN 9/2/2010 X1/7/2011	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC fin ug/mL
	GC/MS Tuning Mix	Restek	31615	S2153	A060630	1000	500	10	50
	MeCl2	JTBaker			H49S06	99%			

8270 2-ethoxyethanol Spike 80ug/ml

SVMS4571 RPN 9/7/2010 x3/6/2011	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC fin ug/mL
	2-Ethoxyethanol	SPEX	S-1910	S2102	R1060816002	1000	800	10	80
	Methanol	Fisher		N/A	096020	99.9%			

8270 2-ethoxyethanol/Hexachlorophene Spike 40/150ug/ml

SVMS4572 RPN 9/10/2010 x3/9/2011	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC fin ug/mL
	Hexachlorophene	RESTEK	31811	S2161A	A074051	2000	750	10	150
	2-Ethoxyethanol	SPEX	S-1910	S2196A	R1071019001	1000	400	10	40
	Methanol	Fisher		N/A	096020	99.9%			

8270 SPIKE 20 ug/mL

SVMS 4573 RPN 09/10/10 x1/29/2011	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC fin ug/mL
	8270 MEGAMIX	Restek	31850	S2217	A074193	1000	1000	50	20
	Benzidines	Restek	31834	S2225	A072315	2000	500	50	20
	XCT-CM-1	SPEX	XCT-CM-1	S2187A	T1090804002	2000	500	50	20
	Acetone	JTBaker	9254-03	N/A	H12E11	99.9%			

SVMS 4574 Sivo Internal Standards @ 100 µg/mL
9/13/10 50 µL S2201D @ 2000µg/mL
x 9/20/10 L Diluted to 1.0ml with $MeCl_2$

8270 2-ethoxyethanol/Hexachlorophene Spike 40/150ug/ml

SVMS4575 RPN 9/13/2010 x3/9/2011	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC fin ug/mL
	Hexachlorophene	RESTEK	31811	S2161B	A074051	2000	750	10	150
	2-Ethoxyethanol	SPEX	S-1910	S2196A	R1071019001	1000	400	10	40
	Methanol	Fisher		N/A	096020	99.9%			

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Read and Understood By

Signed Date Signed Date

8270 SPIKE 20 ug/mL

4609	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC ug/mL
RPN 10/07/10 x4/6/2011	8270 MEGAMIX	Restek	31850	S2249	A075665	1000	1000	50	20
	Benzidines	Restek	31834	S2248	A072315	2000	500	50	20
	XCT-CM-1	SPEX	XCT-CM-1	S2187C	T1090804002	2000	500	50	20
	Acetone	JTBaker	9254-03	N/A	H30E21	99.9%			

8270 SPIKE 20 ug/mL

SVMS 4610	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	Conc final ug/mL
RPN 10/07/10 x4/6/2011	8270 MEGAMIX	Restek	31850	S2249	A075665	1000	200	10	20
	Benzidines	Restek	31834	S2248	A072315	2000	100	10	20
	XCT-CM-1	SPEX	XCT-CM-1	S2187C	T1090804002	2000	100	10	20
	Acetone	JTBaker	9254-03	N/A	H30E21	99.9%			

SVMS 4611 Surr Internal Standards @ 100 µg/mL
10/7/2010 50µl S2244B @ 2000 µg/mL
10/14/2010 Calculated to 1.0 ml with MeCl2

8270 Extra Analyte List Calibration Working Standards

RPN 10/11/10 4/10/2011		STD ID	PARENT STD	PARENT CONC ug/mL	Vol STD uL	Vol final mL	CONC final ug/mL
	ICAL1	SVMS4612	SVMS4618	50	100	5	1
	ICAL2	SVMS4613	S2243A	2000	12.5	5	5
	ICAL3	SVMS4614	S2243A	2000	25	5	10
	ICAL4	SVMS4615	S2243A	2000	50	5	20
	ICAL5	SVMS4616	S2243A	2000	75	5	30
	ICAL6	SVMS4617	S2243A	2000	100	5	40
	ICAL7	SVMS4618	S2243A	2000	125	5	50
	ICV1	SVMS4619	S2242B	2000	50	5	20
	ICV2	SVMS4620	S2242B	2000	100	5	40
	CCV	SVMS4621	S2243A	2000	50	5	20

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Read and Understood By

Signed Date Signed Date

SVMS 4643 8270 Sim/SCAN Internal Standards
10/20/2010 500µL S2244C @ 2000 µg/mL — 1000µg/mL RPN
x + 500 µL S2041C @ 1000 µg/mL — 500µg/mL

SVMS 4644 8270 SIM Internal Standards @ 100µg/mL
11/2/2010 50µL S2263A @ 2000 µg/mL RPN
x 11/9/2010 diluted to 1.0 mL with MeCl2

SVMS 4645 Sim Internal Standards @ 100 µg/mL
11/12/2010 50µL S2263A @ 2000 µg/mL RPN
x 11/19/2010 diluted to 1.0 mL with MeCl2

RPN

DFTPP TUNE MIX 50µg/ml									
SVMS 4646 RPN	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
11/15/2010	GC/MS Tuning Mix	Restek	31615	S2224	A060630	1000	500	10	50
X5/14/2011	MeCl2	JTBaker			H49S06	99%			

SVMS 4647 Sim/PEST SPIKE @ 1 µg/mL
11/15/2010 125µL S2154B @ 200µg/mL RPN
12/31/2010 +25µL S1946 @ 1000µg/mL
diluted to 25 mL with Acetone JTBaker H30E21

SVMS 4648 8270 SIM/PAH Intermediate Stock Std @ 20µg/mL
11/15/2010 100µL S2272 @ 2000 µg/mL
x 5/14/2011 + 40 µL B/N Surrogate S2163B @ 5000µg/mL RPN
Diluted to 10 mL with MeCl2 JTBaker J21S09

SVMS 4649 8270 SVM/PAH ICV Int. Std @ 20µg/mL RPN
11/15/2010 100µL S2273 @ 2000 µg/mL
x 5/14/2011 +40 µL B/N Surrogate S2163B @ 5000 µg/mL
Diluted to 10 mL with MeCl2

Continued on Page

Read and Understood By

Signed	Date	Signed	Date

8270SIM/PAH SPIKE 1.0 ug/mL									
SVMS 4663 RPN	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC final ug/mL
11/15/2010	8270 CAL.MIX 5	Restek	31622	S2272	A077605	2000	25	50	1
X5/14/2011	Acetone	JTBaker			H30E21				

SVMS 4664 8270 SIM/PEST STOCK STD @ 20µg/mL
11/16/2010 400 µL S2277 @ 500 µg/mL
x 5/15/2010 + 40 µL B/N Surrogate @ 5000 µg/mL (S2163B)
↳ diluted to 10mL w/ MeCl2 JTBaker H30E21

SVMS 4665 8270 SIM/PEST ICV Stock Std. @ 20 µg/mL
11/16/2010 500 µL S2274A @ 200 µg/mL
x 5/15/2010 + 20 µL B/N Surrogate S2163B @ 5000 µg/mL
Diluted to 5mL w/ MeCl2. JTBaker H30E21

RPN

8270 SIM-PEST Calibration working standards							
		STD ID	PARENT STD	PARENT CONC (µg/mL)	Vol STD uL	Vol final mL	CONC final ng/mL
RPN 11/16/2010 X5/15/2011	ICAL1	SVMS4666	SVMS4664	20	10	10	20
	ICAL2	SVMS4667	SVMS4664	20	25	10	50
	ICAL3	SVMS4668	SVMS4664	20	50	10	100
	ICAL4	SVMS4669	SVMS4664	20	250	10	500
	ICAL5	SVMS4670	SVMS4664	20	500	10	1000
	ICAL6	SVMS4671	SVMS4664	20	750	10	1500
	ICAL7	SVMS4672	SVMS4664	20	1000	10	2000
	ICV1	SVMS4673	SVMS4665	20	250	10	500
	ICV2	SVMS4674	SVMS4665	20	750	10	1500
	CCV	SVMS4675	SVMS4664	20	250	10	500

8270 SURROGATES BN/A 20/40 ug/mL									
SVMS4676 RPN 11/16/2010 05/16/2011	STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. (ugml)	V added uL	V final mL	CONC final (ug/mL)
	ACID SURR.	RESTEK	31063	S2200B	A060787	10000	400	100	40
	B/N SURR.	RESTEK	31062	S2163B	A073966	5000	400	100	20
	Acetone	JTBaker		N/A	H30E21	99.9%			

Continued on Page

Read and Understood By

Signed Date Signed Date

8270 ICAL Stock 100 ug/mL

SVMS4677

RPN
11/22/10
x 05/18/2011

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC ug/mL
8270 MEGAMIX	Restek	31850	S2268A	A076907	1000	1000	10	100
Benzidines	Restek	31834	S2266	A077154	2000	500	10	100
XCT-CM-1	SPEX-CERT	XCT-CM-1	S2186C	I1090804001	2000	500	10	100
8270 Acid Surr	Restek	31063	S2200B	A060787	10000	100	10	100
8270 BN Surr	Restek	31062	S2163B	A073966	5000	200	10	100
DCM	JTBaker		N/A	H49S06	99.9%			

8270 2nd Source ICV Stock 100 ug/mL

SVMS4678

RPN
11/22/10
x 05/18/2011

STD NAME	Manuf	Cat. #	CTL STD #	Lot #	Conc. ug/mL	V added uL	V final mL	CONC ug/mL
8270 MEGAMIX	Restek	31850	S2269	A077266	1000	500	5	100
Benzidines	Restek	31834	S2267	A074191	2000	250	5	100
XCT-CM-1	SPEX-CERT	XCT-CM-1	S2187B	I1090804002	2000	250	5	100
8270 Acid Surr	Restek	31063	S2200B	A060787	10000	50	5	100
8270 BN Surr	Restek	31062	S2163B	A073966	5000	100	5	100
DCM	JTBaker		N/A	H49S06	99.9%			

8270 Calibration Working Standards

RPN
11/22/10
x 5/18/2011

	STD ID	PARENT STD	PARENT CONC ug/mL	Vol STD uL	Vol final mL	CONC final ug/mL
ICAL1	SVMS4679	SVMS4677	100	10	1	1
ICAL2	SVMS4680	SVMS4677	100	50	1	5
ICAL3	SVMS4681	SVMS4677	100	100	1	10
ICAL4	SVMS4682	SVMS4677	100	200	1	20
ICAL5	SVMS4683	SVMS4677	100	300	1	30
ICAL6	SVMS4684	SVMS4677	100	400	1	40
ICAL7	SVMS4685	SVMS4677	100	500	1	50
ICV1	SVMS4686	SVMS4678	100	200	1	20
ICV2	SVMS4687	SVMS4678	100	400	1	40
CCV	SVMS4688	SVMS4677	100	200	1	20

SVMS 4689 8270 SIM Internal Standards @ 100 ug/mL
11/23/2010 50 µL S2263A @ 2000 ug/mL
x 11/30/2010 diluted to 1.0 mL with MeCl2

Continued on Page

Read and Understood By

Signed Date Signed Date

POLYCHLORINATED BIPHENYL QUALITY CONTROL SUMMARY DOCUMENTS

CT LABORATORIES
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1D-2

PCB ORGANICS ANALYSIS

Sample Description

DAASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	10.09 (g/L)	CTL Sample ID:	877664
% Solids:	98.3	Date Received:	12/03/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	12/08/2010 / 14:30
Analytical Method:	EPA 8082A	Analytical Prep Batch #	35714
Analytical Run #:	72476	Dilution Factor:	1.00
Date & Time Analyzed:	12/14/2010 / 15:15		

Cleanup Date/Time/Type: , 12/14/2010 13:00 (Sulfur) , 12/14/2010 12:00 (Acid) ,

TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): /

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
12674-11-2	Aroclor-1016	10	U	10	25	50	50
11104-28-2	Aroclor-1221	20	U	20	25	50	67
11141-16-5	Aroclor-1232	27	U	27	25	50	91
53469-21-9	Aroclor-1242	29	U	29	25	50	97
12672-29-6	Aroclor-1248	29	U	29	25	50	98
11097-69-1	Aroclor-1254	23	U	23	25	50	77
11096-82-5	Aroclor-1260	12	U	12	25	50	50
37324-23-5	Aroclor-1262	21	U	21	25	50	72
11100-14-4	Aroclor-1268	28	U	28	25	50	93

CT LABORATORIES
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1D-2

PCB ORGANICS ANALYSIS

Sample Description

DAASS-040-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOIL	SDG No.:	82743
Sample wt/vol:	9.99 (g/L)	CTL Sample ID:	877666
% Solids:	98.2	Date Received:	12/03/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	12/08/2010 / 14:30
Analytical Method:	EPA 8082A	Analytical Prep Batch #	35714
Analytical Run #:	72476	Dilution Factor:	1.00
Date & Time Analyzed:	12/14/2010 / 19:25		

Cleanup Date/Time/Type: , 12/14/2010 13:00 (Sulfur) , 12/14/2010 12:00 (Acid) ,

TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): /

Concentration Units: ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
12674-11-2	Aroclor-1016	10	U	10	25	51	51
11104-28-2	Aroclor-1221	20	U	20	25	51	67
11141-16-5	Aroclor-1232	28	U	28	25	51	92
53469-21-9	Aroclor-1242	30	U	30	25	51	98
12672-29-6	Aroclor-1248	30	U	30	25	51	99
11097-69-1	Aroclor-1254	23	U	23	25	51	77
11096-82-5	Aroclor-1260	12	U	12	25	51	51
37324-23-5	Aroclor-1262	21	U	21	25	51	72
11100-14-4	Aroclor-1268	29	U	29	25	51	94

CT LABORATORIES
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Sample Description: **METHOD BLANK**

1D-4

PCB ORGANICS ANALYSIS (MB)

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:		SDG No.:	82743
Sample wt/vol:	10.00 (g/L)	CTL Sample ID:	879020
% Solids:		Date Received:	12/03/2010
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	12/08/2010 / 14:30
Analytical Method:	EPA 8082A	Analytical Prep Batch #	35714
Analytical Run #:	72476	Dilution Factor:	1.00

Cleanup Date/Time/Type: , 12/14/2010 13:00 (Sulfur) , 12/14/2010 12:00 (Acid) ,

TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): /

Concentration Units: ug/kg

CAS NO.	Analyte	Analysis Date/Time	Concentration	Qualifiers	LOD/DL	Control Limit	RL
12674-11-2	Aroclor-1016	12/14/2010 13:57	25	U	25	25	
11104-28-2	Aroclor-1221	12/14/2010 13:57	25	U	25	25	
11141-16-5	Aroclor-1232	12/14/2010 13:57	25	U	25	25	
53469-21-9	Aroclor-1242	12/14/2010 13:57	25	U	25	25	
12672-29-6	Aroclor-1248	12/14/2010 13:57	25	U	25	25	
11097-69-1	Aroclor-1254	12/14/2010 13:57	25	U	25	25	
11096-82-5	Aroclor-1260	12/14/2010 13:57	25	U	25	25	
37324-23-5	Aroclor-1262	12/14/2010 13:57	25	U	25	25	
11100-14-4	Aroclor-1268	12/14/2010 13:57	25	U	25	25	

CT LABORATORIES
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2F-2

SOIL PCB SYSTEM MONITORING COMPOUND RECOVERY

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

Analytical Method: EPA 8082A SDG: 82743

Analytical Run #: 72476

GC Column(1): Phenomenex ZB-5 ID: 0.32 (mm) GC Column(2): Phenomenex ZB-1701 ID: 0.32 (mm)

CTLab #	874693				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	10	60	125	*FAIL*

CTLab #	874694				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	20	60	125	*FAIL*

CTLab #	877664				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	64	60	125	

CTLab #	877666				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	71	60	125	

CTLab #	877680				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	88	60	125	

CTLab #	877681				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	86	60	125	

CTLab #	877682				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	94	60	125	

CTLab #	877683				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	85	60	125	

CTLab #	877684				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	95	60	125	

CTLab #	877685				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	95	60	125	

CTLab #	877686				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	91	60	125	

CTLab #	877687				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	89	60	125	

CT LABORATORIES
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2F-2

SOIL PCB SYSTEM MONITORING COMPOUND RECOVERY

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

Analytical Method: EPA 8082A | SDG: 82743

Analytical Run #: 72476

GC Column(1): Phenomenex ZB-5 ID: 0.32 (mm) | GC Column(2): Phenomenex ZB-1701 ID: 0.32 (mm)

CTLab #	877688				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	89	60	125	

CTLab #	877689				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	93	60	125	

CTLab #	877690				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	91	60	125	

CTLab #	879018	Sample Type:	Matrix Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	94.0	60	125	

CTLab #	879019	Sample Type:	Matrix Spike Duplicate		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	95.7	60	125	

CTLab #	879020	Sample Type:	Method Blank		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	93.6	60	125	

CTLab #	879021	Sample Type:	Lab Control Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: DCBP	100	98.1	60	125	

CT LABORATORIES
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3F

Sample Description

SOIL PCB MATRIX SPIKE RECOVERY

PB6-50-SSS

Lab Name: CT Laboratories Contract: ARA INCORPORATED-BORROW

Matrix: SOIL SDG No.: 82699

Analytical Method: EPA 8082A Concentration Units: ug/kg

Analytical Run #: 72476 Sample No.: 879018 Parent Sample No.: 877687

Analytical Prep Batch #: 35714 Analytical Preparation Date/Time: 12/08/2010 14:30

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Aroclor-1016	12/14/2010 18:07	40-140	586	0	580	101
Aroclor-1260	12/14/2010 18:07	60-130	582	0	580	100

Spike Recovery: 0 out of 2 outside QC limits

CT LABORATORIES
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3F

Sample Description

SOIL PCB MATRIX SPIKE DUPLICATE RECOVERY

PB6-50-SSS

Lab Name: CT Laboratories Contract: ARA INCORPORATED-BORROW

Matrix: SOIL SDG No.: 82699

Analytical Method: EPA 8082A Concentration Units: ug/kg

Analytical Run #: 72476 Sample No.: 879019 Parent Sample No.: 879018

Analytical Prep Batch #: 35714 Analytical Preparation Date/Time: 12/08/2010 14:30

Analyte	Analysis Date/Time	Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)
Aroclor-1016	12/14/2010 18:23	596	581	103	2	40-140	30
Aroclor-1260	12/14/2010 18:23	593	581	102	2	60-130	30

RPD or Spike Recovery: 0 out of 2 outside QC limits

CT LABORATORIES
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3F

Sample Description

LCS

SOIL PCB LAB CONTROL SAMPLE

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

Sample No.: 879021 SDG No.: 82743

Analytical Method: EPA 8082A Concentration Units: ug/kg

Analytical Run #: 72476 Sample No.: 879021 Parent Sample No.: 0

Analytical Prep Batch #: 35714 Analytical Preparation Date/Time: 12/08/2010 14:30

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Aroclor-1016	12/14/2010	14:12	40-140	504		500	101
Aroclor-1260	12/14/2010	14:12	60-130	493		500	99

Spike Recovery: 0 out of 2 outside limits

CT Laboratories

4C-2

PCB METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Sample ID:	879020	SDG No.:	82743
Matrix:	SOLID	Date Extracted:	12/08/2010
Date Analyzed:	12/14/2010	Time Analyzed:	13:57
Analytical Method:	EPA 8082A	Extraction Method:	SW3545
Analytical Run #:	72476	Extraction Batch #:	35714

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED
1	DAASS-041-0001-SO	877664	12/14/2010 15:15
2	DAASS-040-0001-SO	877666	12/14/2010 19:25
3	PB6-50-SSSMSS	879018	12/14/2010 18:07
4	PB6-50-SSSMSDS	879019	12/14/2010 18:23
5	MBS	879020	12/14/2010 13:57
6	LCSS	879021	12/14/2010 14:12

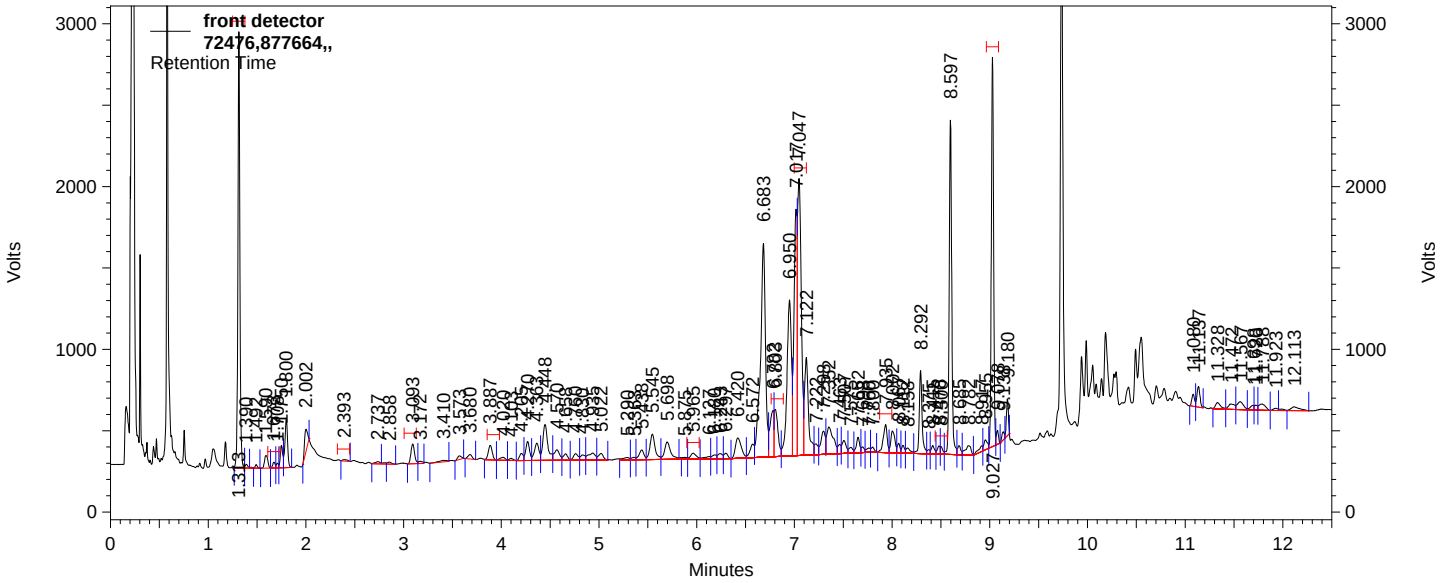
POYCHLORINATED BIPHENYL
SAMPLE DATA
DOCUMENTS

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\121410pcb\010.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\121410pcb.met
User: jjy
Sample ID: 72476,877664,,
Acquired: Dec 14,2010 15:15:25
Printed: Dec 14,2010 19:12:06

JJY
12/14/10

Data Summary: {Data Description}



front detector Results

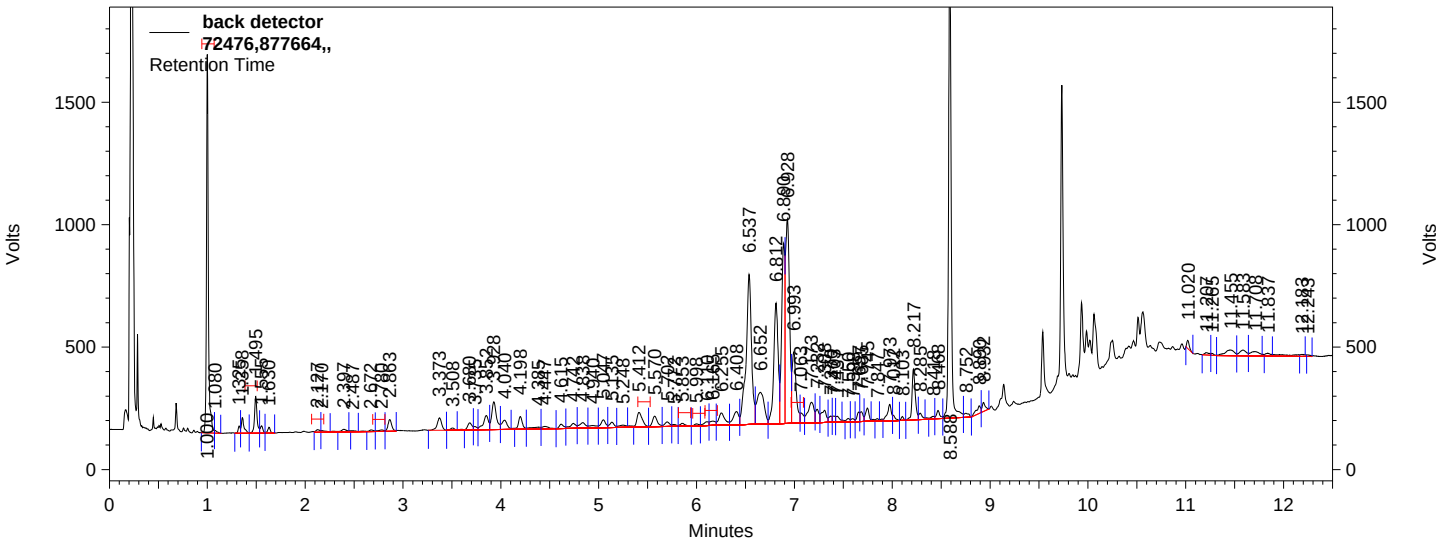
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.313	28870337	76.415
Aroclor 1016 #1	1.673	461297	0.000
Aroclor 1016 #2	2.393	259411	0.000
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4	3.093	2420189	0.011
Aroclor 1016 #5	3.887	1975729	0.004
Aroclor 1260 #1	5.965	1147580	0.000
Aroclor 1260 #2	6.803	5967118	0.007
Aroclor 1260 #3	7.047	35758326	0.094
Aroclor 1260 #4	7.935	3703543	0.005
Aroclor 1260 #5	8.500	604582	0.000
SURRDCBPCB	9.027	29434305	64.482
Aroclor 1016		5116626	0.016
Aroclor 1260		47181149	0.106

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\121410pcb\010.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\121410pcb.met
User: jjy
Sample ID: 72476,877664,,
Acquired: Dec 14,2010 15:15:25
Printed: Dec 14,2010 19:12:06

JJY
12/14/10

Data Summary: {Data Description}



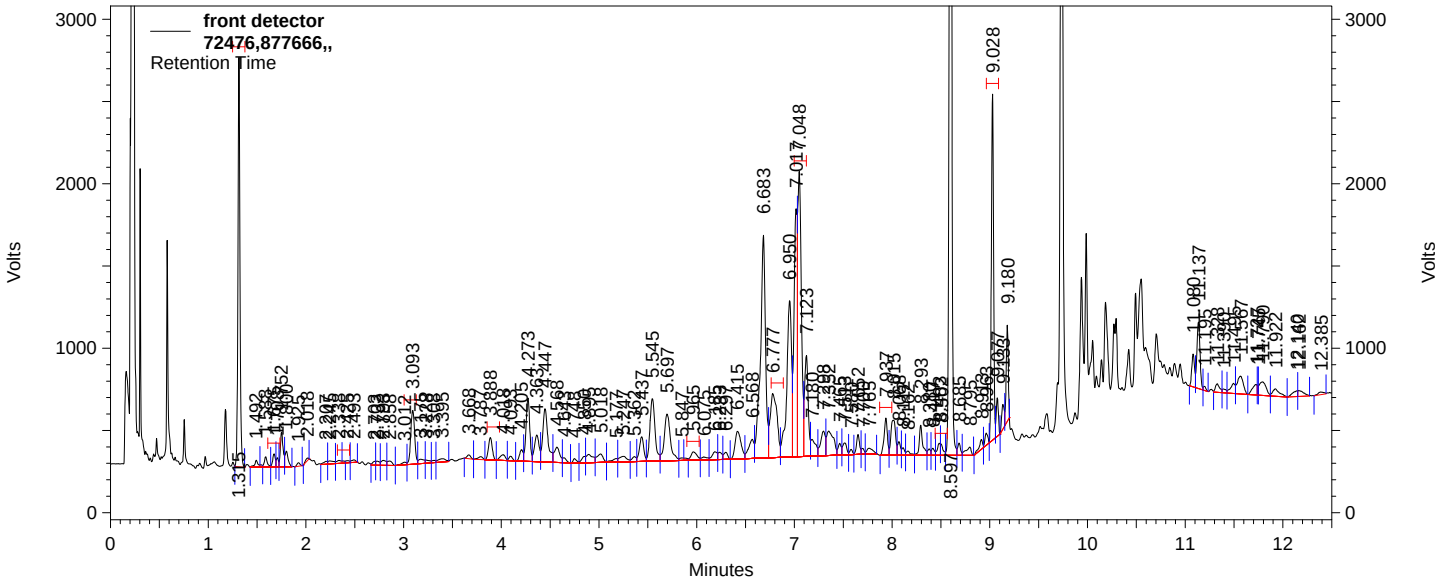
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.000	15605393	78.660
Aroclor 1016 #1	1.495	2111896	0.027
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3	2.127	233739	0.000
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5	2.780	184781	0.000
Aroclor 1260 #1	5.412	1777595	0.005
Aroclor 1260 #2	5.853	318572	0.000
Aroclor 1260 #3	5.998	200055	0.000
Aroclor 1260 #4	6.165	538668	0.002
Aroclor 1260 #5	7.063	750545	0.003
SURRDCBPCB	8.588	27491998	126.940
Aroclor 1016		2530416	0.027
Aroclor 1260		3585435	0.010

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\121410pcb\011.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\121410pcb.met
User: jjy
Sample ID: 72476,877666,, JJY
Acquired: Dec 14,2010 15:31:07 12M4M10
Printed: Dec 14,2010 19:12:14

Data Summary: {Data Description}



front detector Results

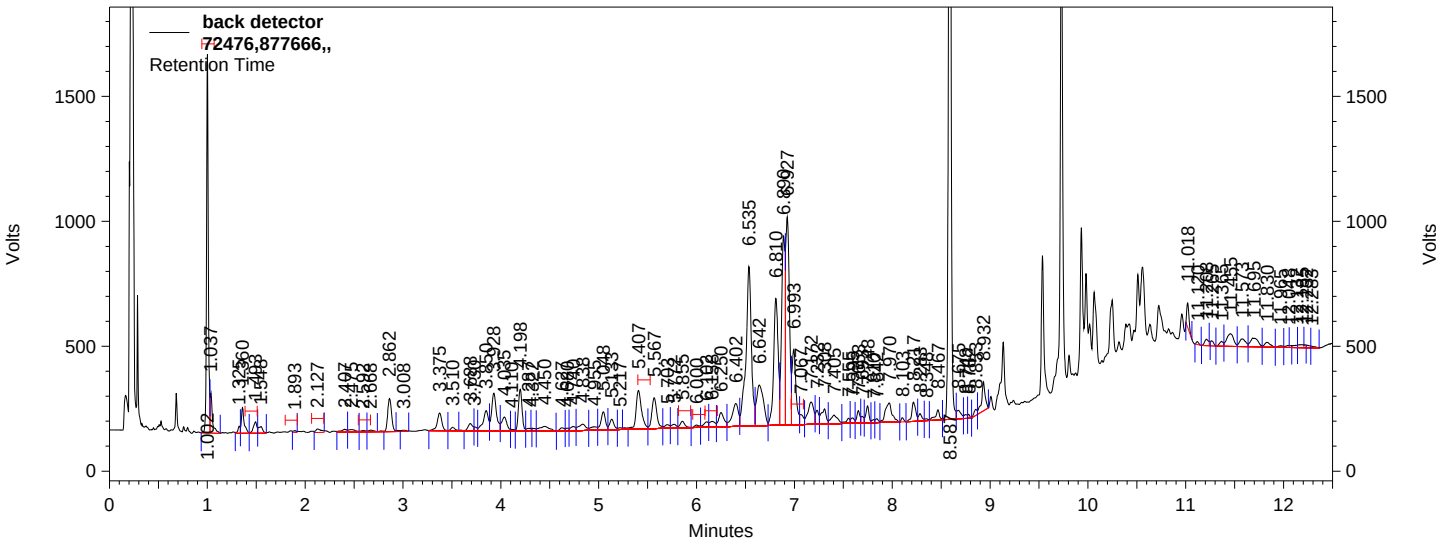
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.315	27315647	72.089
Aroclor 1016 #1	1.675	1125240	0.002
Aroclor 1016 #2	2.425	260085	0.000
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4	3.093	6995082	0.041
Aroclor 1016 #5	3.888	2843250	0.009
Aroclor 1260 #1	5.965	1619130	0.000
Aroclor 1260 #2	6.777	14718560	0.024
Aroclor 1260 #3	7.048	35249689	0.093
Aroclor 1260 #4	7.937	4148689	0.006
Aroclor 1260 #5	8.502	988328	0.000
SURRDCBPCB	9.028	25570110	55.457
Aroclor 1016		11223657	0.052
Aroclor 1260		56724396	0.123

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\121410pcb\011.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\121410pcb.met
User: jjy
Sample ID: 72476,877666,,
Acquired: Dec 14,2010 15:31:07
Printed: Dec 14,2010 19:12:14

JJY
12/14/10

Data Summary: {Data Description}



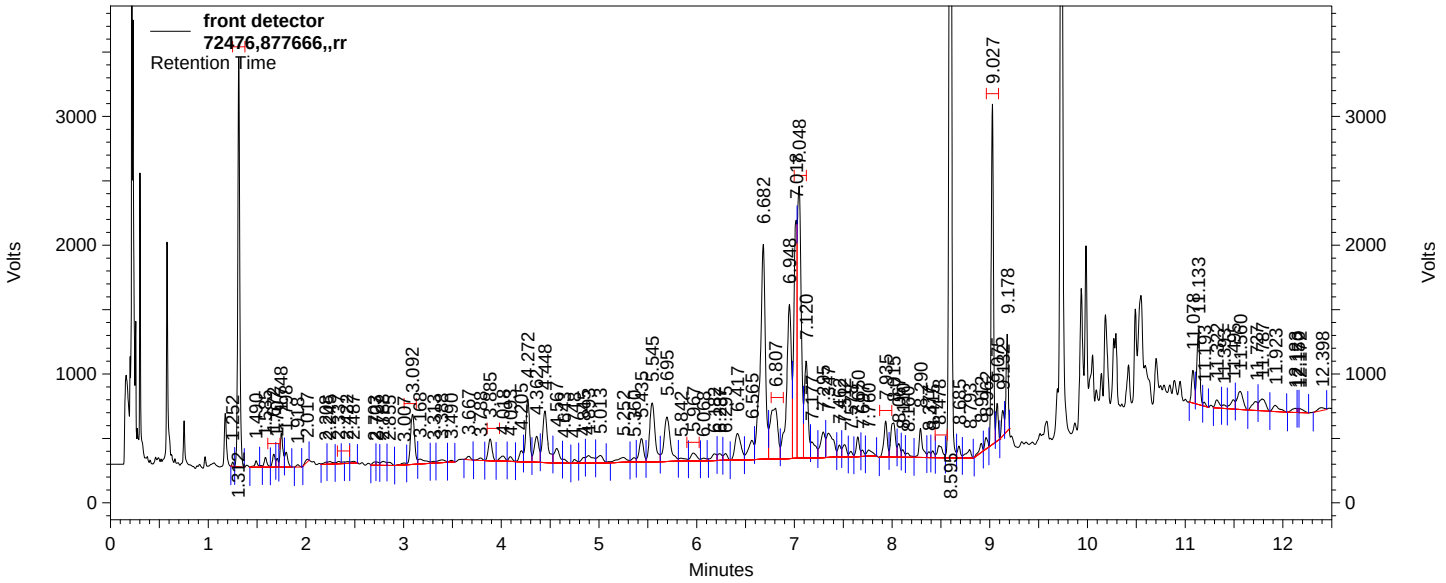
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.002	14714006	74.016
Aroclor 1016 #1	1.493	867519	0.008
Aroclor 1016 #2	1.893	120866	0.000
Aroclor 1016 #3	2.127	418863	0.000
Aroclor 1016 #4	2.592	151956	0.000
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1	5.407	4662999	0.021
Aroclor 1260 #2	5.855	673582	0.000
Aroclor 1260 #3	6.000	236994	0.000
Aroclor 1260 #4	6.158	689918	0.003
Aroclor 1260 #5	7.067	796227	0.004
SURRDCBPCB	8.587	48720130	228.687
Aroclor 1016		1559204	0.008
Aroclor 1260		7059720	0.028

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\121410pcb\026.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\121410pcb.met
User: jjy
Sample ID: 72476,877666,,rr JJY
Acquired: Dec 14,2010 19:25:54 12/14/10
Printed: Dec 14,2010 19:40:37

Data Summary: {Data Description}



front detector Results

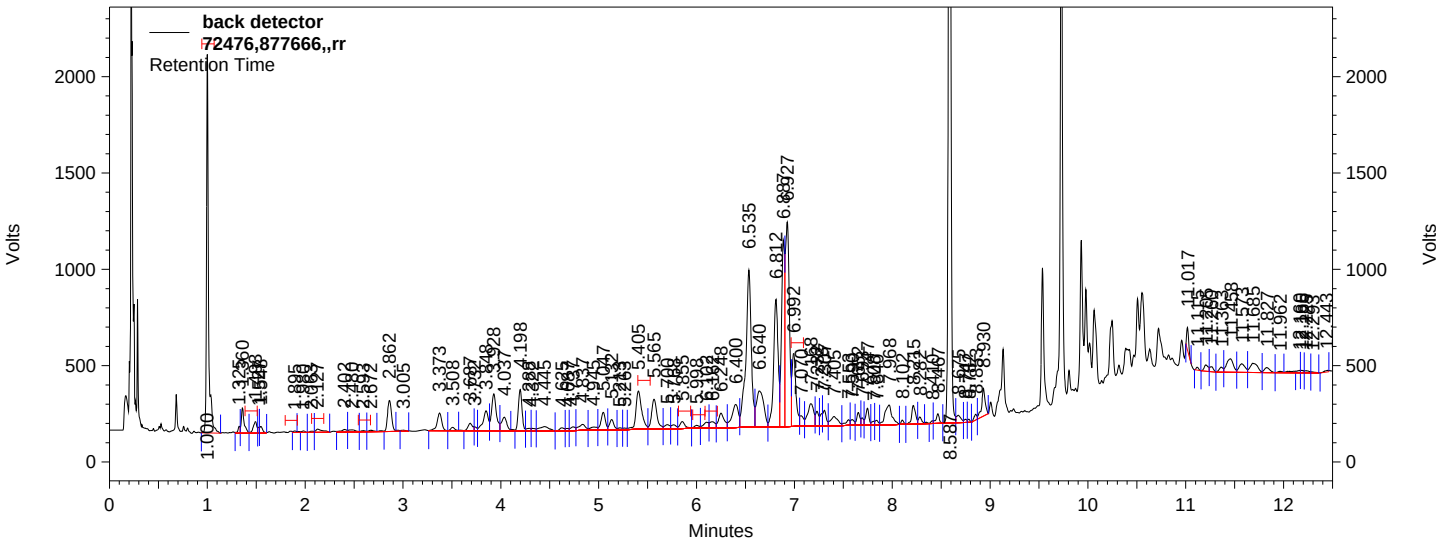
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.312	34772884	92.839
Aroclor 1016 #1	1.672	1412507	0.004
Aroclor 1016 #2	2.422	299267	0.000
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4	3.092	8618755	0.052
Aroclor 1016 #5	3.885	3525910	0.012
Aroclor 1260 #1	5.967	2045128	0.000
Aroclor 1260 #2	6.807	16373006	0.027
Aroclor 1260 #3	7.048	44537069	0.119
Aroclor 1260 #4	7.935	5200235	0.009
Aroclor 1260 #5	8.478	2615828	0.005
SURRDCBPCB	9.027	32089561	70.683
Aroclor 1016		13856439	0.068
Aroclor 1260		70771266	0.159

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\121410pcb\026.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\121410pcb.met
User: jjy
Sample ID: 72476,877666,,rr
Acquired: Dec 14,2010 19:25:54
Printed: Dec 14,2010 19:40:37

JJY
12/14/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.000	21452079	109.120
Aroclor 1016 #1	1.493	1151817	0.012
Aroclor 1016 #2	1.895	136326	0.000
Aroclor 1016 #3	2.127	621154	0.003
Aroclor 1016 #4	2.593	155455	0.000
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1	5.405	6378524	0.031
Aroclor 1260 #2	5.855	1037414	0.000
Aroclor 1260 #3	5.998	419742	0.000
Aroclor 1260 #4	6.162	985022	0.006
Aroclor 1260 #5	6.992	8078176	0.083
SURRDCBPCB	8.587	64800416	305.761
Aroclor 1016		2064752	0.015
Aroclor 1260		16898878	0.120

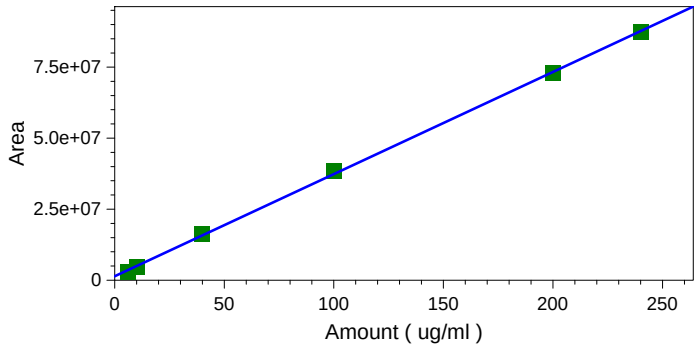
POLYCHLORINATED BIPHENYL
INITIAL CALIBRATION
DOCUMENTS

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:08 PM
User: jjy
Instrument: Semi 7

SURRTCMXPCB (front detector)
Average RF: 409924. RF StDev: 48563.9 RF %RSD: 11.8470
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 359389.x + 1.40759e+006
Goodness of fit (r^2): 0.999609

Peak: SURRTCMXPCB -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	6	10	40	100	200
Area	2877929	4559783	16434860	38431877	72781121
RF	479654.8333 33333	455978.3	410871.5	384318.77	363905.605
Last Area Residual	1.90878	1.22902	-1.81334	-3.01997	1.40338
Rep StDev					
Rep %RSD					
Rep 1 Area	2877929	4559783	16434860	38431877	72781121
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	240	0	0
Area	87556068		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:08 PM
User: jjy
Instrument: Semi 7

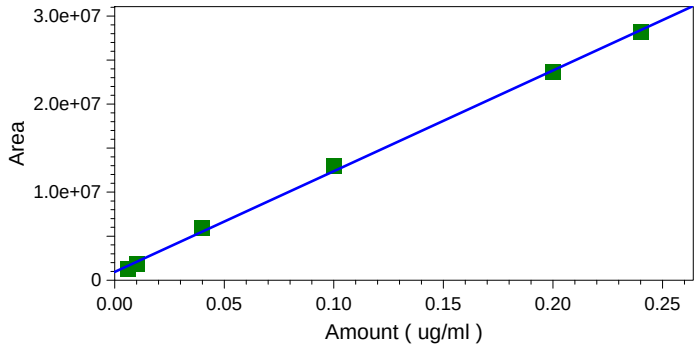
RF	364816.95		
Last Area			
Residual	0.292135	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	87556068		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:18 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #1 (front detector)
Average RF: 1.50168e+008 RF StDev: 3.66359e+007 RF %RSD: 24.3966
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.14417e+008x + 940027.
Goodness of fit (r^2): 0.998771

Peak: Aroclor 1016 #1 -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1247566	1799568	5884651	13008189	23644667
RF	207927666.666667	179956800	147116275	130081890	118223335
Last Area Residual	0.00331212	0.00248765	-0.0032158	-0.00547523	0.0015624
Rep StDev					
Rep %RSD					
Rep 1 Area	1247566	1799568	5884651	13008189	23644667
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	28248069		

Calibration Report

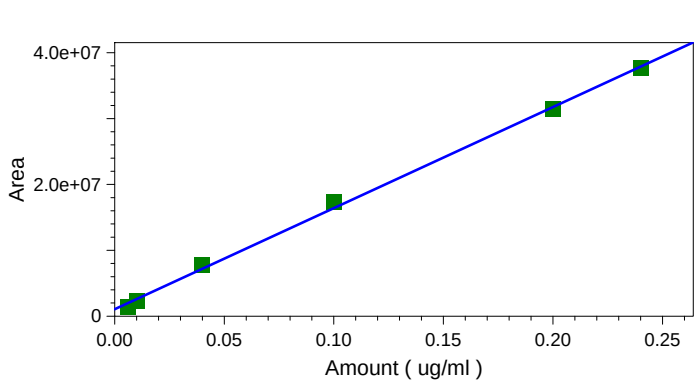
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:18 PM
User: jjy
Instrument: Semi 7

RF	117700287.5		
Last Area			
Residual	0.00132886	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	28248069		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:20 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #2 (front detector)
Average RF: 1.90912e+008 RF StDev: 3.51998e+007 RF %RSD: 18.4377
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.53427e+008x + 1.06944e+006
Goodness of fit (r^2): 0.998687



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1436796	2259816	7716503	17269762	31416964
RF	239466000	225981600	192912575	172697620	157084820
Last Area Residual	0.00360565	0.00224141	-0.00332392	-0.0055897	0.00220235
Rep StDev					
Rep %RSD					
Rep 1 Area	1436796	2259816	7716503	17269762	31416964
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	37759356		
RF	157330650		

Calibration Report

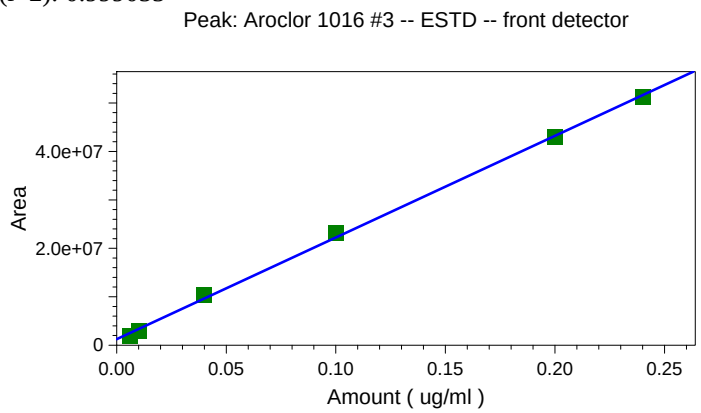
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:20 PM
User: jjy
Instrument: Semi 7

Last Area Residual	0.000864206	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	37759356		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:22 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #3 (front detector)
Average RF: 2.53441e+008 RF StDev: 4.08374e+007 RF %RSD: 16.1131
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.09897e+008x + 1.25326e+006
Goodness of fit (r^2): 0.999055



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1876905	2895686	10288857	23209957	42994055
RF	312817500	289568600	257221425	232099570	214970275
Last Area					
Residual	0.00302882	0.00217511	-0.0030477	-0.00460687	0.00113702
Rep StDev					
Rep %RSD					
Rep 1 Area	1876905	2895686	10288857	23209957	42994055
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	51352880		

Calibration Report

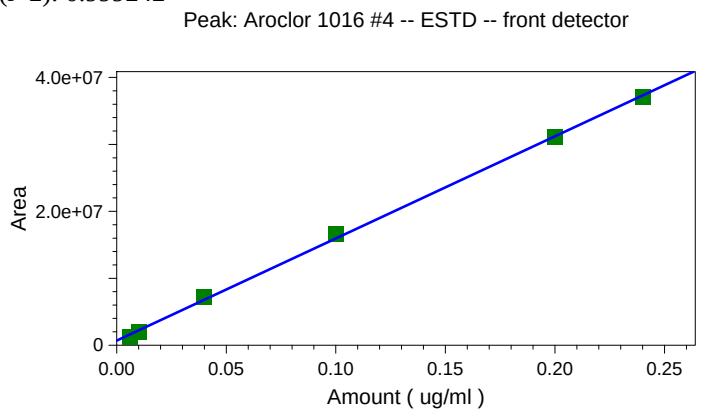
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:22 PM
User: jjy
Instrument: Semi 7

RF	213970333.333333		
Last Area Residual	0.00131361	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	51352880		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:23 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #4 (front detector)
Average RF: 1.74845e+008 RF StDev: 1.93917e+007 RF %RSD: 11.0908
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.52603e+008x + 692075.
Goodness of fit (r^2): 0.999242



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1204209	1928289	7180234	16608554	31023058
RF	200701500	192828900	179505850	166085540	155115290
Last Area					
Residual	0.00264402	0.00189917	-0.00251646	-0.0042996	0.00124315
Rep StDev					
Rep %RSD					
Rep 1 Area	1204209	1928289	7180234	16608554	31023058
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	37159767		
RF	154832362.5		

Calibration Report

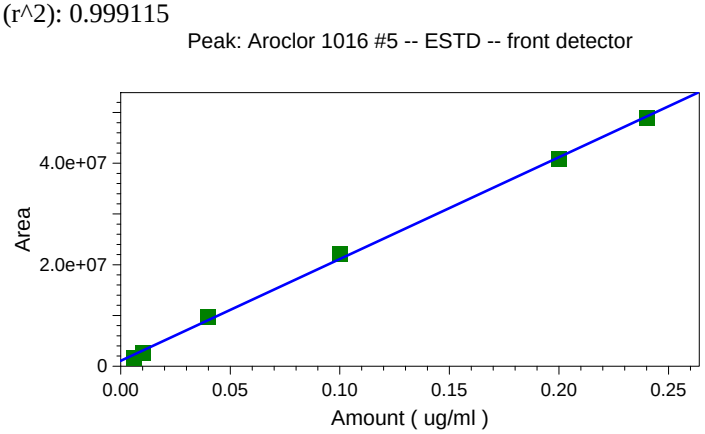
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:23 PM
User: jjy
Instrument: Semi 7

Last Area Residual	0.00102972	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	37159767		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:25 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #5 (front detector)
Average RF: 2.36971e+008 RF StDev: 3.30039e+007 RF %RSD: 13.9274
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.00561e+008x + 1.08111e+006
Goodness of fit (r^2): 0.999115



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1690163	2688988	9684220	22038454	40899230
RF	281693833.333333	268898800	242105500	220384540	204496150
Last Area Residual	0.00296324	0.00198309	-0.00289524	-0.00449364	0.00146625
Rep StDev					
Rep %RSD					
Rep 1 Area	1690163	2688988	9684220	22038454	40899230
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	49019931		

Calibration Report

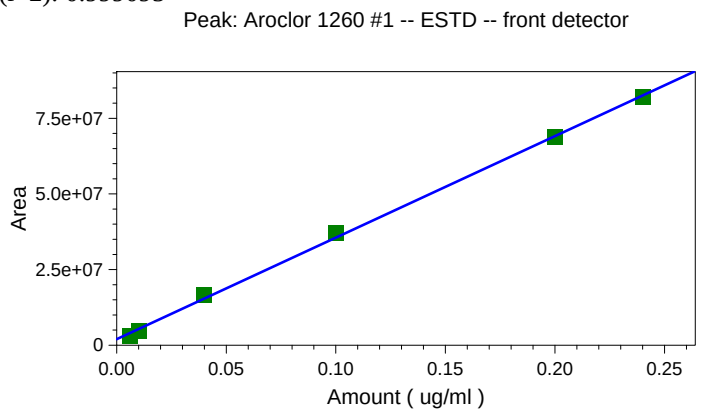
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:25 PM
User: jjy
Instrument: Semi 7

RF	204249712.5		
Last Area			
Residual	0.000976309	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	49019931		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:27 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #1 (front detector)
Average RF: 4.04385e+008 RF StDev: 6.40232e+007 RF %RSD: 15.8322
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 3.35734e+008x + 1.97503e+006
Goodness of fit (r^2): 0.999095



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	2967150	4641853	16469767	37005910	68644416
RF	494525000	464185300	411744175	370059100	343222080
Last Area					
Residual	0.00304492	0.00205673	-0.0031733	-0.00434124	0.00142188
Rep StDev					
Rep %RSD					
Rep 1 Area	2967150	4641853	16469767	37005910	68644416
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	82218423		
RF	342576762.5		

Calibration Report

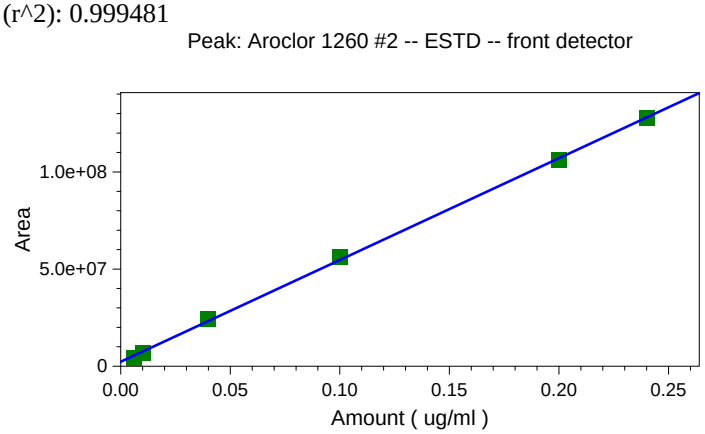
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:27 PM
User: jjy
Instrument: Semi 7

Last Area Residual	0.000991015	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	82218423		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:28 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #2 (front detector)
Average RF: 6.03637e+008 RF StDev: 7.50956e+007 RF %RSD: 12.4405
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 5.23996e+008x + 2.25239e+006
Goodness of fit (r^2): 0.999481



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	4248998	6762092	24422735	56329083	106040622
RF	708166333.333333	676209200	610568375	563290830	530203110
Last Area Residual	0.00218966	0.00139364	-0.00231011	-0.00320052	0.00192946
Rep StDev					
Rep %RSD					
Rep 1 Area	4248998	6762092	24422735	56329083	106040622
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	128012621		

Calibration Report

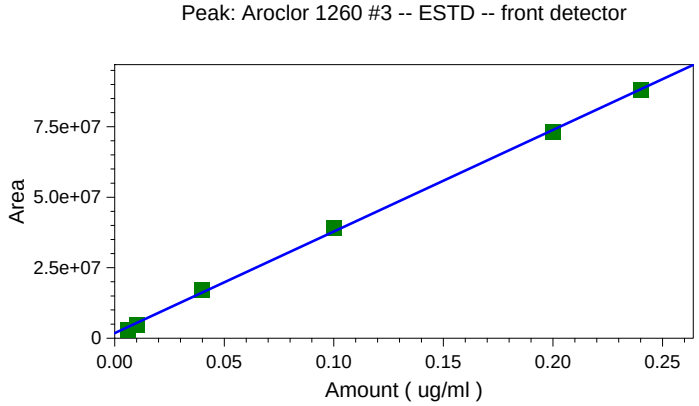
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:28 PM
User: jjy
Instrument: Semi 7

RF	533385920.833333		
Last Area Residual	-2.12746e-006	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	128012621		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:29 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #3 (front detector)
Average RF: 4.23965e+008 RF StDev: 6.01306e+007 RF %RSD: 14.1829
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 3.60264e+008x + 1.79527e+006
Goodness of fit (r^2): 0.999352



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	3043849	4821521	17225866	39043186	73128124
RF	507308166.666667	482152100	430646650	390431860	365640620
Last Area					
Residual	0.00253427	0.00159991	-0.00283133	-0.00339054	0.00199853
Rep StDev					
Rep %RSD					
Rep 1 Area	3043849	4821521	17225866	39043186	73128124
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	88226577		

Calibration Report

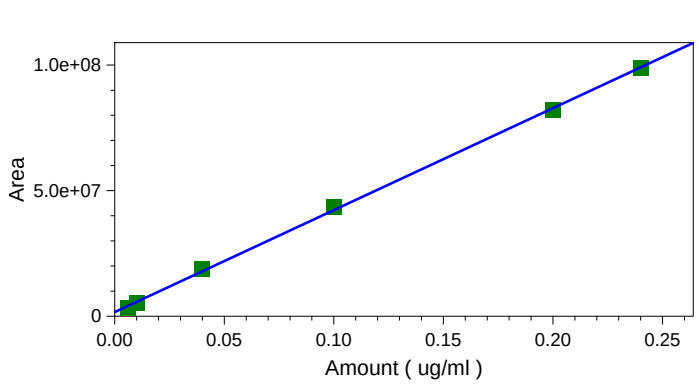
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:29 PM
User: jjy
Instrument: Semi 7

RF	367610737.5		
Last Area			
Residual	8.91488e-005	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	88226577		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:31 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #4 (front detector)
Average RF: 4.64141e+008 RF StDev: 5.47042e+007 RF %RSD: 11.7861
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 4.05968e+008x + 1.64790e+006
Goodness of fit (r^2): 0.999560



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	3244495	5152417	18873016	43341850	82171126
RF	540749166.666667	515241700	471825400	433418500	410855630
Last Area Residual	0.00206719	0.00136751	-0.00242973	-0.00270254	0.00165133
Rep StDev					
Rep %RSD					
Rep 1 Area	3244495	5152417	18873016	43341850	82171126
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	99061458		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:31 PM
User: jjy
Instrument: Semi 7

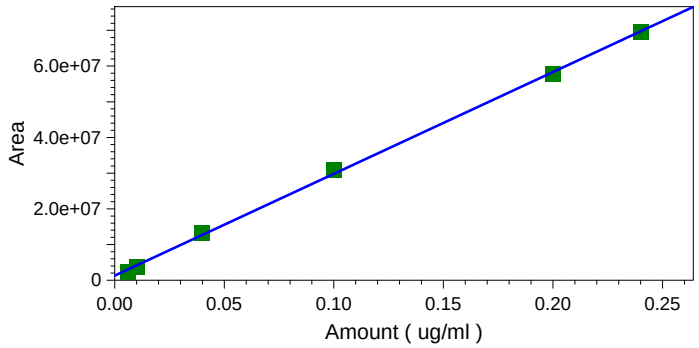
RF	412756075		
Last Area Residual	4.62493e-005	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	99061458		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:33 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #5 (front detector)
Average RF: 3.31521e+008 RF StDev: 4.49872e+007 RF %RSD: 13.5700
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.85046e+008x + 1.30478e+006
Goodness of fit (r^2): 0.999380

Peak: Aroclor 1260 #5 -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	2407248	3662156	13358952	30874088	57716532
RF	401208000	366215600	333973800	308740880	288582660
Last Area					
Residual	0.00213232	0.00172984	-0.00228855	-0.00373532	0.00209577
Rep StDev					
Rep %RSD					
Rep 1 Area	2407248	3662156	13358952	30874088	57716532
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	69696952		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:33 PM
User: jjy
Instrument: Semi 7

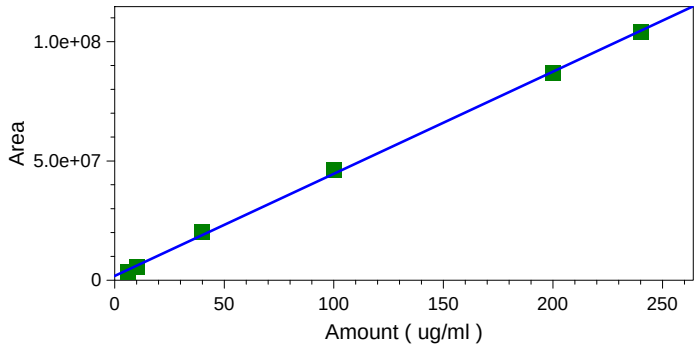
RF	290403966.666667		
Last Area Residual	6.59486e-005	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	69696952		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:34 PM
User: jjy
Instrument: Semi 7

SURRDCBPCB (front detector)
Average RF: 488559. RF StDev: 53917.1 RF %RSD: 11.0359
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 428182.x + 1.82446e+006
Goodness of fit (r^2): 0.999415

Peak: SURRDCBPCB -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	6	10	40	100	200
Area	3372288	5376940	20041686	46141114	86934739
RF	562048	537694	501042.15	461411.14	434673.695
Last Area					
Residual	2.38511	1.70334	-2.54551	-3.49953	1.22882
Rep StDev					
Rep %RSD					
Rep 1 Area	3372288	5376940	20041686	46141114	86934739
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	240	0	0
Area	104276569		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:34 PM
User: jjy
Instrument: Semi 7

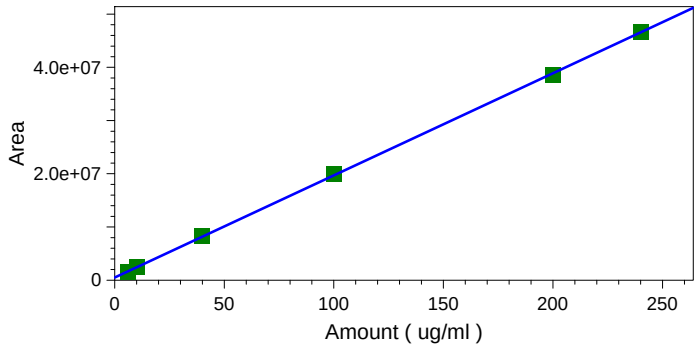
RF	434485.704166667		
Last Area Residual	0.72777	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	104276569		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:42 PM
User: jjy
Instrument: Semi 7

SURRTCMXPCB (back detector)
Average RF: 214143. RF StDev: 24729.6 RF %RSD: 11.5482
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 191947.x + 506835.
Goodness of fit (r^2): 0.999883

Peak: SURRTCMXPCB -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	6	10	40	100	200
Area	1500033	2401761	8319713	19905994	38574203
RF	250005.5	240176.1	207992.825	199059.94	192871.015
Last Area					
Residual	0.825677	0.127888	-0.703232	-1.065	1.67808
Rep StDev					
Rep %RSD					
Rep 1 Area	1500033	2401761	8319713	19905994	38574203
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	240	0	0
Area	46739931		
RF	194749.7125		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:42 PM
User: jjy
Instrument: Semi 7

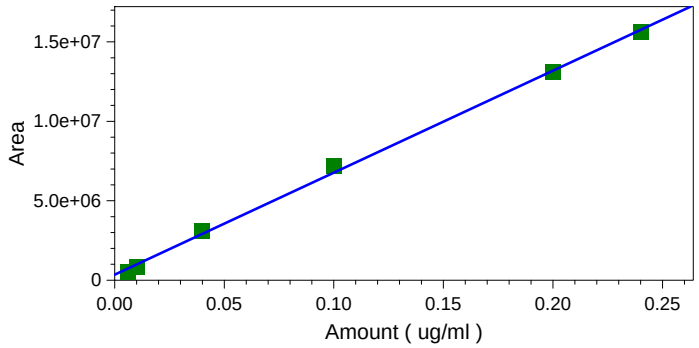
Last Area Residual	-0.863417	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	46739931		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:44 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #1 (back detector)
Average RF: 7.46394e+007 RF StDev: 8.58048e+006 RF %RSD: 11.4959
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 6.41964e+007x + 349472.
Goodness of fit (r^2): 0.998551

Peak: Aroclor 1016 #1 -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	514334	819548	3111055	7172910	13084053
RF	85722333.3333	81954800	77776375	71729100	65420265
Last Area Residual	0.00343191	0.00267753	-0.00301771	-0.00628999	0.00163103
Rep StDev					
Rep %RSD					
Rep 1 Area	514334	819548	3111055	7172910	13084053
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	15656006		

Calibration Report

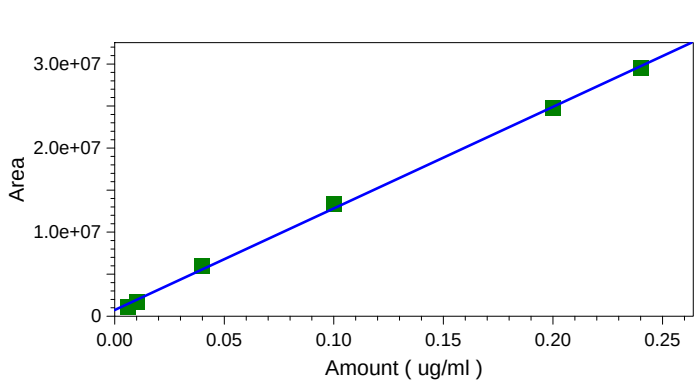
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:44 PM
User: jjy
Instrument: Semi 7

RF	65233358.3333333		
Last Area Residual	0.00156723	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	15656006		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:46 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #2 (back detector)
Average RF: 1.45923e+008 RF StDev: 2.31237e+007 RF %RSD: 15.8466
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.20901e+008x + 726875.
Goodness of fit (r^2): 0.999015



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1063602	1691735	5922796	13396294	24757646
RF	177267000	169173500	148069900	133962940	123788230
Last Area					
Residual	0.00321485	0.00201942	-0.00297668	-0.00479172	0.00123589
Rep StDev					
Rep %RSD					
Rep 1 Area	1063602	1691735	5922796	13396294	24757646
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	29586145		

Calibration Report

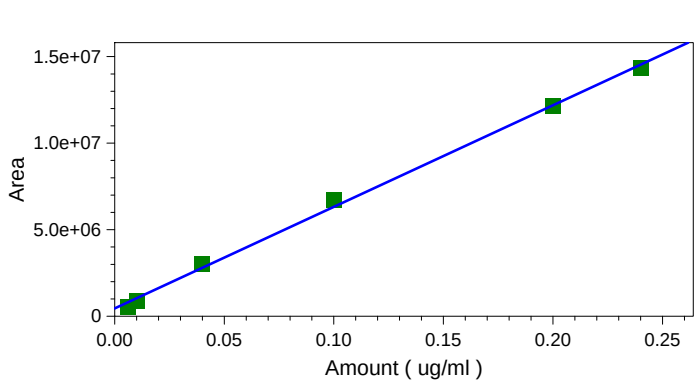
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:46 PM
User: jjy
Instrument: Semi 7

RF	123275604.166667		
Last Area Residual	0.00129824	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	29586145		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:47 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #3 (back detector)
Average RF: 7.36696e+007 RF StDev: 1.35531e+007 RF %RSD: 18.3972
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 5.87051e+007x + 449133.
Goodness of fit (r^2): 0.998169



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	557648	856764	3026584	6700644	12167843
RF	92941333.3333333	85676400	75664600	67006440	60839215
Last Area Residual	0.00415152	0.00305629	-0.00390504	-0.00649001	0.000380177
Rep StDev					
Rep %RSD					
Rep 1 Area	557648	856764	3026584	6700644	12167843
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	14373578		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:47 PM
User: jjy
Instrument: Semi 7

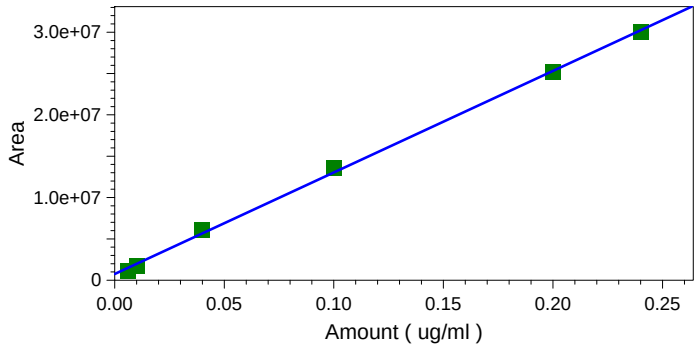
RF	59889908.3333333		
Last Area Residual	0.00280706	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	14373578		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:49 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #4 (back detector)
Average RF: 1.47949e+008 RF StDev: 2.28433e+007 RF %RSD: 15.4400
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.22891e+008x + 738798.
Goodness of fit (r^2): 0.998948

Peak: Aroclor 1016 #4 -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1073011	1703777	6046183	13626659	25138760
RF	178835166.666667	170377700	151154575	136266590	125693800
Last Area Residual	0.00328041	0.0021477	-0.00318765	-0.00487207	0.00145081
Rep StDev					
Rep %RSD					
Rep 1 Area	1073011	1703777	6046183	13626659	25138760
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	30087592		

Calibration Report

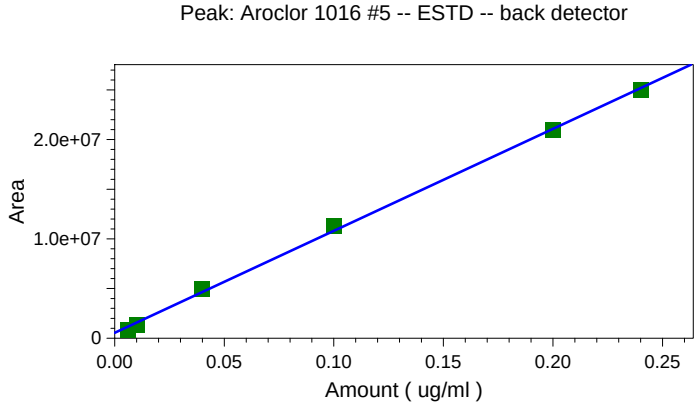
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:49 PM
User: jjy
Instrument: Semi 7

RF	125364966.666667		
Last Area Residual	0.0011808	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	30087592		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:50 PM
User: jjy
Instrument: Semi 7

Aroclor 1016 #5 (back detector)
Average RF: 1.20163e+008 RF StDev: 1.55174e+007 RF %RSD: 12.9136
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.02675e+008x + 539169.
Goodness of fit (r^2): 0.999047



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	855088	1322408	4973605	11271876	20965117
RF	142514666.666667	132240800	124340125	112718760	104825585
Last Area Residual	0.00292313	0.0023717	-0.00318885	-0.00453039	0.00106302
Rep StDev					
Rep %RSD					
Rep 1 Area	855088	1322408	4973605	11271876	20965117
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	25041500		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:50 PM
User: jjy
Instrument: Semi 7

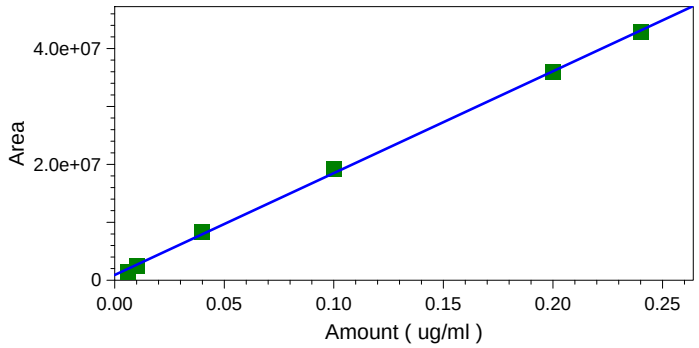
RF	104339583.333333		
Last Area Residual	0.00136139	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	25041500		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:52 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #1 (back detector)
Average RF: 2.07568e+008 RF StDev: 2.98179e+007 RF %RSD: 14.3653
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.75921e+008x + 899304.
Goodness of fit (r^2): 0.999359

Peak: Aroclor 1260 #1 -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1495406	2365259	8389496	19146167	35898821
RF	249234333.333333	236525900	209737400	191461670	179494105
Last Area Residual	0.00261153	0.00166697	-0.00257705	-0.00372199	0.00104967
Rep StDev					
Rep %RSD					
Rep 1 Area	1495406	2365259	8389496	19146167	35898821
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	42949519		

Calibration Report

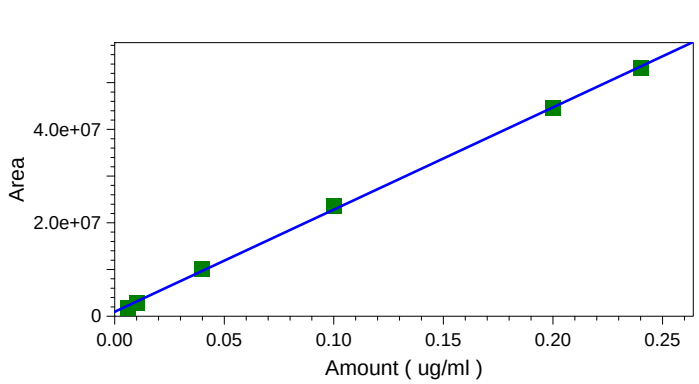
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:52 PM
User: jjy
Instrument: Semi 7

RF	178956329.166667		
Last Area Residual	0.000970867	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	42949519		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:53 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #2 (back detector)
Average RF: 2.52467e+008 RF StDev: 3.18306e+007 RF %RSD: 12.6078
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.18801e+008x + 955756.
Goodness of fit (r^2): 0.999525



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	1783959	2832875	10156128	23567247	44537294
RF	297326500	283287500	253903200	235672470	222686470
Last Area					
Residual	0.00221482	0.0014209	-0.00204897	-0.00334255	0.000816887
Rep StDev					
Rep %RSD					
Rep 1 Area	1783959	2832875	10156128	23567247	44537294
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	53262650		

Calibration Report

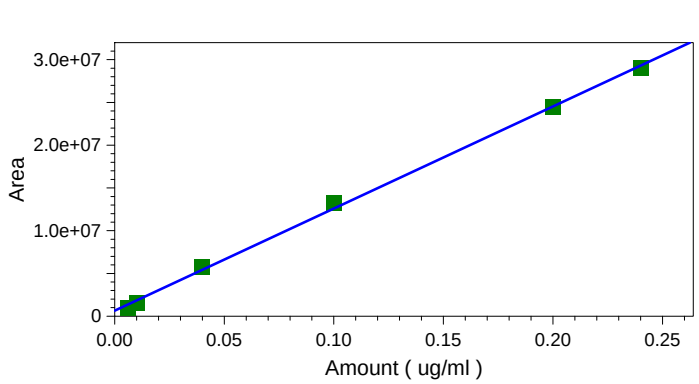
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:53 PM
User: jjy
Instrument: Semi 7

RF	221927708.333333		
Last Area Residual	0.000938909	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	53262650		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:55 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #3 (back detector)
Average RF: 1.39803e+008 RF StDev: 1.74952e+007 RF %RSD: 12.5142
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.19451e+008x + 643298.
Goodness of fit (r^2): 0.998897



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	973647	1569778	5758195	13218890	24443656
RF	162274500	156977800	143954875	132188900	122218280
Last Area					
Residual	0.00323443	0.00224383	-0.00282013	-0.00527845	0.00075175
Rep StDev					
Rep %RSD					
Rep 1 Area	973647	1569778	5758195	13218890	24443656
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	29088283		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:55 PM
User: jjy
Instrument: Semi 7

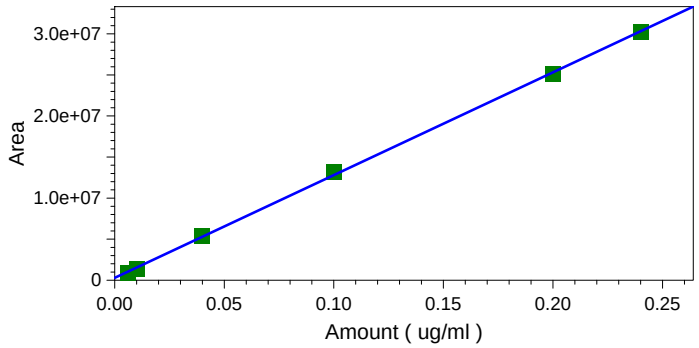
RF	121201179.166667		
Last Area Residual	0.00186856	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	29088283		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:56 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #4 (back detector)
Average RF: 1.34064e+008 RF StDev: 7.58546e+006 RF %RSD: 5.65809
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.25064e+008x + 294834.
Goodness of fit (r^2): 0.999684

Peak: Aroclor 1260 #4 -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	866530	1402606	5443202	13177550	25128344
RF	144421666.666667	140260600	136080050	131775500	125641720
Last Area Residual	0.00142877	0.00114236	-0.00116585	-0.00300894	0.00143367
Rep StDev					
Rep %RSD					
Rep 1 Area	866530	1402606	5443202	13177550	25128344
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	0.24	0	0
Area	30288948		

Calibration Report

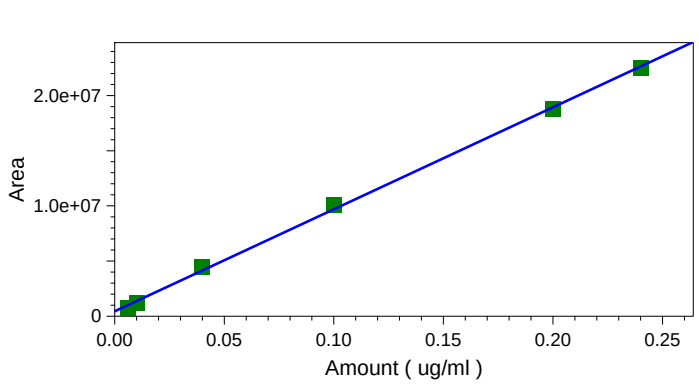
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:56 PM
User: jjy
Instrument: Semi 7

RF	126203950		
Last Area			
Residual	0.000169989	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	30288948		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:57 PM
User: jjy
Instrument: Semi 7

Aroclor 1260 #5 (back detector)
Average RF: 1.06283e+008 RF StDev: 1.16096e+007 RF %RSD: 10.9233
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 9.24869e+007x + 444768.
Goodness of fit (r^2): 0.999109



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.04	0.1	0.2
Area	711768	1194390	4425357	10098414	18811261
RF	118628000	119439000	110633925	100984140	94056305
Last Area					
Residual	0.0031131	0.00189483	-0.00303948	-0.0043785	0.00141525
Rep StDev					
Rep %RSD					
Rep 1 Area	711768	1194390	4425357	10098414	18811261
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7
Amount	0.24	0
Area	22549624	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:57 PM
User: jjy
Instrument: Semi 7

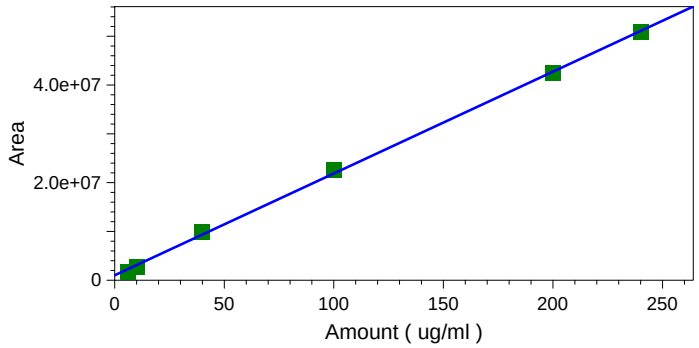
RF	93956766.6666667	
Last Area Residual	0.000994801	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	22549624	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat	
Rep 1 Sample ID	PCB ICAL 6 PP 3041	
Rep 1 Calib. Time	11/11/2010 7:19:27 PM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:59 PM
User: jjy
Instrument: Semi 7

SURRDCBPCB (back detector)
Average RF: 243420. RF StDev: 32164.9 RF %RSD: 13.2137
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 208635.x + 1.00792e+006
Goodness of fit (r^2): 0.999350

Peak: SURRDCBPCB -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	6	10	40	100	200
Area	1728737	2735270	9930367	22617594	42408969
RF	288122.8333 33333	273527	248259.175	226175.94	212044.845
Last Area Residual	2.54508	1.72072	-2.76574	-3.57624	1.56272
Rep StDev					
Rep %RSD					
Rep 1 Area	1728737	2735270	9930367	22617594	42408969
Rep 1 User	jjy	jjy	jjy	jjy	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\003.dat	C:\Instarch\Semi7\Data\111110pcbic\004.dat	C:\Instarch\Semi7\Data\111110pcbic\005.dat	C:\Instarch\Semi7\Data\111110pcbic\006.dat	C:\Instarch\Semi7\Data\111110pcbic\007.dat
Rep 1 Sample ID	PCB ICAL 1 PP 3036	PCB ICAL 2 PP 3037	PCB ICAL 3 PP 3038	PCB ICAL 4 PP 3039	PCB ICAL 5 PP 3040
Rep 1 Calib. Time	11/11/2010 7:18:34 PM	11/11/2010 7:18:46 PM	11/11/2010 7:18:56 PM	11/11/2010 7:19:07 PM	11/11/2010 7:19:17 PM

	Level 6	Level 7	Level 11
Amount	240	0	0
Area	50973300		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
Print Time: 11/17/2010 1:44:59 PM
User: jjy
Instrument: Semi 7

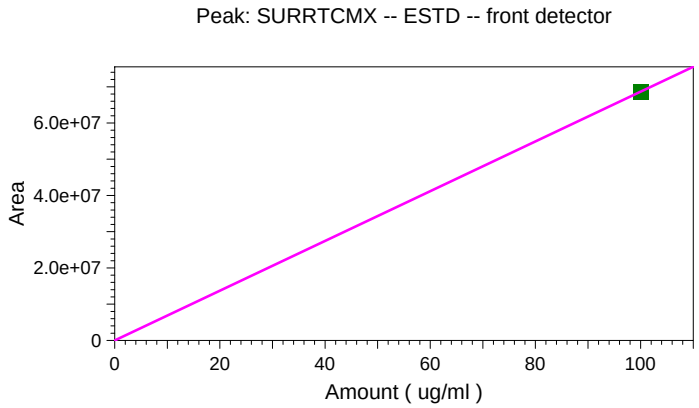
RF	212388.75		
Last Area			
Residual	0.513464	N/A	N/A
Rep StDev			
Rep %RSD			
Rep 1 Area	50973300		
Rep 1 User	jjy		
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\008.dat		
Rep 1 Sample ID	PCB ICAL 6 PP 3041		
Rep 1 Calib. Time	11/11/2010 7:19:27 PM		

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:45:34 PM
User: jjy
Instrument: Semi 7

SURRTCMX (front detector)
Average RF: 686464.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 686464.



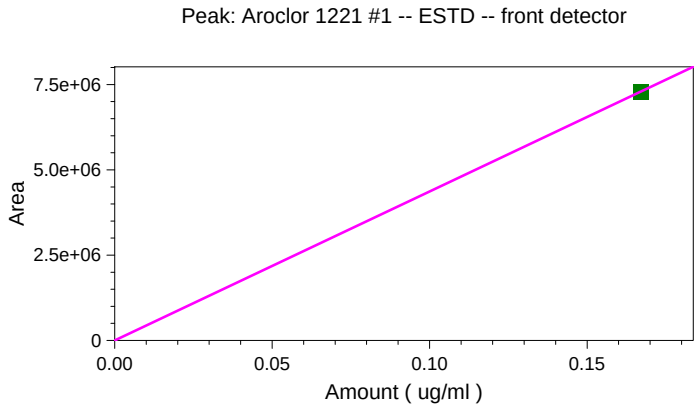
	Level 1	Level 11
Amount	100	0
Area	68646412	
RF	686464.12	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	68646412	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:45:46 PM
User: jjy
Instrument: Semi 7

Aroclor 1221 #1 (front detector)
Average RF: 4.36660e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 4.36660e+007



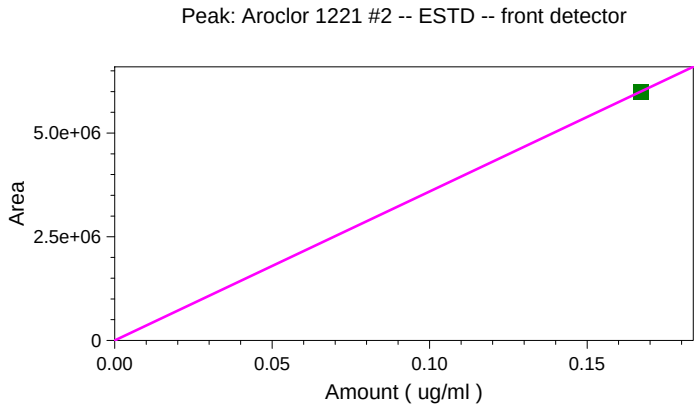
	Level 1	Level 11
Amount	0.167	0
Area	7292227	
RF	43666029.9401198	
Last Area Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	7292227	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:45:50 PM
User: jjy
Instrument: Semi 7

Aroclor 1221 #2 (front detector)
Average RF: 3.59187e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.59187e+007



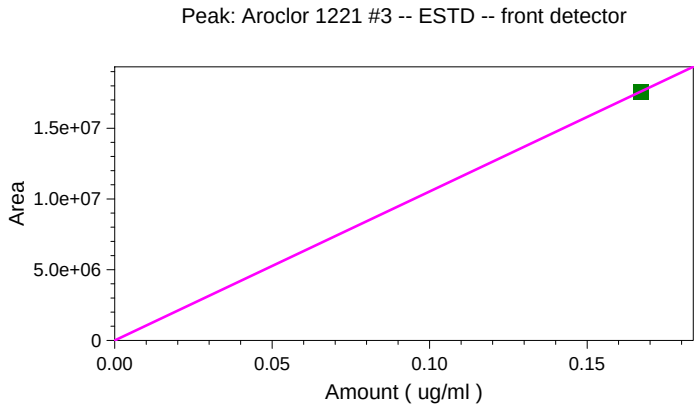
	Level 1	Level 11
Amount	0.167	0
Area	5998423	
RF	35918700.59 88024	
Last Area Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	5998423	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:45:54 PM
User: jjy
Instrument: Semi 7

Aroclor 1221 #3 (front detector)
Average RF: 1.05289e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.05289e+008



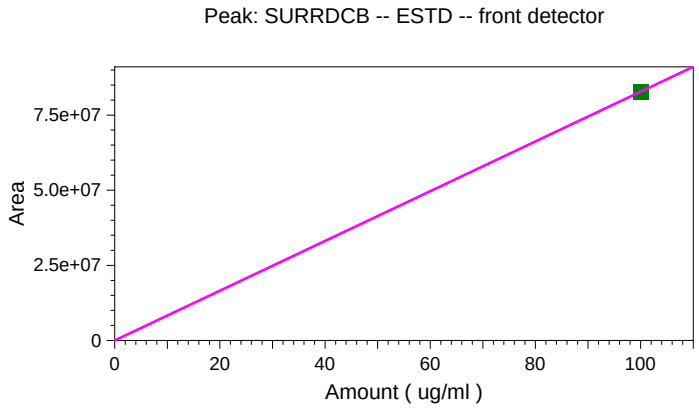
	Level 1	Level 11
Amount	0.167	0
Area	17583296	
RF	105289197.60479	
Last Area Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	17583296	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:45:58 PM
User: jjy
Instrument: Semi 7

SURRDCB (front detector)
Average RF: 828015.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 828015.



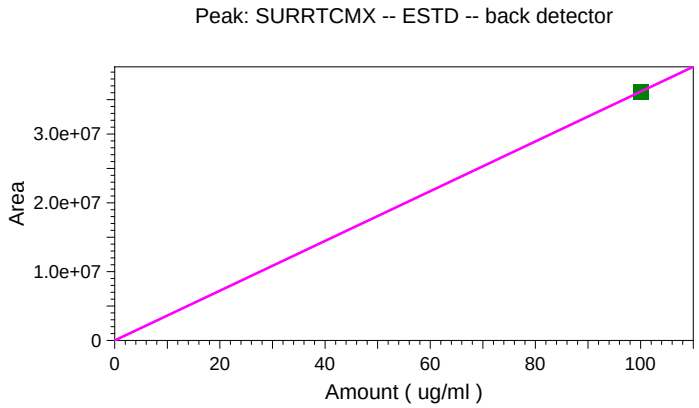
	Level 1	Level 11
Amount	100	0
Area	82801517	
RF	828015.17	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	82801517	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:46:11 PM
User: jjy
Instrument: Semi 7

SURRTCMX (back detector)
Average RF: 361587.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 361587.



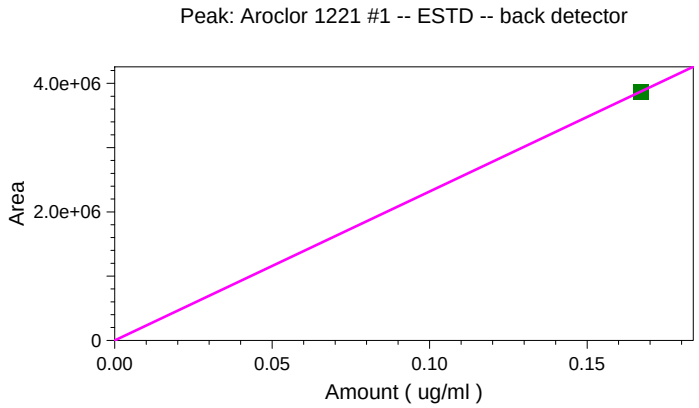
	Level 1	Level 11
Amount	100	0
Area	36158697	
RF	361586.97	
Last Area Residual	-1.42109e-014	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	36158697	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:46:15 PM
User: jjy
Instrument: Semi 7

Aroclor 1221 #1 (back detector)
Average RF: 2.31803e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.31803e+007



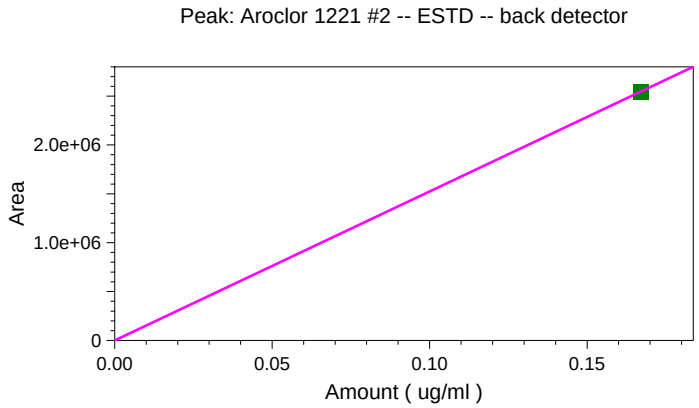
	Level 1	Level 11
Amount	0.167	0
Area	3871112	
RF	23180311.37	
	72455	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	3871112	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:46:18 PM
User: jjy
Instrument: Semi 7

Aroclor 1221 #2 (back detector)
Average RF: 1.52432e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.52432e+007



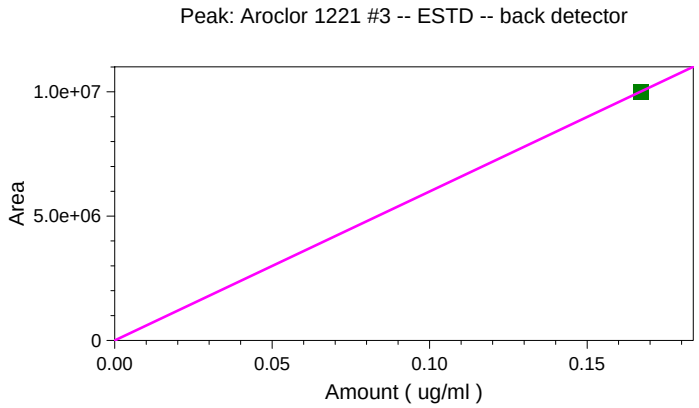
	Level 1	Level 11
Amount	0.167	0
Area	2545612	
RF	15243185.6287425	
Last Area Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	2545612	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:46:22 PM
User: jjy
Instrument: Semi 7

Aroclor 1221 #3 (back detector)
Average RF: 5.99325e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.99325e+007



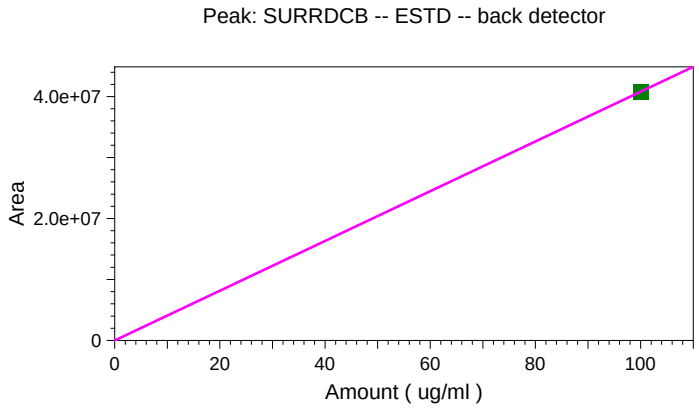
	Level 1	Level 11
Amount	0.167	0
Area	10008734	
RF	59932538.92	
	21557	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	10008734	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
Print Time: 11/17/2010 1:46:25 PM
User: jjy
Instrument: Semi 7

SURRDCB (back detector)
Average RF: 408015.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 408015.



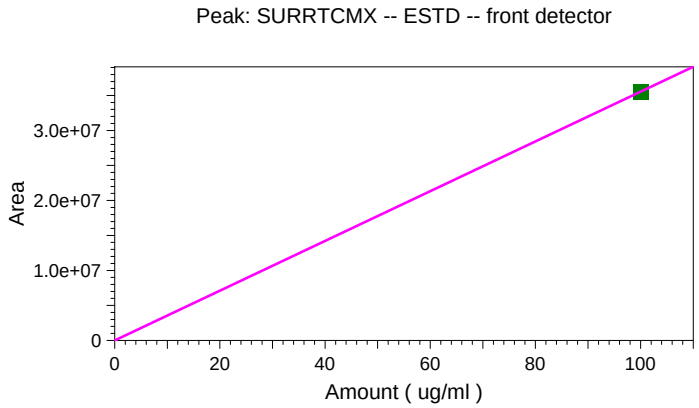
	Level 1	Level 11
Amount	100	0
Area	40801469	
RF	408014.69	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	40801469	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\012.dat	
Rep 1 Sample ID	PCB 1221 CF PP 3068	
Rep 1 Calib. Time	11/12/2010 8:49:12 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:19 PM
User: jjy
Instrument: Semi 7

SURRTCMX (front detector)
Average RF: 355444.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 355444.



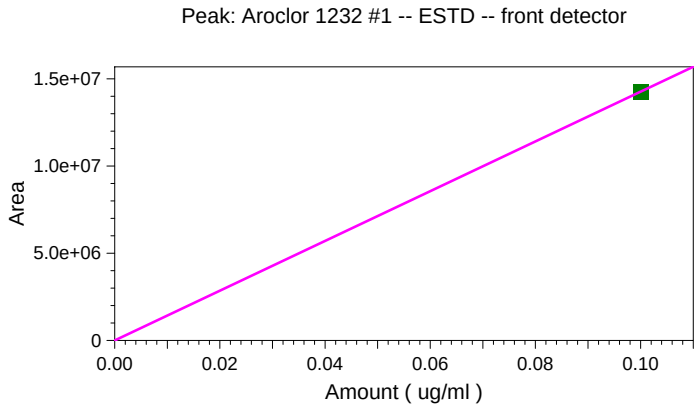
	Level 1	Level 11
Amount	100	0
Area	35544398	
RF	355443.98	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	35544398	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:25 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #1 (front detector)
Average RF: 1.42647e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.42647e+008



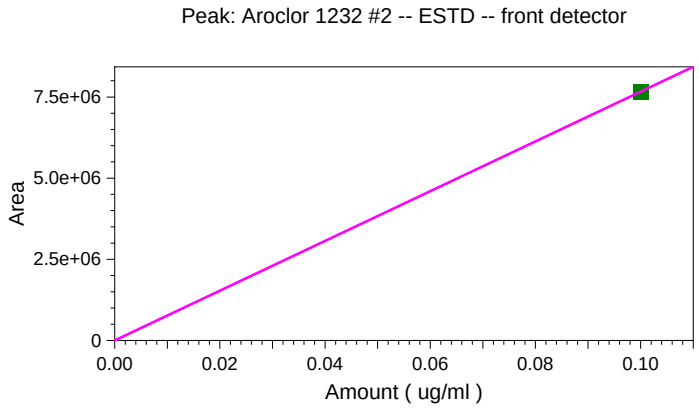
	Level 1	Level 11
Amount	0.1	0
Area	14264739	
RF	142647390	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	14264739	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:28 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #2 (front detector)
Average RF: 7.66580e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 7.66580e+007



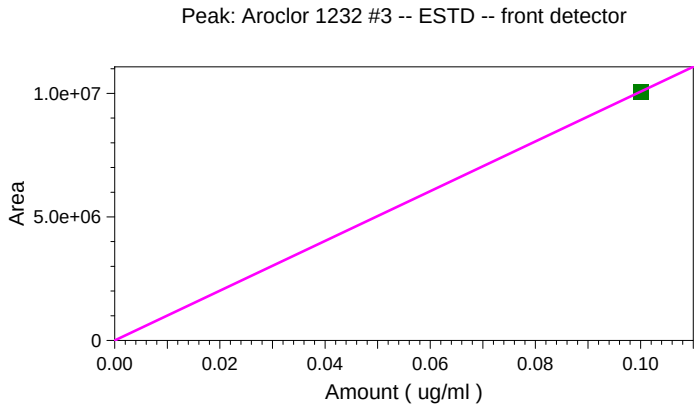
	Level 1	Level 11
Amount	0.1	0
Area	7665796	
RF	76657960	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	7665796	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:31 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #3 (front detector)
Average RF: 1.00700e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.00700e+008



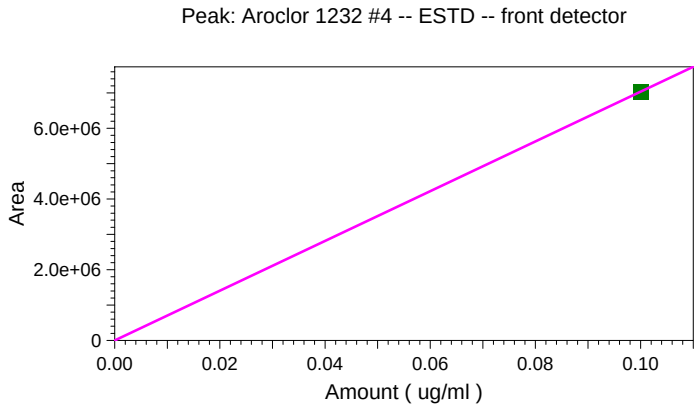
	Level 1	Level 11
Amount	0.1	0
Area	10070000	
RF	100700000	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	10070000	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:35 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #4 (front detector)
Average RF: 7.03684e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 7.03684e+007



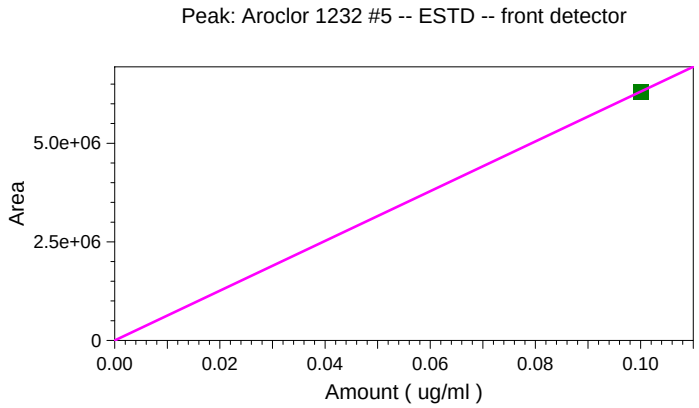
	Level 1	Level 11
Amount	0.1	0
Area	7036843	
RF	70368430	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	7036843	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:40 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #5 (front detector)
Average RF: 6.30867e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 6.30867e+007



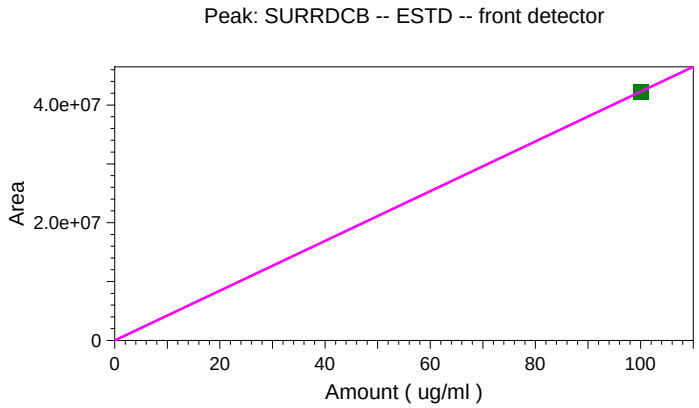
	Level 1
Amount	0.1
Area	6308673
RF	63086730
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	6308673
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat
Rep 1 Sample ID	PCB 1232 CF PP 3042
Rep 1 Calib. Time	11/12/2010 8:49:35 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:45 PM
User: jjy
Instrument: Semi 7

SURRDCB (front detector)
Average RF: 422636.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 422636.



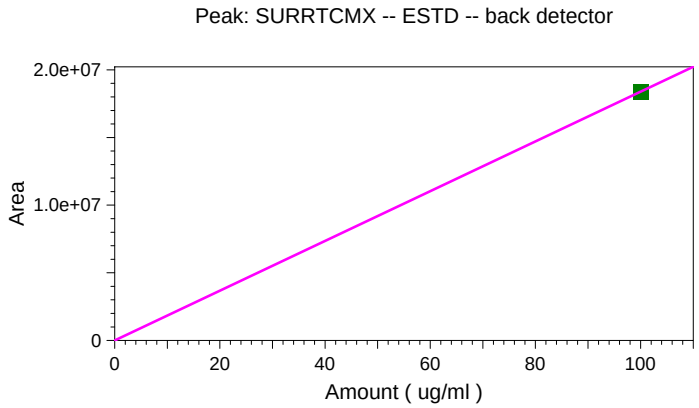
	Level 1
Amount	100
Area	42263613
RF	422636.13
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	42263613
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat
Rep 1 Sample ID	PCB 1232 CF PP 3042
Rep 1 Calib. Time	11/12/2010 8:49:35 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:54 PM
User: jjy
Instrument: Semi 7

SURRTCMX (back detector)
Average RF: 183880.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 183880.



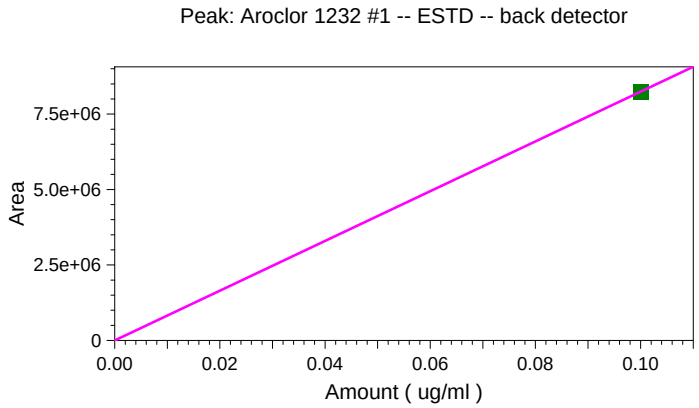
	Level 1	Level 11
Amount	100	0
Area	18388009	
RF	183880.09	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	18388009	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:47:58 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #1 (back detector)
Average RF: 8.24204e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 8.24204e+007



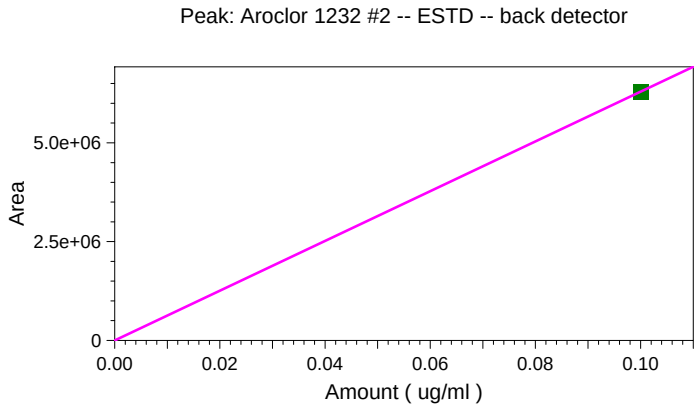
	Level 1	Level 11
Amount	0.1	0
Area	8242035	
RF	82420350	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	8242035	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:48:01 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #2 (back detector)
Average RF: 6.29390e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 6.29390e+007



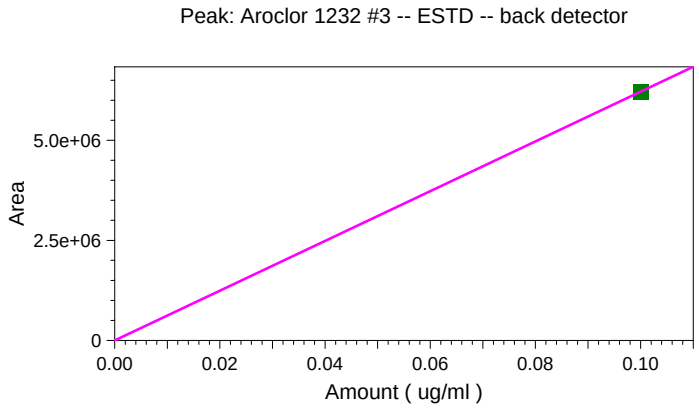
	Level 1	Level 11
Amount	0.1	0
Area	6293900	
RF	62939000	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	6293900	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:48:05 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #3 (back detector)
Average RF: 6.21431e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 6.21431e+007



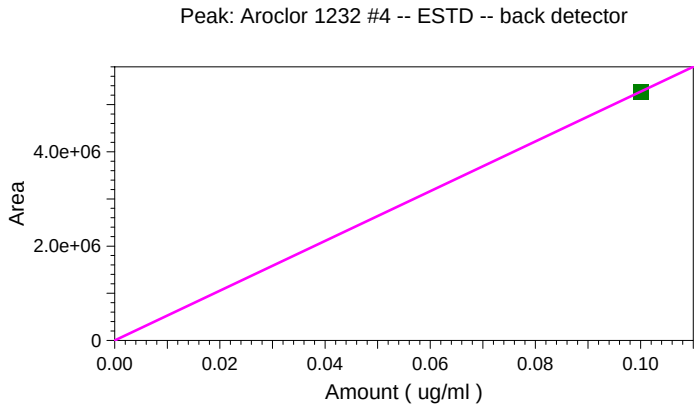
	Level 1	Level 11
Amount	0.1	0
Area	6214305	
RF	62143050	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	6214305	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:48:08 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #4 (back detector)
Average RF: 5.27447e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.27447e+007



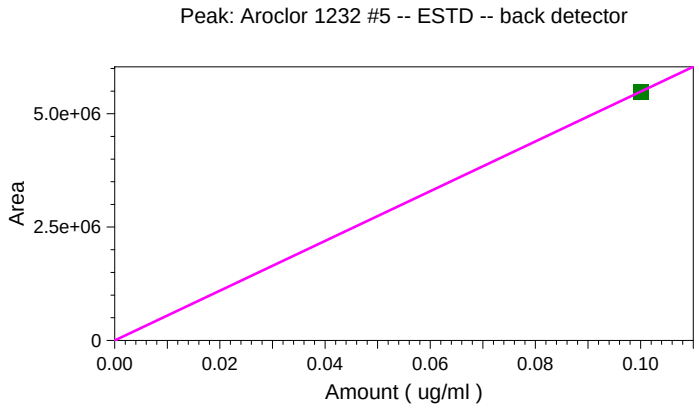
	Level 1	Level 11
Amount	0.1	0
Area	5274465	
RF	52744650	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	5274465	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat	
Rep 1 Sample ID	PCB 1232 CF PP 3042	
Rep 1 Calib. Time	11/12/2010 8:49:35 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:48:12 PM
User: jjy
Instrument: Semi 7

Aroclor 1232 #5 (back detector)
Average RF: 5.48723e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.48723e+007



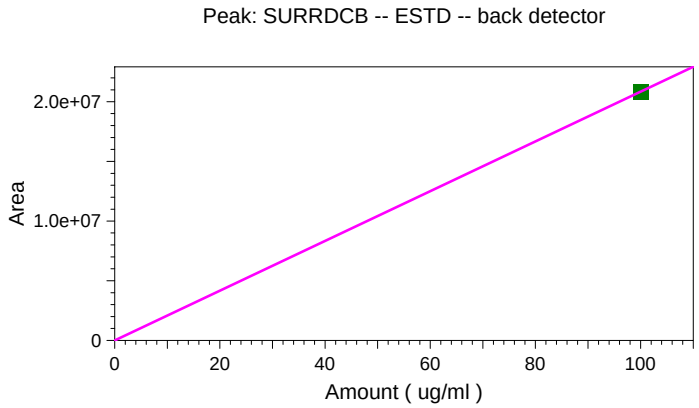
	Level 1
Amount	0.1
Area	5487232
RF	54872320
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	5487232
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat
Rep 1 Sample ID	PCB 1232 CF PP 3042
Rep 1 Calib. Time	11/12/2010 8:49:35 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
Print Time: 11/17/2010 1:48:16 PM
User: jjy
Instrument: Semi 7

SURRDCB (back detector)
Average RF: 208424.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 208424.



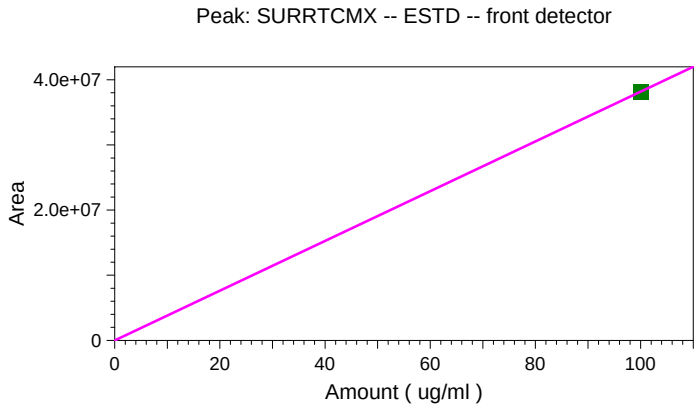
	Level 1
Amount	100
Area	20842377
RF	208423.77
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	20842377
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\013.dat
Rep 1 Sample ID	PCB 1232 CF PP 3042
Rep 1 Calib. Time	11/12/2010 8:49:35 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:48:47 PM
User: jjy
Instrument: Semi 7

SURRTCMX (front detector)
Average RF: 381739.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 381739.



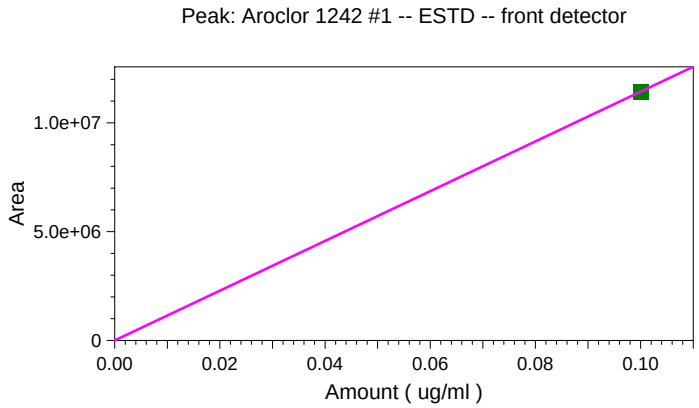
	Level 1	Level 11
Amount	100	0
Area	38173877	
RF	381738.77	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	38173877	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:48:52 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #1 (front detector)
Average RF: 1.14356e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.14356e+008



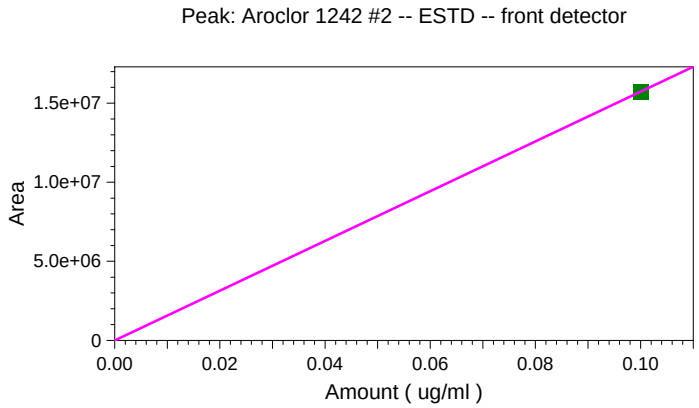
	Level 1	Level 11
Amount	0.1	0
Area	11435620	
RF	114356200	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	11435620	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:48:56 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #2 (front detector)
Average RF: 1.57308e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.57308e+008



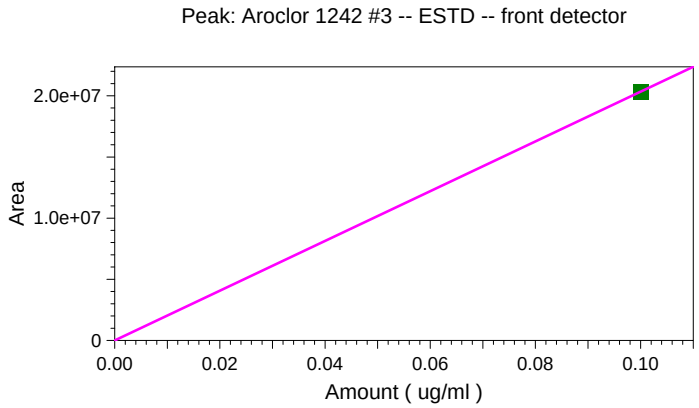
	Level 1	Level 11
Amount	0.1	0
Area	15730793	
RF	157307930	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	15730793	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:48:59 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #3 (front detector)
Average RF: 2.03400e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.03400e+008



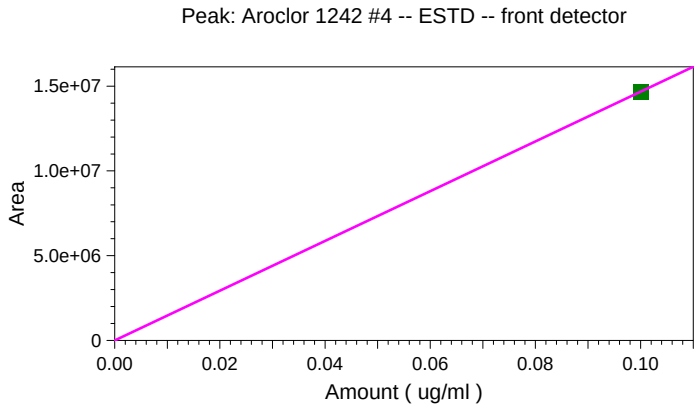
	Level 1	Level 11
Amount	0.1	0
Area	20340031	
RF	203400310	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	20340031	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:03 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #4 (front detector)
Average RF: 1.46765e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.46765e+008



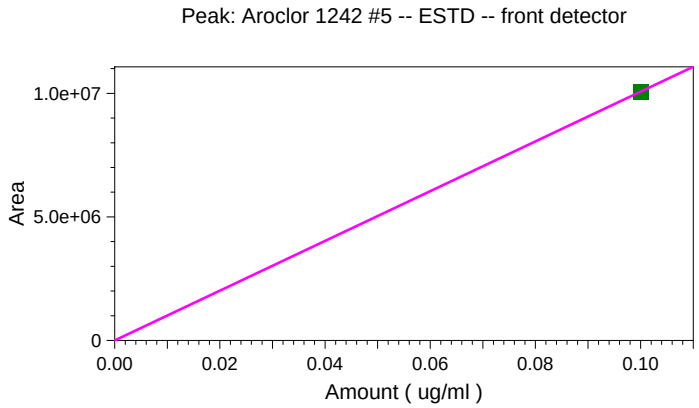
	Level 1	Level 11
Amount	0.1	0
Area	14676452	
RF	146764520	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	14676452	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:07 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #5 (front detector)
Average RF: 1.00686e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.00686e+008



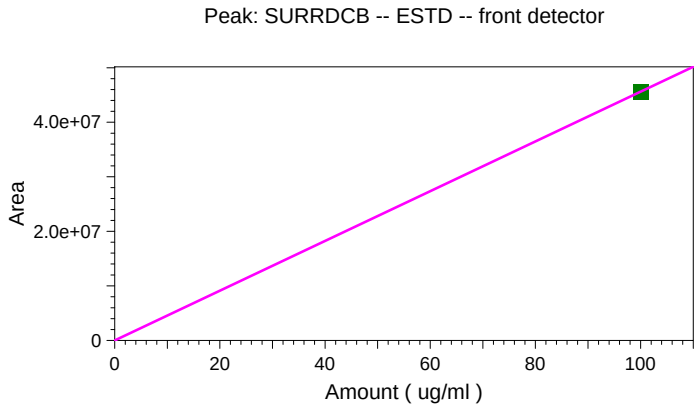
	Level 1
Amount	0.1
Area	10068554
RF	100685540
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	10068554
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat
Rep 1 Sample ID	PCB 1242 CF PP 3043
Rep 1 Calib. Time	11/12/2010 8:49:48 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:10 PM
User: jjy
Instrument: Semi 7

SURRDCB (front detector)
Average RF: 456072.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 456072.



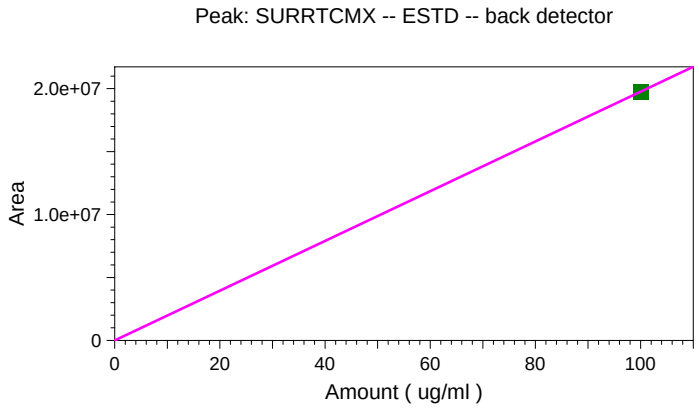
	Level 1
Amount	100
Area	45607215
RF	456072.15
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	45607215
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat
Rep 1 Sample ID	PCB 1242 CF PP 3043
Rep 1 Calib. Time	11/12/2010 8:49:48 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:24 PM
User: jjy
Instrument: Semi 7

SURRTCMX (back detector)
Average RF: 197642.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 197642.



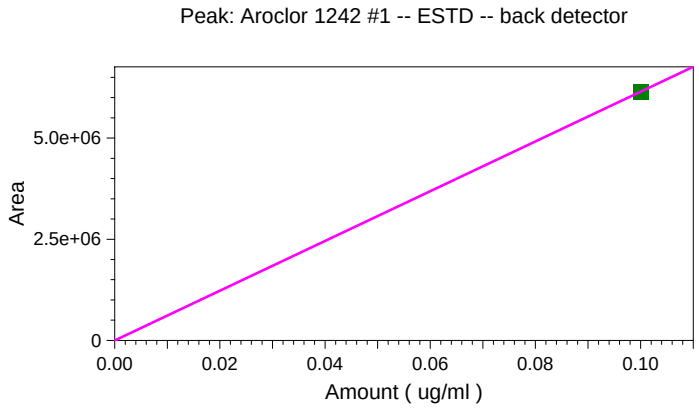
	Level 1	Level 11
Amount	100	0
Area	19764225	
RF	197642.25	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	19764225	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:28 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #1 (back detector)
Average RF: 6.14713e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 6.14713e+007



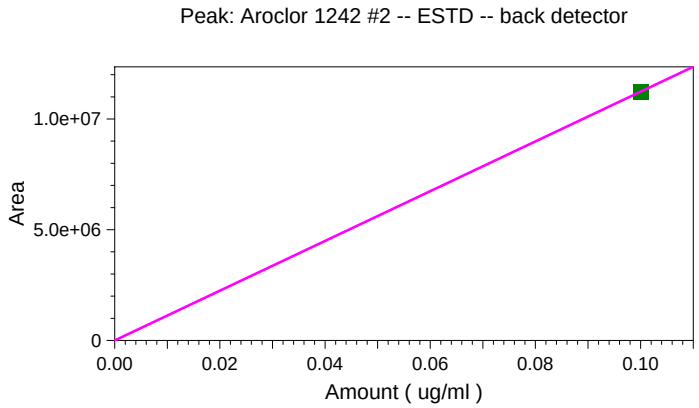
	Level 1	Level 11
Amount	0.1	0
Area	6147131	
RF	61471310	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	6147131	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:31 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #2 (back detector)
Average RF: 1.12337e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.12337e+008



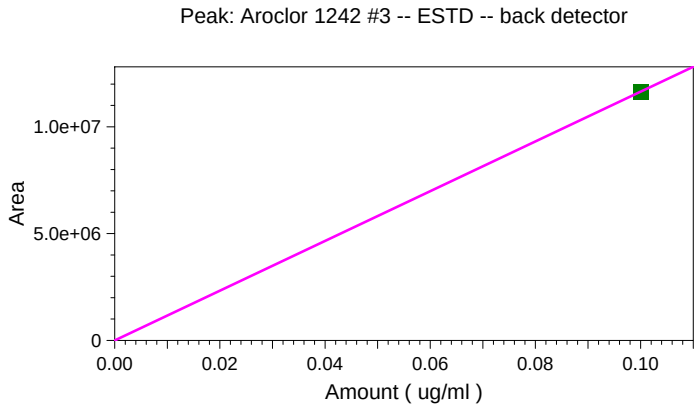
	Level 1	Level 11
Amount	0.1	0
Area	11233728	
RF	112337280	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	11233728	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:35 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #3 (back detector)
Average RF: 1.16431e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.16431e+008



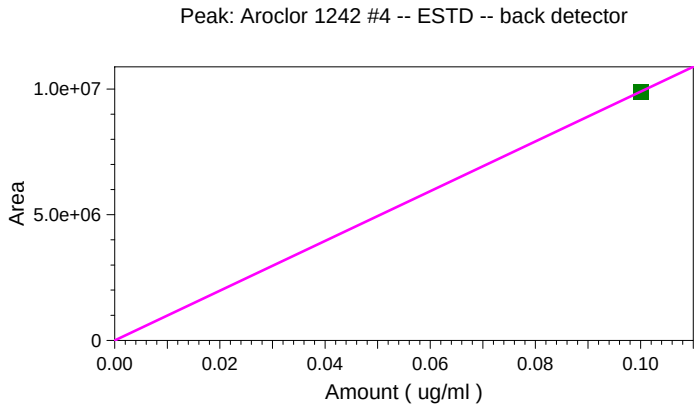
	Level 1	Level 11
Amount	0.1	0
Area	11643103	
RF	116431030	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	11643103	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:38 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #4 (back detector)
Average RF: 9.89583e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 9.89583e+007



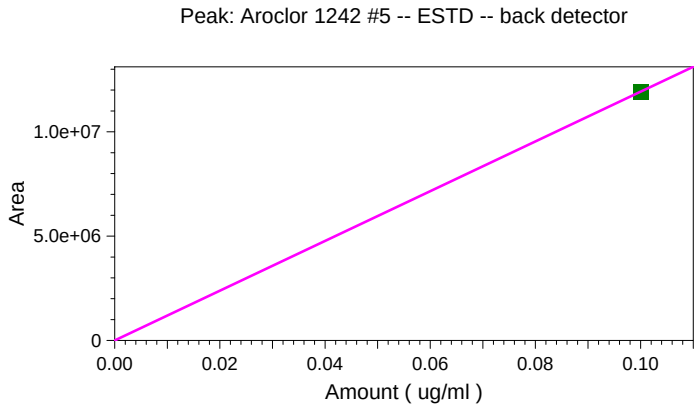
	Level 1	Level 11
Amount	0.1	0
Area	9895830	
RF	98958300	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	9895830	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat	
Rep 1 Sample ID	PCB 1242 CF PP 3043	
Rep 1 Calib. Time	11/12/2010 8:49:48 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:42 PM
User: jjy
Instrument: Semi 7

Aroclor 1242 #5 (back detector)
Average RF: 1.19238e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.19238e+008



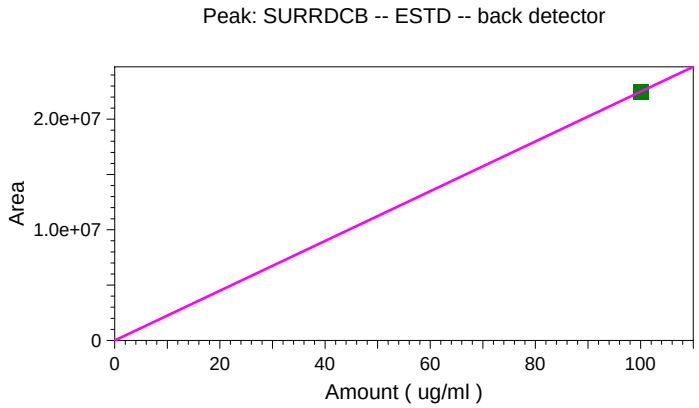
	Level 1
Amount	0.1
Area	11923842
RF	119238420
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	11923842
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat
Rep 1 Sample ID	PCB 1242 CF PP 3043
Rep 1 Calib. Time	11/12/2010 8:49:48 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
Print Time: 11/17/2010 1:49:46 PM
User: jjy
Instrument: Semi 7

SURRDCB (back detector)
Average RF: 224875.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 224875.



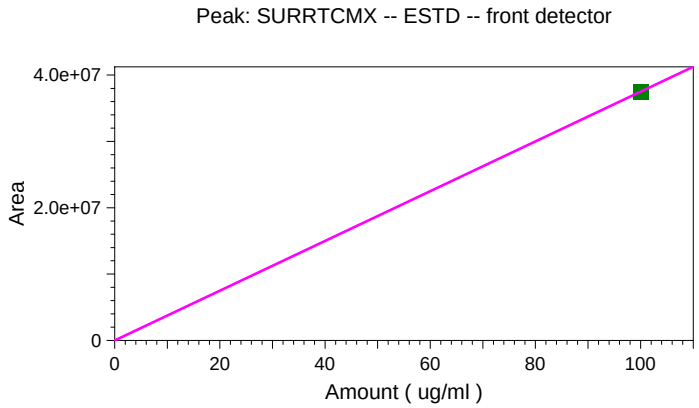
	Level 1
Amount	100
Area	22487451
RF	224874.51
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	22487451
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\014.dat
Rep 1 Sample ID	PCB 1242 CF PP 3043
Rep 1 Calib. Time	11/12/2010 8:49:48 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:24 PM
User: jjy
Instrument: Semi 7

SURRTCMX (front detector)
Average RF: 374981.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 374981.



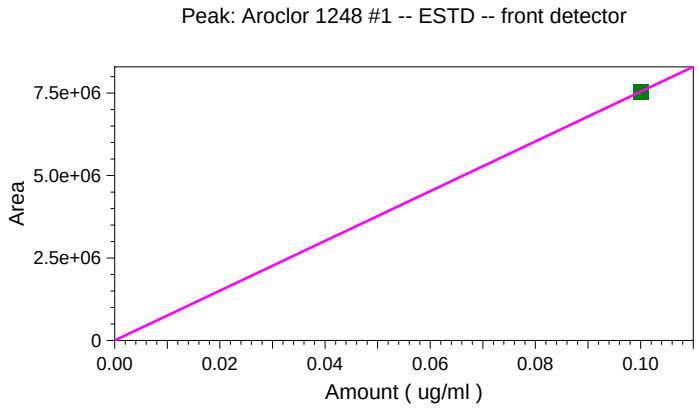
	Level 1	Level 11
Amount	100	0
Area	37498125	
RF	374981.25	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	37498125	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:30 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #1 (front detector)
Average RF: 7.54449e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 7.54449e+007



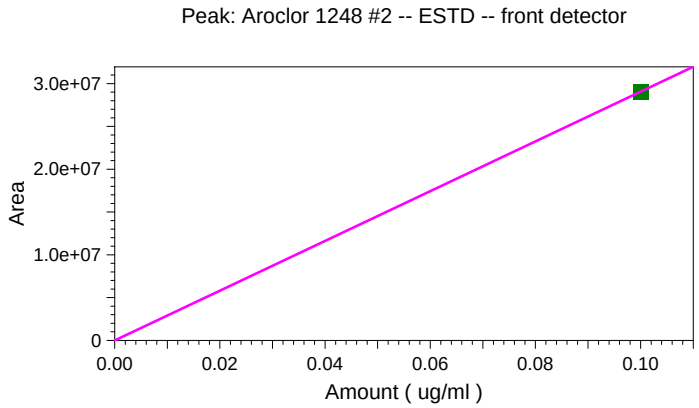
	Level 1	Level 11
Amount	0.1	0
Area	7544494	
RF	75444940	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	7544494	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:33 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #2 (front detector)
Average RF: 2.90586e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.90586e+008



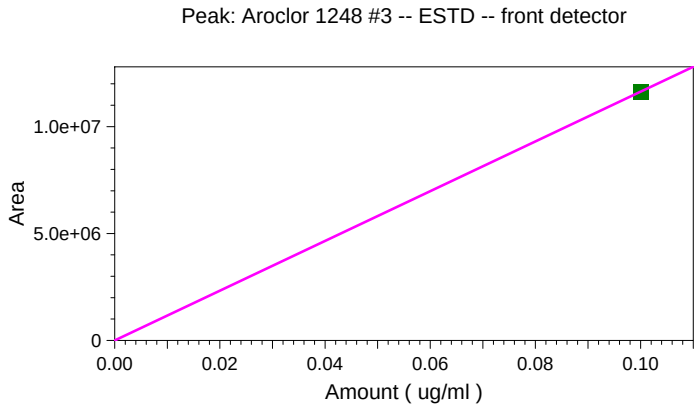
	Level 1	Level 11
Amount	0.1	0
Area	29058607	
RF	290586070	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	29058607	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:38 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #3 (front detector)
Average RF: 1.16351e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.16351e+008



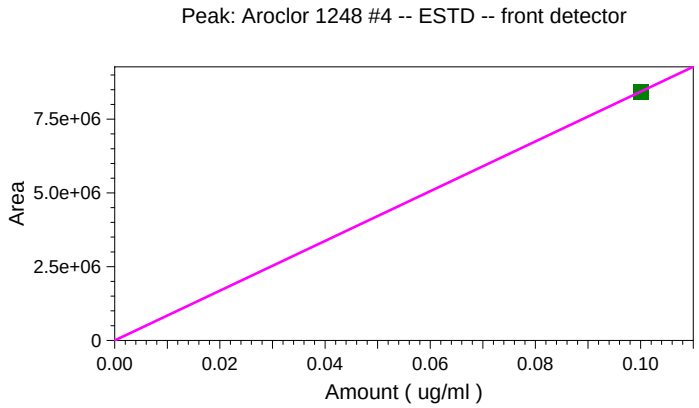
	Level 1	Level 11
Amount	0.1	0
Area	11635053	
RF	116350530	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	11635053	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:42 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #4 (front detector)
Average RF: 8.43159e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 8.43159e+007



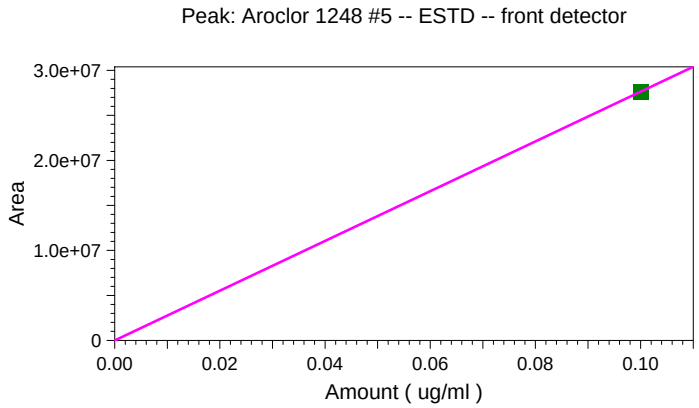
	Level 1	Level 11
Amount	0.1	0
Area	8431591	
RF	84315910	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	8431591	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:45 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #5 (front detector)
Average RF: 2.76346e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.76346e+008



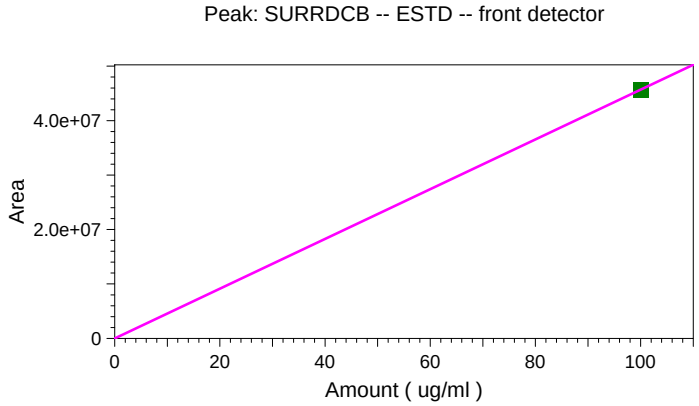
	Level 1
Amount	0.1
Area	27634595
RF	276345950
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	27634595
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat
Rep 1 Sample ID	PCB 1248 CF PP 3044
Rep 1 Calib. Time	11/12/2010 8:50:04 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:49 PM
User: jjy
Instrument: Semi 7

SURRDCB (front detector)
Average RF: 456817.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 456817.



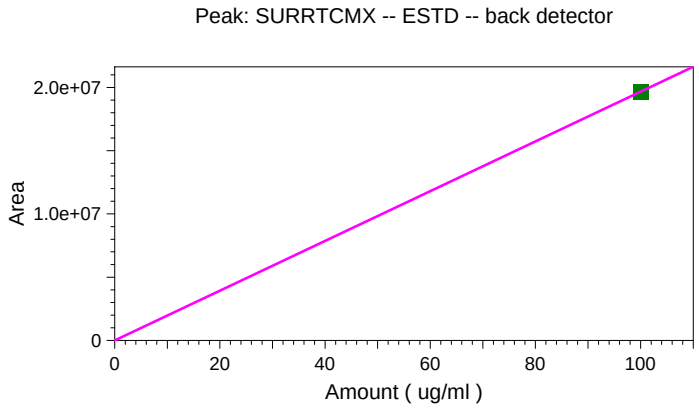
	Level 1
Amount	100
Area	45681722
RF	456817.22
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	45681722
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat
Rep 1 Sample ID	PCB 1248 CF PP 3044
Rep 1 Calib. Time	11/12/2010 8:50:04 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:50:57 PM
User: jjy
Instrument: Semi 7

SURRTCMX (back detector)
Average RF: 196673.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 196673.



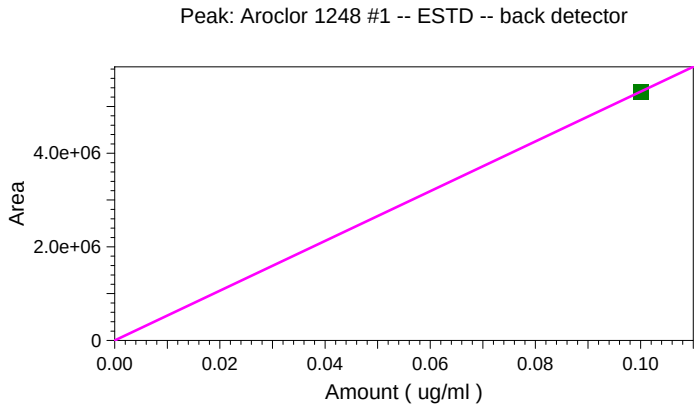
	Level 1	Level 11
Amount	100	0
Area	19667257	
RF	196672.57	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	19667257	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:51:02 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #1 (back detector)
Average RF: 5.31640e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.31640e+007



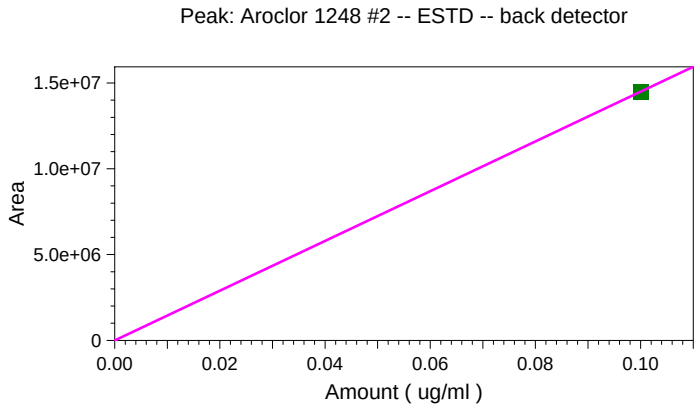
	Level 1	Level 11
Amount	0.1	0
Area	5316395	
RF	53163950	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	5316395	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:51:05 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #2 (back detector)
Average RF: 1.44953e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.44953e+008



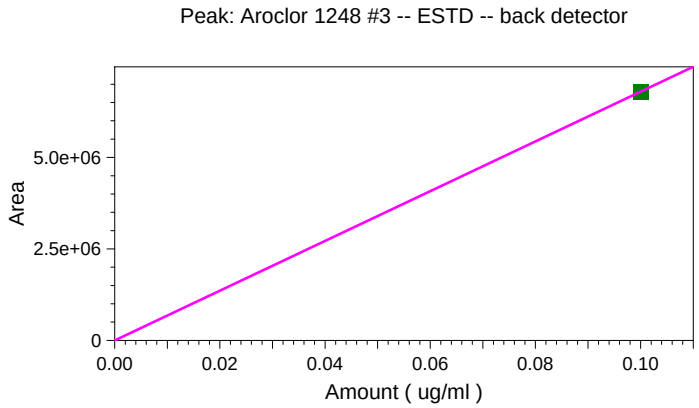
	Level 1	Level 11
Amount	0.1	0
Area	14495289	
RF	144952890	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	14495289	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:51:09 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #3 (back detector)
Average RF: 6.79637e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 6.79637e+007



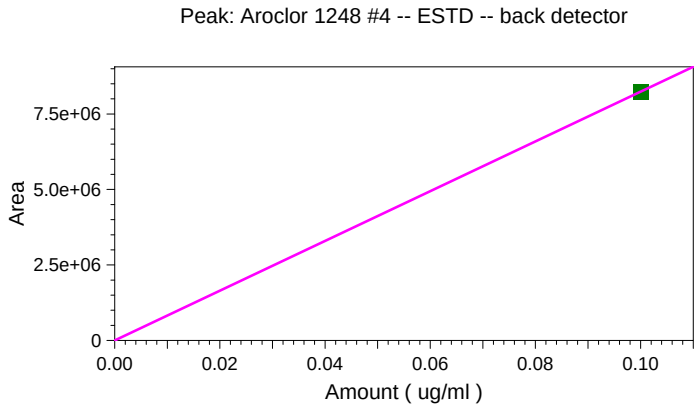
	Level 1	Level 11
Amount	0.1	0
Area	6796372	
RF	67963720	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	6796372	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:51:12 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #4 (back detector)
Average RF: 8.23934e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 8.23934e+007



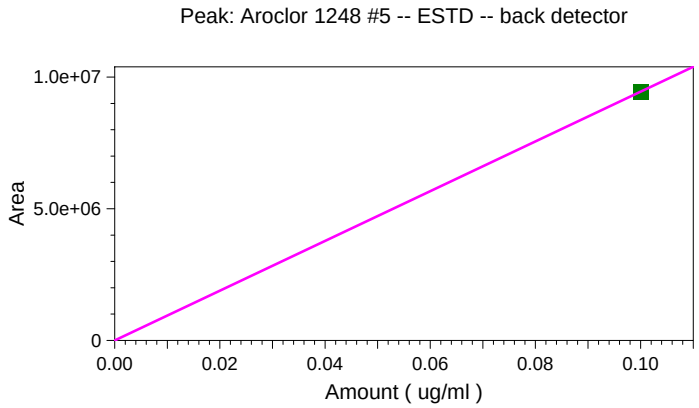
	Level 1	Level 11
Amount	0.1	0
Area	8239344	
RF	82393440	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	8239344	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat	
Rep 1 Sample ID	PCB 1248 CF PP 3044	
Rep 1 Calib. Time	11/12/2010 8:50:04 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:51:15 PM
User: jjy
Instrument: Semi 7

Aroclor 1248 #5 (back detector)
Average RF: 9.44564e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 9.44564e+007



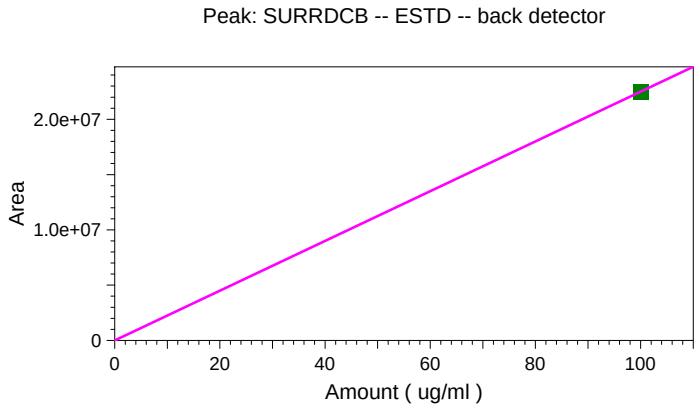
	Level 1
Amount	0.1
Area	9445636
RF	94456360
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	9445636
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat
Rep 1 Sample ID	PCB 1248 CF PP 3044
Rep 1 Calib. Time	11/12/2010 8:50:04 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
Print Time: 11/17/2010 1:51:20 PM
User: jjy
Instrument: Semi 7

SURRDCB (back detector)
Average RF: 224998.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 224998.



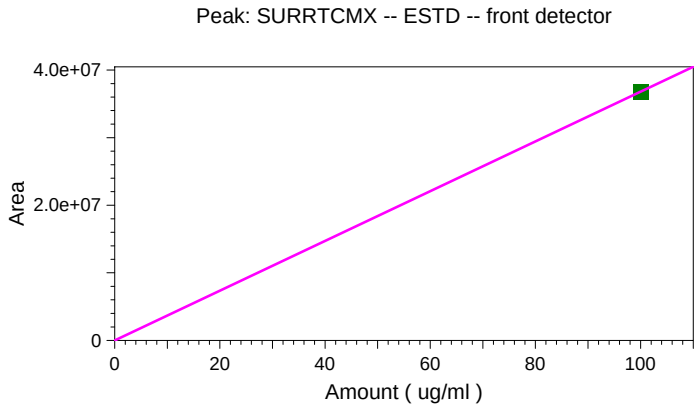
	Level 1
Amount	100
Area	22499817
RF	224998.17
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	22499817
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\015.dat
Rep 1 Sample ID	PCB 1248 CF PP 3044
Rep 1 Calib. Time	11/12/2010 8:50:04 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:51:49 PM
User: jjy
Instrument: Semi 7

SURRTCMX (front detector)
Average RF: 368029.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 368029.



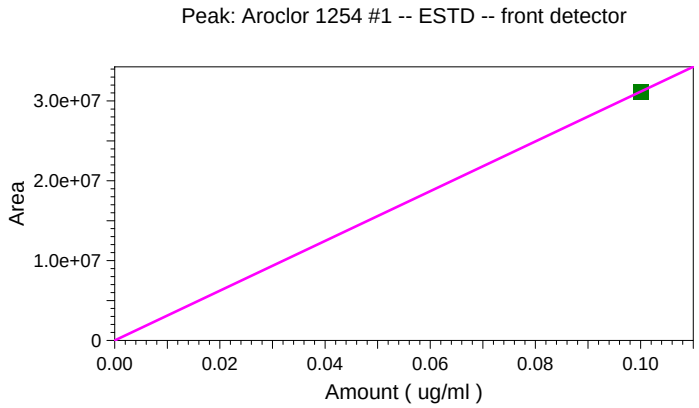
	Level 1	Level 11
Amount	100	0
Area	36802940	
RF	368029.4	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	36802940	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:51:54 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #1 (front detector)
Average RF: 3.11688e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.11688e+008



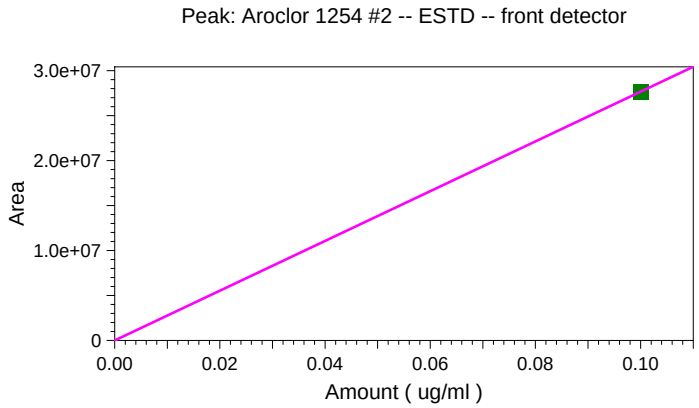
	Level 1	Level 11
Amount	0.1	0
Area	31168777	
RF	311687770	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	31168777	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:51:58 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #2 (front detector)
Average RF: 2.76693e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.76693e+008



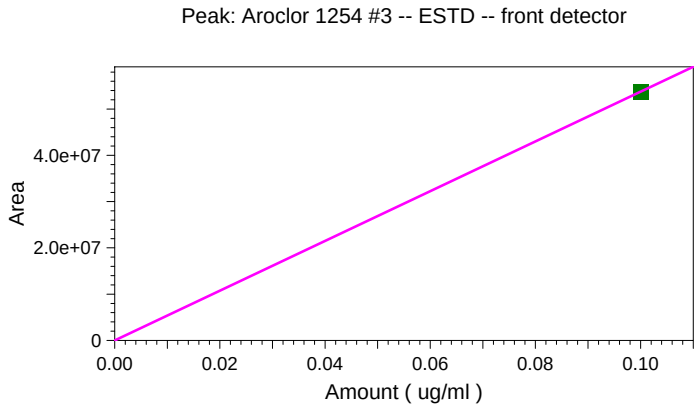
	Level 1	Level 11
Amount	0.1	0
Area	27669320	
RF	276693200	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	27669320	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:01 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #3 (front detector)
Average RF: 5.37604e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.37604e+008



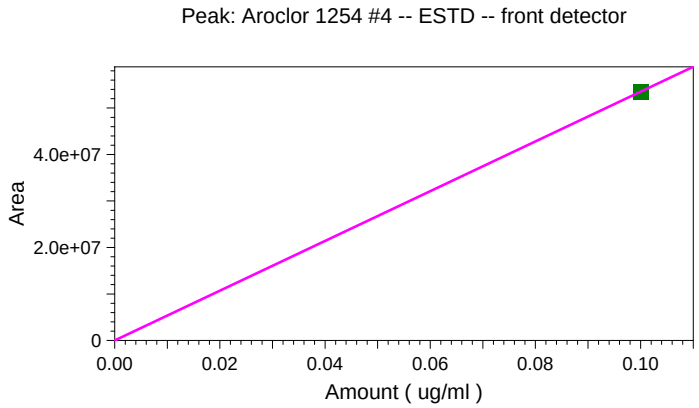
	Level 1	Level 11
Amount	0.1	0
Area	53760384	
RF	537603840	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	53760384	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:05 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #4 (front detector)
Average RF: 5.35175e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.35175e+008



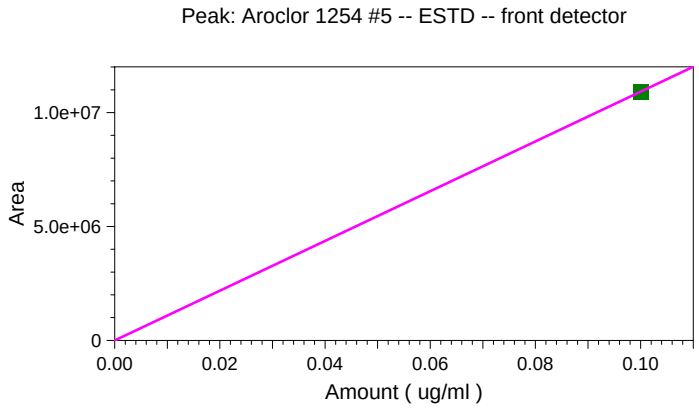
	Level 1	Level 11
Amount	0.1	0
Area	53517485	
RF	535174850	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	53517485	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:09 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #5 (front detector)
Average RF: 1.09188e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.09188e+008



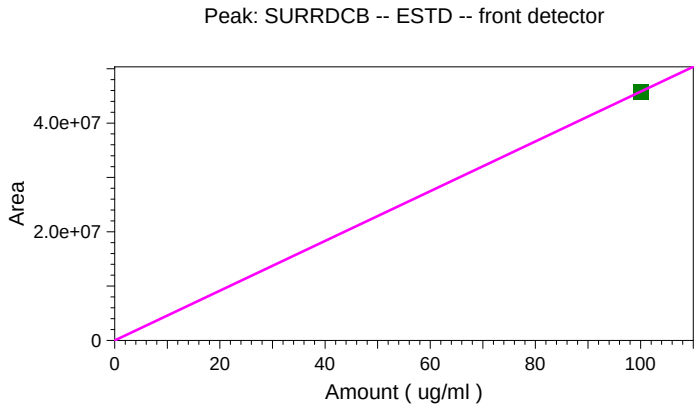
	Level 1
Amount	0.1
Area	10918796
RF	109187960
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	10918796
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat
Rep 1 Sample ID	PCB 1254 CF PP 3045
Rep 1 Calib. Time	11/12/2010 8:50:18 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:12 PM
User: jjy
Instrument: Semi 7

SURRDCB (front detector)
Average RF: 457880.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 457880.



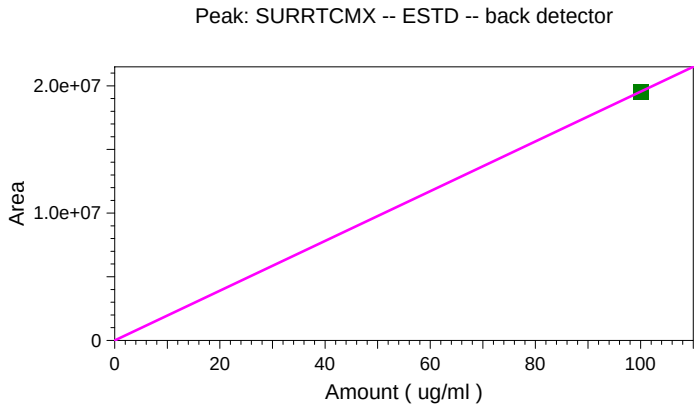
	Level 1
Amount	100
Area	45787981
RF	457879.81
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	45787981
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat
Rep 1 Sample ID	PCB 1254 CF PP 3045
Rep 1 Calib. Time	11/12/2010 8:50:18 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:22 PM
User: jjy
Instrument: Semi 7

SURRTCMX (back detector)
Average RF: 195390.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 195390.



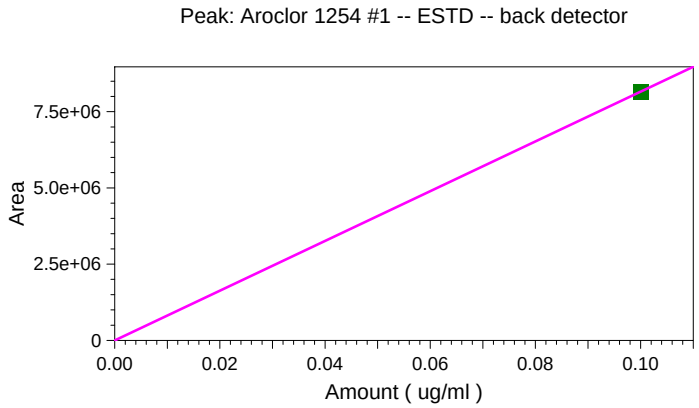
	Level 1	Level 11
Amount	100	0
Area	19538986	
RF	195389.86	
Last Area		
Residual	-1.42109e-014	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	19538986	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:26 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #1 (back detector)
Average RF: 8.15535e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 8.15535e+007



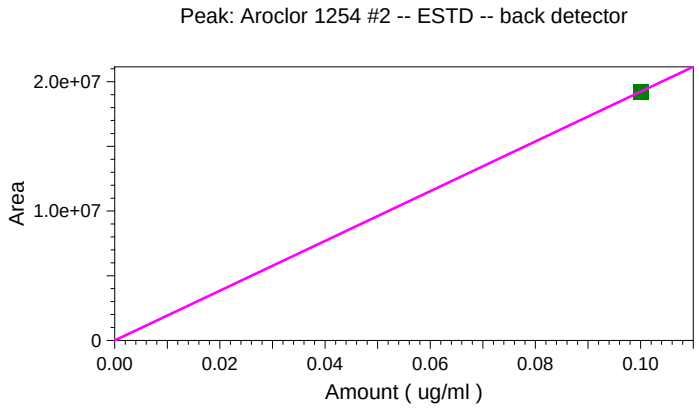
	Level 1	Level 11
Amount	0.1	0
Area	8155349	
RF	81553490	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	8155349	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:30 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #2 (back detector)
Average RF: 1.92314e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.92314e+008



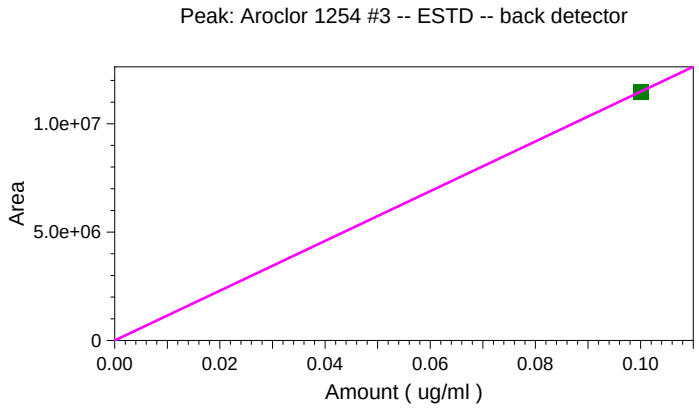
	Level 1	Level 11
Amount	0.1	0
Area	19231434	
RF	192314340	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	19231434	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:33 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #3 (back detector)
Average RF: 1.14814e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.14814e+008



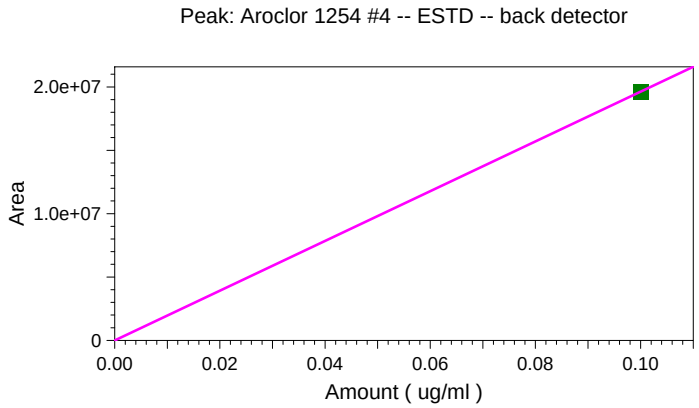
	Level 1	Level 11
Amount	0.1	0
Area	11481433	
RF	114814330	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	11481433	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:36 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #4 (back detector)
Average RF: 1.96243e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.96243e+008



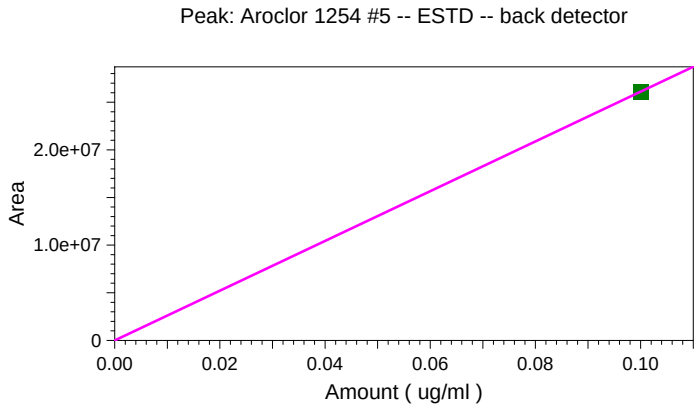
	Level 1	Level 11
Amount	0.1	0
Area	19624344	
RF	196243440	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	19624344	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat	
Rep 1 Sample ID	PCB 1254 CF PP 3045	
Rep 1 Calib. Time	11/12/2010 8:50:18 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:40 PM
User: jjy
Instrument: Semi 7

Aroclor 1254 #5 (back detector)
Average RF: 2.61056e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.61056e+008



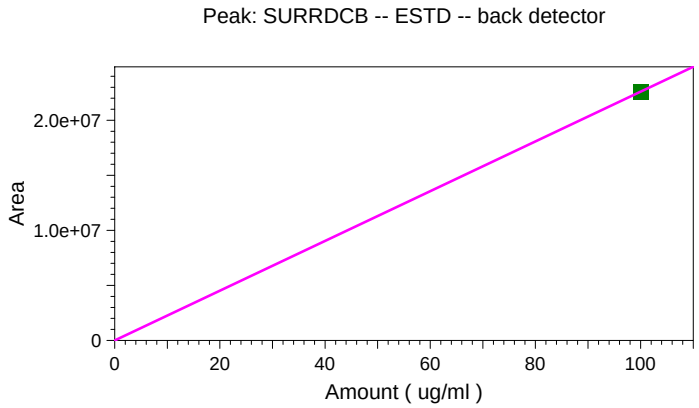
	Level 1
Amount	0.1
Area	26105580
RF	261055800
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	26105580
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat
Rep 1 Sample ID	PCB 1254 CF PP 3045
Rep 1 Calib. Time	11/12/2010 8:50:18 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
Print Time: 11/17/2010 1:52:44 PM
User: jjy
Instrument: Semi 7

SURRDCB (back detector)
Average RF: 225994.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 225994.



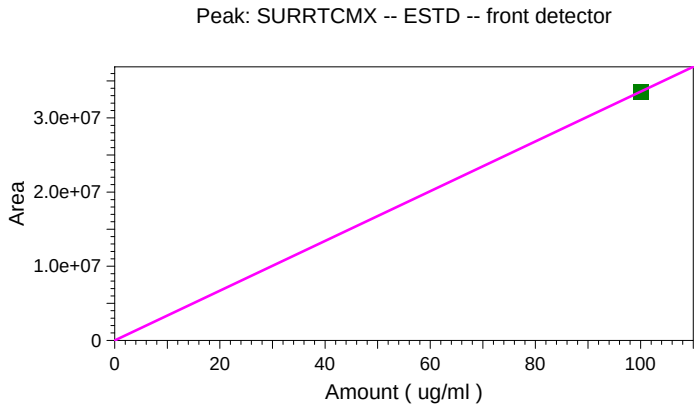
	Level 1
Amount	100
Area	22599379
RF	225993.79
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	22599379
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\016.dat
Rep 1 Sample ID	PCB 1254 CF PP 3045
Rep 1 Calib. Time	11/12/2010 8:50:18 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:10 PM
User: jjy
Instrument: Semi 7

SURRTCMX (front detector)
Average RF: 335455.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 335455.



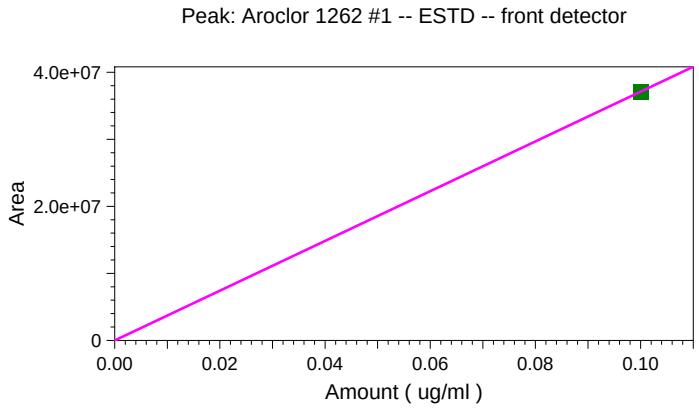
	Level 1	Level 11
Amount	100	0
Area	33545486	
RF	335454.86	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	33545486	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:16 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #1 (front detector)
Average RF: 3.71048e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.71048e+008



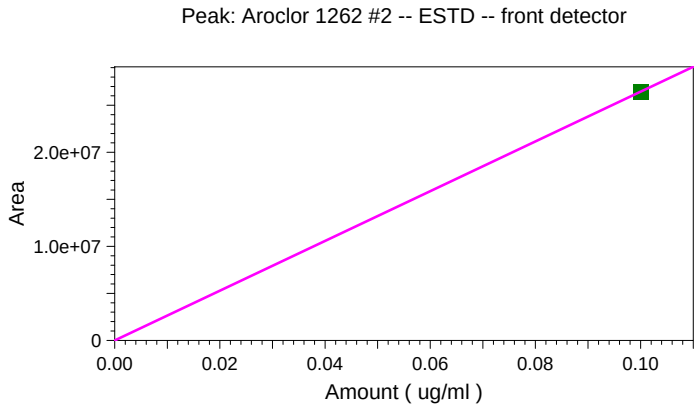
	Level 1	Level 11
Amount	0.1	0
Area	37104811	
RF	371048110	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	37104811	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:20 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #2 (front detector)
Average RF: 2.64470e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.64470e+008



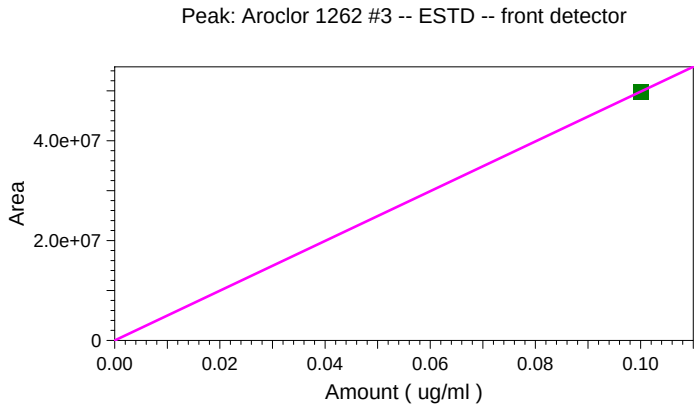
	Level 1	Level 11
Amount	0.1	0
Area	26447008	
RF	264470080	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	26447008	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:25 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #3 (front detector)
Average RF: 4.98272e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 4.98272e+008



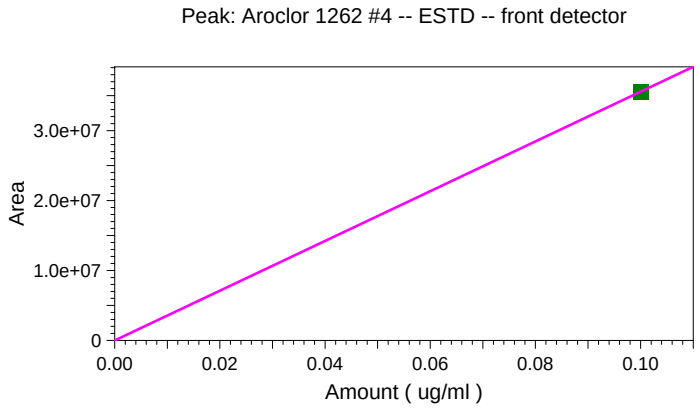
	Level 1	Level 11
Amount	0.1	0
Area	49827180	
RF	498271800	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	49827180	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:32 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #4 (front detector)
Average RF: 3.55649e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.55649e+008



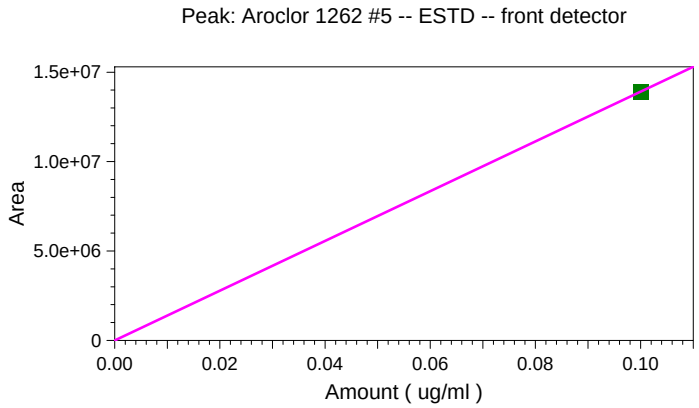
	Level 1	Level 11
Amount	0.1	0
Area	35564856	
RF	355648560	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	35564856	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:35 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #5 (front detector)
Average RF: 1.39096e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.39096e+008



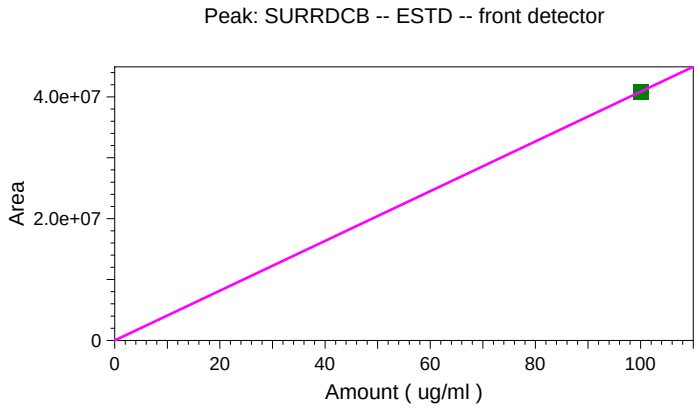
	Level 1
Amount	0.1
Area	13909618
RF	139096180
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	13909618
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat
Rep 1 Sample ID	PCB 1262 CF PP 3046
Rep 1 Calib. Time	11/12/2010 8:50:33 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:40 PM
User: jjy
Instrument: Semi 7

SURRDCB (front detector)
Average RF: 408617.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 408617.



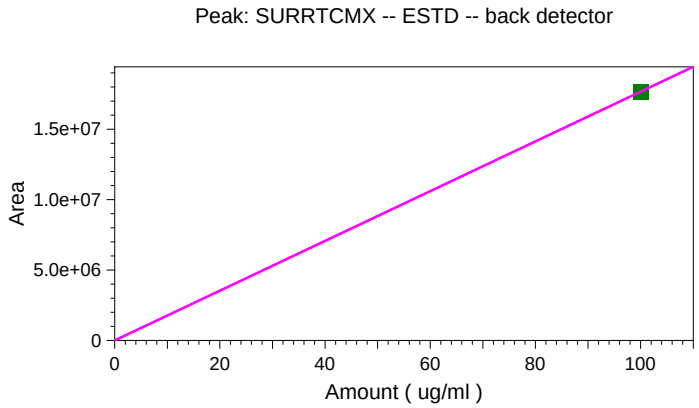
	Level 1
Amount	100
Area	40861662
RF	408616.62
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	40861662
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat
Rep 1 Sample ID	PCB 1262 CF PP 3046
Rep 1 Calib. Time	11/12/2010 8:50:33 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:49 PM
User: jjy
Instrument: Semi 7

SURRTCMX (back detector)
Average RF: 176655.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 176655.



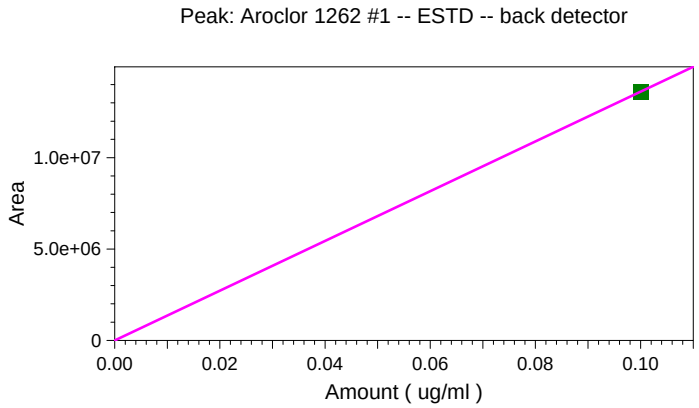
	Level 1	Level 11
Amount	100	0
Area	17665491	
RF	176654.91	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	17665491	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:52 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #1 (back detector)
Average RF: 1.36130e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.36130e+008



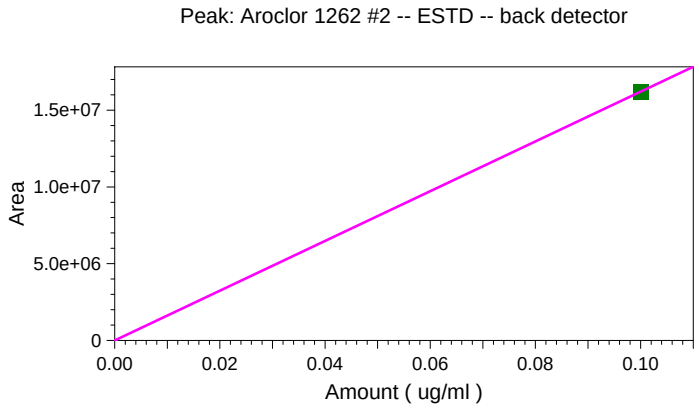
	Level 1	Level 11
Amount	0.1	0
Area	13613017	
RF	136130170	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	13613017	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:55 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #2 (back detector)
Average RF: 1.62106e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.62106e+008



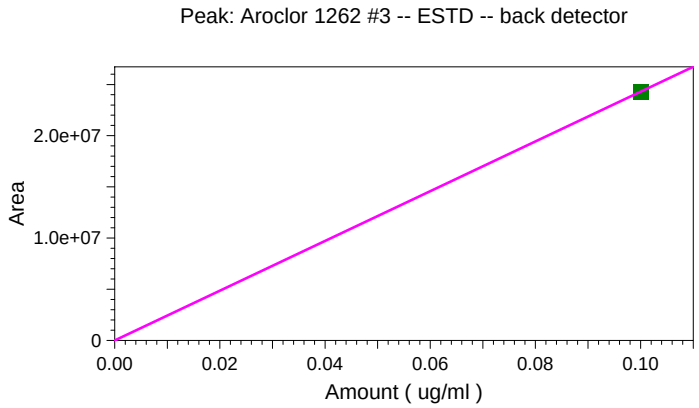
	Level 1	Level 11
Amount	0.1	0
Area	16210590	
RF	162105900	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	16210590	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:53:59 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #3 (back detector)
Average RF: 2.42992e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.42992e+008



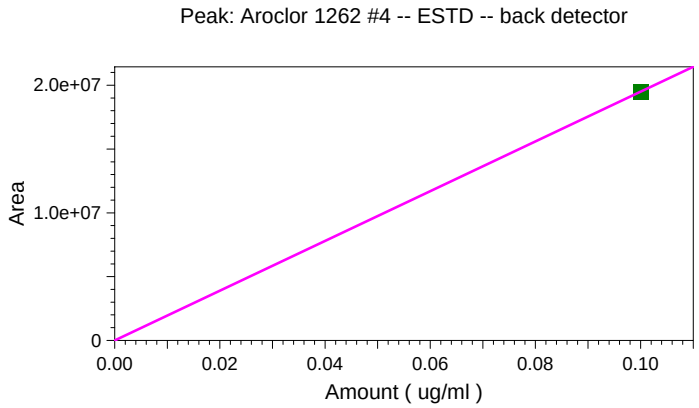
	Level 1	Level 11
Amount	0.1	0
Area	24299187	
RF	242991870	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	24299187	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:54:02 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #4 (back detector)
Average RF: 1.94983e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.94983e+008



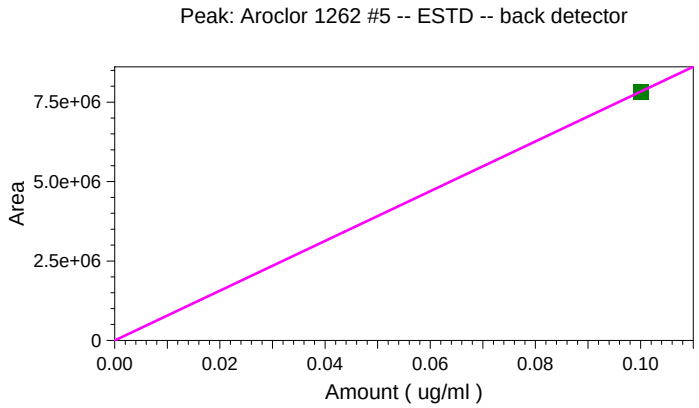
	Level 1	Level 11
Amount	0.1	0
Area	19498286	
RF	194982860	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	19498286	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat	
Rep 1 Sample ID	PCB 1262 CF PP 3046	
Rep 1 Calib. Time	11/12/2010 8:50:33 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:54:06 PM
User: jjy
Instrument: Semi 7

Aroclor 1262 #5 (back detector)
Average RF: 7.82957e+007
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 7.82957e+007



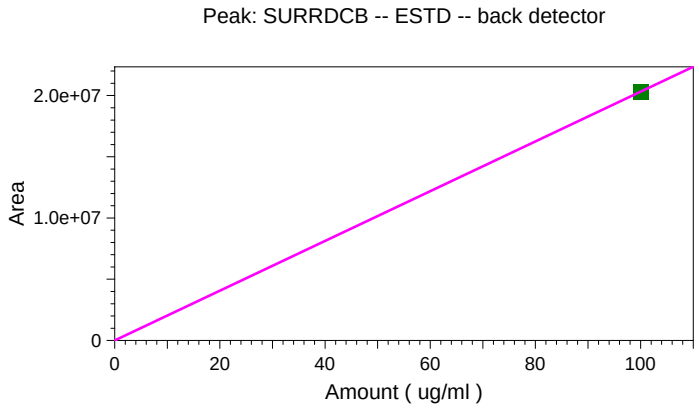
	Level 1
Amount	0.1
Area	7829570
RF	78295700
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	7829570
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat
Rep 1 Sample ID	PCB 1262 CF PP 3046
Rep 1 Calib. Time	11/12/2010 8:50:33 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
Print Time: 11/17/2010 1:54:09 PM
User: jjy
Instrument: Semi 7

SURRDCB (back detector)
Average RF: 203148.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 203148.



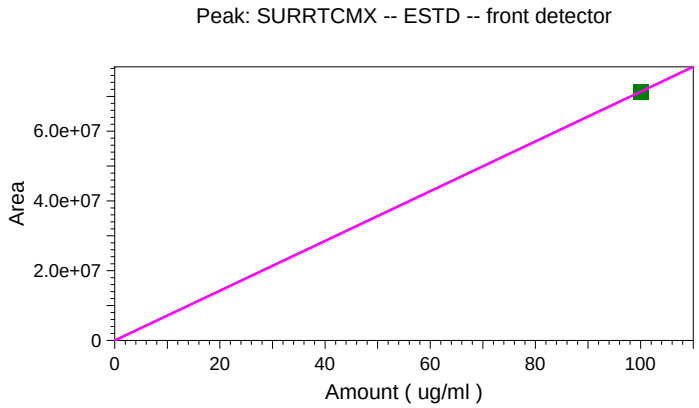
	Level 1
Amount	100
Area	20314759
RF	203147.59
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	20314759
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\017.dat
Rep 1 Sample ID	PCB 1262 CF PP 3046
Rep 1 Calib. Time	11/12/2010 8:50:33 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:54:56 PM
User: jjy
Instrument: Semi 7

SURRTCMX (front detector)
Average RF: 713525.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 713525.



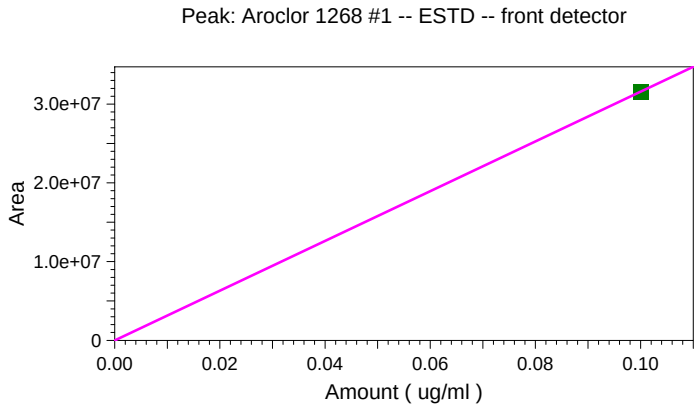
	Level 1	Level 11
Amount	100	0
Area	71352523	
RF	713525.23	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	71352523	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:02 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #1 (front detector)
Average RF: 3.15782e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 3.15782e+008



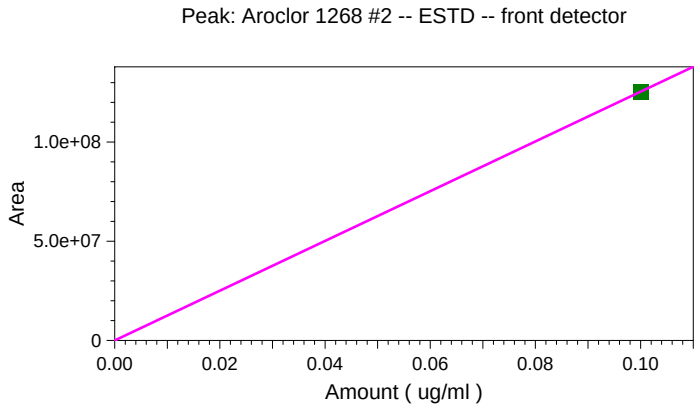
	Level 1	Level 11
Amount	0.1	0
Area	31578151	
RF	315781510	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	31578151	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:09 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #2 (front detector)
Average RF: 1.25427e+009
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.25427e+009



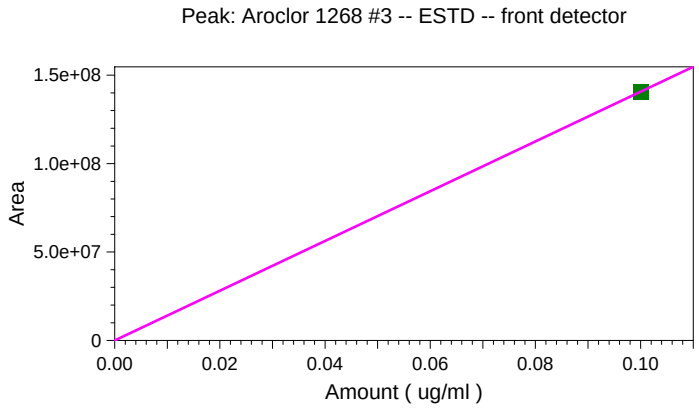
	Level 1	Level 11
Amount	0.1	0
Area	125426730	
RF	1254267300	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	125426730	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:14 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #3 (front detector)
Average RF: 1.40711e+009
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.40711e+009



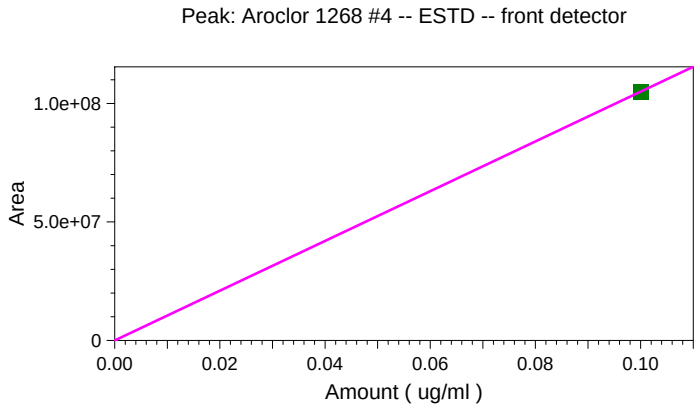
	Level 1	Level 11
Amount	0.1	0
Area	140711401	
RF	1407114010	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	140711401	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:18 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #4 (front detector)
Average RF: 1.04995e+009
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.04995e+009



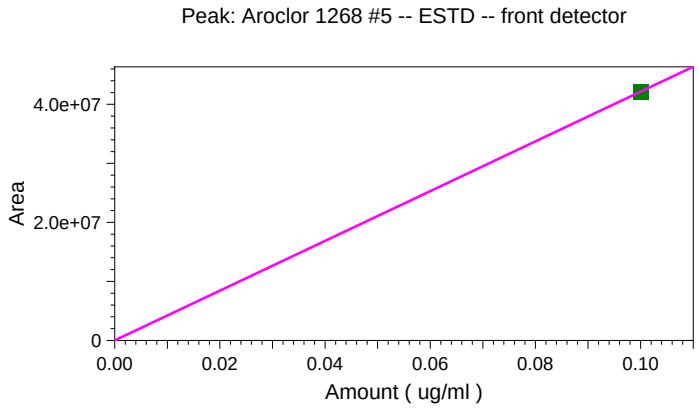
	Level 1	Level 11
Amount	0.1	0
Area	104994511	
RF	1049945110	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	104994511	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:22 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #5 (front detector)
Average RF: 4.21465e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 4.21465e+008



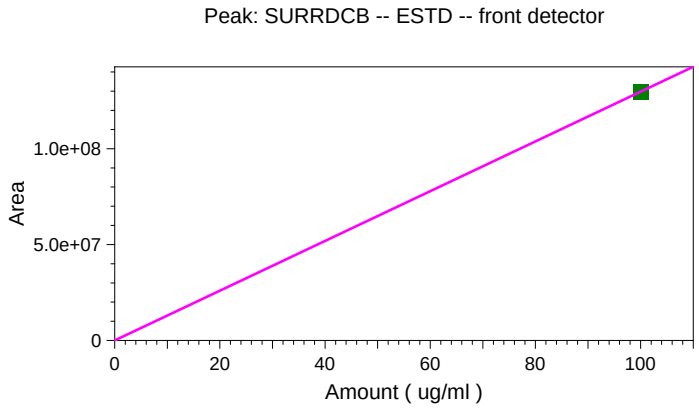
	Level 1
Amount	0.1
Area	42146476
RF	421464760
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	42146476
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat
Rep 1 Sample ID	PCB 1268 CF PP 3072
Rep 1 Calib. Time	11/12/2010 8:50:47 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:26 PM
User: jjy
Instrument: Semi 7

SURRDCB (front detector)
Average RF: 1.29738e+006
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.29738e+006



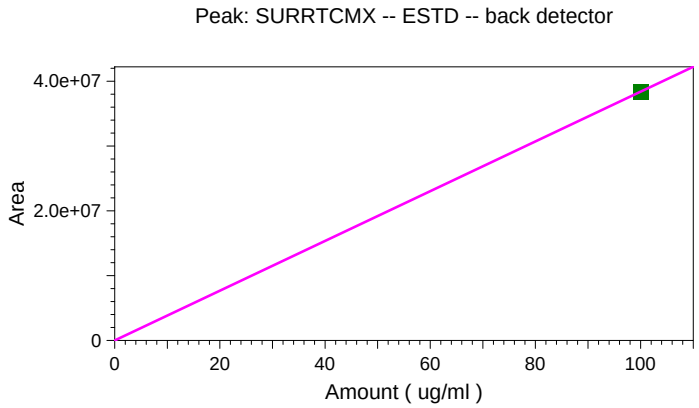
	Level 1
Amount	100
Area	129737545
RF	1297375.45
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	129737545
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat
Rep 1 Sample ID	PCB 1268 CF PP 3072
Rep 1 Calib. Time	11/12/2010 8:50:47 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:40 PM
User: jjy
Instrument: Semi 7

SURRTCMX (back detector)
Average RF: 383970.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 383970.



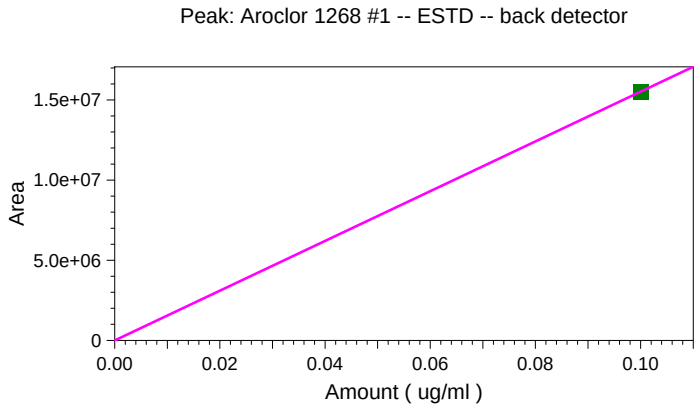
	Level 1	Level 11
Amount	100	0
Area	38397011	
RF	383970.11	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	38397011	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:45 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #1 (back detector)
Average RF: 1.55168e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.55168e+008



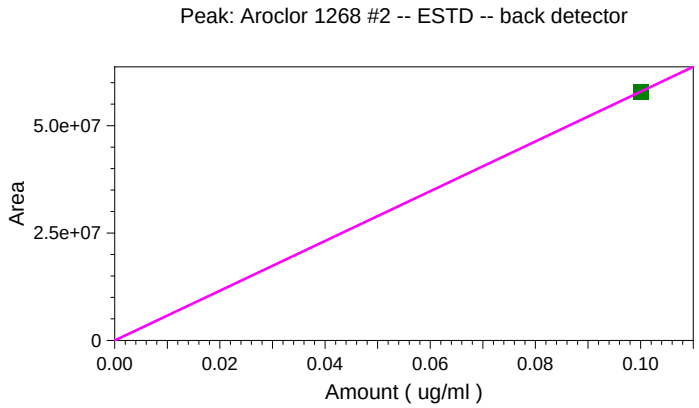
	Level 1	Level 11
Amount	0.1	0
Area	15516764	
RF	155167640	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	15516764	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:48 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #2 (back detector)
Average RF: 5.79013e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 5.79013e+008



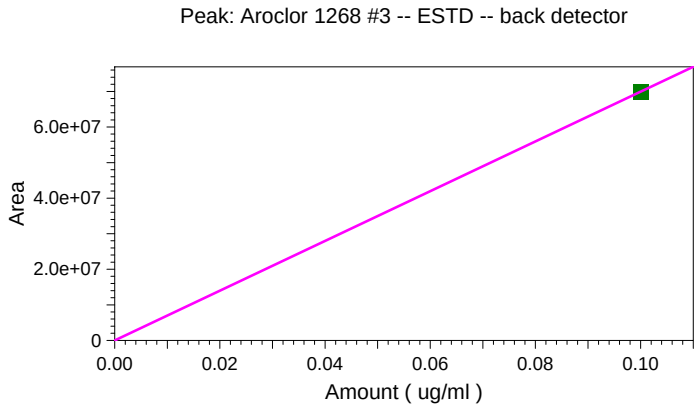
	Level 1	Level 11
Amount	0.1	0
Area	57901303	
RF	579013030	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	57901303	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:51 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #3 (back detector)
Average RF: 6.99343e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 6.99343e+008



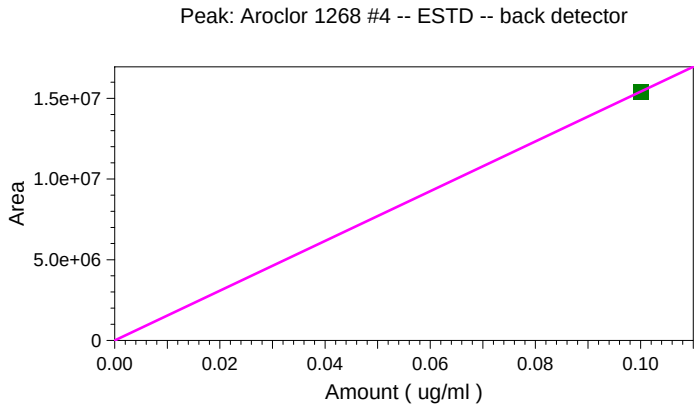
	Level 1	Level 11
Amount	0.1	0
Area	69934319	
RF	699343190	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	69934319	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:55:55 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #4 (back detector)
Average RF: 1.54125e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 1.54125e+008



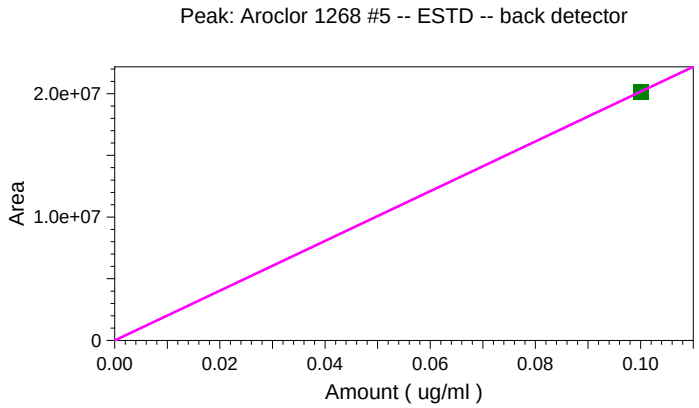
	Level 1	Level 11
Amount	0.1	0
Area	15412498	
RF	154124980	
Last Area		
Residual	0	N/A
Rep StDev		
Rep %RSD		
Rep 1 Area	15412498	
Rep 1 User	jjy	
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat	
Rep 1 Sample ID	PCB 1268 CF PP 3072	
Rep 1 Calib. Time	11/12/2010 8:50:47 AM	

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:56:00 PM
User: jjy
Instrument: Semi 7

Aroclor 1268 #5 (back detector)
Average RF: 2.01624e+008
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 2.01624e+008



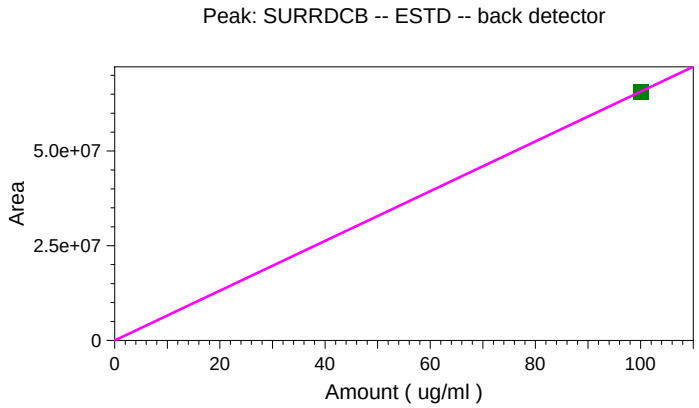
	Level 1
Amount	0.1
Area	20162355
RF	201623550
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	20162355
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat
Rep 1 Sample ID	PCB 1268 CF PP 3072
Rep 1 Calib. Time	11/12/2010 8:50:47 AM

Calibration Report

Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
Print Time: 11/17/2010 1:56:04 PM
User: jjy
Instrument: Semi 7

SURRDCB (back detector)
Average RF: 656832.
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Average RF

Average Slope: 656832.



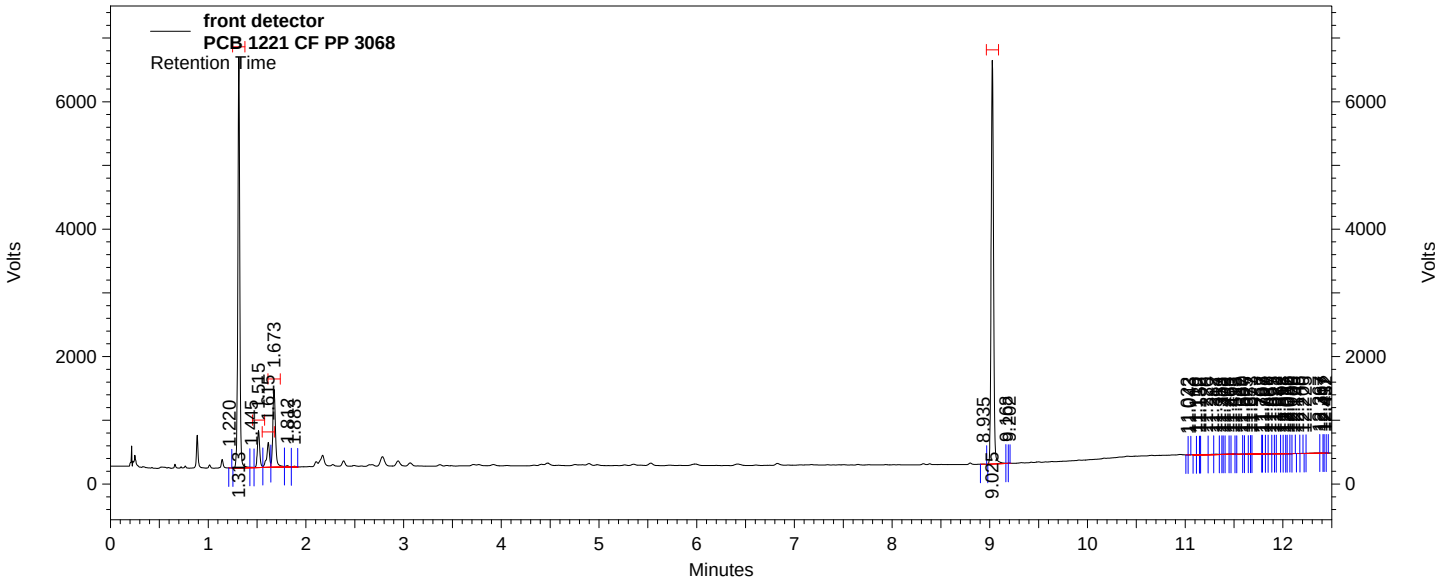
	Level 1
Amount	100
Area	65683213
RF	656832.13
Last Area	
Residual	0
Rep StDev	
Rep %RSD	
Rep 1 Area	65683213
Rep 1 User	jjy
Rep 1 Data File	C:\Instarch\Semi7\Data\111110pcbic\018.dat
Rep 1 Sample ID	PCB 1268 CF PP 3072
Rep 1 Calib. Time	11/12/2010 8:50:47 AM

PCB Analysis Report (1221) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\012.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
User: jjy
Sample ID: PCB 1221 CF PP 3068
Acquired: 11/11/2010 7:19:08 PM
Printed: 11/15/2010 1:51:03 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

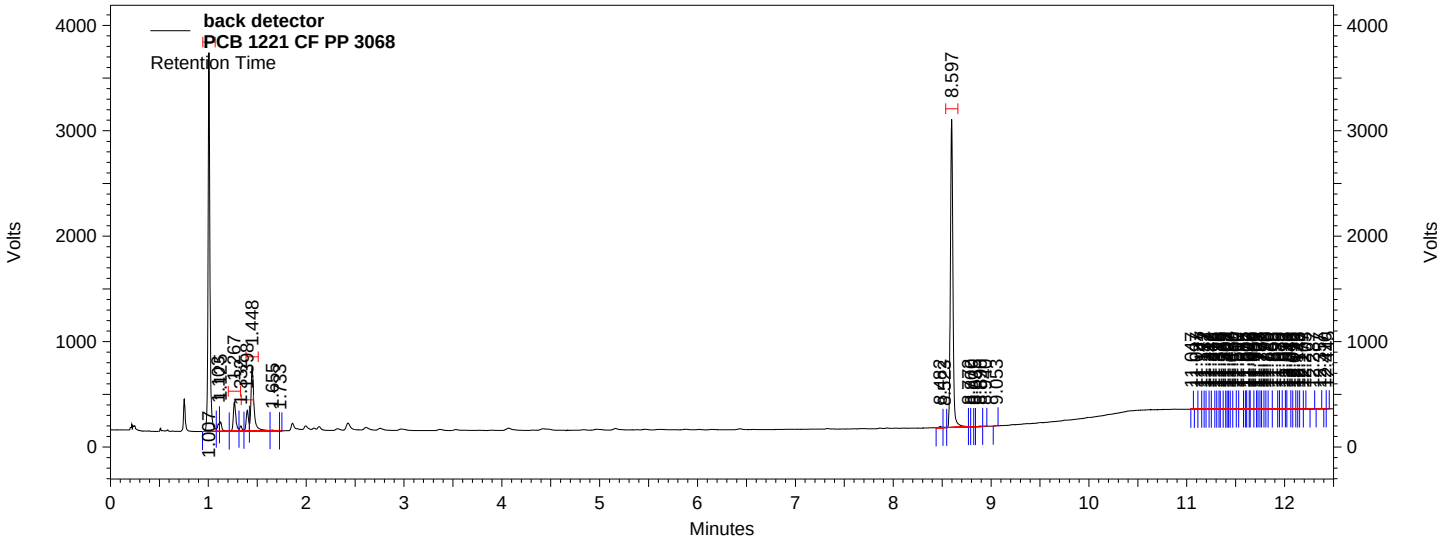
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	68646412	100.000 CAL
Aroclor 1221 #1	1.515	7292227	0.167 CAL
Aroclor 1221 #2	1.615	5998423	0.167 CAL
Aroclor 1221 #3	1.673	17583296	0.167 CAL
SURRDCB	9.025	82801517	100.000 CAL
Aroclor 1221		30873946	0.501 CAL

PCB Analysis Report (1221) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\012.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
User: jjy
Sample ID: PCB 1221 CF PP 3068
Acquired: 11/11/2010 7:19:08 PM
Printed: 11/15/2010 1:51:03 PM

JJY
11/15/10

Data Summary: {Data Description}



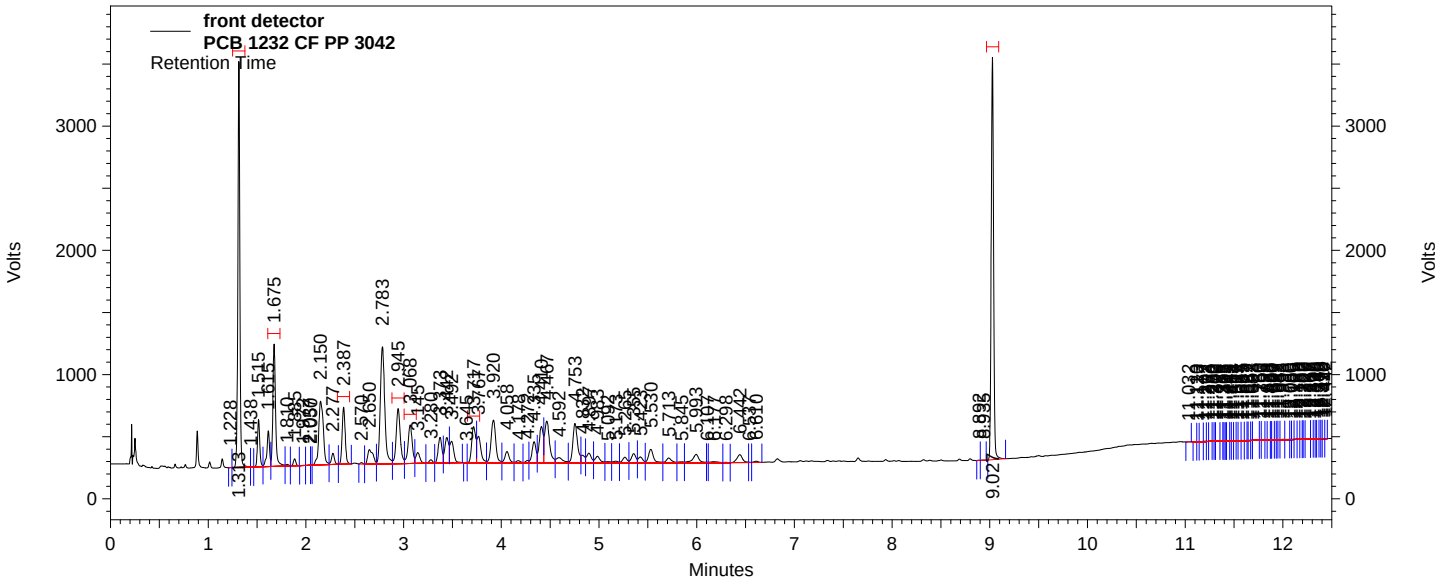
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	36158697	100.000 CAL
Aroclor 1221 #1	1.267	3871112	0.167 CAL
Aroclor 1221 #2	1.398	2545612	0.167 CAL
Aroclor 1221 #3	1.448	10008734	0.167 CAL
SURRDCB	8.597	40801469	100.000 CAL
Aroclor 1221		16425458	0.501 CAL

PCB Analysis Report (1232) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\013.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
User: jjy
Sample ID: PCB 1232 CF PP 3042 JJY
Acquired: 11/11/2010 7:34:49 PM 11/15/10
Printed: 11/15/2010 1:51:12 PM

Data Summary: {Data Description}



front detector Results

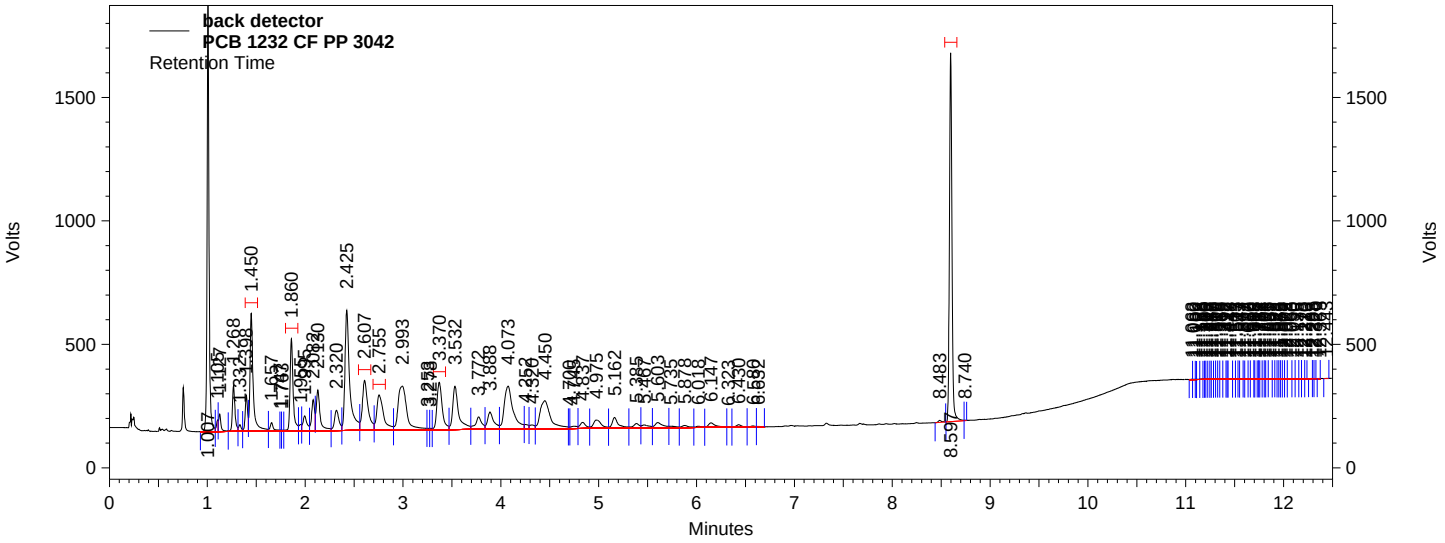
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	35544398	100.000 CAL
Aroclor 1232 #1	1.675	14264739	0.100 CAL
Aroclor 1232 #2	2.387	7665796	0.100 CAL
Aroclor 1232 #3	2.945	10070000	0.100 CAL
Aroclor 1232 #4	3.068	7036843	0.100 CAL
Aroclor 1232 #5	3.717	6308673	0.100 CAL
SURRDCB	9.027	42263613	100.000 CAL
Aroclor 1232		45346051	0.500 CAL

PCB Analysis Report (1232) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\013.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
User: jjy
Sample ID: PCB 1232 CF PP 3042
Acquired: 11/11/2010 7:34:49 PM
Printed: 11/15/2010 1:51:12 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

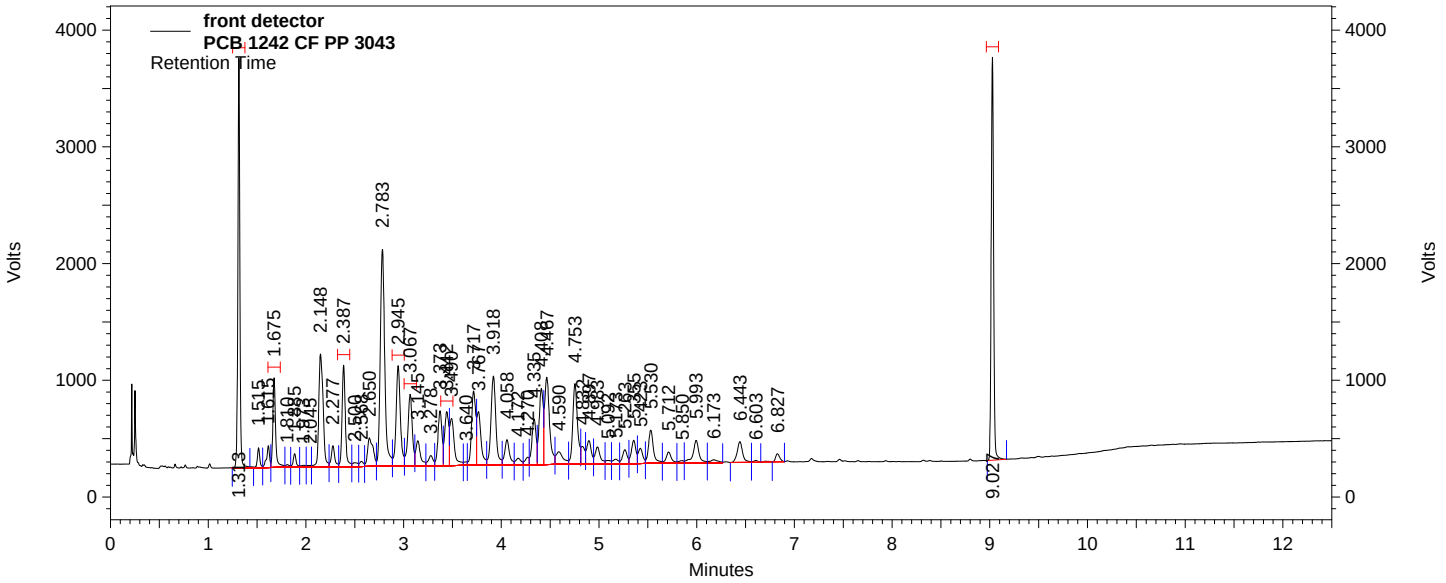
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	18388009	100.000 CAL
Aroclor 1232 #1	1.450	8242035	0.100 CAL
Aroclor 1232 #2	1.860	6293900	0.100 CAL
Aroclor 1232 #3	2.607	6214305	0.100 CAL
Aroclor 1232 #4	2.755	5274465	0.100 CAL
Aroclor 1232 #5	3.370	5487232	0.100 CAL
SURRDCB	8.597	20842377	100.000 CAL
Aroclor 1232		31511937	0.500 CAL

PCB Analysis Report (1242) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\014.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
User: jjy
Sample ID: PCB 1242 CF PP 3043
Acquired: 11/11/2010 7:50:34 PM
Printed: 11/15/2010 1:51:21 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

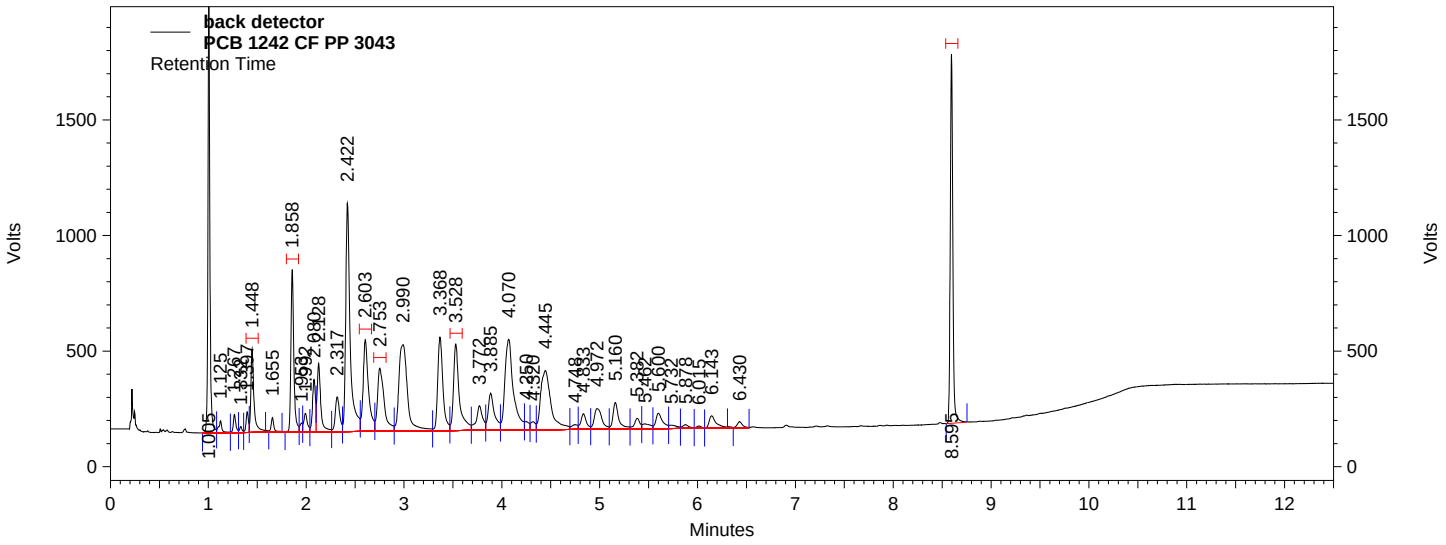
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	38173877	100.000 CAL
Aroclor 1242 #1	1.675	11435620	0.100 CAL
Aroclor 1242 #2	2.387	15730793	0.100 CAL
Aroclor 1242 #3	2.945	20340031	0.100 CAL
Aroclor 1242 #4	3.067	14676452	0.100 CAL
Aroclor 1242 #5	3.442	10068554	0.100 CAL
SURRDCB	9.027	45607215	100.000 CAL
Aroclor 1242		72251450	0.500 CAL

PCB Analysis Report (1242) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\014.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
User: jjy
Sample ID: PCB 1242 CF PP 3043
Acquired: 11/11/2010 7:50:34 PM
Printed: 11/15/2010 1:51:21 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

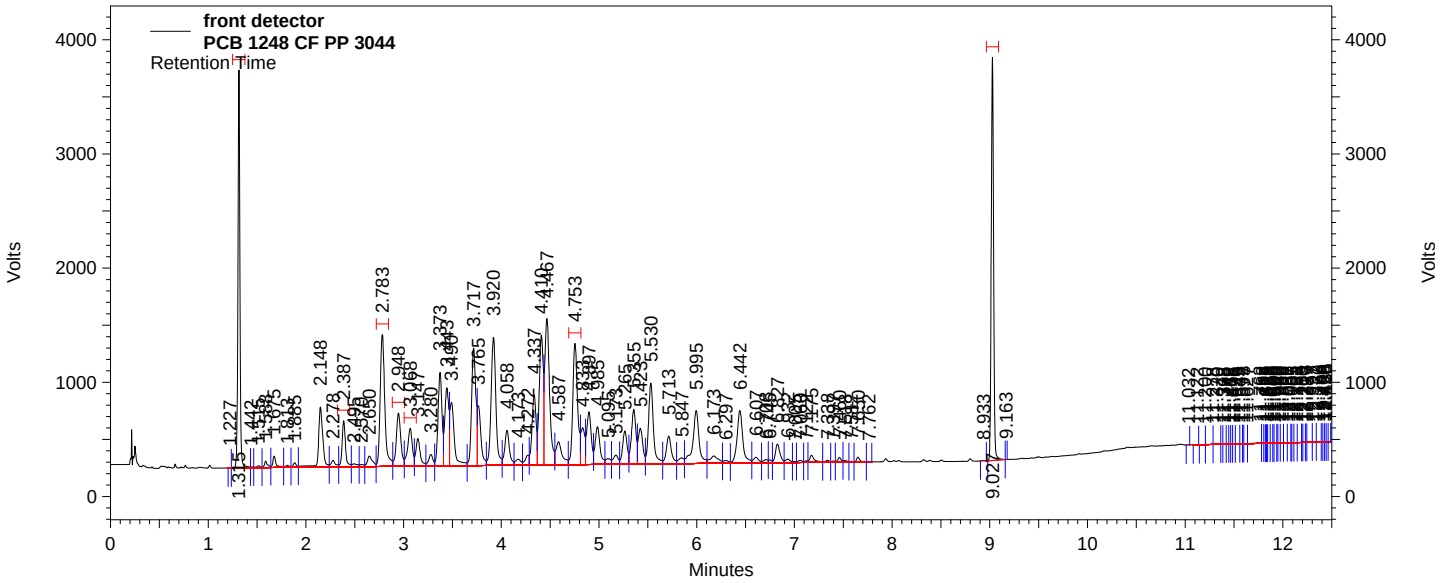
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.005	19764225	100.000 CAL
Aroclor 1242 #1	1.448	6147131	0.100 CAL
Aroclor 1242 #2	1.858	11233728	0.100 CAL
Aroclor 1242 #3	2.603	11643103	0.100 CAL
Aroclor 1242 #4	2.753	9895830	0.100 CAL
Aroclor 1242 #5	3.528	11923842	0.100 CAL
SURRDCB	8.595	22487451	100.000 CAL
Aroclor 1242		50843634	0.500 CAL

PCB Analysis Report (1248) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\015.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
User: jjy
Sample ID: PCB 1248 CF PP 3044
Acquired: 11/11/2010 8:06:17 PM
Printed: 11/15/2010 1:51:30 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

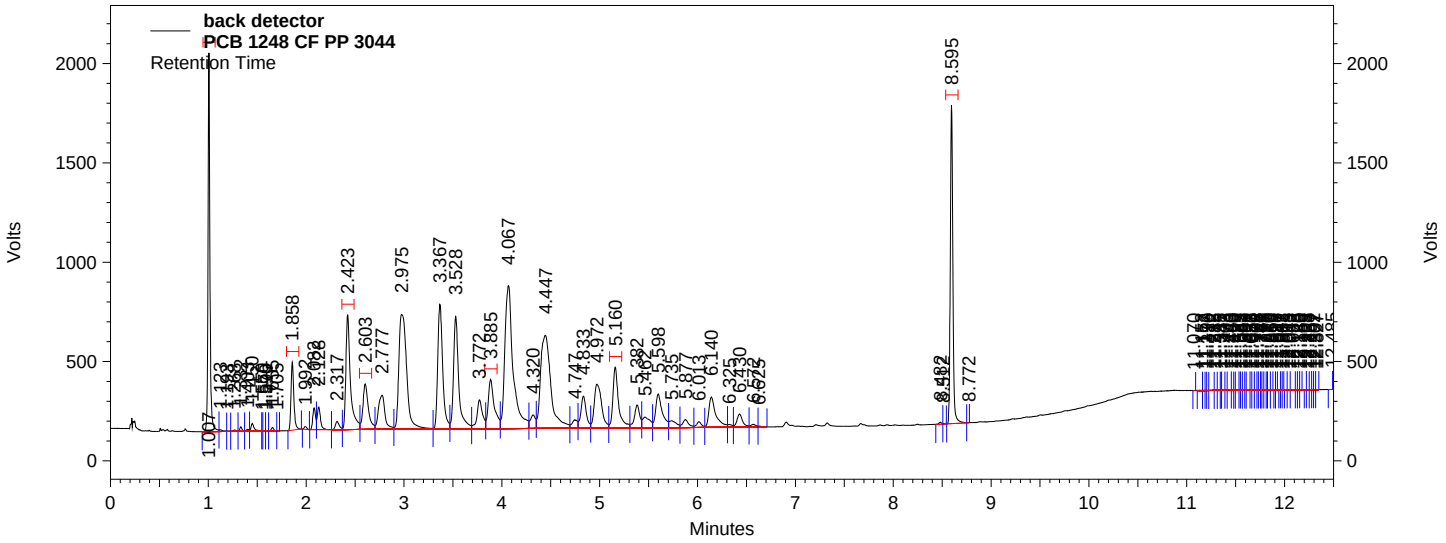
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.315	37498125	100.000 CAL
Aroclor 1248 #1	2.387	7544494	0.100 CAL
Aroclor 1248 #2	2.783	29058607	0.100 CAL
Aroclor 1248 #3	2.948	11635053	0.100 CAL
Aroclor 1248 #4	3.068	8431591	0.100 CAL
Aroclor 1248 #5	4.753	27634595	0.100 CAL
SURRDCB	9.027	45681722	100.000 CAL
Aroclor 1248		84304340	0.500 CAL

PCB Analysis Report (1248) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\015.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
User: jjy
Sample ID: PCB 1248 CF PP 3044
Acquired: 11/11/2010 8:06:17 PM
Printed: 11/15/2010 1:51:30 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

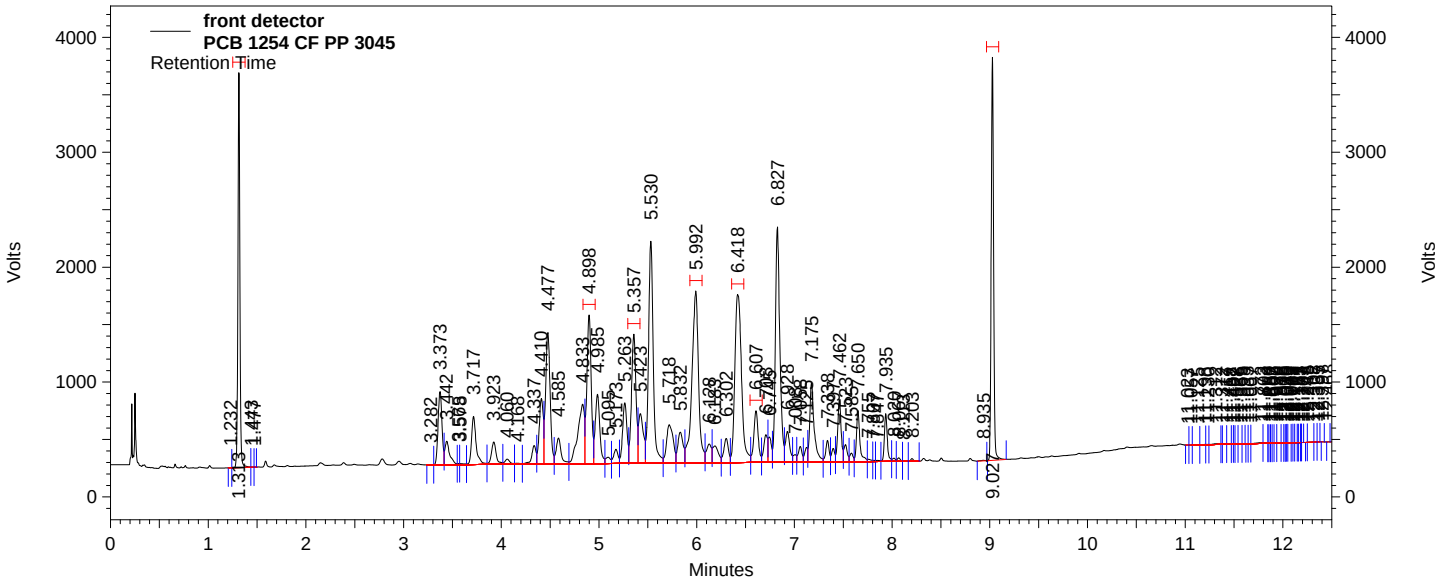
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	19667257	100.000 CAL
Aroclor 1248 #1	1.858	5316395	0.100 CAL
Aroclor 1248 #2	2.423	14495289	0.100 CAL
Aroclor 1248 #3	2.603	6796372	0.100 CAL
Aroclor 1248 #4	3.885	8239344	0.100 CAL
Aroclor 1248 #5	5.160	9445636	0.100 CAL
SURRDCB	8.595	22499817	100.000 CAL
Aroclor 1248		44293036	0.500 CAL

PCB Analysis Report (1254) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\016.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
User: jjy
Sample ID: PCB 1254 CF PP 3045
Acquired: 11/11/2010 8:21:56 PM
Printed: 11/15/2010 1:51:39 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

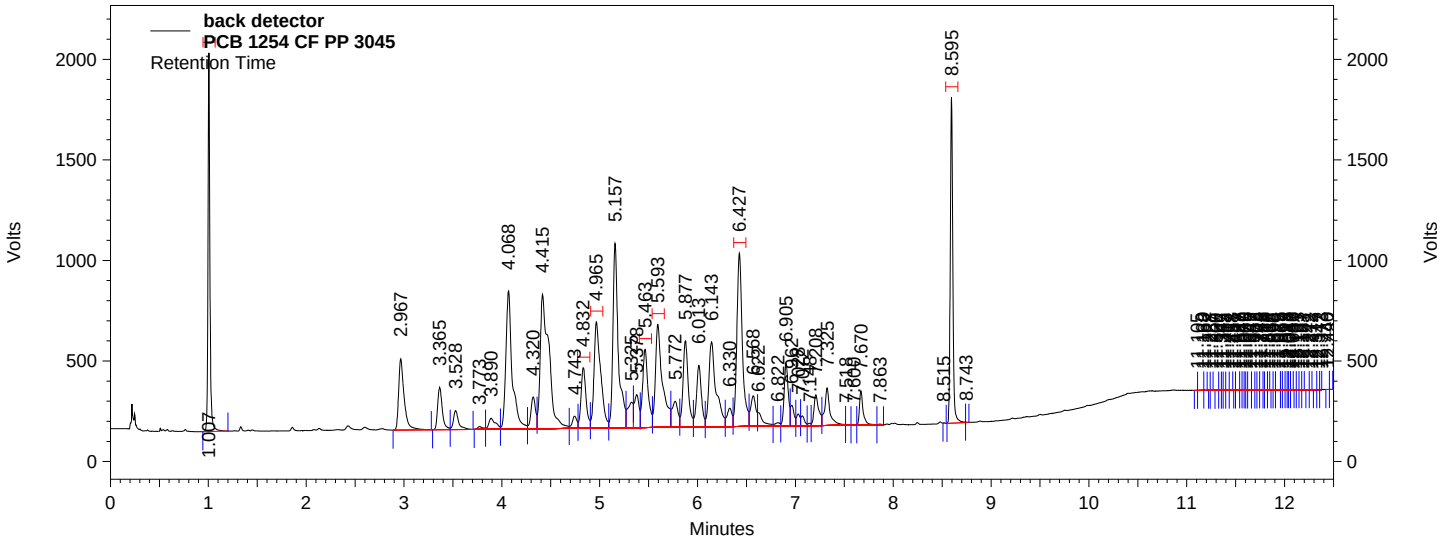
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	36802940	100.000 CAL
Aroclor 1254 #1	4.898	31168777	0.100 CAL
Aroclor 1254 #2	5.357	27669320	0.100 CAL
Aroclor 1254 #3	5.992	53760384	0.100 CAL
Aroclor 1254 #4	6.418	53517485	0.100 CAL
Aroclor 1254 #5	6.607	10918796	0.100 CAL
SURRDCB	9.027	45787981	100.000 CAL
Aroclor 1254		177034762	0.500 CAL

PCB Analysis Report (1254) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\016.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
User: jjy
Sample ID: PCB 1254 CF PP 3045
Acquired: 11/11/2010 8:21:56 PM
Printed: 11/15/2010 1:51:39 PM

JJY
11/15/10

Data Summary: {Data Description}



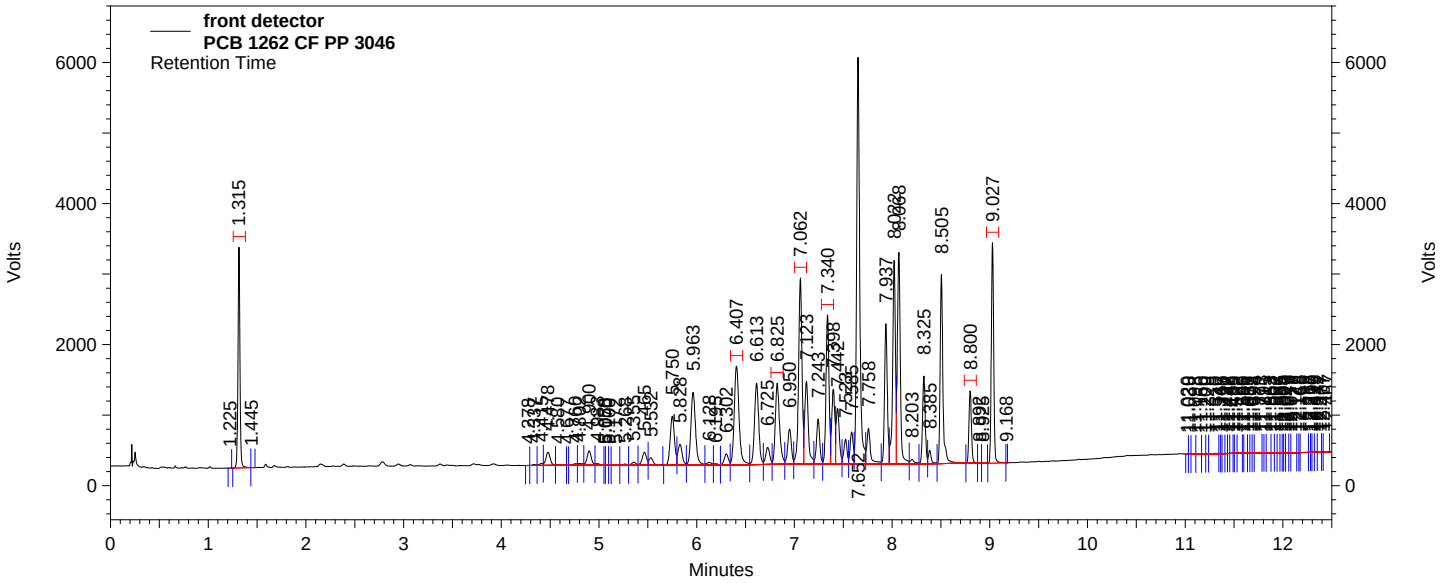
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	19538986	100.000 CAL
Aroclor 1254 #1	4.832	8155349	0.100 CAL
Aroclor 1254 #2	4.965	19231434	0.100 CAL
Aroclor 1254 #3	5.463	11481433	0.100 CAL
Aroclor 1254 #4	5.593	19624344	0.100 CAL
Aroclor 1254 #5	6.427	26105580	0.100 CAL
SURRDCB	8.595	22599379	100.000 CAL
Aroclor 1254		84598140	0.500 CAL

PCB Analysis Report (1262) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\017.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
User: jjy
Sample ID: PCB 1262 CF PP 3046
Acquired: 11/11/2010 8:37:33 PM JJY
Printed: 11/15/2010 1:51:48 PM 11/15/10

Data Summary: {Data Description}



front detector Results

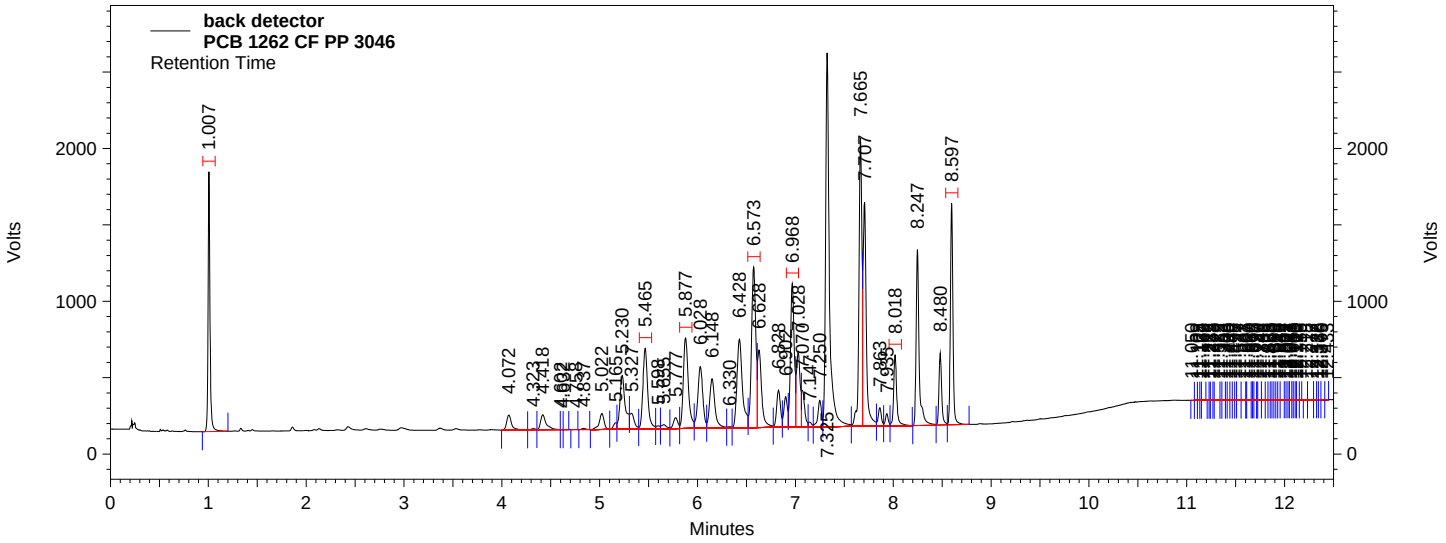
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.315	33545486	100.000 CAL
Aroclor 1262 #1	6.407	37104811	0.100 CAL
Aroclor 1262 #2	6.825	26447008	0.100 CAL
Aroclor 1262 #3	7.062	49827180	0.100 CAL
Aroclor 1262 #4	7.340	35564856	0.100 CAL
Aroclor 1262 #5	8.800	13909618	0.100 CAL
SURRDCB	9.027	40861662	100.000 CAL
Aroclor 1262		162853473	0.500 CAL

PCB Analysis Report (1262) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\017.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
User: jjy
Sample ID: PCB 1262 CF PP 3046
Acquired: 11/11/2010 8:37:33 PM
Printed: 11/15/2010 1:51:48 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

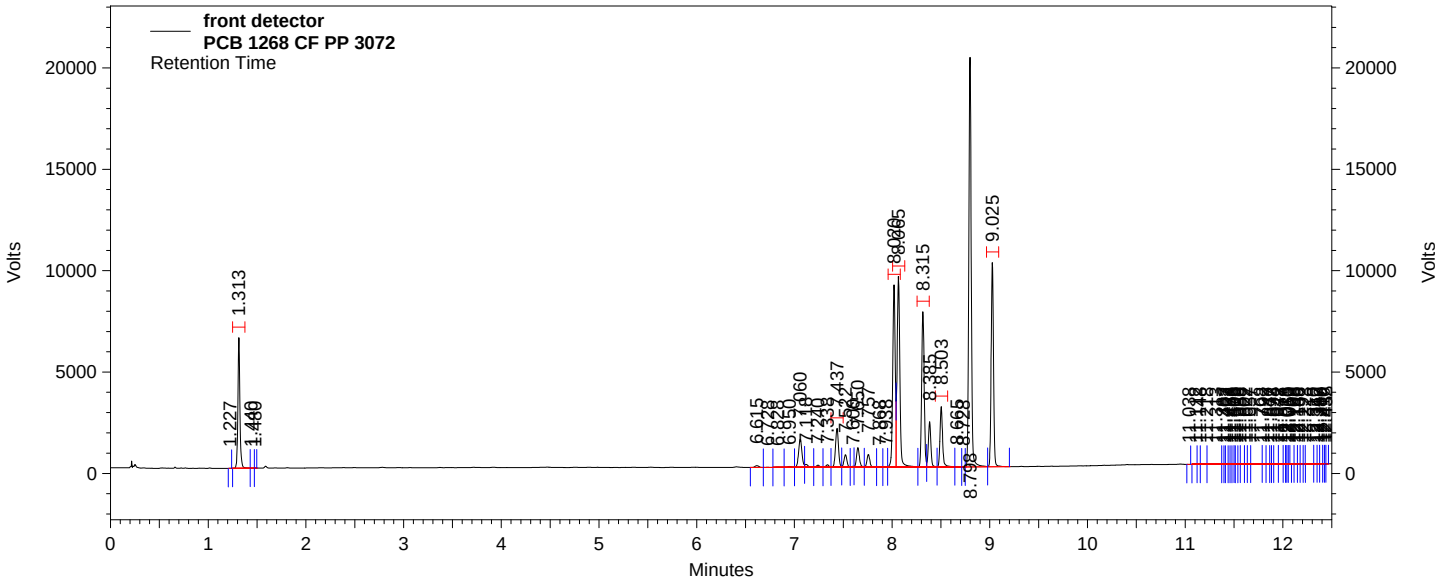
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	17665491	100.000 CAL
Aroclor 1262 #1	5.465	13613017	0.100 CAL
Aroclor 1262 #2	5.877	16210590	0.100 CAL
Aroclor 1262 #3	6.573	24299187	0.100 CAL
Aroclor 1262 #4	6.968	19498286	0.100 CAL
Aroclor 1262 #5	8.018	7829570	0.100 CAL
SURRDCB	8.597	20314759	100.000 CAL
Aroclor 1262		81450650	0.500 CAL

PCB Analysis Report (1268) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\018.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
User: jjy
Sample ID: PCB 1268 CF PP 3072
Acquired: 11/11/2010 8:53:10 PM
Printed: 11/15/2010 1:51:57 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

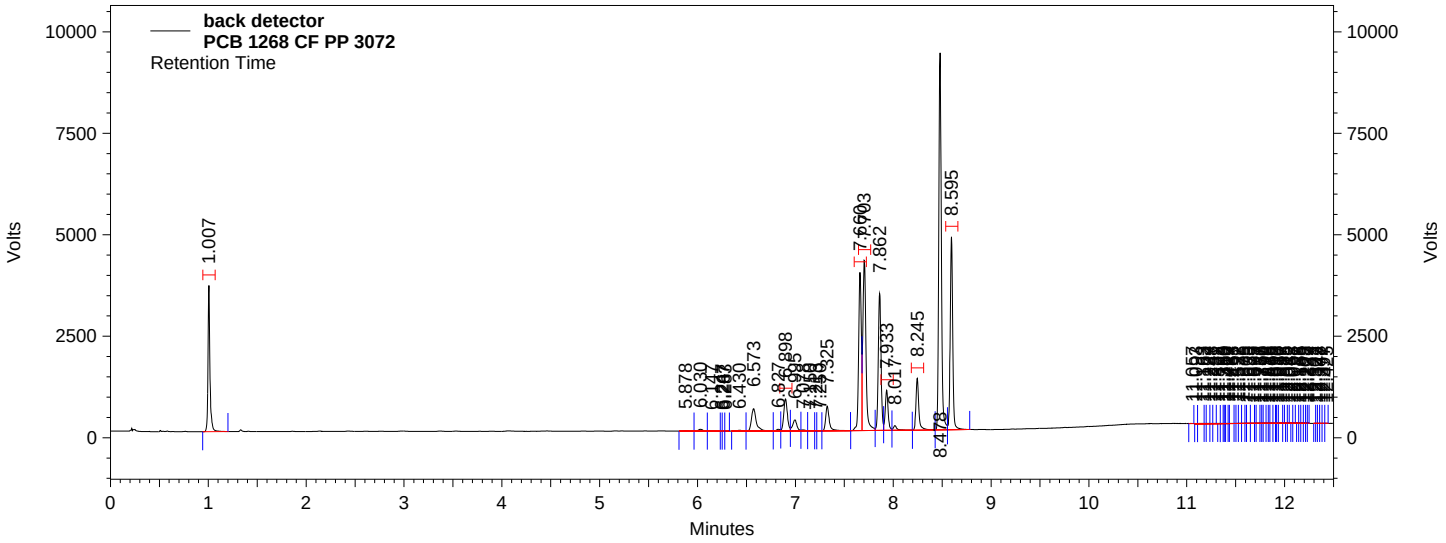
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	71352523	100.000 CAL
Aroclor 1268 #1	7.437	31578151	0.100 CAL
Aroclor 1268 #2	8.020	125426730	0.100 CAL
Aroclor 1268 #3	8.065	140711401	0.100 CAL
Aroclor 1268 #4	8.315	104994511	0.100 CAL
Aroclor 1268 #5	8.503	42146476	0.100 CAL
SURRDCB	9.025	129737545	100.000 CAL
Aroclor 1268		444857269	0.500 CAL

PCB Analysis Report (1268) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\018.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
User: jjy
Sample ID: PCB 1268 CF PP 3072
Acquired: 11/11/2010 8:53:10 PM
Printed: 11/15/2010 1:51:57 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	38397011	100.000 CAL
Aroclor 1268 #1	6.898	15516764	0.100 CAL
Aroclor 1268 #2	7.660	57901303	0.100 CAL
Aroclor 1268 #3	7.703	69934319	0.100 CAL
Aroclor 1268 #4	7.933	15412498	0.100 CAL
Aroclor 1268 #5	8.245	20162355	0.100 CAL
SURRDCB	8.595	65683213	100.000 CAL
Aroclor 1268		178927239	0.500 CAL

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:52:21 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\020.dat	PCB 1221 ICV PP 3069	11/15/2010 1:52:21 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	93.467	6.533	20.000	Passed
Aroclor 1221 #1	0.167	0.154	7.696	20.000	Passed
Aroclor 1221 #2	0.167	0.155	7.027	20.000	Passed
Aroclor 1221 #3	0.167	0.155	7.447	20.000	Passed
SURRDCB	100.000	93.865	6.135	20.000	Passed
Aroclor 1221	0.500	0.464	7.205	20.000	Passed

back detector

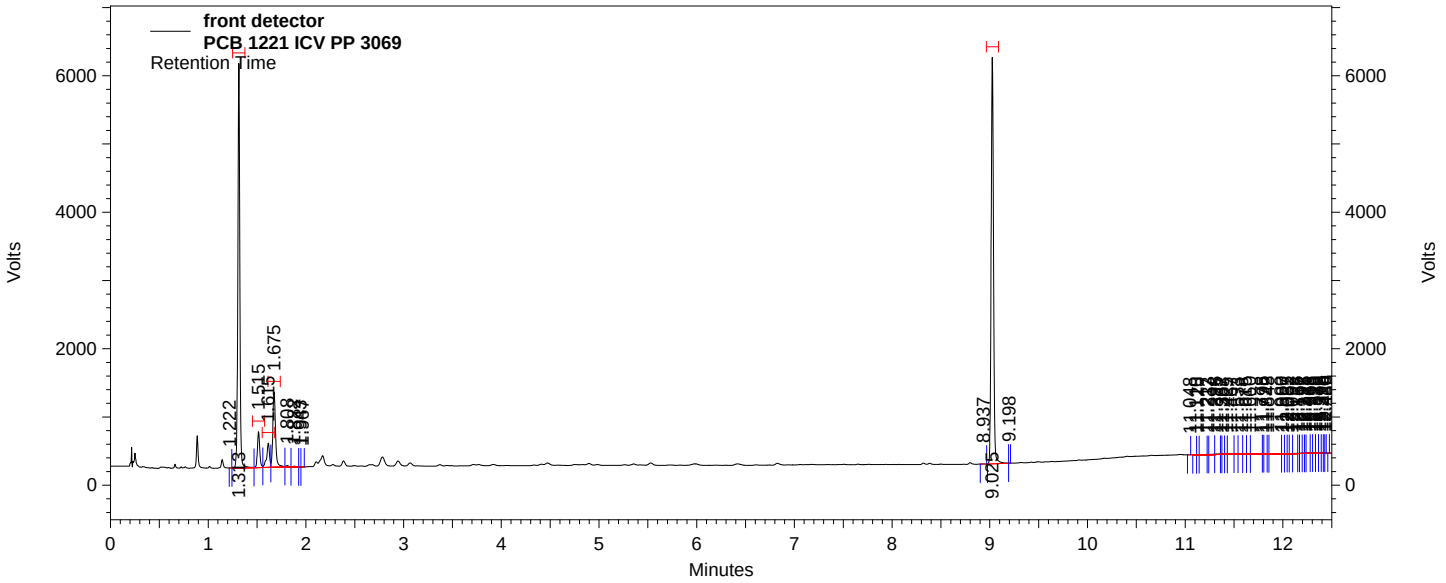
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	93.682	6.318	20.000	Passed
Aroclor 1221 #1	0.167	0.153	8.501	20.000	Passed
Aroclor 1221 #2	0.167	0.157	6.204	20.000	Passed
Aroclor 1221 #3	0.167	0.154	8.010	20.000	Passed
SURRDCB	100.000	94.676	5.324	20.000	Passed
Aroclor 1221	0.500	0.463	7.387	20.000	Passed

PCB Analysis Report (1221) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\020.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
User: jjy
Sample ID: PCB 1221 ICV PP 3069
Acquired: 11/11/2010 9:24:25 PM
Printed: 11/15/2010 1:52:13 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

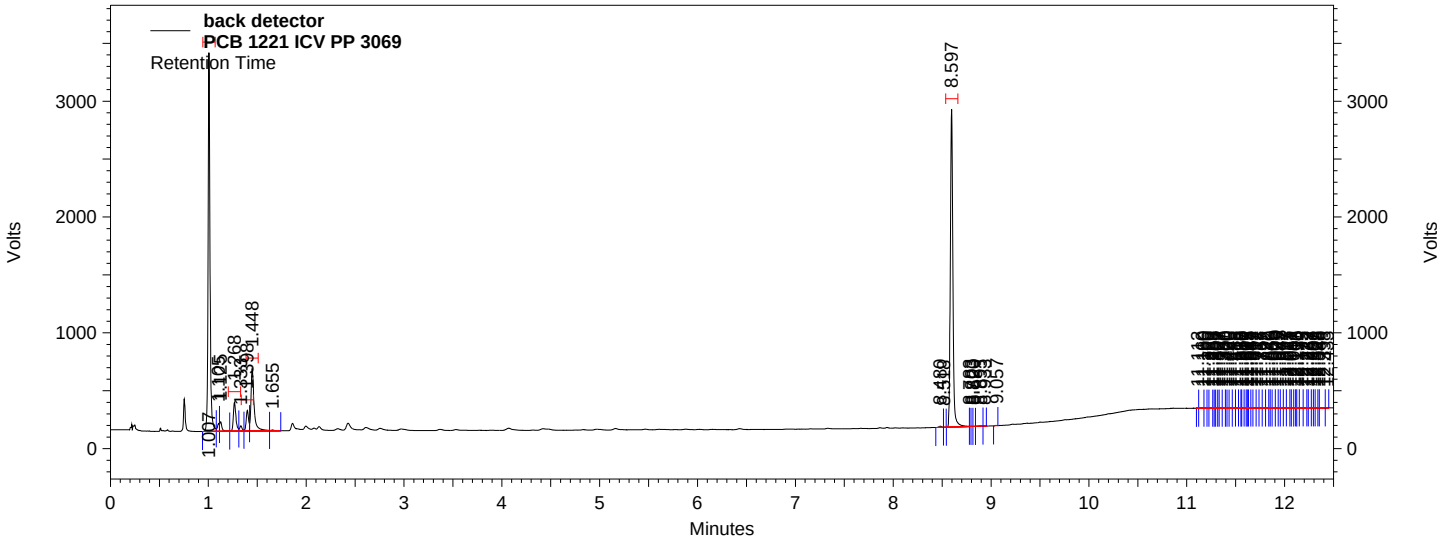
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	64161568	93.467
Aroclor 1221 #1	1.515	6731038	0.154
Aroclor 1221 #2	1.615	5576930	0.155
Aroclor 1221 #3	1.675	16273881	0.155
SURRDCB	9.025	77721948	93.865
Aroclor 1221		28581849	0.464

PCB Analysis Report (1221) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\020.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1221.met
User: jjy
Sample ID: PCB 1221 ICV PP 3069
Acquired: 11/11/2010 9:24:25 PM
Printed: 11/15/2010 1:52:13 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	33874104	93.682
Aroclor 1221 #1	1.268	3542016	0.153
Aroclor 1221 #2	1.398	2387678	0.157
Aroclor 1221 #3	1.448	9207014	0.154
SURRDCB	8.597	38629062	94.676
Aroclor 1221		15136708	0.463

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:52:37 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\021.dat	PCB 1232 ICV PP 3048	11/15/2010 1:52:37 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	108.092	8.092	20.000	Passed
Aroclor 1232 #1	0.100	0.108	8.158	20.000	Passed
Aroclor 1232 #2	0.100	0.111	10.603	20.000	Passed
Aroclor 1232 #3	0.100	0.111	10.730	20.000	Passed
Aroclor 1232 #4	0.100	0.111	10.589	20.000	Passed
Aroclor 1232 #5	0.100	0.113	12.774	20.000	Passed
SURRDCB	100.000	110.804	10.804	20.000	Passed
Aroclor 1232	0.500	0.553	10.571	20.000	Passed

back detector

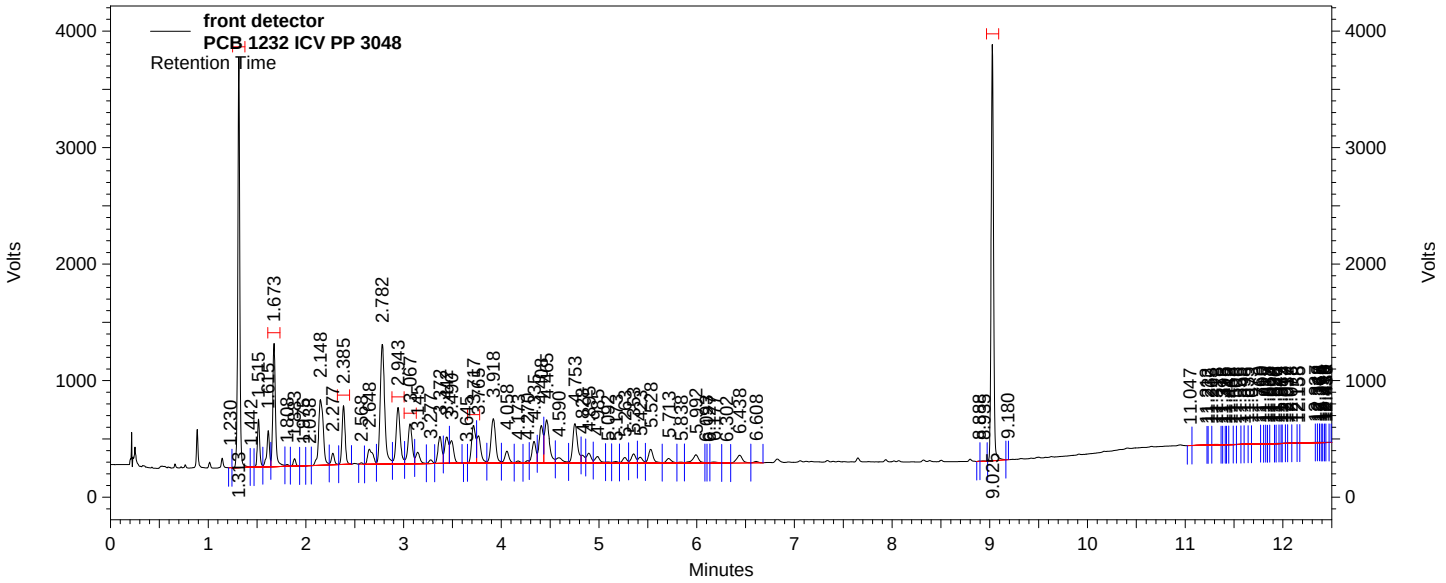
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	109.993	9.993	20.000	Passed
Aroclor 1232 #1	0.100	0.108	7.880	20.000	Passed
Aroclor 1232 #2	0.100	0.109	8.930	20.000	Passed
Aroclor 1232 #3	0.100	0.108	7.888	20.000	Passed
Aroclor 1232 #4	0.100	0.105	5.116	20.000	Passed
Aroclor 1232 #5	0.100	0.103	2.649	20.000	Passed
SURRDCB	100.000	112.014	12.014	20.000	Passed
Aroclor 1232	0.500	0.532	6.492	20.000	Passed

PCB Analysis Report (1232) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\021.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
User: jjy
Sample ID: PCB 1232 ICV PP 3048
Acquired: 11/11/2010 9:40:04 PM
Printed: 11/15/2010 1:52:34 PM

JJY
11/15/10

Data Summary: {Data Description}



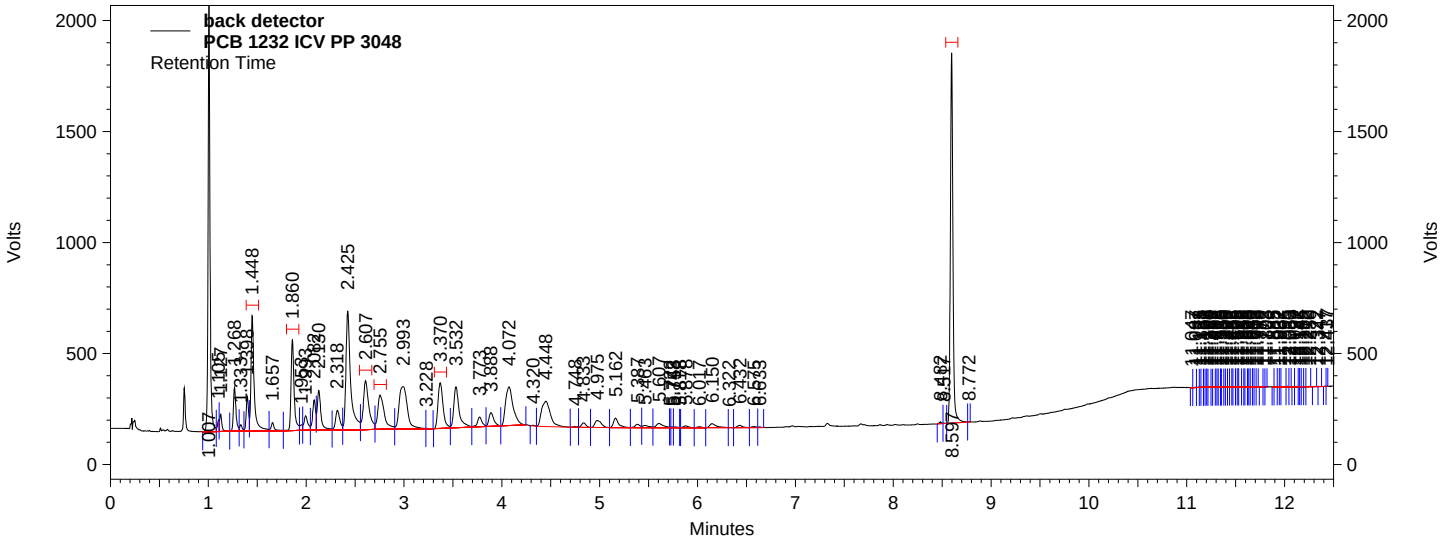
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	38420541	108.092
Aroclor 1232 #1	1.673	15428523	0.108
Aroclor 1232 #2	2.385	8478623	0.111
Aroclor 1232 #3	2.943	11150513	0.111
Aroclor 1232 #4	3.067	7781997	0.111
Aroclor 1232 #5	3.717	7114557	0.113
SURRDCB	9.025	46829701	110.804
Aroclor 1232		49954213	0.553

PCB Analysis Report (1232) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\021.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1232.met
User: jjy
Sample ID: PCB 1232 ICV PP 3048
Acquired: 11/11/2010 9:40:04 PM JJY
Printed: 11/15/2010 1:52:34 PM 11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	20225544	109.993
Aroclor 1232 #1	1.448	8891468	0.108
Aroclor 1232 #2	1.860	6855947	0.109
Aroclor 1232 #3	2.607	6704461	0.108
Aroclor 1232 #4	2.755	5544292	0.105
Aroclor 1232 #5	3.370	5632596	0.103
SURRDCB	8.597	23346411	112.014
Aroclor 1232		33628764	0.532

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:52:57 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\022.dat	PCB 1242 ICV PP 3049	11/15/2010 1:52:57 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	101.124	1.124	20.000	Passed
Aroclor 1242 #1	0.100	0.102	1.703	20.000	Passed
Aroclor 1242 #2	0.100	0.102	1.709	20.000	Passed
Aroclor 1242 #3	0.100	0.101	1.427	20.000	Passed
Aroclor 1242 #4	0.100	0.101	1.236	20.000	Passed
Aroclor 1242 #5	0.100	0.102	2.278	20.000	Passed
SURRDCB	100.000	102.870	2.870	20.000	Passed
Aroclor 1242	0.500	0.508	1.671	20.000	Passed

back detector

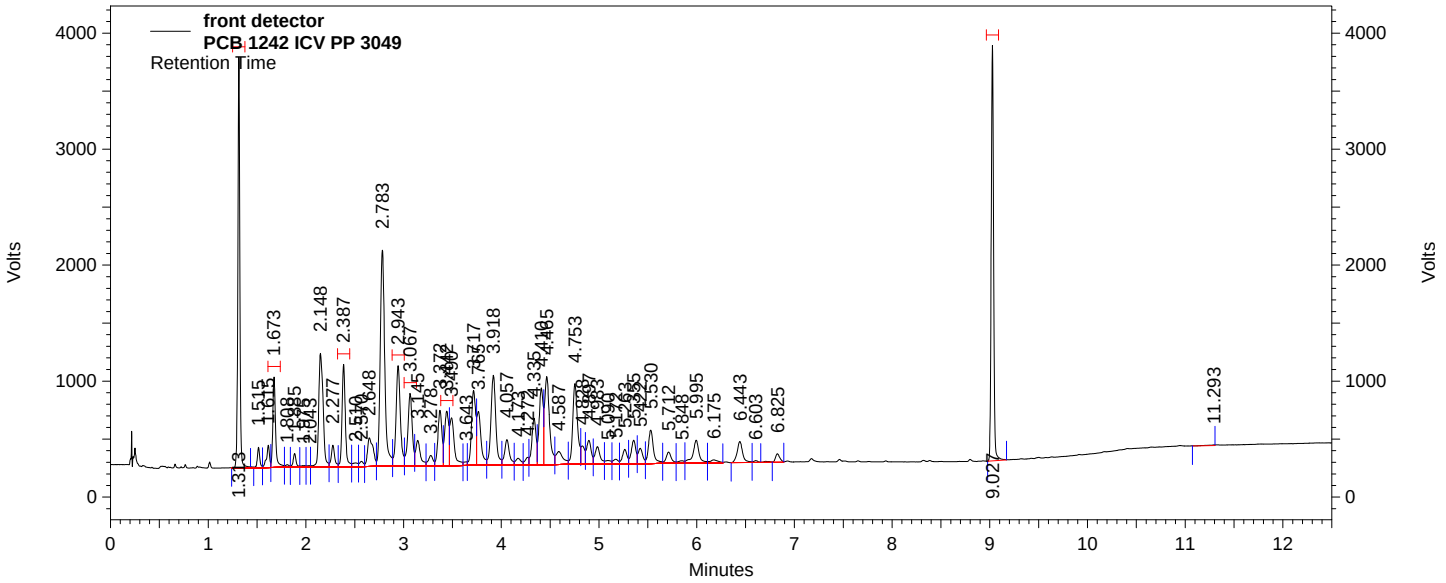
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	102.724	2.724	20.000	Passed
Aroclor 1242 #1	0.100	0.106	5.769	20.000	Passed
Aroclor 1242 #2	0.100	0.103	3.003	20.000	Passed
Aroclor 1242 #3	0.100	0.104	3.649	20.000	Passed
Aroclor 1242 #4	0.100	0.104	4.081	20.000	Passed
Aroclor 1242 #5	0.100	0.104	4.136	20.000	Passed
SURRDCB	100.000	103.950	3.950	20.000	Passed
Aroclor 1242	0.500	0.521	4.128	20.000	Passed

PCB Analysis Report (1242) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\022.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
User: jjy
Sample ID: PCB 1242 ICV PP 3049
Acquired: 11/11/2010 9:55:44 PM
Printed: 11/15/2010 1:52:52 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

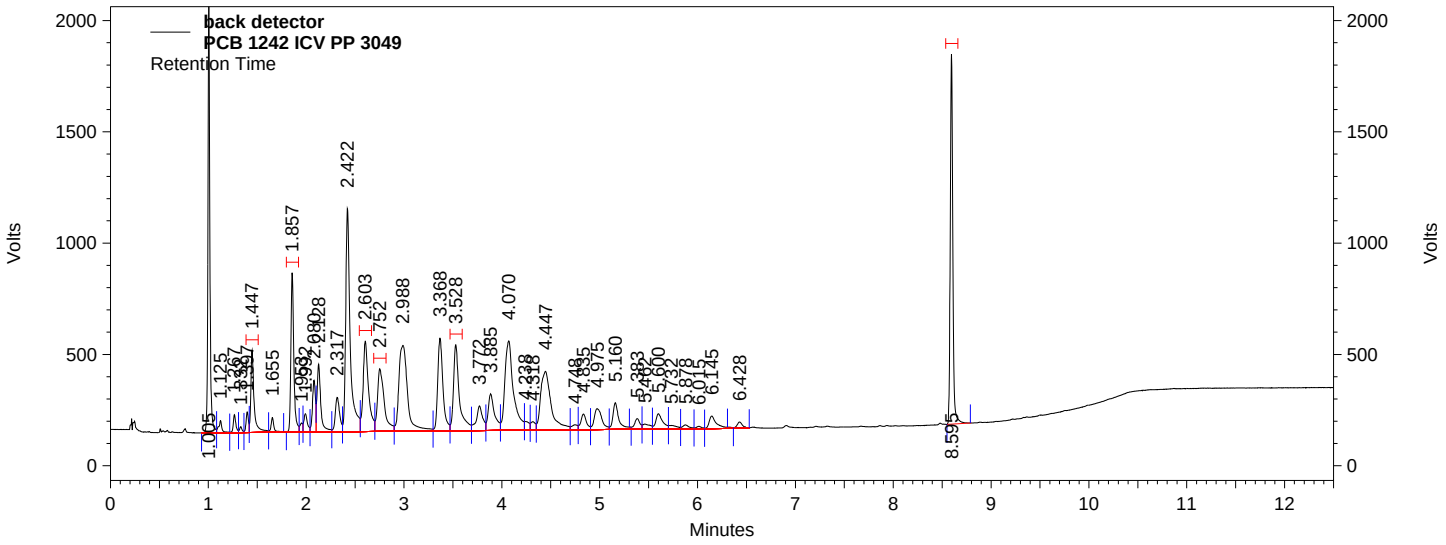
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	38602895	101.124
Aroclor 1242 #1	1.673	11630391	0.102
Aroclor 1242 #2	2.387	15999708	0.102
Aroclor 1242 #3	2.943	20630356	0.101
Aroclor 1242 #4	3.067	14857908	0.101
Aroclor 1242 #5	3.442	10297932	0.102
SURRDCB	9.027	46916289	102.870
Aroclor 1242		73416295	0.508

PCB Analysis Report (1242) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\022.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1242.met
User: jjy
Sample ID: PCB 1242 ICV PP 3049
Acquired: 11/11/2010 9:55:44 PM
Printed: 11/15/2010 1:52:52 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.005	20302676	102.724
Aroclor 1242 #1	1.447	6501760	0.106
Aroclor 1242 #2	1.857	11571104	0.103
Aroclor 1242 #3	2.603	12067965	0.104
Aroclor 1242 #4	2.752	10299715	0.104
Aroclor 1242 #5	3.528	12416992	0.104
SURRDCB	8.595	23375612	103.950
Aroclor 1242		52857536	0.521

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:53:13 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\023.dat	PCB 1248 ICV PP 3050	11/15/2010 1:53:13 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	95.865	4.135	20.000	Passed
Aroclor 1248 #1	0.100	0.100	0.445	20.000	Passed
Aroclor 1248 #2	0.100	0.098	1.935	20.000	Passed
Aroclor 1248 #3	0.100	0.099	1.401	20.000	Passed
Aroclor 1248 #4	0.100	0.099	1.294	20.000	Passed
Aroclor 1248 #5	0.100	0.097	3.362	20.000	Passed
SURRDCB	100.000	96.188	3.812	20.000	Passed
Aroclor 1248	0.500	0.492	1.510	20.000	Passed

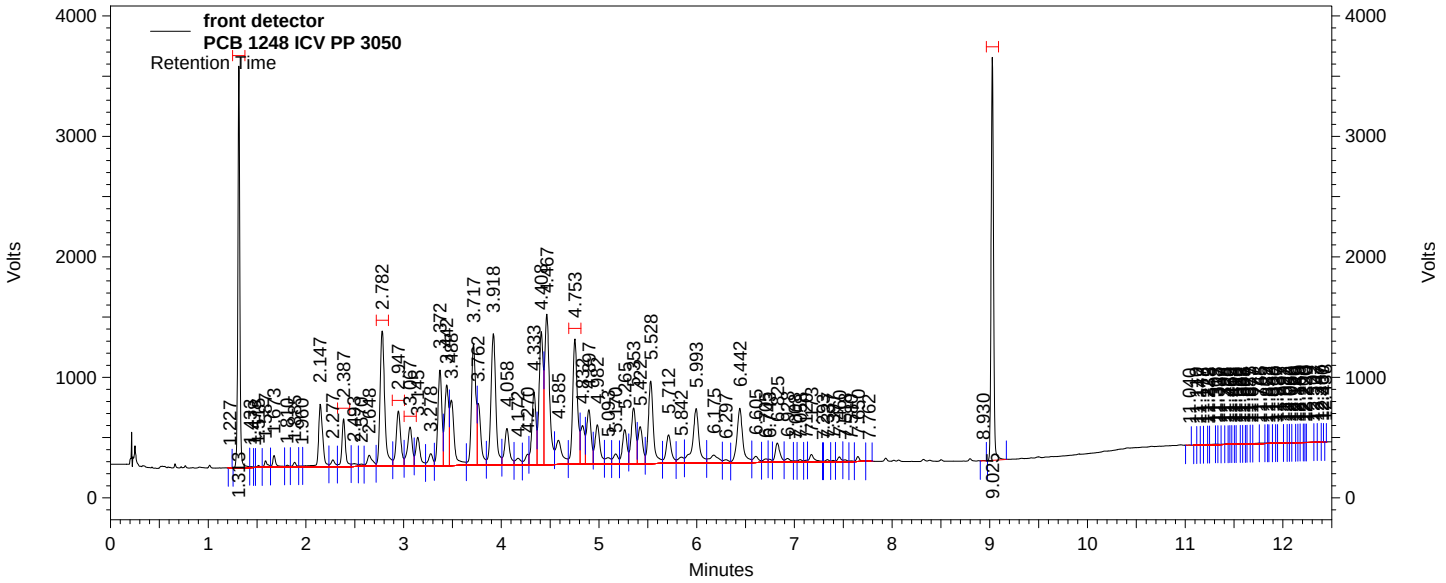
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	97.008	2.992	20.000	Passed
Aroclor 1248 #1	0.100	0.107	7.273	20.000	Passed
Aroclor 1248 #2	0.100	0.101	1.168	20.000	Passed
Aroclor 1248 #3	0.100	0.104	4.134	20.000	Passed
Aroclor 1248 #4	0.100	0.101	1.199	20.000	Passed
Aroclor 1248 #5	0.100	0.101	0.943	20.000	Passed
SURRDCB	100.000	97.401	2.599	20.000	Passed
Aroclor 1248	0.500	0.515	2.943	20.000	Passed

PCB Analysis Report (1248) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\023.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
User: jjy
Sample ID: PCB 1248 ICV PP 3050
Acquired: 11/11/2010 10:11:23 PM JJY
Printed: 11/15/2010 1:53:08 PM 11/15/10

Data Summary: {Data Description}



front detector Results

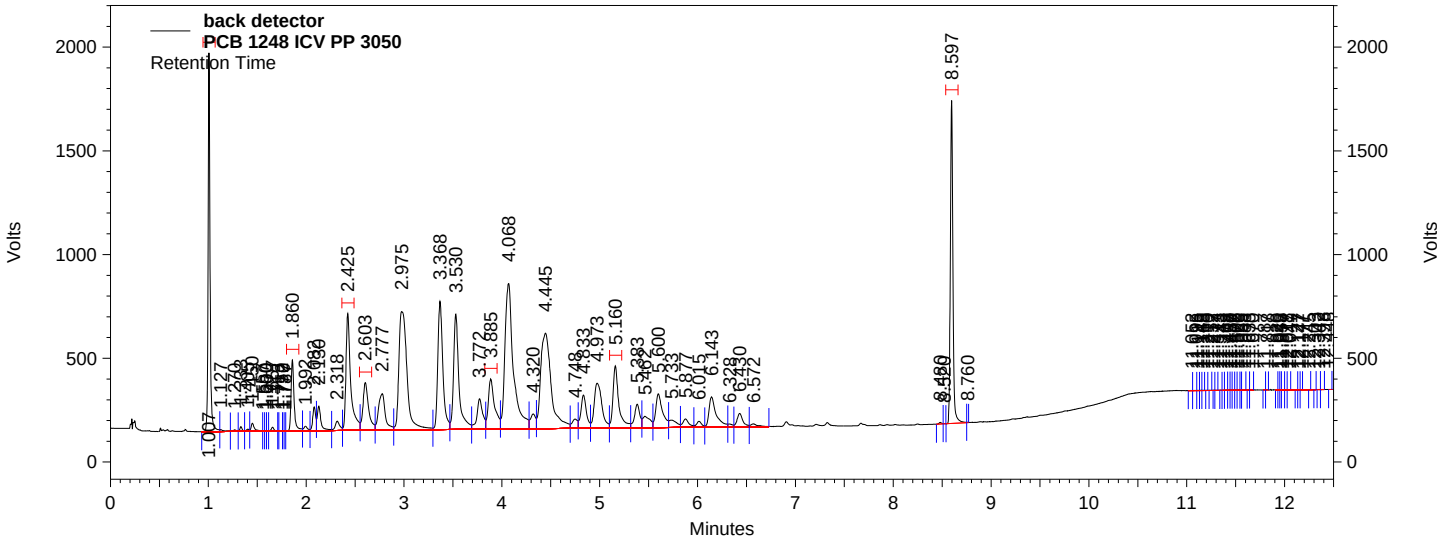
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	35947690	95.865
Aroclor 1248 #1	2.387	7578046	0.100
Aroclor 1248 #2	2.782	28496189	0.098
Aroclor 1248 #3	2.947	11472007	0.099
Aroclor 1248 #4	3.067	8322491	0.099
Aroclor 1248 #5	4.753	26705459	0.097
SURRDCB	9.025	43940343	96.188
Aroclor 1248		82574192	0.492

PCB Analysis Report (1248) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\023.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1248.met
User: jjy
Sample ID: PCB 1248 ICV PP 3050
Acquired: 11/11/2010 10:11:23 PM
Printed: 11/15/2010 1:53:08 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	19078729	97.008
Aroclor 1248 #1	1.860	5703045	0.107
Aroclor 1248 #2	2.425	14664584	0.101
Aroclor 1248 #3	2.603	7077314	0.104
Aroclor 1248 #4	3.885	8338156	0.101
Aroclor 1248 #5	5.160	9534739	0.101
SURRDCB	8.597	21915032	97.401
Aroclor 1248		45317838	0.515

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:53:28 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\024.dat	PCB 1254 ICV PP 3051	11/15/2010 1:53:28 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	105.048	5.048	20.000	Passed
Aroclor 1254 #1	0.100	0.104	4.317	20.000	Passed
Aroclor 1254 #2	0.100	0.104	4.252	20.000	Passed
Aroclor 1254 #3	0.100	0.105	4.996	20.000	Passed
Aroclor 1254 #4	0.100	0.105	5.115	20.000	Passed
Aroclor 1254 #5	0.100	0.106	5.971	20.000	Passed
SURRDCB	100.000	104.531	4.531	20.000	Passed
Aroclor 1254	0.500	0.525	4.930	20.000	Passed

back detector

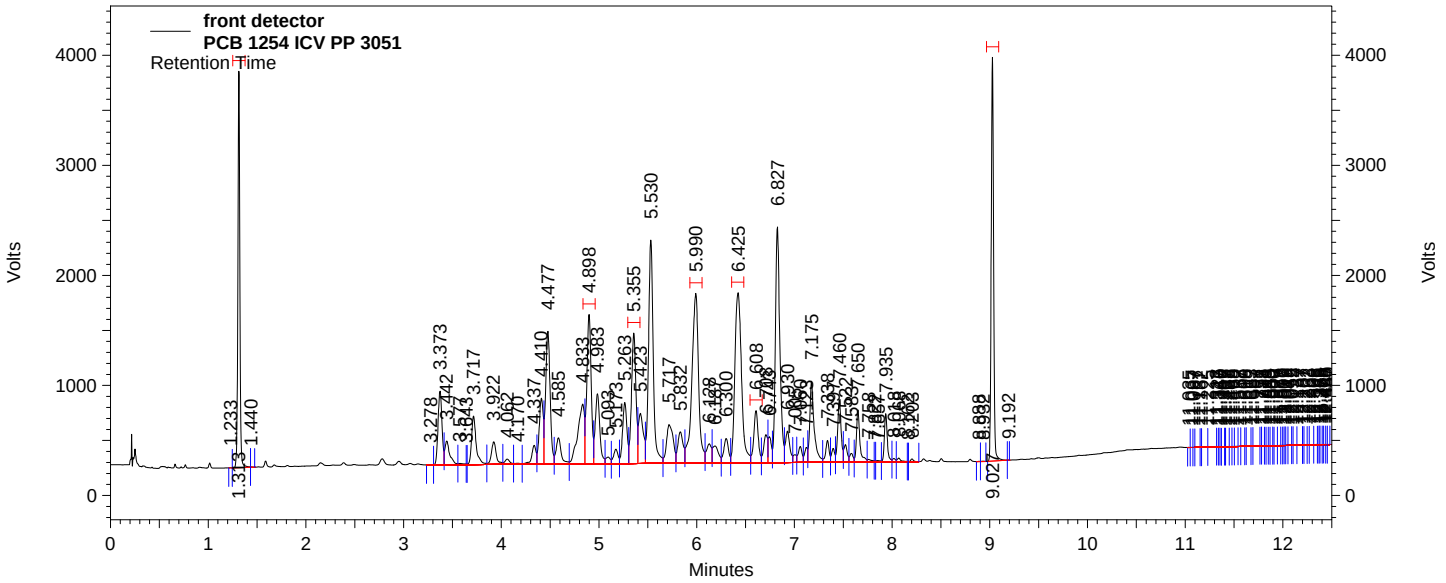
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	105.983	5.983	20.000	Passed
Aroclor 1254 #1	0.100	0.106	5.769	20.000	Passed
Aroclor 1254 #2	0.100	0.106	5.649	20.000	Passed
Aroclor 1254 #3	0.100	0.106	5.724	20.000	Passed
Aroclor 1254 #4	0.100	0.106	6.164	20.000	Passed
Aroclor 1254 #5	0.100	0.106	5.526	20.000	Passed
SURRDCB	100.000	105.240	5.240	20.000	Passed
Aroclor 1254	0.500	0.529	5.766	20.000	Passed

PCB Analysis Report (1254) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\024.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
User: jjy
Sample ID: PCB 1254 ICV PP 3051
Acquired: 11/11/2010 10:27:02 PM
Printed: 11/15/2010 1:53:24 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

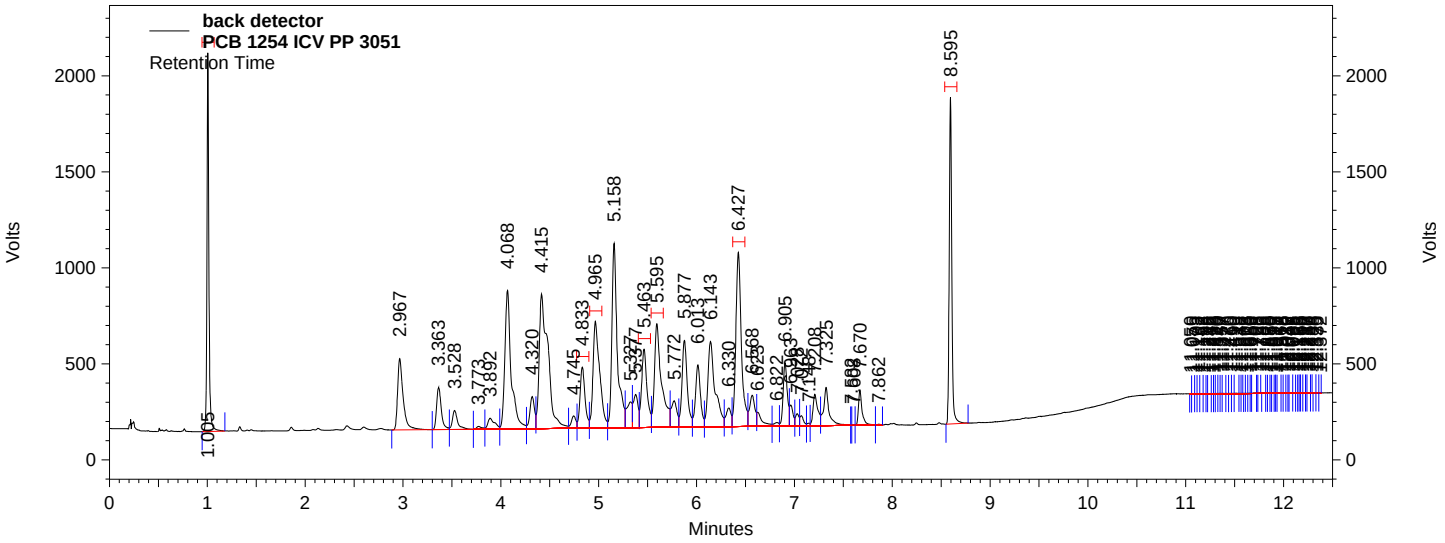
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	38660574	105.048
Aroclor 1254 #1	4.898	32514184	0.104
Aroclor 1254 #2	5.355	28845811	0.104
Aroclor 1254 #3	5.990	56446179	0.105
Aroclor 1254 #4	6.425	56254991	0.105
Aroclor 1254 #5	6.608	11570775	0.106
SURRDCB	9.027	47862528	104.531
Aroclor 1254		185631940	0.525

PCB Analysis Report (1254) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\024.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1254.met
User: jjy
Sample ID: PCB 1254 ICV PP 3051
Acquired: 11/11/2010 10:27:02 PM
Printed: 11/15/2010 1:53:24 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.005	20708011	105.983
Aroclor 1254 #1	4.833	8625833	0.106
Aroclor 1254 #2	4.965	20317767	0.106
Aroclor 1254 #3	5.463	12138618	0.106
Aroclor 1254 #4	5.595	20834002	0.106
Aroclor 1254 #5	6.427	27548173	0.106
SURRDCB	8.595	23783691	105.240
Aroclor 1254		89464393	0.529

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:53:43 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\025.dat	PCB 1262 ICV PP 3052	11/15/2010 1:53:43 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	114.383	14.383	20.000	Passed
Aroclor 1262 #1	0.100	0.115	15.198	20.000	Passed
Aroclor 1262 #2	0.100	0.116	16.230	20.000	Passed
Aroclor 1262 #3	0.100	0.116	15.572	20.000	Passed
Aroclor 1262 #4	0.100	0.114	14.369	20.000	Passed
Aroclor 1262 #5	0.100	0.118	18.414	20.000	Passed
SURRDCB	100.000	114.758	14.758	20.000	Passed
Aroclor 1262	0.500	0.580	15.957	20.000	Passed

back detector

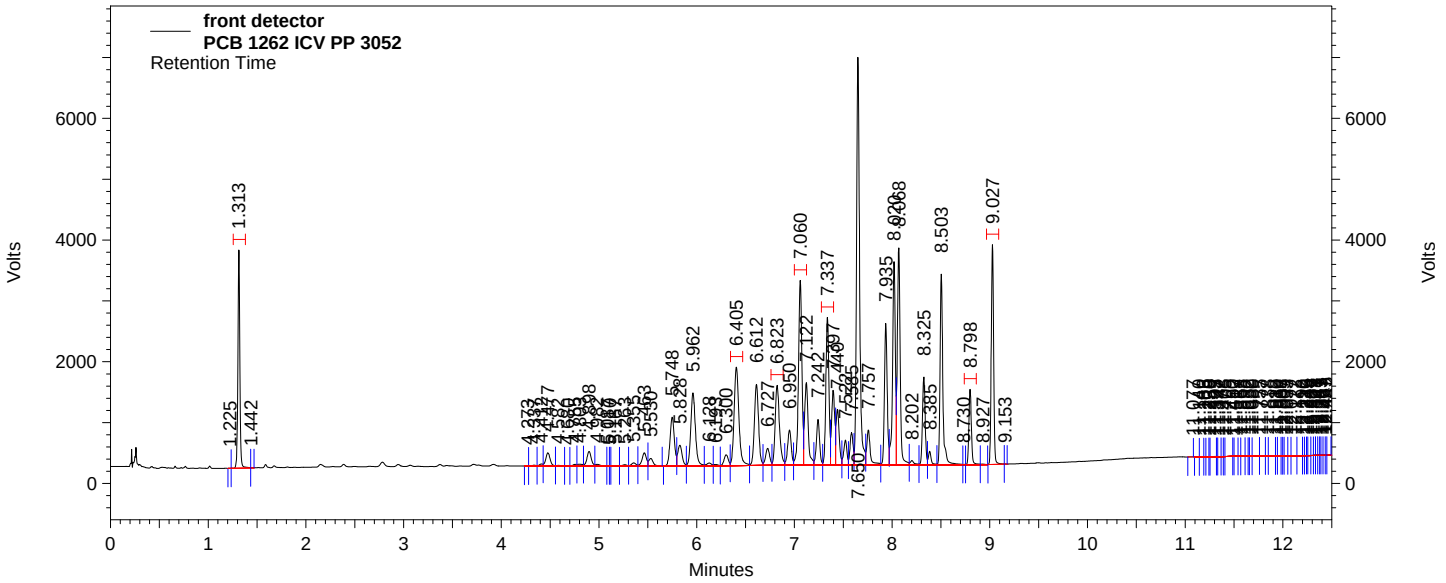
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	115.882	15.882	20.000	Passed
Aroclor 1262 #1	0.100	0.117	16.892	20.000	Passed
Aroclor 1262 #2	0.100	0.118	17.818	20.000	Passed
Aroclor 1262 #3	0.100	0.119	18.575	20.000	Passed
Aroclor 1262 #4	0.100	0.117	17.043	20.000	Passed
Aroclor 1262 #5	0.100	0.118	18.359	20.000	Passed
SURRDCB	100.000	116.011	16.011	20.000	Passed
Aroclor 1262	0.500	0.589	17.737	20.000	Passed

PCB Analysis Report (1262) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\025.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
User: jjy
Sample ID: PCB 1262 ICV PP 3052
Acquired: 11/11/2010 10:42:43 PM
Printed: 11/15/2010 1:53:39 PM

JJY
11/15/10

Data Summary: {Data Description}



front detector Results

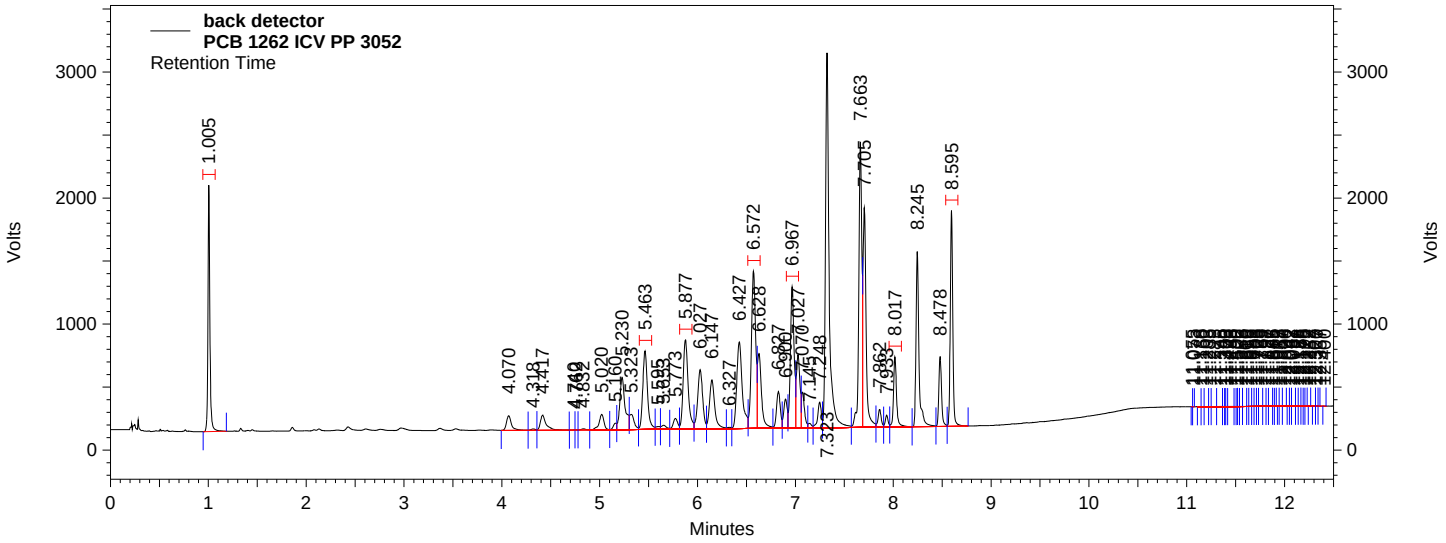
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.313	38370389	114.383
Aroclor 1262 #1	6.405	42743990	0.115
Aroclor 1262 #2	6.823	30739263	0.116
Aroclor 1262 #3	7.060	57586413	0.116
Aroclor 1262 #4	7.337	40675297	0.114
Aroclor 1262 #5	8.798	16470873	0.118
SURRDCB	9.027	46891890	114.758
Aroclor 1262		188215836	0.580

PCB Analysis Report (1262) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\025.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1262.met
User: jjy
Sample ID: PCB 1262 ICV PP 3052
Acquired: 11/11/2010 10:42:43 PM
Printed: 11/15/2010 1:53:39 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.005	20471149	115.882
Aroclor 1262 #1	5.463	15912469	0.117
Aroclor 1262 #2	5.877	19099071	0.118
Aroclor 1262 #3	6.572	28812749	0.119
Aroclor 1262 #4	6.967	22821305	0.117
Aroclor 1262 #5	8.017	9267026	0.118
SURRDCB	8.595	23567341	116.011
Aroclor 1262		95912620	0.589

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:54:00 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\026.dat	PCB 1268 ICV PP 3073	11/15/2010 1:54:00 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	102.732	2.732	20.000	Passed
Aroclor 1268 #1	0.100	0.093	7.070	20.000	Passed
Aroclor 1268 #2	0.100	0.103	2.781	20.000	Passed
Aroclor 1268 #3	0.100	0.094	6.132	20.000	Passed
Aroclor 1268 #4	0.100	0.107	6.838	20.000	Passed
Aroclor 1268 #5	0.100	0.115	15.029	20.000	Passed
SURRDCB	100.000	112.796	12.796	20.000	Passed
Aroclor 1268	0.500	0.511	2.289	20.000	Passed

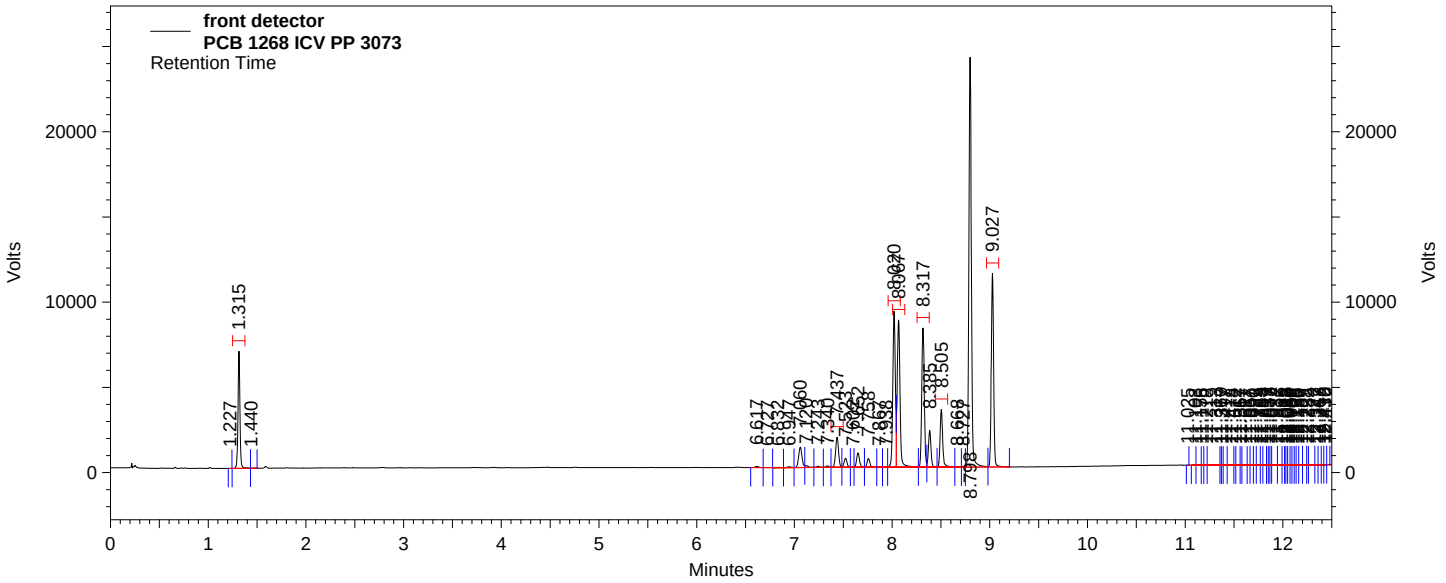
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMX	100.000	102.865	2.865	20.000	Passed
Aroclor 1268 #1	0.100	0.094	6.191	20.000	Passed
Aroclor 1268 #2	0.100	0.103	3.310	20.000	Passed
Aroclor 1268 #3	0.100	0.094	5.507	20.000	Passed
Aroclor 1268 #4	0.100	0.099	0.909	20.000	Passed
Aroclor 1268 #5	0.100	0.116	15.537	20.000	Passed
SURRDCB	100.000	113.777	13.777	20.000	Passed
Aroclor 1268	0.500	0.506	1.248	20.000	Passed

PCB Analysis Report (1268) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\026.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
User: jjy
Sample ID: PCB 1268 ICV PP 3073 JJY
Acquired: 11/11/2010 10:58:25 PM 11/15/10
Printed: 11/15/2010 1:53:55 PM

Data Summary: {Data Description}



front detector Results

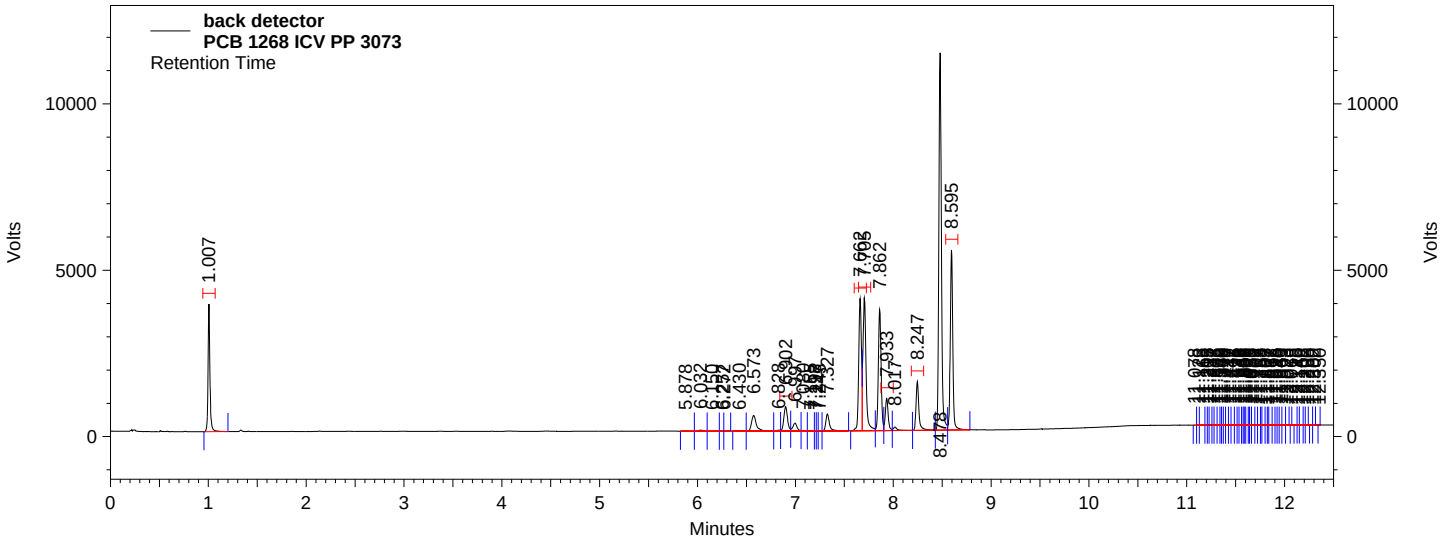
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.315	73302190	102.732
Aroclor 1268 #1	7.437	29345511	0.093
Aroclor 1268 #2	8.020	128915427	0.103
Aroclor 1268 #3	8.067	132083377	0.094
Aroclor 1268 #4	8.317	112174168	0.107
Aroclor 1268 #5	8.505	48480673	0.115
SURRDCB	9.027	146338328	112.796
Aroclor 1268		450999156	0.511

PCB Analysis Report (1268) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\026.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\1268.met
User: jjy
Sample ID: PCB 1268 ICV PP 3073
Acquired: 11/11/2010 10:58:25 PM
Printed: 11/15/2010 1:53:55 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

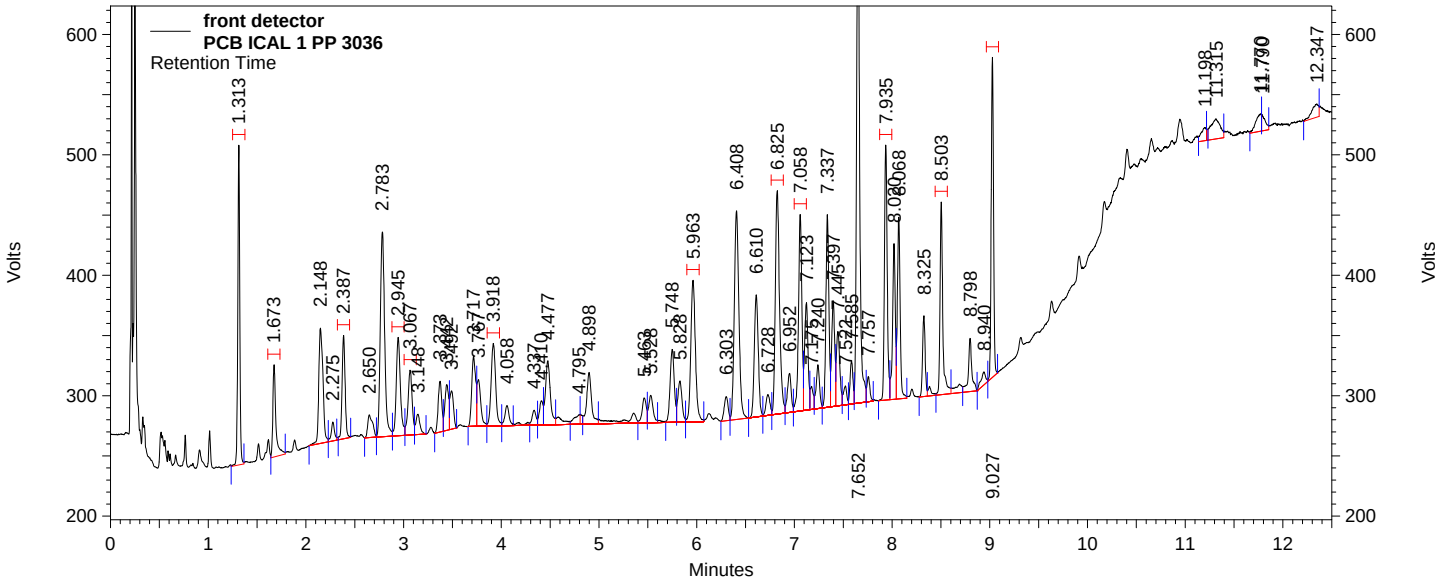
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMX	1.007	39497101	102.865
Aroclor 1268 #1	6.902	14556116	0.094
Aroclor 1268 #2	7.662	59817552	0.103
Aroclor 1268 #3	7.705	66083388	0.094
Aroclor 1268 #4	7.933	15272343	0.099
Aroclor 1268 #5	8.247	23295009	0.116
SURRDCB	8.595	74732214	113.777
Aroclor 1268		179024408	0.506

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\003.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 1 PP 3036
Acquired: 11/11/2010 4:58:08 PM
Printed: 11/15/2010 1:49:22 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

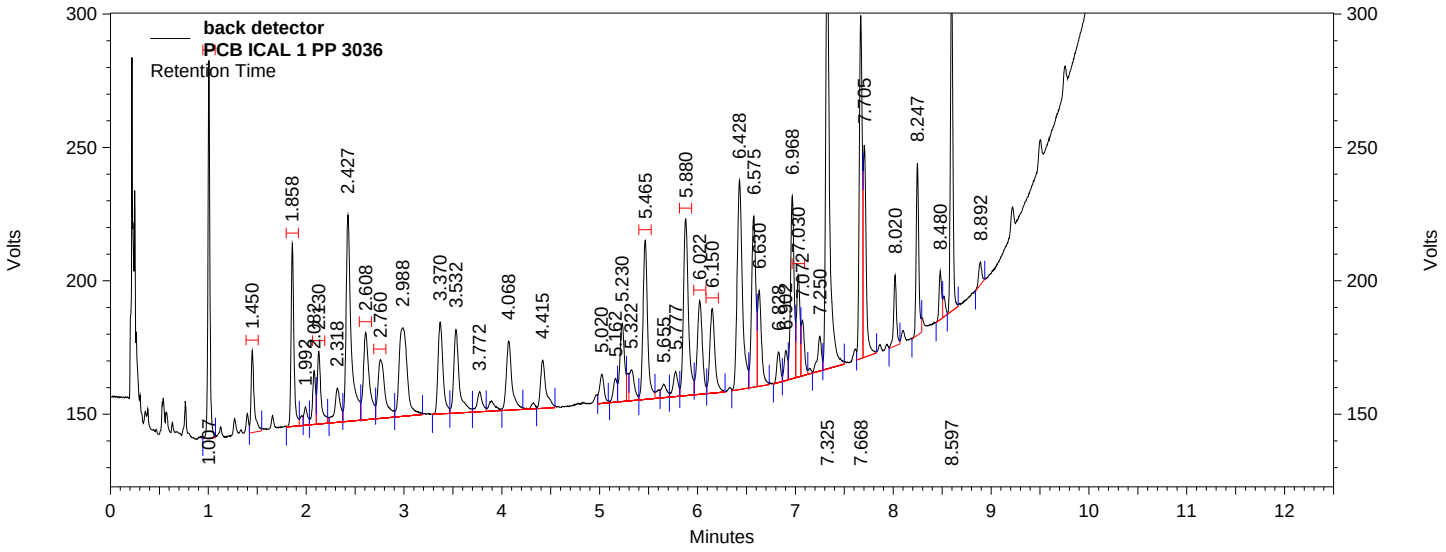
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	1500033	6.000 CAL
Aroclor 1016 #1	1.450	514334	0.006 CAL
Aroclor 1016 #2	1.858	1063602	0.006 CAL
Aroclor 1016 #3	2.130	557648	0.006 CAL
Aroclor 1016 #4	2.608	1073011	0.006 CAL
Aroclor 1016 #5	2.760	855088	0.006 CAL
Aroclor 1260 #1	5.465	1495406	0.006 CAL
Aroclor 1260 #2	5.880	1783959	0.006 CAL
Aroclor 1260 #3	6.022	973647	0.006 CAL
Aroclor 1260 #4	6.150	866530	0.006 CAL
Aroclor 1260 #5	7.030	711768	0.006 CAL
SURRDCBPCB	8.597	1728737	6.000 CAL
Aroclor 1016		4063683	0.030 CAL
Aroclor 1260		5831310	0.030 CAL

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\003.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 1 PP 3036
Acquired: 11/11/2010 4:58:08 PM
Printed: 11/15/2010 1:49:22 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

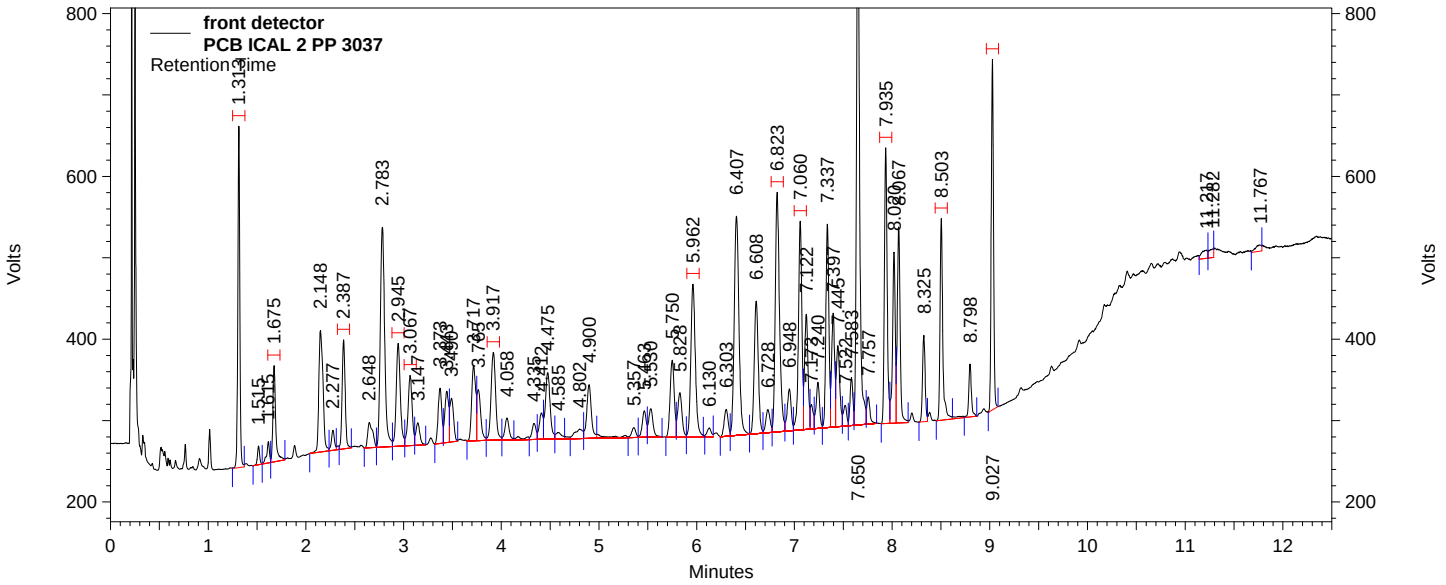
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	1500033	6.000 CAL
Aroclor 1016 #1	1.450	514334	0.006 CAL
Aroclor 1016 #2	1.858	1063602	0.006 CAL
Aroclor 1016 #3	2.130	557648	0.006 CAL
Aroclor 1016 #4	2.608	1073011	0.006 CAL
Aroclor 1016 #5	2.760	855088	0.006 CAL
Aroclor 1260 #1	5.465	1495406	0.006 CAL
Aroclor 1260 #2	5.880	1783959	0.006 CAL
Aroclor 1260 #3	6.022	973647	0.006 CAL
Aroclor 1260 #4	6.150	866530	0.006 CAL
Aroclor 1260 #5	7.030	711768	0.006 CAL
SURRDCBPCB	8.597	1728737	6.000 CAL
Aroclor 1016		4063683	0.030 CAL
Aroclor 1260		5831310	0.030 CAL

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\004.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 2 PP 3037
Acquired: 11/11/2010 5:13:48 PM
Printed: 11/15/2010 1:49:31 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

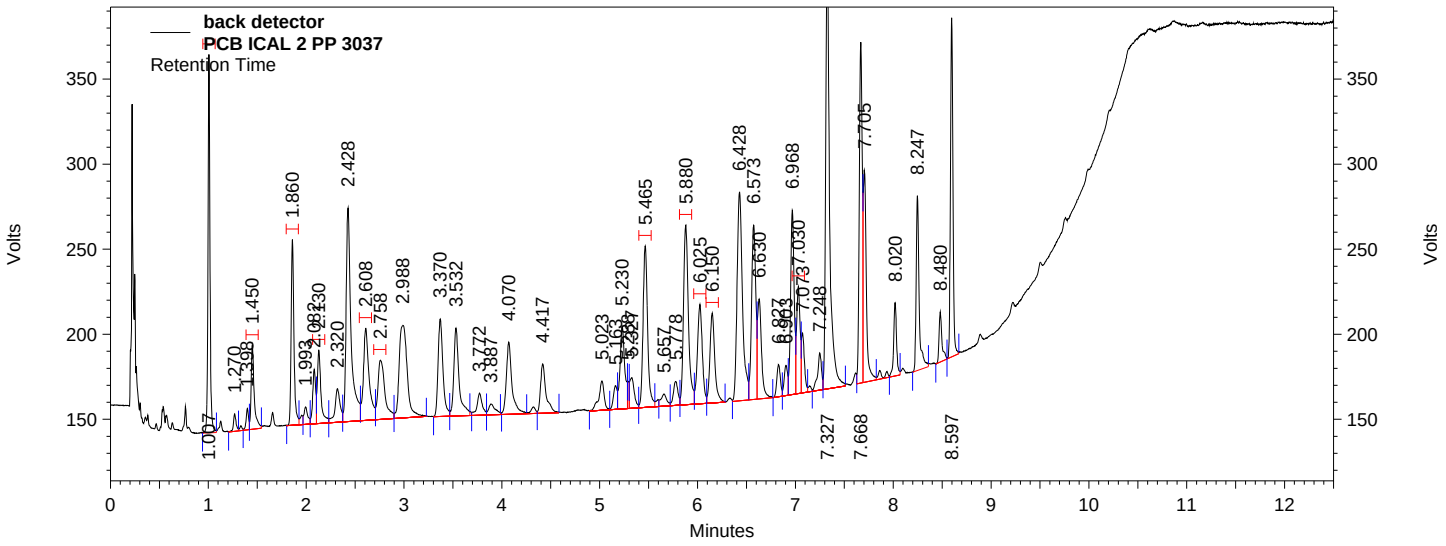
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	2401761	10.000 CAL
Aroclor 1016 #1	1.450	819548	0.010 CAL
Aroclor 1016 #2	1.860	1691735	0.010 CAL
Aroclor 1016 #3	2.130	856764	0.010 CAL
Aroclor 1016 #4	2.608	1703777	0.010 CAL
Aroclor 1016 #5	2.758	1322408	0.010 CAL
Aroclor 1260 #1	5.465	2365259	0.010 CAL
Aroclor 1260 #2	5.880	2832875	0.010 CAL
Aroclor 1260 #3	6.025	1569778	0.010 CAL
Aroclor 1260 #4	6.150	1402606	0.010 CAL
Aroclor 1260 #5	7.030	1194390	0.010 CAL
SURRDCBPCB	8.597	2735270	10.000 CAL
Aroclor 1016		6394232	0.050 CAL
Aroclor 1260		9364908	0.050 CAL

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\004.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 2 PP 3037
Acquired: 11/11/2010 5:13:48 PM
Printed: 11/15/2010 1:49:31 PM

JJY
11/15/10

Data Summary: {Data Description}



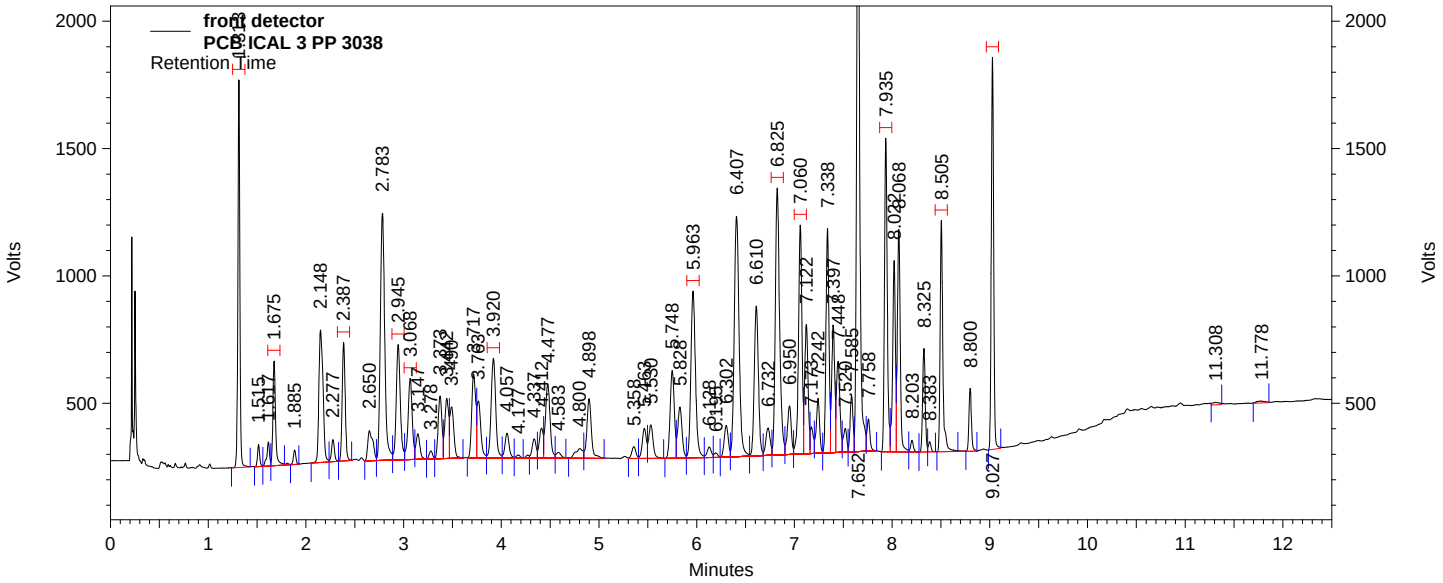
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	2401761	10.000 CAL
Aroclor 1016 #1	1.450	819548	0.010 CAL
Aroclor 1016 #2	1.860	1691735	0.010 CAL
Aroclor 1016 #3	2.130	856764	0.010 CAL
Aroclor 1016 #4	2.608	1703777	0.010 CAL
Aroclor 1016 #5	2.758	1322408	0.010 CAL
Aroclor 1260 #1	5.465	2365259	0.010 CAL
Aroclor 1260 #2	5.880	2832875	0.010 CAL
Aroclor 1260 #3	6.025	1569778	0.010 CAL
Aroclor 1260 #4	6.150	1402606	0.010 CAL
Aroclor 1260 #5	7.030	1194390	0.010 CAL
SURRDCBPCB	8.597	2735270	10.000 CAL
Aroclor 1016		6394232	0.050 CAL
Aroclor 1260		9364908	0.050 CAL

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\005.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 3 PP 3038 JJY
Acquired: 11/11/2010 5:29:27 PM 11/15/10
Printed: 11/15/2010 1:49:39 PM

Data Summary: {Data Description}



back detector Results

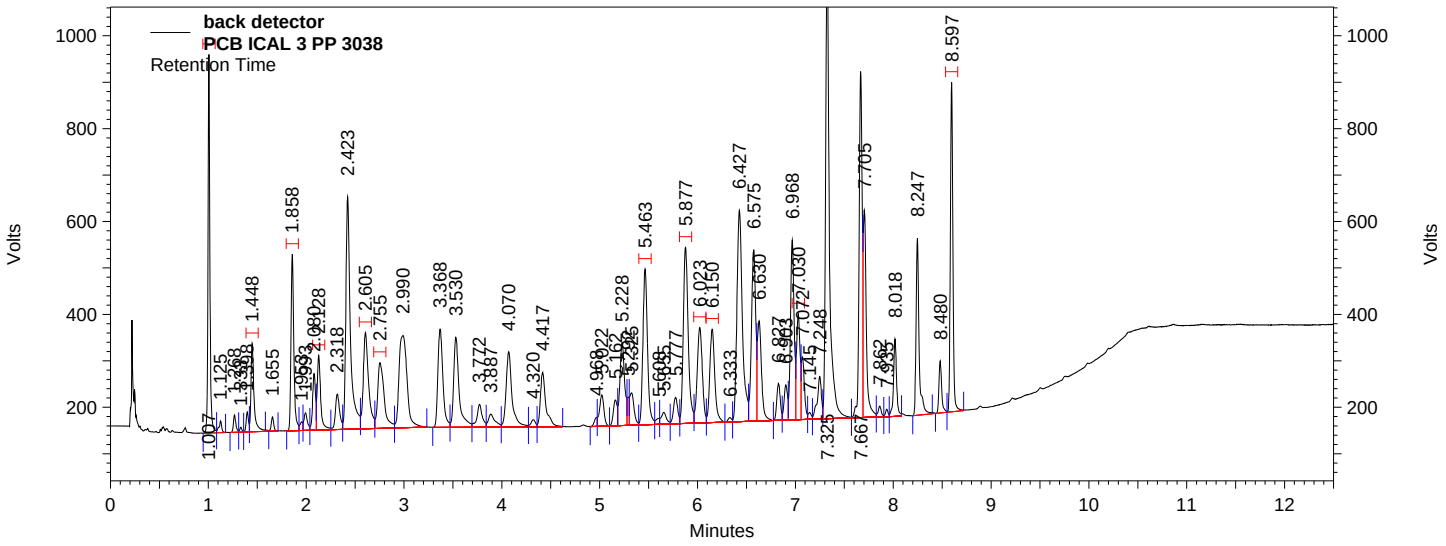
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	8319713	40.000 CAL
Aroclor 1016 #1	1.448	3111055	0.040 CAL
Aroclor 1016 #2	1.858	5922796	0.040 CAL
Aroclor 1016 #3	2.128	3026584	0.040 CAL
Aroclor 1016 #4	2.605	6046183	0.040 CAL
Aroclor 1016 #5	2.755	4973605	0.040 CAL
Aroclor 1260 #1	5.463	8389496	0.040 CAL
Aroclor 1260 #2	5.877	10156128	0.040 CAL
Aroclor 1260 #3	6.023	5758195	0.040 CAL
Aroclor 1260 #4	6.150	5443202	0.040 CAL
Aroclor 1260 #5	7.030	4425357	0.040 CAL
SURRDCBPCB	8.597	9930367	40.000 CAL
Aroclor 1016		23080223	0.200 CAL
Aroclor 1260		34172378	0.200 CAL

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\005.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 3 PP 3038
Acquired: 11/11/2010 5:29:27 PM
Printed: 11/15/2010 1:49:39 PM

JJY
11/15/10

Data Summary: {Data Description}



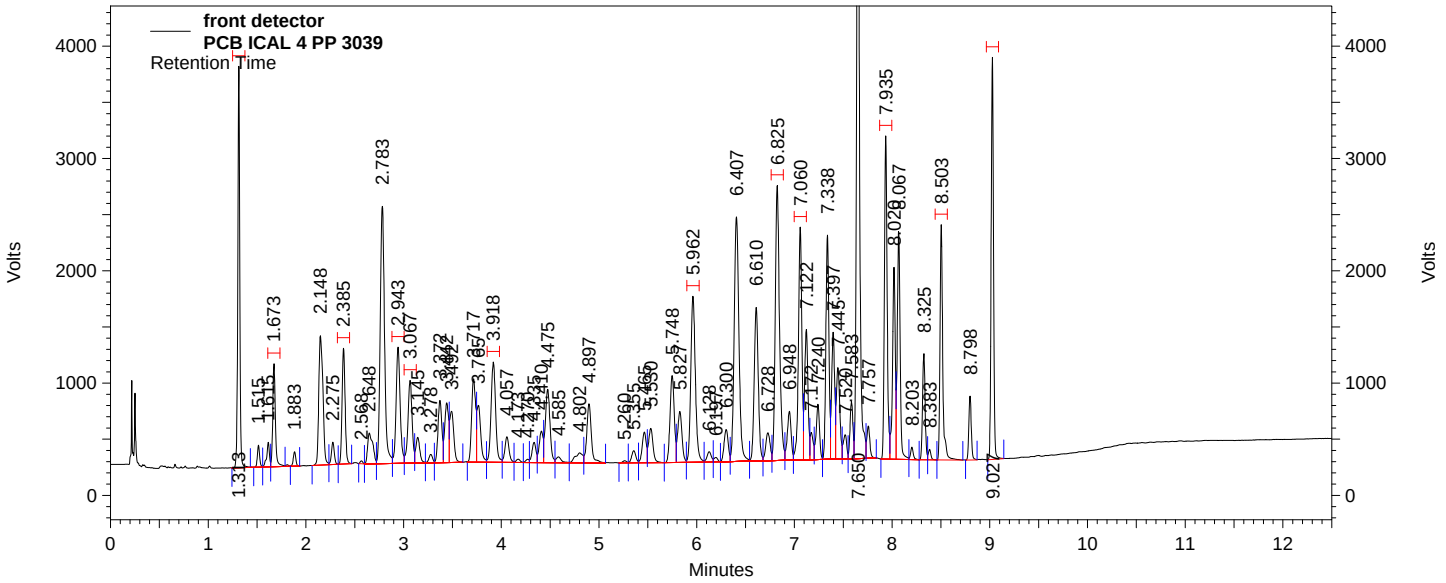
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	8319713	40.000 CAL
Aroclor 1016 #1	1.448	3111055	0.040 CAL
Aroclor 1016 #2	1.858	5922796	0.040 CAL
Aroclor 1016 #3	2.128	3026584	0.040 CAL
Aroclor 1016 #4	2.605	6046183	0.040 CAL
Aroclor 1016 #5	2.755	4973605	0.040 CAL
Aroclor 1260 #1	5.463	8389496	0.040 CAL
Aroclor 1260 #2	5.877	10156128	0.040 CAL
Aroclor 1260 #3	6.023	5758195	0.040 CAL
Aroclor 1260 #4	6.150	5443202	0.040 CAL
Aroclor 1260 #5	7.030	4425357	0.040 CAL
SURRDCBPCB	8.597	9930367	40.000 CAL
Aroclor 1016		23080223	0.200 CAL
Aroclor 1260		34172378	0.200 CAL

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\006.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 4 PP 3039 JJY
Acquired: 11/11/2010 5:45:06 PM 11/15/10
Printed: 11/15/2010 1:49:48 PM

Data Summary: {Data Description}



back detector Results

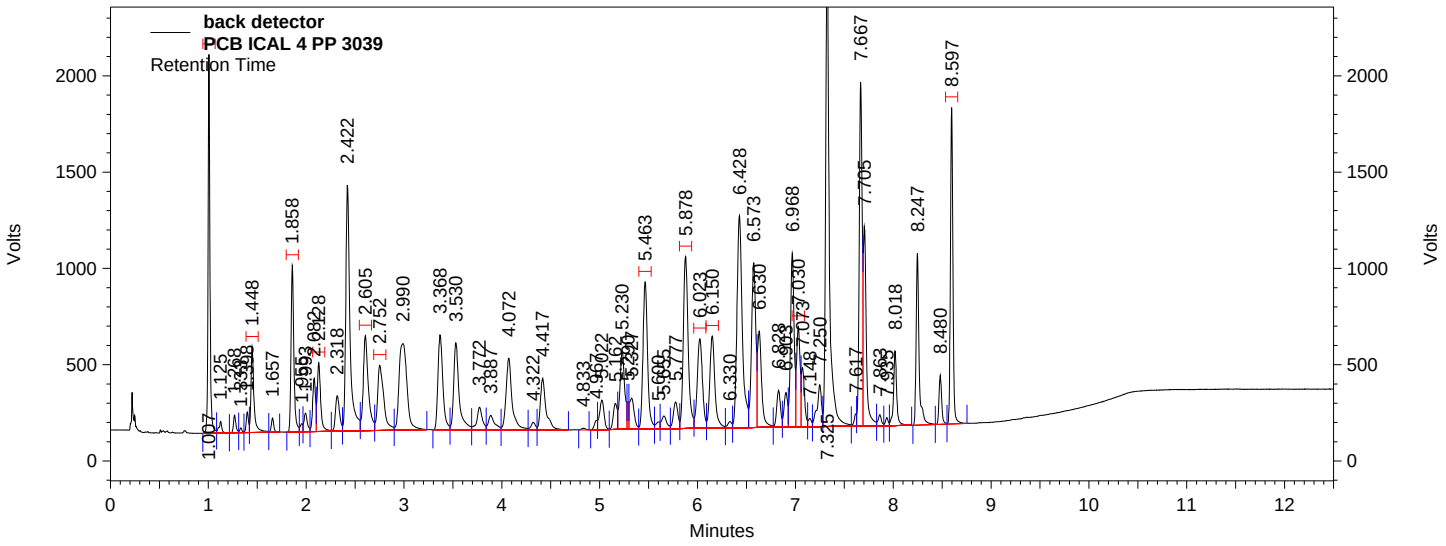
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	19905994	100.000 CAL
Aroclor 1016 #1	1.448	7172910	0.100 CAL
Aroclor 1016 #2	1.858	13396294	0.100 CAL
Aroclor 1016 #3	2.128	6700644	0.100 CAL
Aroclor 1016 #4	2.605	13626659	0.100 CAL
Aroclor 1016 #5	2.752	11271876	0.100 CAL
Aroclor 1260 #1	5.463	19146167	0.100 CAL
Aroclor 1260 #2	5.878	23567247	0.100 CAL
Aroclor 1260 #3	6.023	13218890	0.100 CAL
Aroclor 1260 #4	6.150	13177550	0.100 CAL
Aroclor 1260 #5	7.030	10098414	0.100 CAL
SURRDCBPCB	8.597	22617594	100.000 CAL
Aroclor 1016		52168383	0.500 CAL
Aroclor 1260		79208268	0.500 CAL

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\006.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 4 PP 3039
Acquired: 11/11/2010 5:45:06 PM
Printed: 11/15/2010 1:49:48 PM

JJY
11/15/10

Data Summary: {Data Description}



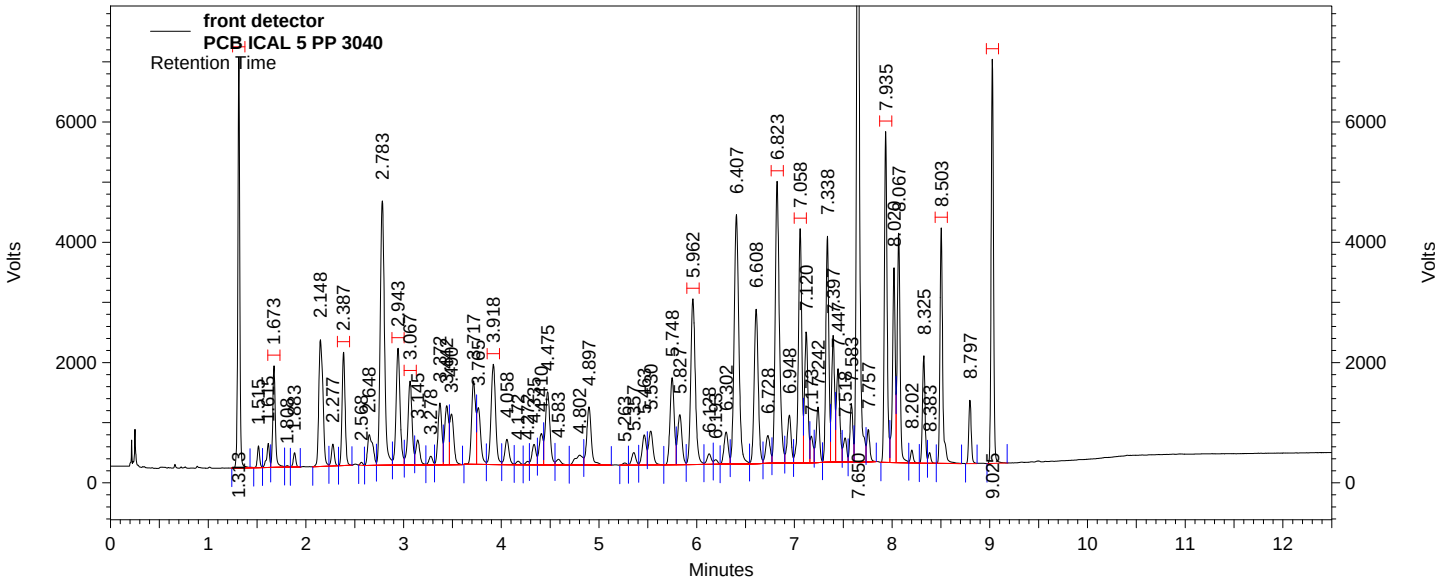
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	19905994	100.000 CAL
Aroclor 1016 #1	1.448	7172910	0.100 CAL
Aroclor 1016 #2	1.858	13396294	0.100 CAL
Aroclor 1016 #3	2.128	6700644	0.100 CAL
Aroclor 1016 #4	2.605	13626659	0.100 CAL
Aroclor 1016 #5	2.752	11271876	0.100 CAL
Aroclor 1260 #1	5.463	19146167	0.100 CAL
Aroclor 1260 #2	5.878	23567247	0.100 CAL
Aroclor 1260 #3	6.023	13218890	0.100 CAL
Aroclor 1260 #4	6.150	13177550	0.100 CAL
Aroclor 1260 #5	7.030	10098414	0.100 CAL
SURRDCBPCB	8.597	22617594	100.000 CAL
Aroclor 1016		52168383	0.500 CAL
Aroclor 1260		79208268	0.500 CAL

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\007.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 5 PP 3040
Acquired: 11/11/2010 6:00:45 PM JJY
Printed: 11/15/2010 1:49:57 PM 11/15/10

Data Summary: {Data Description}



back detector Results

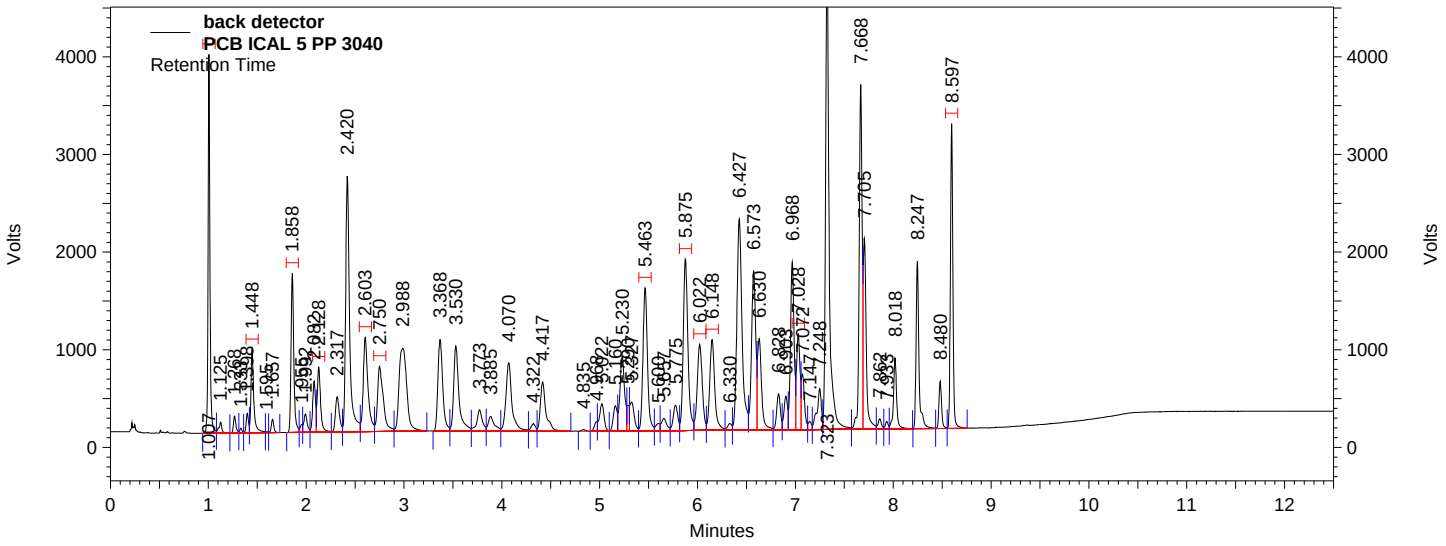
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	38574203	200.000 CAL
Aroclor 1016 #1	1.448	13084053	0.200 CAL
Aroclor 1016 #2	1.858	24757646	0.200 CAL
Aroclor 1016 #3	2.128	12167843	0.200 CAL
Aroclor 1016 #4	2.603	25138760	0.200 CAL
Aroclor 1016 #5	2.750	20965117	0.200 CAL
Aroclor 1260 #1	5.463	35898821	0.200 CAL
Aroclor 1260 #2	5.875	44537294	0.200 CAL
Aroclor 1260 #3	6.022	24443656	0.200 CAL
Aroclor 1260 #4	6.148	25128344	0.200 CAL
Aroclor 1260 #5	7.028	18811261	0.200 CAL
SURRDCBPCB	8.597	42408969	200.000 CAL
Aroclor 1016		96113419	1.000 CAL
Aroclor 1260		148819376	1.000 CAL

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\007.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 5 PP 3040
Acquired: 11/11/2010 6:00:45 PM
Printed: 11/15/2010 1:49:57 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

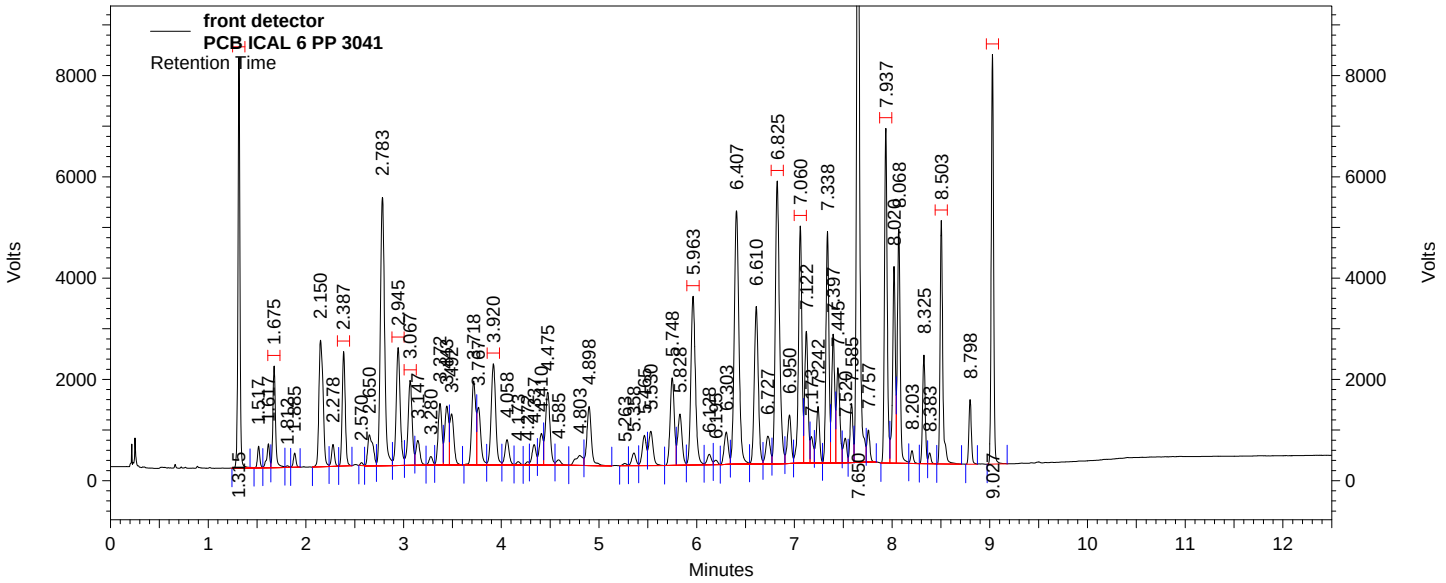
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	38574203	200.000 CAL
Aroclor 1016 #1	1.448	13084053	0.200 CAL
Aroclor 1016 #2	1.858	24757646	0.200 CAL
Aroclor 1016 #3	2.128	12167843	0.200 CAL
Aroclor 1016 #4	2.603	25138760	0.200 CAL
Aroclor 1016 #5	2.750	20965117	0.200 CAL
Aroclor 1260 #1	5.463	35898821	0.200 CAL
Aroclor 1260 #2	5.875	44537294	0.200 CAL
Aroclor 1260 #3	6.022	24443656	0.200 CAL
Aroclor 1260 #4	6.148	25128344	0.200 CAL
Aroclor 1260 #5	7.028	18811261	0.200 CAL
SURRDCBPCB	8.597	42408969	200.000 CAL
Aroclor 1016		96113419	1.000 CAL
Aroclor 1260		148819376	1.000 CAL

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\008.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 6 PP 3041
Acquired: 11/11/2010 6:16:25 PM
Printed: 11/15/2010 1:50:05 PM

JJY
11/15/10

Data Summary: {Data Description}



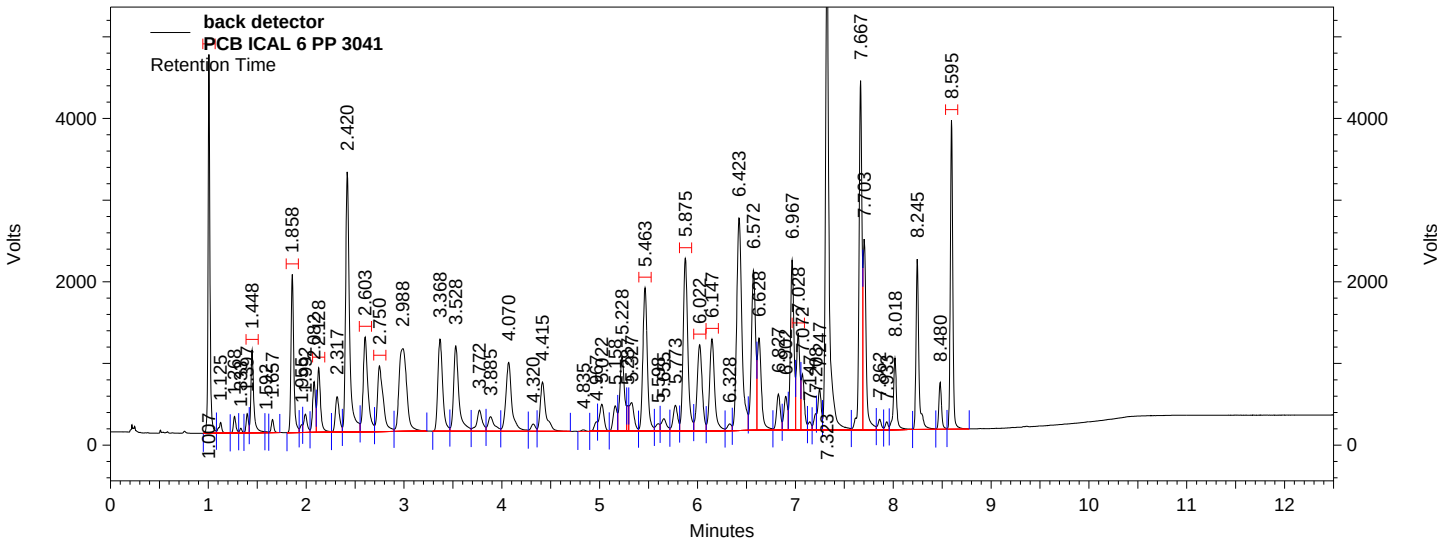
back detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	46739931	240.000 CAL
Aroclor 1016 #1	1.448	15656006	0.240 CAL
Aroclor 1016 #2	1.858	29586145	0.240 CAL
Aroclor 1016 #3	2.128	14373578	0.240 CAL
Aroclor 1016 #4	2.603	30087592	0.240 CAL
Aroclor 1016 #5	2.750	25041500	0.240 CAL
Aroclor 1260 #1	5.463	42949519	0.240 CAL
Aroclor 1260 #2	5.875	53262650	0.240 CAL
Aroclor 1260 #3	6.022	29088283	0.240 CAL
Aroclor 1260 #4	6.147	30288948	0.240 CAL
Aroclor 1260 #5	7.028	22549624	0.240 CAL
SURRDCBPCB	8.595	50973300	240.000 CAL
Aroclor 1016		114744821	1.200 CAL
Aroclor 1260		178139024	1.200 CAL

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\008.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICAL 6 PP 3041 JJY
Acquired: 11/11/2010 6:16:25 PM 11/15/10
Printed: 11/15/2010 1:50:05 PM

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.007	46739931	240.000 CAL
Aroclor 1016 #1	1.448	15656006	0.240 CAL
Aroclor 1016 #2	1.858	29586145	0.240 CAL
Aroclor 1016 #3	2.128	14373578	0.240 CAL
Aroclor 1016 #4	2.603	30087592	0.240 CAL
Aroclor 1016 #5	2.750	25041500	0.240 CAL
Aroclor 1260 #1	5.463	42949519	0.240 CAL
Aroclor 1260 #2	5.875	53262650	0.240 CAL
Aroclor 1260 #3	6.022	29088283	0.240 CAL
Aroclor 1260 #4	6.147	30288948	0.240 CAL
Aroclor 1260 #5	7.028	22549624	0.240 CAL
SURRDCBPCB	8.595	50973300	240.000 CAL
Aroclor 1016		114744821	1.200 CAL
Aroclor 1260		178139024	1.200 CAL

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\111110pcbic.seq
User : jjy
Printed : 11/15/2010 1:50:31 PM

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\111110pcbic\010.dat	PCB ICV PP 3047	11/15/2010 1:50:31 PM

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	91.056	8.944	20.000	Passed
Aroclor 1016 #1	0.100	0.101	1.113	20.000	Passed
Aroclor 1016 #2	0.100	0.102	2.173	20.000	Passed
Aroclor 1016 #3	0.100	0.101	1.270	20.000	Passed
Aroclor 1016 #4	0.100	0.101	0.899	20.000	Passed
Aroclor 1016 #5	0.100	0.101	0.890	20.000	Passed
Aroclor 1260 #1	0.100	0.100	0.360	20.000	Passed
Aroclor 1260 #2	0.100	0.099	0.919	20.000	Passed
Aroclor 1260 #3	0.100	0.100	0.483	20.000	Passed
Aroclor 1260 #4	0.100	0.099	1.224	20.000	Passed
Aroclor 1260 #5	0.100	0.100	0.047	20.000	Passed
SURRDCBPCB	100.000	92.873	7.127	20.000	Passed
Aroclor 1016	0.500	0.506	1.269	20.000	Passed
Aroclor 1260	0.500	0.498	0.462	20.000	Passed

back detector

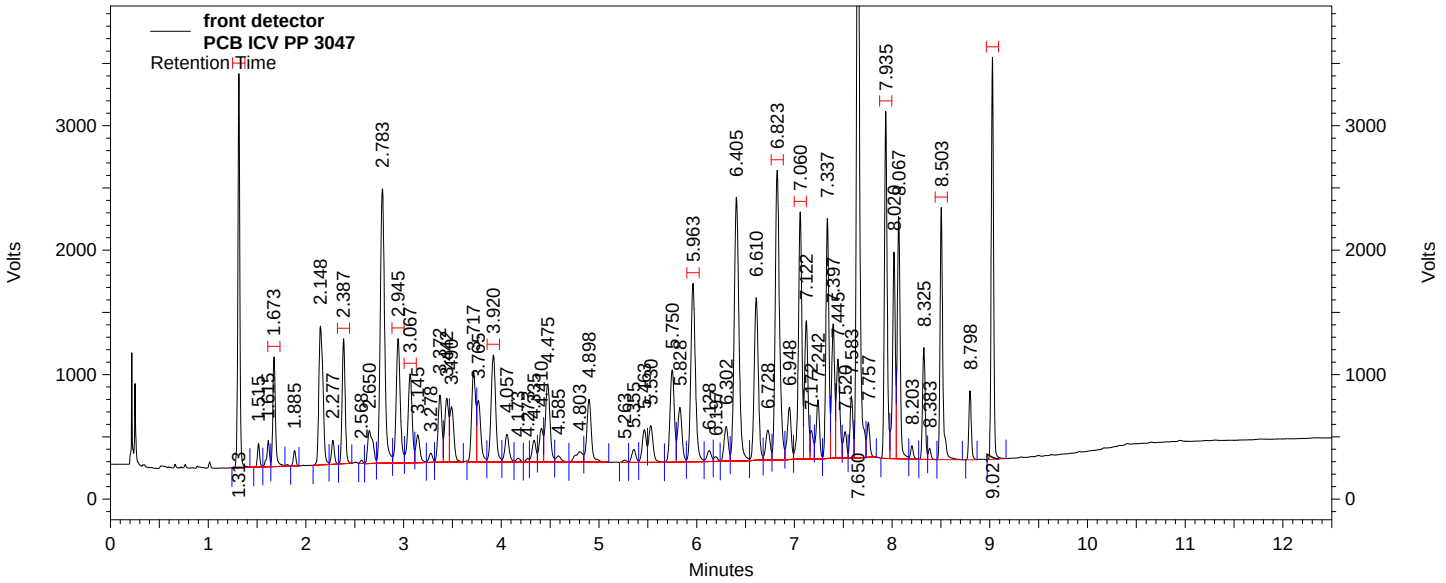
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	89.775	10.225	20.000	Passed
Aroclor 1016 #1	0.100	0.103	2.794	20.000	Passed
Aroclor 1016 #2	0.100	0.101	1.187	20.000	Passed
Aroclor 1016 #3	0.100	0.104	3.979	20.000	Passed
Aroclor 1016 #4	0.100	0.102	1.577	20.000	Passed
Aroclor 1016 #5	0.100	0.102	1.613	20.000	Passed
Aroclor 1260 #1	0.100	0.101	0.520	20.000	Passed
Aroclor 1260 #2	0.100	0.100	0.334	20.000	Passed
Aroclor 1260 #3	0.100	0.102	1.910	20.000	Passed
Aroclor 1260 #4	0.100	0.100	0.159	20.000	Passed
Aroclor 1260 #5	0.100	0.101	1.054	20.000	Passed
SURRDCBPCB	100.000	92.877	7.123	20.000	Passed
Aroclor 1016	0.500	0.511	2.230	20.000	Passed
Aroclor 1260	0.500	0.503	0.598	20.000	Passed

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\010.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICV PP 3047
Acquired: 11/11/2010 6:47:45 PM
Printed: 11/15/2010 1:50:23 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

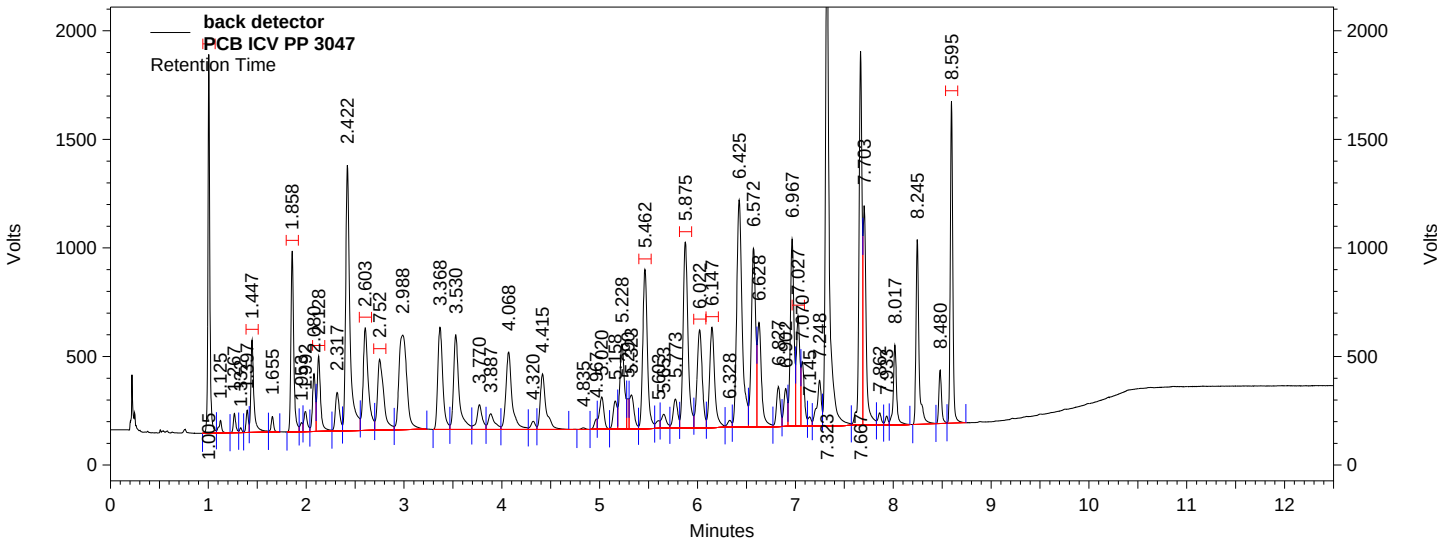
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.005	17738879	89.775
Aroclor 1016 #1	1.447	6948493	0.103
Aroclor 1016 #2	1.858	12960492	0.101
Aroclor 1016 #3	2.128	6553257	0.104
Aroclor 1016 #4	2.603	13221687	0.102
Aroclor 1016 #5	2.752	10972326	0.102
Aroclor 1260 #1	5.462	18582837	0.101
Aroclor 1260 #2	5.875	22762872	0.100
Aroclor 1260 #3	6.022	12816579	0.102
Aroclor 1260 #4	6.147	12781414	0.100
Aroclor 1260 #5	7.027	9790938	0.101
SURRDCBPCB	8.595	20385432	92.877
Aroclor 1016		50656255	0.511
Aroclor 1260		76734640	0.503

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\111110pcbic\010.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\111110pcbic.met
User: jjy
Sample ID: PCB ICV PP 3047
Acquired: 11/11/2010 6:47:45 PM
Printed: 11/15/2010 1:50:23 PM

JJY
11/15/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.005	17738879	89.775
Aroclor 1016 #1	1.447	6948493	0.103
Aroclor 1016 #2	1.858	12960492	0.101
Aroclor 1016 #3	2.128	6553257	0.104
Aroclor 1016 #4	2.603	13221687	0.102
Aroclor 1016 #5	2.752	10972326	0.102
Aroclor 1260 #1	5.462	18582837	0.101
Aroclor 1260 #2	5.875	22762872	0.100
Aroclor 1260 #3	6.022	12816579	0.102
Aroclor 1260 #4	6.147	12781414	0.100
Aroclor 1260 #5	7.027	9790938	0.101
SURRDCBPCB	8.595	20385432	92.877
Aroclor 1016		50656255	0.511
Aroclor 1260		76734640	0.503

POLYCHLORINATED BIPHENYL CONTINUING AND ENDING STANDARDS DOCUMENTS

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\121410pcb.seq
User : jjy
Printed : Dec 14,2010 19:11:11

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\121410pcb\003.dat	PCB CCV PP 3149	Dec 14,2010 19:11:11

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	102.722	2.722	20.000	Passed
Aroclor 1016 #1	0.100	0.112	11.503	20.000	Passed
Aroclor 1016 #2	0.100	0.112	12.261	20.000	Passed
Aroclor 1016 #3	0.100	0.112	11.687	20.000	Passed
Aroclor 1016 #4	0.100	0.112	11.691	20.000	Passed
Aroclor 1016 #5	0.100	0.112	11.700	20.000	Passed
Aroclor 1260 #1	0.100	0.110	10.393	20.000	Passed
Aroclor 1260 #2	0.100	0.109	9.459	20.000	Passed
Aroclor 1260 #3	0.100	0.110	10.405	20.000	Passed
Aroclor 1260 #4	0.100	0.110	9.654	20.000	Passed
Aroclor 1260 #5	0.100	0.106	6.102	20.000	Passed
SURRDCBPCB	100.000	98.926	1.074	20.000	Passed
Aroclor 1016	0.500	0.559	11.768	20.000	Passed
Aroclor 1260	0.500	0.546	9.202	20.000	Passed

back detector

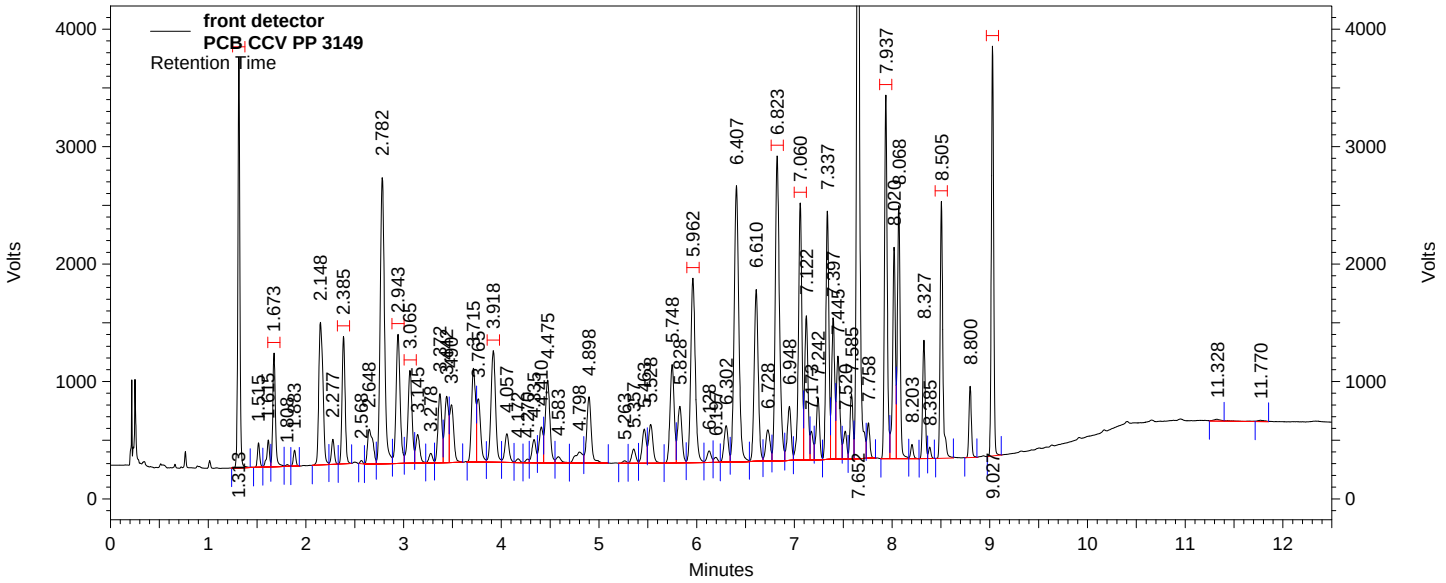
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	98.855	1.145	20.000	Passed
Aroclor 1016 #1	0.100	0.109	9.498	20.000	Passed
Aroclor 1016 #2	0.100	0.108	7.986	20.000	Passed
Aroclor 1016 #3	0.100	0.108	8.302	20.000	Passed
Aroclor 1016 #4	0.100	0.108	7.628	20.000	Passed
Aroclor 1016 #5	0.100	0.107	7.068	20.000	Passed
Aroclor 1260 #1	0.100	0.104	4.152	20.000	Passed
Aroclor 1260 #2	0.100	0.104	4.034	20.000	Passed
Aroclor 1260 #3	0.100	0.104	3.521	20.000	Passed
Aroclor 1260 #4	0.100	0.101	0.789	20.000	Passed
Aroclor 1260 #5	0.100	0.104	4.485	20.000	Passed
SURRDCBPCB	100.000	92.800	7.200	20.000	Passed
Aroclor 1016	0.500	0.540	8.097	20.000	Passed
Aroclor 1260	0.500	0.517	3.396	20.000	Passed

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\121410pcb\003.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\121410pcb.met
User: jjy
Sample ID: PCB CCV PP 3149
Acquired: Dec 14,2010 13:17:41
Printed: Dec 14,2010 19:11:03

JJY
12M4M0

Data Summary: {Data Description}



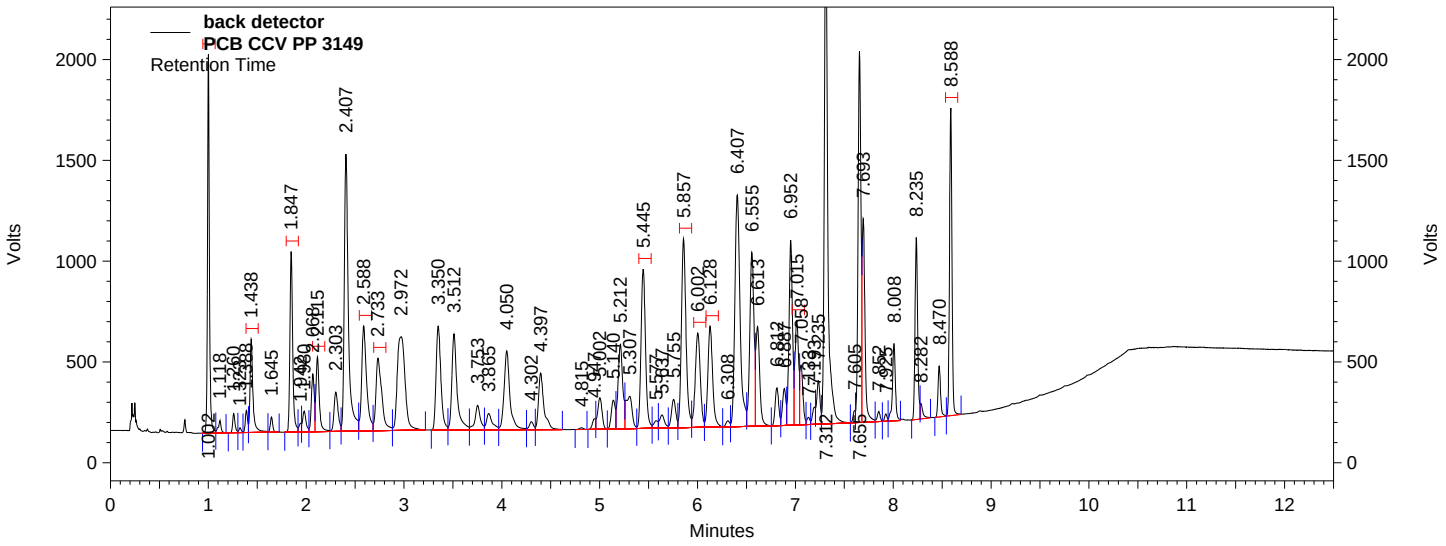
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.313	38324945	102.722
Aroclor 1016 #1	1.673	13697891	0.112
Aroclor 1016 #2	2.385	18293349	0.112
Aroclor 1016 #3	2.943	24696037	0.112
Aroclor 1016 #4	3.065	17736506	0.112
Aroclor 1016 #5	3.918	23483767	0.112
Aroclor 1260 #1	5.962	39037728	0.110
Aroclor 1260 #2	6.823	59608540	0.109
Aroclor 1260 #3	7.060	41570142	0.110
Aroclor 1260 #4	7.937	46163760	0.110
Aroclor 1260 #5	8.505	31548610	0.106
SURRDCBPCB	9.027	44182731	98.926
Aroclor 1016		97907550	0.559
Aroclor 1260		217928780	0.546

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\121410pcb\003.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\121410pcb.met
User: jjy
Sample ID: PCB CCV PP 3149
Acquired: Dec 14,2010 13:17:41 JJY
Printed: Dec 14,2010 19:11:03 12/14/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.002	19481759	98.855
Aroclor 1016 #1	1.438	7378864	0.109
Aroclor 1016 #2	1.847	13782518	0.108
Aroclor 1016 #3	2.115	6807044	0.108
Aroclor 1016 #4	2.588	13965365	0.108
Aroclor 1016 #5	2.733	11532442	0.107
Aroclor 1260 #1	5.445	19221887	0.104
Aroclor 1260 #2	5.857	23718460	0.104
Aroclor 1260 #3	6.002	13008953	0.104
Aroclor 1260 #4	6.128	12899904	0.101
Aroclor 1260 #5	7.015	10108219	0.104
SURRDCBPCB	8.588	20369354	92.800
Aroclor 1016		53466233	0.540
Aroclor 1260		78957423	0.517

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\121410pcb.seq
User : jjy
Printed : Dec 14,2010 19:13:06

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\121410pcb\016.dat	PCB CCV PP 3149	Dec 14,2010 19:13:06

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	105.253	5.253	20.000	Passed
Aroclor 1016 #1	0.100	0.114	13.776	20.000	Passed
Aroclor 1016 #2	0.100	0.112	11.649	20.000	Passed
Aroclor 1016 #3	0.100	0.113	13.366	20.000	Passed
Aroclor 1016 #4	0.100	0.113	12.940	20.000	Passed
Aroclor 1016 #5	0.100	0.113	13.170	20.000	Passed
Aroclor 1260 #1	0.100	0.112	11.606	20.000	Passed
Aroclor 1260 #2	0.100	0.111	11.046	20.000	Passed
Aroclor 1260 #3	0.100	0.111	11.071	20.000	Passed
Aroclor 1260 #4	0.100	0.112	11.971	20.000	Passed
Aroclor 1260 #5	0.100	0.108	8.485	20.000	Passed
SURRDCBPCB	100.000	101.113	1.113	20.000	Passed
Aroclor 1016	0.500	0.565	12.980	20.000	Passed
Aroclor 1260	0.500	0.554	10.836	20.000	Passed

back detector

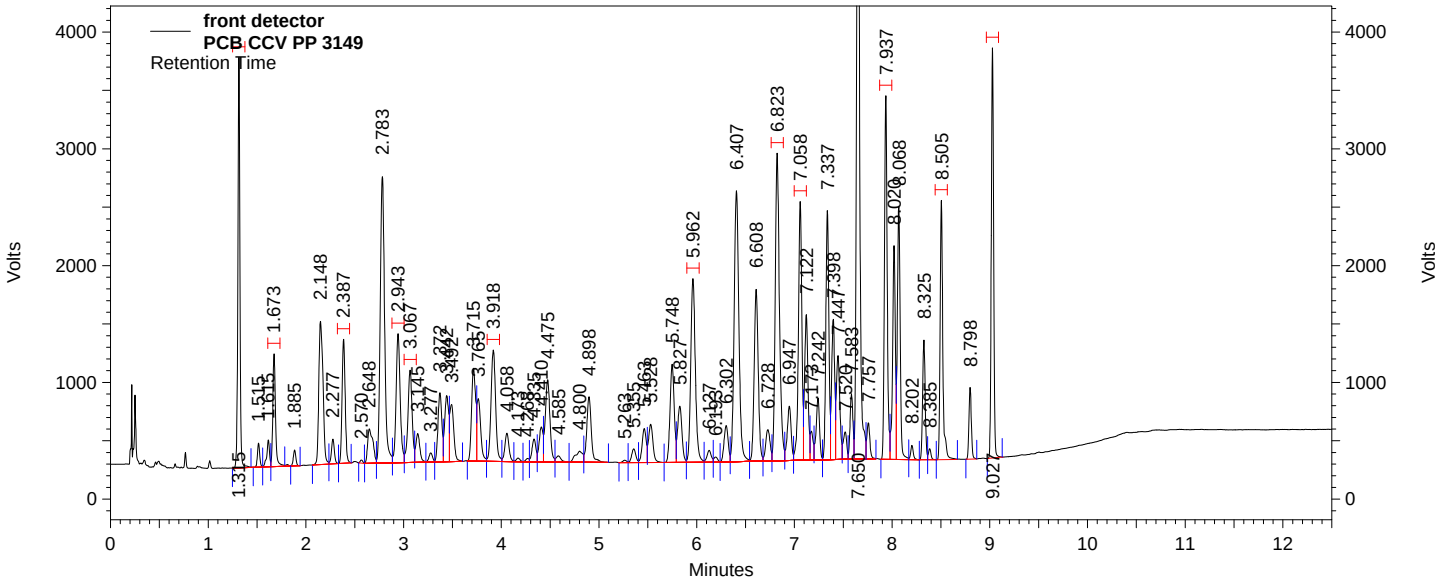
Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	100.546	0.546	20.000	Passed
Aroclor 1016 #1	0.100	0.110	10.327	20.000	Passed
Aroclor 1016 #2	0.100	0.110	9.814	20.000	Passed
Aroclor 1016 #3	0.100	0.112	12.397	20.000	Passed
Aroclor 1016 #4	0.100	0.110	10.164	20.000	Passed
Aroclor 1016 #5	0.100	0.110	9.616	20.000	Passed
Aroclor 1260 #1	0.100	0.107	7.232	20.000	Passed
Aroclor 1260 #2	0.100	0.107	7.046	20.000	Passed
Aroclor 1260 #3	0.100	0.108	8.010	20.000	Passed
Aroclor 1260 #4	0.100	0.106	6.022	20.000	Passed
Aroclor 1260 #5	0.100	0.108	7.719	20.000	Passed
SURRDCBPCB	100.000	98.957	1.043	20.000	Passed
Aroclor 1016	0.500	0.552	10.464	20.000	Passed
Aroclor 1260	0.500	0.536	7.206	20.000	Passed

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\121410pcb\016.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\121410pcb.met
User: jjy
Sample ID: PCB CCV PP 3149
Acquired: Dec 14,2010 16:49:18
Printed: Dec 14,2010 19:12:58

JJY
12/14/10

Data Summary: {Data Description}



front detector Results

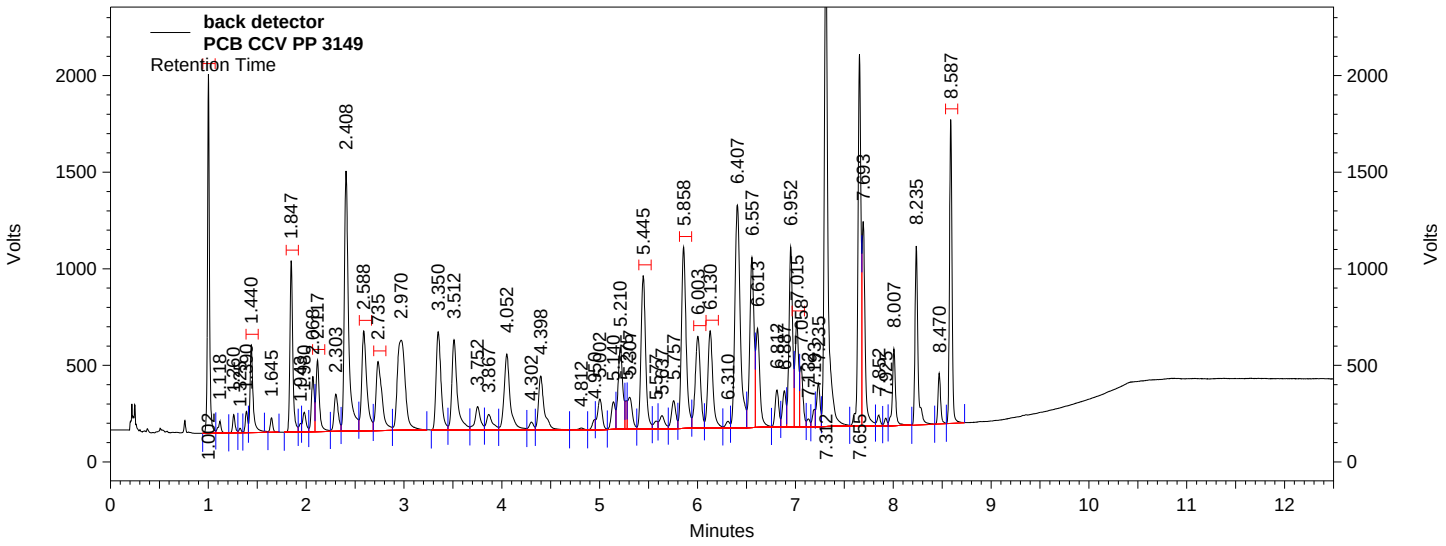
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.315	39234482	105.253
Aroclor 1016 #1	1.673	13957952	0.114
Aroclor 1016 #2	2.387	18199374	0.112
Aroclor 1016 #3	2.943	25048430	0.113
Aroclor 1016 #4	3.067	17927168	0.113
Aroclor 1016 #5	3.918	23778622	0.113
Aroclor 1260 #1	5.962	39444875	0.112
Aroclor 1260 #2	6.823	60439840	0.111
Aroclor 1260 #3	7.058	41810059	0.111
Aroclor 1260 #4	7.937	47104613	0.112
Aroclor 1260 #5	8.505	32227849	0.108
SURRDCBPCB	9.027	45119093	101.113
Aroclor 1016		98911546	0.565
Aroclor 1260		221027236	0.554

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\121410pcb\016.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\121410pcb.met
User: jjy
Sample ID: PCB CCV PP 3149
Acquired: Dec 14,2010 16:49:18
Printed: Dec 14,2010 19:12:58

JJY
12/14/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.002	19806300	100.546
Aroclor 1016 #1	1.440	7432094	0.110
Aroclor 1016 #2	1.847	14003522	0.110
Aroclor 1016 #3	2.117	7047420	0.112
Aroclor 1016 #4	2.588	14276941	0.110
Aroclor 1016 #5	2.735	11794012	0.110
Aroclor 1260 #1	5.445	19763625	0.107
Aroclor 1260 #2	5.858	24377540	0.107
Aroclor 1260 #3	6.003	13545174	0.108
Aroclor 1260 #4	6.130	13554357	0.106
Aroclor 1260 #5	7.015	10407408	0.108
SURRDCBPCB	8.587	21653948	98.957
Aroclor 1016		54553989	0.552
Aroclor 1260		81648104	0.536

QC Check Standard Report

Sequence : C:\Instarch\Semi7\Sequence\121410pcb.seq
User : jjy
Printed : Dec 14,2010 19:54:22

File	Sample ID	Acquired
C:\Instarch\Semi7\Data\121410pcb\027.dat	PCB CCV PP 3149	Dec 14,2010 19:54:22

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	104.348	4.348	20.000	Passed
Aroclor 1016 #1	0.100	0.113	12.658	20.000	Passed
Aroclor 1016 #2	0.100	0.113	13.490	20.000	Passed
Aroclor 1016 #3	0.100	0.113	13.032	20.000	Passed
Aroclor 1016 #4	0.100	0.112	12.294	20.000	Passed
Aroclor 1016 #5	0.100	0.112	12.145	20.000	Passed
Aroclor 1260 #1	0.100	0.111	11.209	20.000	Passed
Aroclor 1260 #2	0.100	0.111	11.022	20.000	Passed
Aroclor 1260 #3	0.100	0.110	10.431	20.000	Passed
Aroclor 1260 #4	0.100	0.111	11.061	20.000	Passed
Aroclor 1260 #5	0.100	0.107	7.441	20.000	Passed
SURRDCBPCB	100.000	99.016	0.984	20.000	Passed
Aroclor 1016	0.500	0.564	12.724	20.000	Passed
Aroclor 1260	0.500	0.551	10.233	20.000	Passed

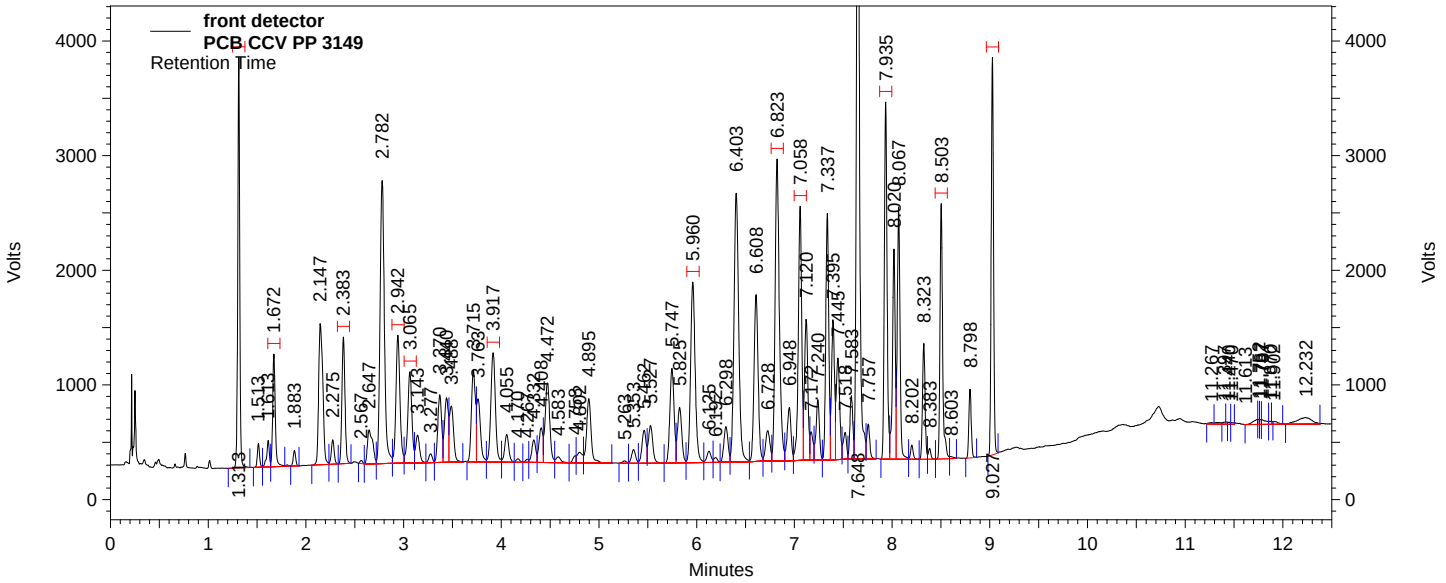
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPCB	100.000	101.365	1.365	20.000	Passed
Aroclor 1016 #1	0.100	0.111	11.002	20.000	Passed
Aroclor 1016 #2	0.100	0.111	10.765	20.000	Passed
Aroclor 1016 #3	0.100	0.112	12.364	20.000	Passed
Aroclor 1016 #4	0.100	0.111	11.117	20.000	Passed
Aroclor 1016 #5	0.100	0.111	11.272	20.000	Passed
Aroclor 1260 #1	0.100	0.108	8.234	20.000	Passed
Aroclor 1260 #2	0.100	0.108	8.401	20.000	Passed
Aroclor 1260 #3	0.100	0.108	8.030	20.000	Passed
Aroclor 1260 #4	0.100	0.106	6.136	20.000	Passed
Aroclor 1260 #5	0.100	0.109	8.764	20.000	Passed
SURRDCBPCB	100.000	102.097	2.097	20.000	Passed
Aroclor 1016	0.500	0.557	11.304	20.000	Passed
Aroclor 1260	0.500	0.540	7.913	20.000	Passed

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\121410pcb\027.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\121410pcb.met
User: jjy
Sample ID: PCB CCV PP 3149 JJY
Acquired: Dec 14,2010 19:41:35 12M4M0
Printed: Dec 14,2010 19:54:19

Data Summary: {Data Description}



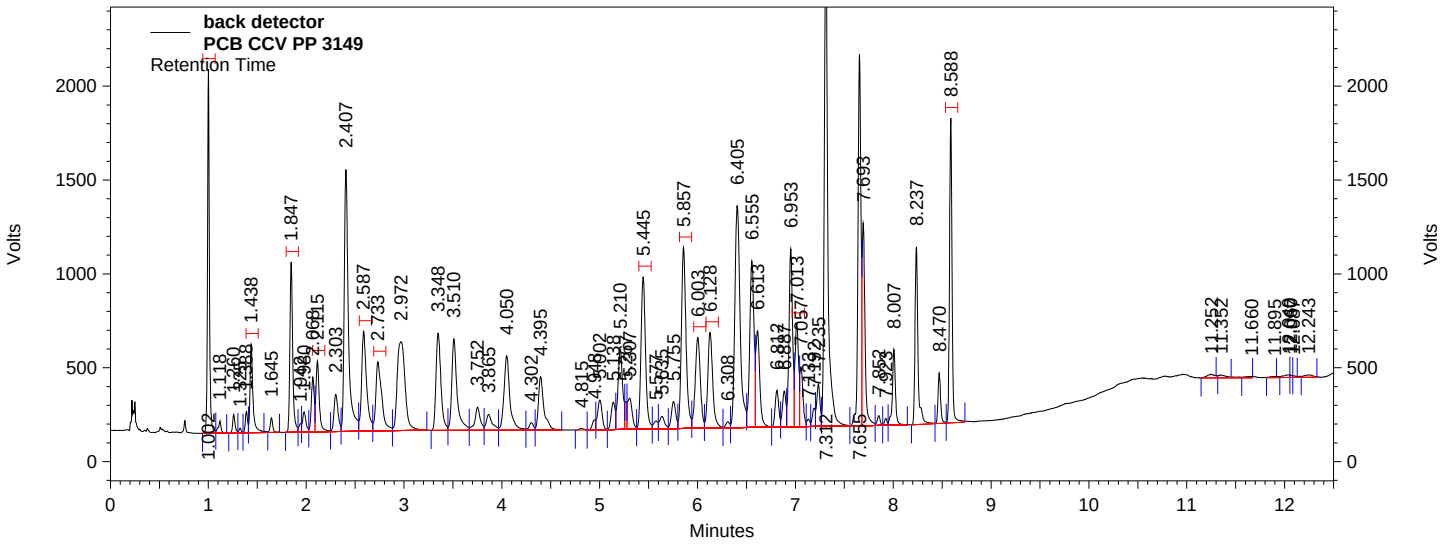
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.313	38909015	104.348
Aroclor 1016 #1	1.672	13830012	0.113
Aroclor 1016 #2	2.383	18481943	0.113
Aroclor 1016 #3	2.942	24978435	0.113
Aroclor 1016 #4	3.065	17828587	0.112
Aroclor 1016 #5	3.917	23573108	0.112
Aroclor 1260 #1	5.960	39311603	0.111
Aroclor 1260 #2	6.823	60427671	0.111
Aroclor 1260 #3	7.058	41579575	0.110
Aroclor 1260 #4	7.935	46735235	0.111
Aroclor 1260 #5	8.503	31930488	0.107
SURRDCBPCB	9.027	44221178	99.016
Aroclor 1016		98692085	0.564
Aroclor 1260		219984572	0.551

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\121410pcb\027.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\121410pcb.met
User: jjy
Sample ID: PCB CCV PP 3149 JJY 12/14/10
Acquired: Dec 14,2010 19:41:35
Printed: Dec 14,2010 19:54:19

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.002	19963573	101.365
Aroclor 1016 #1	1.438	7475391	0.111
Aroclor 1016 #2	1.847	14118415	0.111
Aroclor 1016 #3	2.115	7045468	0.112
Aroclor 1016 #4	2.587	14394082	0.111
Aroclor 1016 #5	2.733	11964114	0.111
Aroclor 1260 #1	5.445	19939922	0.108
Aroclor 1260 #2	5.857	24674146	0.108
Aroclor 1260 #3	6.003	13547577	0.108
Aroclor 1260 #4	6.128	13568650	0.106
Aroclor 1260 #5	7.013	10504038	0.109
SURRDCBPCB	8.588	22308904	102.097
Aroclor 1016		54997470	0.557
Aroclor 1260		82234333	0.540

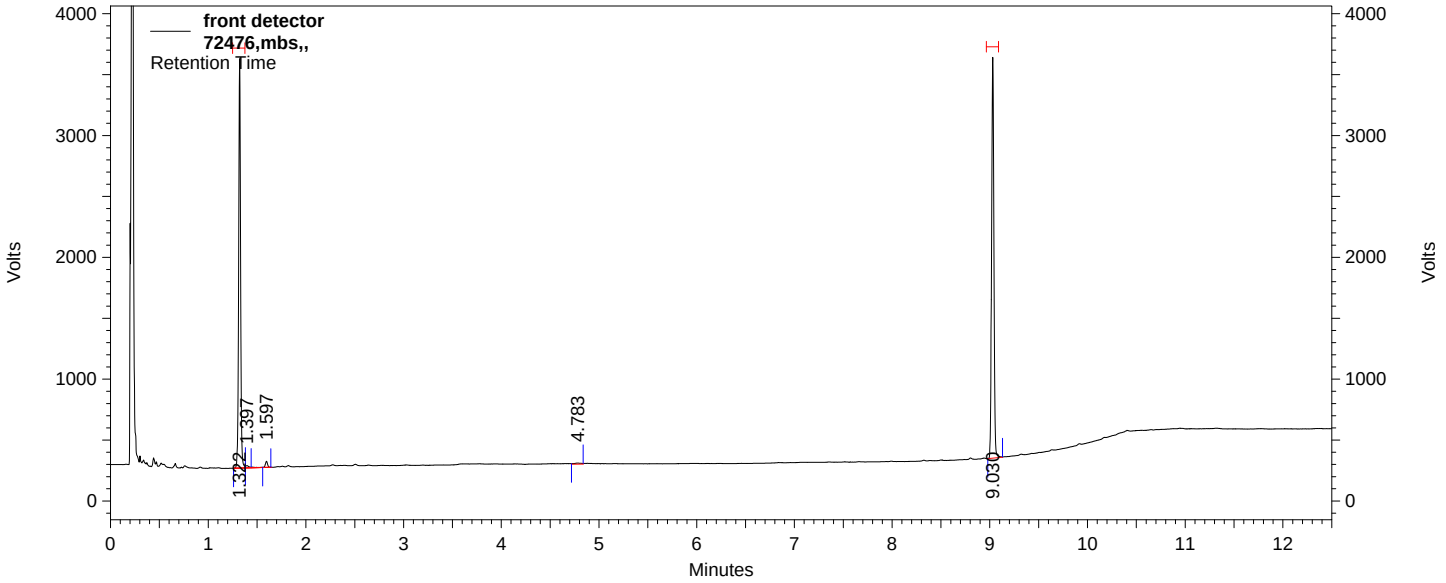
POLYCHLORINATED BIPHENYL QUALITY CONTROL DOCUMENTS

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\121410pcb\005.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\121410pcb.met
User: jjy
Sample ID: 72476,mbs,,
Acquired: Dec 14,2010 13:57:01
Printed: Dec 14,2010 19:11:26

JJY
12/14/10

Data Summary: {Data Description}



front detector Results

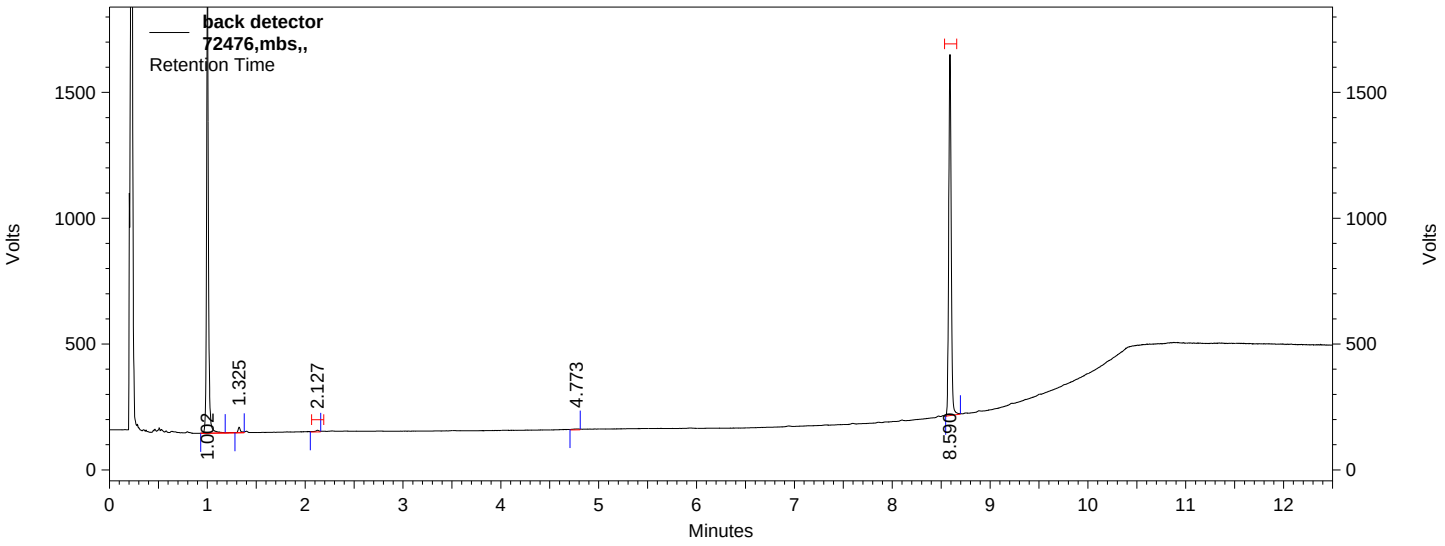
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.322	35606172	95.157
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1			0.000 BDL
Aroclor 1260 #2			0.000 BDL
Aroclor 1260 #3			0.000 BDL
Aroclor 1260 #4			0.000 BDL
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB	9.030	41908360	93.614
Aroclor 1016		0	0.000
Aroclor 1260		0	0.000

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\121410pcb\005.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\121410pcb.met
User: jjy
Sample ID: 72476,mbs,,
Acquired: Dec 14,2010 13:57:01
Printed: Dec 14,2010 19:11:26

JJY
12/14/10

Data Summary: {Data Description}



back detector Results

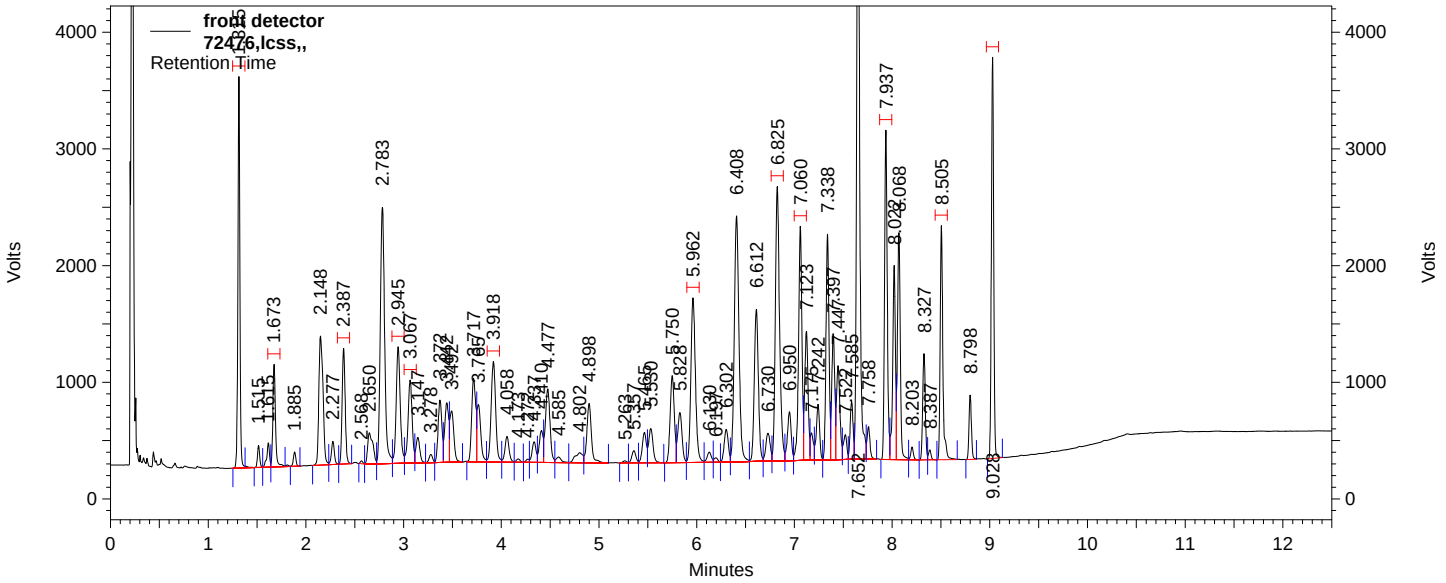
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.002	18140180	91.866
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3	2.127	150834	0.000
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1			0.000 BDL
Aroclor 1260 #2			0.000 BDL
Aroclor 1260 #3			0.000 BDL
Aroclor 1260 #4			0.000 BDL
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB	8.590	19360286	87.964
Aroclor 1016		150834	0.000
Aroclor 1260		0	0.000

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\121410pcb\006.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\121410pcb.met
User: jjy
Sample ID: 72476,lcss,,
Acquired: Dec 14,2010 14:12:41
Printed: Dec 14,2010 19:11:35

JJY
12/14/10

Data Summary: {Data Description}



front detector Results

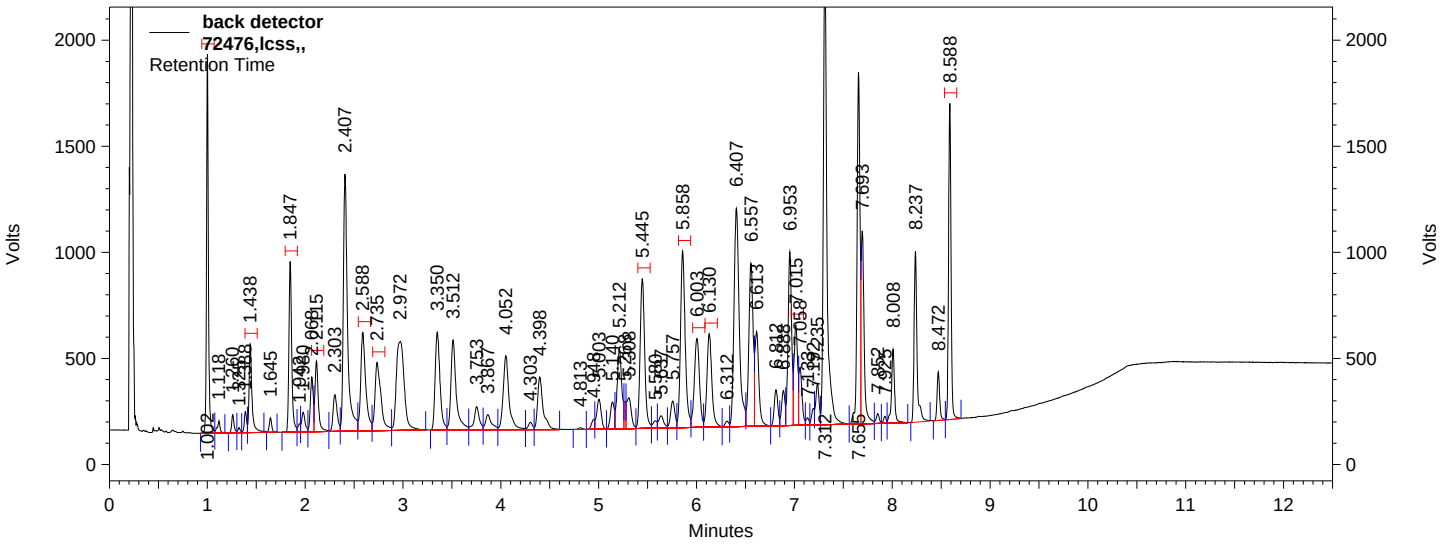
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.315	36310070	97.116
Aroclor 1016 #1	1.673	12504894	0.101
Aroclor 1016 #2	2.387	16659771	0.102
Aroclor 1016 #3	2.945	22369269	0.101
Aroclor 1016 #4	3.067	15990114	0.100
Aroclor 1016 #5	3.918	21241962	0.101
Aroclor 1260 #1	5.962	35140137	0.099
Aroclor 1260 #2	6.825	53839541	0.098
Aroclor 1260 #3	7.060	37429777	0.099
Aroclor 1260 #4	7.937	41984412	0.099
Aroclor 1260 #5	8.505	29171151	0.098
SURRDCBPCB	9.028	43831290	98.105
Aroclor 1016		88766010	0.504
Aroclor 1260		197565018	0.493

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\121410pcb\006.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\121410pcb.met
User: jjy
Sample ID: 72476,lcss,,
Acquired: Dec 14,2010 14:12:41
Printed: Dec 14,2010 19:11:35

JJY
12/14/10

Data Summary: {Data Description}



back detector Results

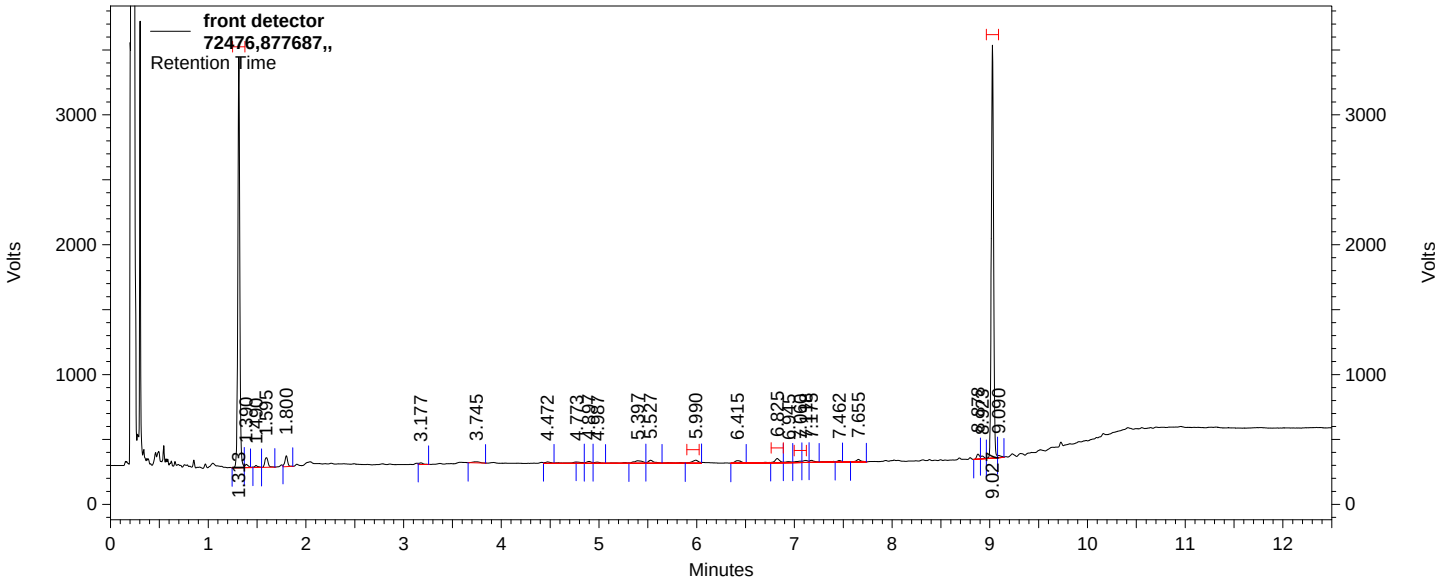
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.002	18190958	92.130
Aroclor 1016 #1	1.438	6603136	0.097
Aroclor 1016 #2	1.847	12426258	0.097
Aroclor 1016 #3	2.115	6205928	0.098
Aroclor 1016 #4	2.588	12633332	0.097
Aroclor 1016 #5	2.735	10460214	0.097
Aroclor 1260 #1	5.445	17335633	0.093
Aroclor 1260 #2	5.858	21352404	0.093
Aroclor 1260 #3	6.003	11790011	0.093
Aroclor 1260 #4	6.130	11624378	0.091
Aroclor 1260 #5	7.015	9018069	0.093
SURRDCBPCB	8.588	20173747	91.863
Aroclor 1016		48328868	0.486
Aroclor 1260		71120495	0.463

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\121410pcb\020.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\121410pcb.met
User: jjy
Sample ID: 72476,877687,,
Acquired: Dec 14,2010 17:51:58
Printed: Dec 14,2010 19:13:40

JJY
12/14/10

Data Summary: {Data Description}



front detector Results

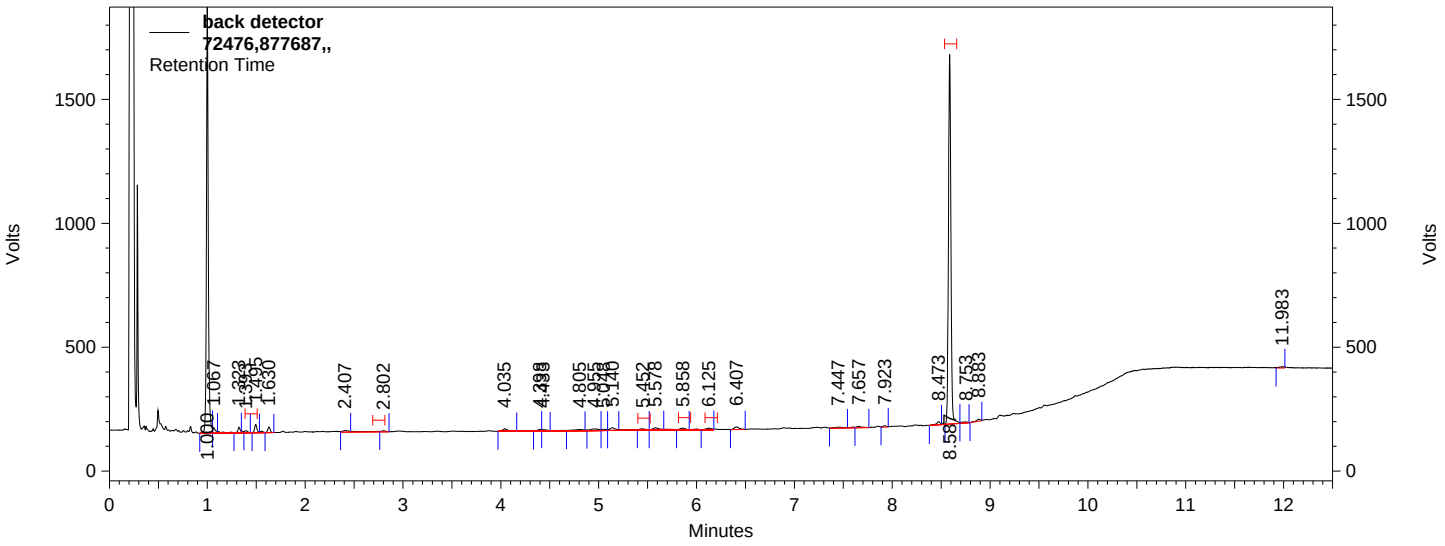
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.313	33631066	89.662
Aroclor 1016 #1			0.000 BDL
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5			0.000 BDL
Aroclor 1260 #1	5.990	869805	0.000
Aroclor 1260 #2	6.825	848585	0.000
Aroclor 1260 #3	7.060	353752	0.000
Aroclor 1260 #4			0.000 BDL
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB	9.027	39731360	88.530
Aroclor 1016		0	0.000
Aroclor 1260		2072142	0.000

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\121410pcb\020.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\121410pcb.met
User: jjy
Sample ID: 72476,877687,,
Acquired: Dec 14,2010 17:51:58
Printed: Dec 14,2010 19:13:40

JJY
12/14/10

Data Summary: {Data Description}



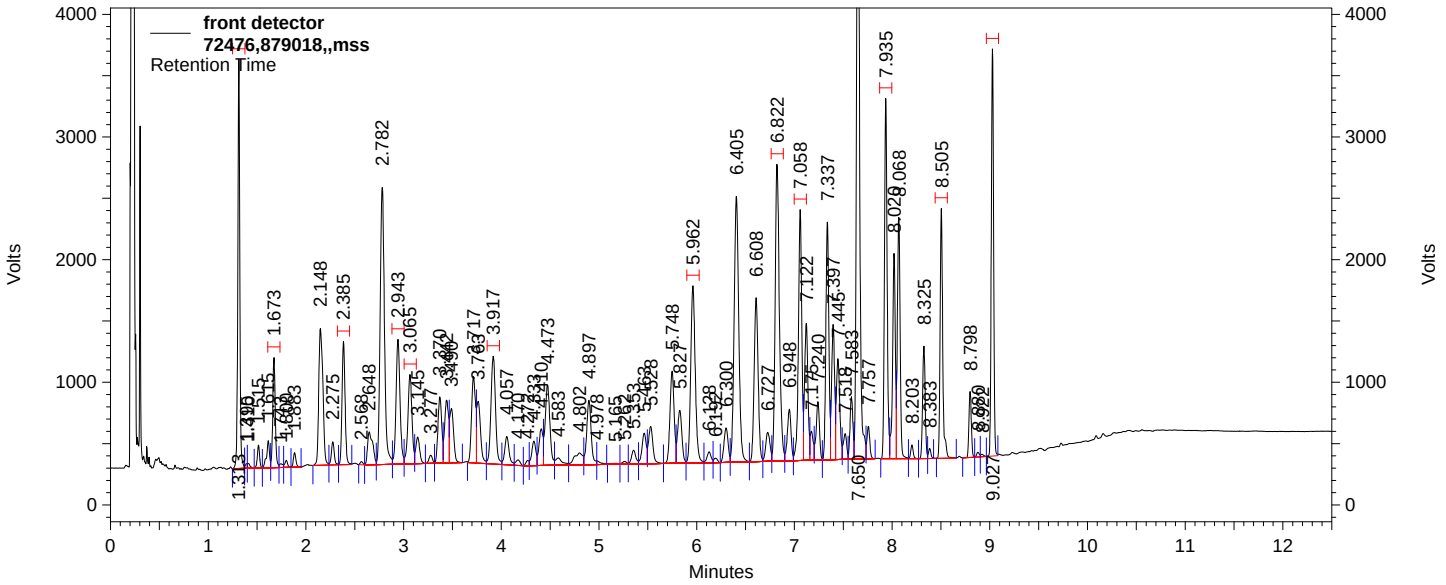
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.000	17301311	87.495
Aroclor 1016 #1	1.495	448389	0.002
Aroclor 1016 #2			0.000 BDL
Aroclor 1016 #3			0.000 BDL
Aroclor 1016 #4			0.000 BDL
Aroclor 1016 #5	2.802	122480	0.000
Aroclor 1260 #1	5.452	208783	0.000
Aroclor 1260 #2	5.858	234736	0.000
Aroclor 1260 #3			0.000 BDL
Aroclor 1260 #4	6.125	192220	0.000
Aroclor 1260 #5			0.000 BDL
SURRDCBPCB	8.587	19929534	90.692
Aroclor 1016		570869	0.002
Aroclor 1260		635739	0.000

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\121410pcb\021.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\121410pcb.met
User: jjy
Sample ID: 72476,879018,,mss JJY
Acquired: Dec 14,2010 18:07:40 12/14/10
Printed: Dec 14,2010 19:13:48

Data Summary: {Data Description}



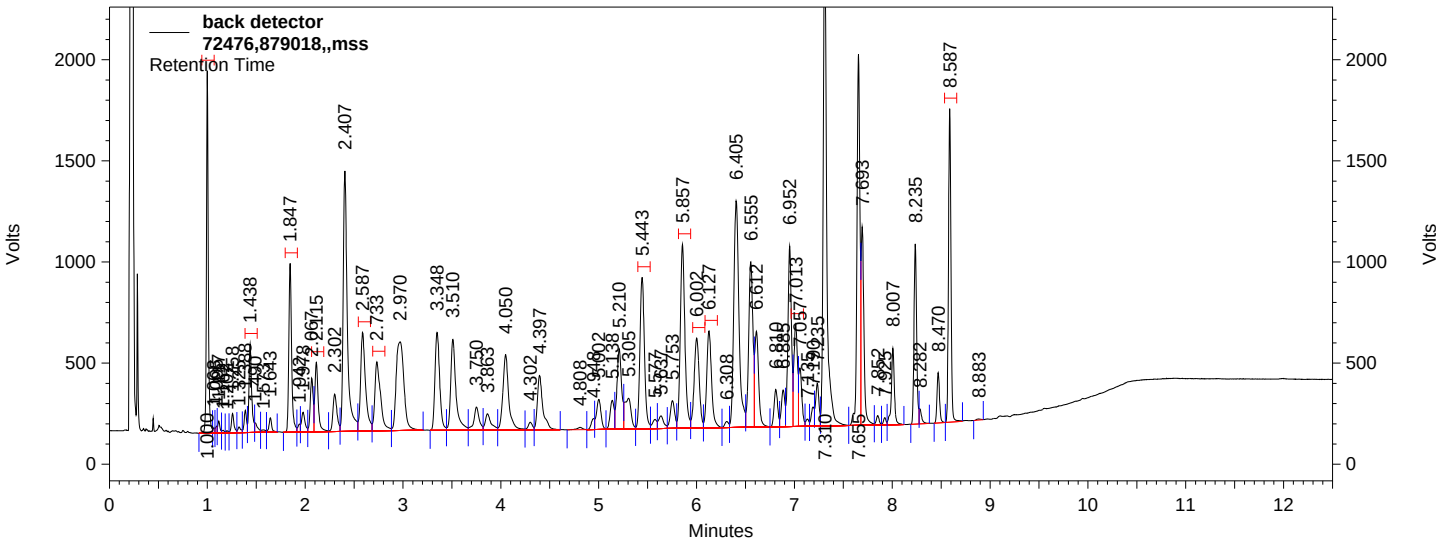
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.313	36124235	96.599
Aroclor 1016 #1	1.673	12219971	0.099
Aroclor 1016 #2	2.385	16822748	0.103
Aroclor 1016 #3	2.943	22300418	0.100
Aroclor 1016 #4	3.065	16049921	0.101
Aroclor 1016 #5	3.917	21792067	0.103
Aroclor 1260 #1	5.962	35839584	0.101
Aroclor 1260 #2	6.822	55361619	0.101
Aroclor 1260 #3	7.058	37894336	0.100
Aroclor 1260 #4	7.935	43114602	0.102
Aroclor 1260 #5	8.505	28900590	0.097
SURRDCBPCB	9.027	42077657	94.010
Aroclor 1016		89185125	0.505
Aroclor 1260		201110731	0.501

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\121410pcb\021.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\121410pcb.met
User: jjy
Sample ID: 72476,879018,,mss JJY
Acquired: Dec 14,2010 18:07:40 12/14/10
Printed: Dec 14,2010 19:13:48

Data Summary: {Data Description}



back detector Results

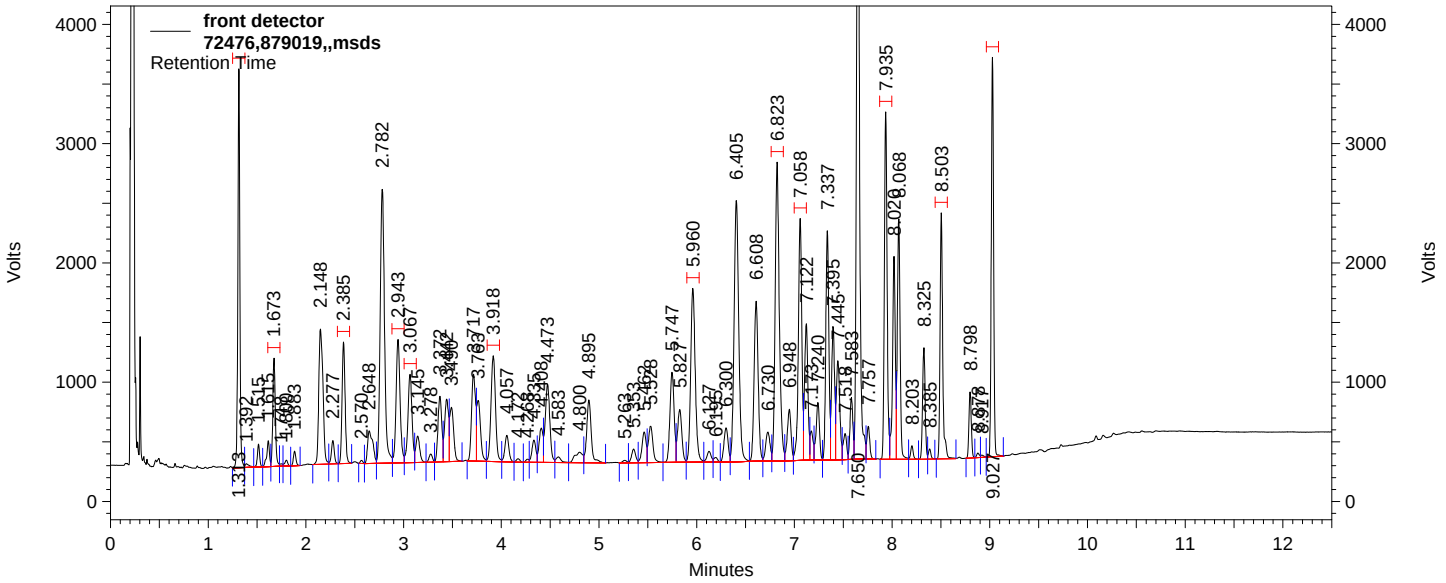
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.000	18050269	91.397
Aroclor 1016 #1	1.438	6385394	0.094
Aroclor 1016 #2	1.847	12836914	0.100
Aroclor 1016 #3	2.115	6287336	0.099
Aroclor 1016 #4	2.587	13047302	0.100
Aroclor 1016 #5	2.733	10730274	0.099
Aroclor 1260 #1	5.443	18313453	0.099
Aroclor 1260 #2	5.857	22920250	0.100
Aroclor 1260 #3	6.002	12369652	0.098
Aroclor 1260 #4	6.127	12514292	0.098
Aroclor 1260 #5	7.013	9624125	0.099
SURRDCBPCB	8.587	20728850	94.523
Aroclor 1016		49287220	0.493
Aroclor 1260		75741772	0.494

PCB Analysis Report (1016/1260) *(Channel A)*

Data File: C:\Instarch\Semi7\Data\121410pcb\022.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\121410pcb.met
User: jjy
Sample ID: 72476,879019,,msds
Acquired: Dec 14,2010 18:23:22
Printed: Dec 14,2010 19:13:56

JJY
12/14/10

Data Summary: {Data Description}



front detector Results

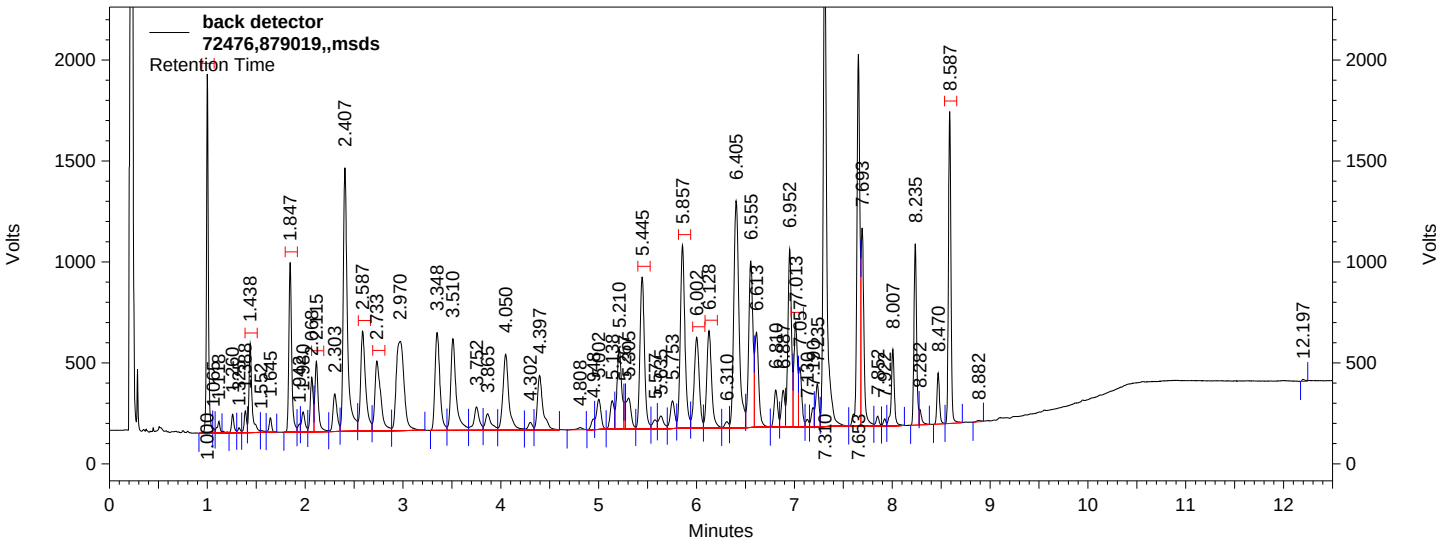
Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.313	36517767	97.694
Aroclor 1016 #1	1.673	12310398	0.099
Aroclor 1016 #2	2.385	17095218	0.104
Aroclor 1016 #3	2.943	22947058	0.103
Aroclor 1016 #4	3.067	16441818	0.103
Aroclor 1016 #5	3.918	21595584	0.102
Aroclor 1260 #1	5.960	36324920	0.102
Aroclor 1260 #2	6.823	56293126	0.103
Aroclor 1260 #3	7.058	38611160	0.102
Aroclor 1260 #4	7.935	43867172	0.104
Aroclor 1260 #5	8.503	29457729	0.099
SURRDCBPCB	9.027	42812260	95.725
Aroclor 1016		90390076	0.513
Aroclor 1260		204554107	0.510

PCB Analysis Report (1016/1260) *(Channel B)*

Data File: C:\Instarch\Semi7\Data\121410pcb\022.dat
Method: C:\Instarch\Semi7\Method\Aroclor\111110pcbic\121410pcb.met
User: jjy
Sample ID: 72476,879019,,msds
Acquired: Dec 14,2010 18:23:22
Printed: Dec 14,2010 19:13:56

JJY
12/14/10

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPCB	1.000	18215318	92.257
Aroclor 1016 #1	1.438	7061603	0.105
Aroclor 1016 #2	1.847	13073571	0.102
Aroclor 1016 #3	2.115	6480095	0.103
Aroclor 1016 #4	2.587	13380013	0.103
Aroclor 1016 #5	2.733	11075700	0.103
Aroclor 1260 #1	5.445	18477709	0.100
Aroclor 1260 #2	5.857	23092183	0.101
Aroclor 1260 #3	6.002	12534022	0.100
Aroclor 1260 #4	6.128	12664657	0.099
Aroclor 1260 #5	7.013	9749477	0.101
SURRDCBPCB	8.587	20984867	95.751
Aroclor 1016		51070982	0.515
Aroclor 1260		76518048	0.500

POLYCHLORINATED BIPHENYLS
LOGBOOK
DOCUMENTS

S PCB Analytical Run
72476 on 12/22/2010

Date Analyzed: JJY 12/22/10

Date Entered:

Date Reviewed:

Date Validated:

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	879020						PCB QSM				
				MBS				35714			
	879021						PCB QSM				
				LCSS				35714			
82599	874693		11/23/2010		CT LABORATORIES	QSM Quarterly Check	PCB QSM		S	1	
		LOD						35714			
82599	874694		11/23/2010		CT LABORATORIES	QSM Quarterly Check	PCB QSM		S	1	
		LOQ						35714			
82743	877664		12/2/2010 1325		USACE - LOUISVILLE	RAVENNA	PCB QSM		S	4	
		DAASS-041-0001-SO						35714			
82748	877680		12/2/2010 0910		ARA INCORPORATED	BORROW	PCB QSM		S	4	
		PB6-44-SSS						35714			
82748	877681		12/2/2010 0915		ARA INCORPORATED	BORROW	PCB QSM		S	4	
		PB6-45-SSS						35714			
82748	877682		12/2/2010 0920		ARA INCORPORATED	BORROW	PCB QSM		S	4	
		PB6-46-SSS						35714			
82748	877683		12/2/2010 0924		ARA INCORPORATED	BORROW	PCB QSM		S	4	
		PB6-47-SSS						35714			
82748	877684		12/2/2010 0930		ARA INCORPORATED	BORROW	PCB QSM		S	4	
		PB6-48-SSS						35714			
82748	877685		12/2/2010 0936		ARA INCORPORATED	BORROW	PCB QSM		S	4	
		PB6-49-SSS						35714			
82748	877686		12/2/2010 0936		ARA INCORPORATED	BORROW	PCB QSM		S	4	
		PB6-49-SSS-FD						35714			
82748	877687		12/2/2010 0942		ARA INCORPORATED	BORROW	PCB QSM		S	4	
		PB6-50-SSS		Designated MS/MSD				35714			
	879018		12/2/2010 0942				PCB QSM				
		PB6-50-SSS		MSS 877687				35714			
	879019		12/2/2010 0942				PCB QSM				
		PB6-50-SSS		MSDS 879018				35714			
82748	877688		12/2/2010 0952		ARA INCORPORATED	BORROW	PCB QSM		S	4	
		PB6-51-SSS						35714			
82748	877689		12/2/2010 0959		ARA INCORPORATED	BORROW	PCB QSM		S	4	
		PB6-52-SSS						35714			
82748	877690		12/2/2010 1004		ARA INCORPORATED	BORROW	PCB QSM		S	4	
		PB6-53-SSS						35714			
82743	877666		12/2/2010 1355		USACE - LOUISVILLE	RAVENNA	PCB QSM		S	4	
		DAASS-040-0001-SO						35714			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 1/5/2011

Prep Batch **35,714**

Prepped By:: BEL

Date Prepped: 12/8/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	879020	MBS		PCB QSM	SOLID	10.0	10.00			
	879021	LCSS		PCB QSM	SOLID	10.0	10.00			
82599	874693			PCB QSM	SOIL	10.0	10.00		N	
	874694			PCB QSM	SOIL	10.0	10.00		N	
82743	877664			PCB QSM	SOIL	10.0	10.09		N	
	877666			PCB QSM	SOIL	10.0	9.99		N	
82748	877680			PCB QSM	SOIL	10.0	10.02		N	
	877681			PCB QSM	SOIL	10.0	9.95		N	
	877682			PCB QSM	SOIL	10.0	10.04		N	
	877683			PCB QSM	SOIL	10.0	10.06		N	
	877684			PCB QSM	SOIL	10.0	9.97		N	
	877685			PCB QSM	SOIL	10.0	10.00		N	
	877686			PCB QSM	SOIL	10.0	10.00		N	
	877687	*		PCB QSM	SOIL	10.0	10.09		N	
	877688			PCB QSM	SOIL	10.0	10.09		N	
	877689			PCB QSM	SOIL	10.0	10.02		N	
	877690			PCB QSM	SOIL	10.0	10.01		N	
	879018	MSS	877687	PCB QSM	SOIL	10.0	10.04			
	879019	MSDS	879018	PCB QSM	SOIL	10.0	10.03			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

Pesticides/PCB Extraction Bench Sheet
SOP Reference Number 8081&8082

EPA Method references:
8081 (Pesticides)
8082 (PCB)
3510 (Separatory Funnel Extraction)
3545 (Pressurized Fluid Extraction)
3580 (Waste Dilution)
3535 (Solid Phase Extraction)
3546 (Microwave Extraction)

Prep Batch Number 35714

Spike and Surrogate Information:
Spike amount and concentration (Matrix Spike and LCS): 0.5 mL @ 40 ug/mL + see below
Spike Reference: PP 3122
Tox/Chlor spike amount and concentration: —
Tox/Chlor spike Reference: PP —
Surrogate amount and concentration: 0.5 mL @ 0.5 ug/mL + see below
Surrogate standard reference: PP 3031

Reagent Lot #
$MeCl_2$ 536J16 Hexane HS1E55 Na_2SO_4 529601
Dionex DI 1435 Acetone 514E52 Diatomaceous Earth 49324
Methanol — Acid — Scale Semi balance 1
GPC Start — GPC End —

Extraction by: BEL Date 12/8/10 Start Time 13:00 End Time 14:30
Initial Concentration by: — Date — / — / —
Final Concentration by: BEL Date 12/13/10

Cell #	Client	Sample Number	Sample Amt. (gm or mL)	Final Vol (mL)	pH	Comments
31	Method Blank	MB 879620	10.00	10.0		
32	Control Spike	LCS 879021	10.00	↓		
	~~Control Spike Dup.~~	LCSD N/A BEL 12/8/10				
	Tox/Chlor Spike	Tox/Chlor				
35	Matrix Spike	MS 877687	10.04	10.0		
36	Matrix Spike Dup.	MSD 877687	10.03			
37	ARA	877687	10.09			
38	↓	877688	10.09			
39		877689	10.02			
40		877690	10.01			
41	Ravenna	877664	10.09			
42	↓	877666	9.99			
43	ARA	877680	10.02			
44	↓	877681	9.95			
45		877682	10.04			
46		877683	10.06			
47		877684	9.97			
48		877685	10.00			
49	↓	877686	10.00			
33	CT Labs	LOD/LOQ 884693	10.00			30 mL spike 50 mL surr
34	2	LOD/LOQ 884694	10.00	↓		100 mL spike 100 mL surr
		N/A BEL 12/8/10				

Footnotes:

Final extract
Relinquished by: BEL Date: 12/13/10 Relinquished to: BEL Date: 12/13/10

Reviewed By: _____

h:\\Laboratory\semi volatiles\semi bench sheet\pest_pcb bench sheet2

Summary Report

Instrument ID: Semi 7 (Offline)
Data Path: C:\Instarch\Semi7\Sequence\111110pcbic.seq
User ID: jjy
Printed Date: 11/11/2010 4:39:24 PM

JJY
11/15/10

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	Prime PP 3041	001.dat	111110pcbic.met	11/11/2010 4:26:54 PM	
2	Hexane	002.dat	111110pcbic.met	11/11/2010 4:42:31 PM	
3	PCB ICAL 1 PP 3036	003.dat	111110pcbic.met	11/11/2010 4:58:08 PM	
4	PCB ICAL 2 PP 3037	004.dat	111110pcbic.met	11/11/2010 5:13:48 PM	
5	PCB ICAL 3 PP 3038	005.dat	111110pcbic.met	11/11/2010 5:29:27 PM	
6	PCB ICAL 4 PP 3039	006.dat	111110pcbic.met	11/11/2010 5:45:06 PM	
7	PCB ICAL 5 PP 3040	007.dat	111110pcbic.met	11/11/2010 6:00:45 PM	
8	PCB ICAL 6 PP 3041	008.dat	111110pcbic.met	11/11/2010 6:16:25 PM	
9	Hexane	009.dat	111110pcbic.met	11/11/2010 6:32:04 PM	
10	PCB ICV PP 3047	010.dat	111110pcbic.met	11/11/2010 6:47:45 PM	
11	Hexane	011.dat	111110pcbic.met	11/11/2010 7:03:27 PM	
12	PCB 1221 CF PP 3068	012.dat	1221.met	11/11/2010 7:19:08 PM	
13	PCB 1232 CF PP 3042	013.dat	1232.met	11/11/2010 7:34:49 PM	
14	PCB 1242 CF PP 3043	014.dat	1242.met	11/11/2010 7:50:34 PM	
15	PCB 1248 CF PP 3044	015.dat	1248.met	11/11/2010 8:06:17 PM	
16	PCB 1254 CF PP 3045	016.dat	1254.met	11/11/2010 8:21:56 PM	
17	PCB 1262 CF PP 3046	017.dat	1262.met	11/11/2010 8:37:33 PM	
18	PCB 1268 CF PP 3072	018.dat	1268.met	11/11/2010 8:53:10 PM	
19	Hexane	019.dat	111110pcbic.met	11/11/2010 9:08:48 PM	
20	PCB 1221 ICV PP 3069	020.dat	1221.met	11/11/2010 9:24:25 PM	
21	PCB 1232 ICV PP 3048	021.dat	1232.met	11/11/2010 9:40:04 PM	
22	PCB 1242 ICV PP 3049	022.dat	1242.met	11/11/2010 9:55:44 PM	
23	PCB 1248 ICV PP 3050	023.dat	1248.met	11/11/2010 10:11:23 PM	
24	PCB 1254 ICV PP 3051	024.dat	1254.met	11/11/2010 10:27:02 PM	
25	PCB 1262 ICV PP 3052	025.dat	1262.met	11/11/2010 10:42:43 PM	
26	PCB 1268 ICV PP 3073	026.dat	1268.met	11/11/2010 10:58:25 PM	
27	Hexane	027.dat	111110pcbic.met	11/11/2010 11:14:07 PM	

Summary Report

JJY
12/14/10

Instrument ID: **Semi 7**
Data Path: **C:\Instarch\Semi7\Sequence\121410pcb.seq**
User ID: **jjy**
Printed Date: **Dec 14,2010 19:10:41**

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	Prime PP 3148	001.dat	121410pcb.met	Dec 14,2010 12:46:26	
2	Hexane	002.dat	121410pcb.met	Dec 14,2010 13:02:04	
3	PCB CCV PP 3149	003.dat	121410pcb.met	Dec 14,2010 13:17:41	
4	Hexane	004.dat	121410pcb.met	Dec 14,2010 13:33:18	
5	72476,mbs,,	005.dat	121410pcb.met	Dec 14,2010 13:57:01	
6	72476,lcss,,	006.dat	121410pcb.met	Dec 14,2010 14:12:41	
7	Hexane	007.dat	121410pcb.met	Dec 14,2010 14:28:23	
8	72476,874693,,	008.dat	121410pcb.met	Dec 14,2010 14:44:05	
9	72476,874694,,	009.dat	121410pcb.met	Dec 14,2010 14:59:44	
10	72476,877664,,	010.dat	121410pcb.met	Dec 14,2010 15:15:25	
11	72476,877666,,	011.dat	121410pcb.met	Dec 14,2010 15:31:07	
12	72476,877680,,	012.dat	121410pcb.met	Dec 14,2010 15:46:44	
13	72476,877681,,	013.dat	121410pcb.met	Dec 14,2010 16:02:21	
14	72476,877682,,	014.dat	121410pcb.met	Dec 14,2010 16:18:00	
15	72476,877683,,	015.dat	121410pcb.met	Dec 14,2010 16:33:41	
16	PCB CCV PP 3149	016.dat	121410pcb.met	Dec 14,2010 16:49:18	
17	72476,877684,,	017.dat	121410pcb.met	Dec 14,2010 17:04:57	
18	72476,877685,,	018.dat	121410pcb.met	Dec 14,2010 17:20:37	
19	72476,877686,,	019.dat	121410pcb.met	Dec 14,2010 17:36:17	
20	72476,877687,,	020.dat	121410pcb.met	Dec 14,2010 17:51:58	
21	72476,879018,,mss	021.dat	121410pcb.met	Dec 14,2010 18:07:40	
22	72476,879019,,msds	022.dat	121410pcb.met	Dec 14,2010 18:23:22	
23	72476,877688,,	023.dat	121410pcb.met	Dec 14,2010 18:39:00	
24	72476,877689,,	024.dat	121410pcb.met	Dec 14,2010 18:54:37	
25	72476,877690,,	025.dat	121410pcb.met	Dec 14,2010 19:10:17	
26	72476,877666,,rr	026.dat	121410pcb.met	Dec 14,2010 19:25:54	
27	PCB CCV PP 3149	027.dat	121410pcb.met	Dec 14,2010 19:41:35	

Table 4

8082 PCB Analysis Data Review Checklist

Analytical Run #: 72476	**Independent Reviewer: red**
Sequence Date: 12/14/2010	**Date of Review: 12/15/2010**
Analyst/Data Interpreter: JJY	**Approval: YES**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the PCB initial calibration (Aroclor 1016/1260) performed using a minimum of five varying standard concentration levels on two dissimilar columns?	Lowest standard at or near MRL	**Yes**		**Yes**		
b. Is the variation between calibration response factors for all concentration levels <20% RSD, is r^2 >.990, or r > 0.990 for the regression line?	RSD<20%, r^2>0.990, or r>0.990	**Yes**		**Yes**		
c. Was each ICAL uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		
d. Were there Calibration Factors (CF) established for the remaining Aroclors?		**Yes**		**Yes**		
e. Was an initial calibration blank (ICB) analyzed?		**Yes**		**Yes**		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Were there second source ICVs for all Aroclors analyzed after the initial calibration and prior to analysis of any samples?		**Yes**		**Yes**		
b. Were the recoveries for the ICVs within program limits?	Second source	**Yes**		**Yes**		
c. Was the ICVs uniquely identified (i.e. Standard Number)?	%Recovery	**Yes**		**Yes**		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
a. Were CCVs (Aroclor 1016/1260) analyzed at the beginning of the sequence, after every 12 hours or every 20 samples (which ever comes first) and at the end of the analytical run? QSM = every ten sample injections.		**Yes**		**Yes**		
b. Were the recoveries for the CCVs within program limits?	%Recovery	**Yes**		**Yes**		
c. Were confirmed Aroclor detects processed using the appropriate Aroclor method?		**Yes**		**Yes**		
d. Was each CCV uniquely identified (i.e. Standard Number)?		**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 72476

Table 4

8082 PCB Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. BLANKS						
a. Was the method blank (MB) analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Was the MB result less than ½ the reporting limit (RL) or 5% of the sample amount?	In-house limits or client specified limits	**Yes**		**Yes**		
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
5. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed prior to the analysis of samples?		**Yes**		**Yes**		
b. Were the LCS recoveries in each LCS within the acceptance criteria?	Batch <20 samples	**Yes**		**Yes**		
c. Was a LCS analyzed at a frequency one per Prep Batch?	In-house limits or client specified limits	**Yes**		**Yes**		
6. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
b. Were MS recoveries in each MS within the acceptance criteria?	In-house limits or client specified limits	**Yes**		**Yes**		
7. LABORATORY CONTROL SPIKE / MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike or laboratory control spike sample analyzed at a . frequency one per Prep Batch?	Batch <20 samples	**Yes**		**Yes**		
b. Were MSD or LCSD recoveries within the acceptance criteria?	In-house limits or client specified limits	**Yes**		**Yes**		
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its' duplicate (MSD) or laboratory control spike (LCS) and its' duplicate (LCSD) within the acceptance criteria?	In-house limits or client specified limits	**Yes**		**Yes**		

Additional Comments:

Analytical Run #: 72476

Table 4

8082 PCB Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
8. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		**Yes**		**Yes**		
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?		**Yes**		**Yes**		
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		**Yes**		**Yes**		
d. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	**Yes**		**Yes**		
e. Did the samples require additional cleanup steps? (i.e. acid treatment, florisil, GPC, and sulfur treatment)	Florisil, GPC, Acid, Sulfur Treatments	**Yes**		**Yes**		Acid, Sulfur treatments.
f. Was there a hexane injection performed prior to sample analysis?		**Yes**		**Yes**		
g. Was there a priming standard injected prior to sample analysis?		**Yes**		**Yes**		
9. RECORDS AND REPORTING						
a. Is the Analytical Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, analytical data, and method transfer to PDF format?		**Yes**		**Yes**		
b. Are all chromatograms stamped with initials and date?		**Yes**		**Yes**		
c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier in LIMS and, if needed, a NCR completed?		**Yes**		**Yes**		
d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		**Yes**		**Yes**		
e. Is the ICAL method referenced on the Raw Data?		**Yes**		**Yes**		

Additional Comments:

Samples 877664 and 877666 had peaks detected but no aroclor pattern match.

Sample 877664 and 877666 had high surrogate recoveries on channel B for DBCP due to co-elution with interferering peak. Recoveries from channel A within the QC limits.
Channel A values reported.

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Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3036	PCB Lin PT 1	Hexane	24-May-10 SRT 24-Nov-10	PP3024 10 ug/ml	0.030	10.0	0.03 ug/ml
PP 3037	PCB Lin PT 2	Lot#H37E06		PP3024 10 ug/ml	0.050	10.0	0.05 ug/ml
PP 3038	PCB Lin PT 3			PP3024 10 ug/ml	0.200	10.0	0.20 ug/ml
PP 3039	PCB Lin PT 4			PP3024 10 ug/ml	0.500	10.0	0.50 ug/ml
PP 3040	PCB Lin PT 5			PP3024 10 ug/ml	1.000	10.0	1.00 ug/ml
PP 3041	PCB Lin PT 6			PP3024 10 ug/ml	1.200	10.0	1.20 ug/ml
PP 3042	CF 1232			PP3025 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3043	CF 1242			PP3026 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3044	CF 1248			PP3027 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3045	CF 1254			PP3028 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3046	CF 1262			PP3029 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3047	1016/1260 ICV			PP3030 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3048	1232 ICV			PP3031 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3049	1242 ICV			PP3032 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3050	1248 ICV			PP3033 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3051	1254 ICV			PP3034 10 ug/ml	0.500	10.0	0.5 ug/ml
PP 3052	1262 ICV			PP3035 10 ug/ml	0.500	10.0	0.5 ug/ml

SRT 5-24-10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3053	Tox/Chlor Spike	Acetone Lot#H12E11	03-Jun-10 SRT 28-Jul-10	S2093B 1000 ug/ml S2048A 1000 ug/ml	0.500 0.500	50.0 50.0	10.0 ug/ml 10.0 ug/ml

SRT 6-03-10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3057	1254 Lin PT 1	Hexane	10-Jun-10 SRT 24-Nov-10	PP3028 10 ug/ml	0.030	10.0	0.03 ug/ml
PP 3058	1254 Lin Pt 2	Lot#H37E06		PP3028 10 ug/ml	0.050	10.0	0.05 ug/ml
PP 3059	1254 Lin Pt 3			PP3028 10 ug/ml	0.200	10.0	0.20 ug/ml
PP 3060	1254 Lin Pt 4			PP3028 10 ug/ml	0.500	10.0	0.50 ug/ml
PP 3061	1254 Lin PT 5			PP3028 10 ug/ml	1.000	10.0	1.00 ug/ml
PP 3062	1254 Lin Pt 6			PP3028 10 ug/ml	1.200	10.0	1.20 ug/ml
PP 3063	1254 ICV			PP3034 10 ug/ml	0.500	10.0	0.50 ug/ml
PP 3064	E-Val		10-Jun-10 SRT 10-Dec-10	S2213A 200 ug/ml	0.020	50.0	0.08 ug/ml

SRT 6-10-10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3065	1242 CCV	Hexane Lot#H37E06	18-Jun-10 SRT 24-Nov-10	PP3026 10 ug/ml	0.500	10.0	0.5 ug/ml

SRT 6-18-10

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Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3066	1221 Int Std	Hexane	29-Jun-10 SRT 24-Nov-10	S2171	1000	ug/ml	0.100	10.0	10.0	ug/ml
		Lot#H37E06		S2072C	200	ug/ml	0.025	10.0	0.5	ug/ml
PP 3067	1221 Second Source			S2211	1000	ug/ml	0.100	10.0	10.0	ug/ml
				S2072C	200	ug/ml	0.025	10.0	0.5	ug/ml
PP 3068	CF 1221			PP 3066	10	ug/ml	0.500	10.0	0.5	ug/ml
PP 3069	1221 ICV			PP 3067	10	ug/ml	0.500	10.0	0.5	ug/ml
PP 3070	1268 Int STD			S2170	1000	ug/ml	0.100	10.0	10.0	ug/ml
				S2072C	200	ug/ml	0.025	10.0	0.5	ug/ml
PP 3071	1268 Second Source			S2215	1000	ug/ml	0.100	10.0	10.0	ug/ml
				S2072C	200	ug/ml	0.025	10.0	0.5	ug/ml
PP 3072	CF 1268			PP 3070	10	ug/ml	0.500	10.0	0.5	ug/ml
PP 3073	1268 ICV			PP3071	10	ug/ml	0.500	10.0	0.5	ug/ml

SRT 6-29-10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3074	1262 Lin PT 1	Hexane	02-Jul-10 SRT 24-Nov-10	PP3029	10	ug/ml	0.030	10.0	0.03	ug/ml
PP 3075	1262 Lin PT 2	Lot#H37E06		PP3029	10	ug/ml	0.050	10.0	0.05	ug/ml
PP 3076	1262 Lin PT 3			PP3029	10	ug/ml	0.200	10.0	0.20	ug/ml
PP 3077	1262 Lin PT 4			PP3029	10	ug/ml	0.500	10.0	0.50	ug/ml
PP 3078	1262 Lin PT 5			PP3029	10	ug/ml	1.000	10.0	1.00	ug/ml
PP 3079	1262 Lin PT 6			PP3029	10	ug/ml	1.200	10.0	1.20	ug/ml
PP 3080	1262 ICV			PP3035	10	ug/ml	0.500	10.0	0.50	ug/ml

SRT 7-2-10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3081	PCB Spike	Acetone JT Baker lot H12E11	21-Jul-10 JJY 29-Oct-10	S2043B	1000	ug/mL	0.500	50.0	10.0	ug/ml

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Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3082	EVAL	Hexane JT Baker lot H47E47	29-Jul-10 JJY 10-Dec-10	S2213A						
				Endrin	100	ug/mL	0.020	50.0	0.040	ug/ml
				DDT	200	ug/mL	0.020	50.0	0.080	ug/ml
PP 3083	Pest ICAL Stock		29-Jul-10 JJY 29-Jan-11	S2144	200	ug/mL	0.100	10.0	2.0	ug/ml
				S2130B	200	ug/mL	0.063	10.0	1.3	ug/ml
PP 3084	Pest ICV Stock			S2145	200	ug/mL	0.100	10.0	2.0	ug/ml
				S230B	200	ug/mL	0.063	10.0	1.3	ug/ml
PP 3085	Tox/Chlor Stock			S2093A	1000	ug/mL	0.100	10.0	10.00	ug/ml
				S2204	1000	ug/mL	0.100	10.0	10.00	ug/ml
				S2130B	200	ug/mL	0.030	10.0	0.60	ug/ml
PP 3086	Tox/Chlor ICV Stock			S2206	1000	ug/mL	0.100	10.0	10.00	ug/ml
				S2205	1000	ug/mL	0.100	10.0	10.00	ug/ml
				S2130B	200	ug/mL	0.030	10.0	0.60	ug/ml
PP 3087	PEST ICAL 1			PP 3083	2	ug/mL	0.005	10.0	0.001	ug/ml
PP 3088	PEST ICAL 2			PP 3083	2	ug/mL	0.025	10.0	0.005	ug/ml
PP 3089	PEST ICAL 3			PP 3083	2	ug/mL	0.050	10.0	0.010	ug/ml
PP 3090	PEST ICAL 4			PP 3083	2	ug/mL	0.100	10.0	0.020	ug/ml
PP 3091	PEST ICAL 5			PP 3083	2	ug/mL	0.200	10.0	0.040	ug/ml
PP 3092	PEST ICAL 6			PP 3083	2	ug/mL	0.250	10.0	0.050	ug/ml
PP 3093	PEST ICAL 7			PP 3083	2	ug/mL	0.350	10.0	0.070	ug/ml
PP 3094	PEST ICV			PP 3084	2	ug/mL	0.200	10.0	0.040	ug/ml
PP 3095	Tox/Chlor 1			PP 3085	10	ug/mL	0.030	10.0	0.03	ug/ml
PP 3096	Tox/Chlor 2			PP 3085	10	ug/mL	0.050	10.0	0.05	ug/ml
PP 3097	Tox/Chlor 3			PP 3085	10	ug/mL	0.100	10.0	0.10	ug/ml
PP 3098	Tox/Chlor 4			PP 3085	10	ug/mL	0.250	10.0	0.25	ug/ml
PP 3099	Tox/Chlor 5			PP 3085	10	ug/mL	0.400	10.0	0.40	ug/ml
PP 3100	Tox/Chlor 6			PP 3085	10	ug/mL	0.600	10.0	0.60	ug/ml
PP 3101	Tox/Chlor ICV			PP 3086	10	ug/mL	0.250	10.0	0.25	ug/ml
PP 3102	Tox/Chlor Spike	Acetone JT Baker lot H12E11		S2206	1000	ug/mL	0.500	50.0	10.0	ug/ml
				S2205	1000	ug/mL	0.500	50.0	10.0	ug/ml
PP 3103	PEST CCV	Hexane JT Baker lot H47E47		PP 3083	2	ug/mL	0.200	10.0	0.040	ug/ml
PP 3104	Tox/Chlor CCV			PP 3085	10	ug/mL	0.250	10.0	0.250	ug/ml

JJY 7/29/2010

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration			Standard Volume (ml)	Final Volume (ml)	Final Concentration	
PP 3105	Pest/PCB Surrogate	Acetone JT Baker lot H12E11	20-Aug-10 JJY 24-Nov-10	S2130A	200	ug/mL	0.250	100.0	0.500	ug/ml

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Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3106	Pest Spike	Acetone JT Baker lot H12E11	26-Aug-10 JJY 29-Jan-11	S2144 200 ug/mL	0.200	50.0	0.800 ug/ml

JJY 8/26/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3107	1242 ICAL 1	Hexane JT Baker lot H47E47	07-Sep-10 JJY 24-Nov-10	PP 3026 10 ug/mL	0.030	10.0	0.03 ug/ml
PP 3108	1242 ICAL 2		07-Sep-10 JJY 24-Nov-10	PP 3026 10 ug/mL	0.050	10.0	0.05 ug/ml
PP 3109	1242 ICAL 3		07-Sep-10 JJY 24-Nov-10	PP 3026 10 ug/mL	0.200	10.0	0.20 ug/ml
PP 3110	1242 ICAL 4		07-Sep-10 JJY 24-Nov-10	PP 3026 10 ug/mL	0.500	10.0	0.50 ug/ml
PP 3111	1242 ICAL 5		07-Sep-10 JJY 24-Nov-10	PP 3026 10 ug/mL	1.000	10.0	1.00 ug/ml
PP 3112	1242 ICAL 6		07-Sep-10 JJY 24-Nov-10	PP 3026 10 ug/mL	1.200	10.0	1.20 ug/ml
PP 3113	1242 ICV		07-Sep-10 JJY 24-Nov-10	PP 3032 10 ug/mL	0.500	10.0	0.50 ug/ml

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3114	1248 ICAL 1	Hexane JT Baker lot H47E47	21-Sep-10 JJY 24-Nov-10	PP 3027 10 ug/mL	0.030	10.0	0.03 ug/ml
PP 3115	1248 ICAL 2		21-Sep-10 JJY 24-Nov-10	PP 3027 10 ug/mL	0.050	10.0	0.05 ug/ml
PP 3116	1248 ICAL 3		21-Sep-10 JJY 24-Nov-10	PP 3027 10 ug/mL	0.200	10.0	0.20 ug/ml
PP 3117	1248 ICAL 4		21-Sep-10 JJY 24-Nov-10	PP 3027 10 ug/mL	0.500	10.0	0.50 ug/ml
PP 3118	1248 ICAL 5		21-Sep-10 JJY 24-Nov-10	PP 3027 10 ug/mL	1.000	10.0	1.00 ug/ml
PP 3119	1248 ICAL 6		21-Sep-10 JJY 24-Nov-10	PP 3027 10 ug/mL	1.200	10.0	1.20 ug/ml
PP 3120	1248 ICV		21-Sep-10 JJY 24-Nov-10	PP 3033 10 ug/mL	0.500	10.0	0.50 ug/ml

JJY 9/29/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3121	Pest/PCB Surrogate	Acetone JT Baker lot H30E21	29-Sep-10 JJY 24-Nov-10	S2130A 200 ug/mL	0.250	100.0	0.500 ug/ml

JJY 9/29/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3122	PCB Spike	Acetone JT Baker lot H30E21	14-Oct-10 JJY 14-Apr-11	S2043A 1000 ug/mL	0.500	50.0	10.00 ug/ml

JJY 10/14/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3123	1232 ICAL 1	Hexane JT Baker lot H51E55	19-Oct-10 JJY 24-Nov-10	PP 3025 10 ug/mL	0.030	10.0	0.03 ug/ml
PP 3124	1232 ICAL 2		19-Oct-10 JJY 24-Nov-10	PP 3025 10 ug/mL	0.050	10.0	0.05 ug/ml
PP 3125	1232 ICAL 3		19-Oct-10 JJY 24-Nov-10	PP 3025 10 ug/mL	0.200	10.0	0.20 ug/ml
PP 3126	1232 ICAL 4		19-Oct-10 JJY 24-Nov-10	PP 3025 10 ug/mL	0.500	10.0	0.50 ug/ml
PP 3127	1232 ICAL 5		19-Oct-10 JJY 24-Nov-10	PP 3025 10 ug/mL	1.000	10.0	1.00 ug/ml
PP 3128	1232 ICAL 6		19-Oct-10 JJY 24-Nov-10	PP 3025 10 ug/mL	1.200	10.0	1.20 ug/ml
PP 3129	1232 ICV		19-Oct-10 JJY 24-Nov-10	PP 3031 10 ug/mL	0.500	10.0	0.50 ug/ml

JJY 10/19/10

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Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3130	Pest MRL	Hexane JT Baker lot H51E55	20-Oct-10 JJY 29-Jan-11	PP 3083 2 ug/mL	0.010	10.0	0.002 ug/ml

JJY 10/20/2010

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3131	Pest/PCB Surrogate	Acetone JT Baker lot H30E21	22-Oct-10 JJY 22-Apr-11	S2257A 200 ug/mL	0.250	100.0	0.500 ug/ml

JJY 10/22/2010

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3132	1262 ICAL 1	Hexane JT Baker lot H51E55	03-Nov-10 JJY 24-Nov-10	PP 3029 10 ug/mL	0.030	10.0	0.03 ug/ml
PP 3133	1262 ICAL 2		03-Nov-10 JJY 24-Nov-10	PP 3029 10 ug/mL	0.050	10.0	0.05 ug/ml
PP 3134	1262 ICAL 3		03-Nov-10 JJY 24-Nov-10	PP 3029 10 ug/mL	0.200	10.0	0.20 ug/ml
PP 3135	1262 ICAL 4		03-Nov-10 JJY 24-Nov-10	PP 3029 10 ug/mL	0.500	10.0	0.50 ug/ml
PP 3136	1262 ICAL 5		03-Nov-10 JJY 24-Nov-10	PP 3029 10 ug/mL	1.000	10.0	1.00 ug/ml
PP 3137	1262 ICAL 6		03-Nov-10 JJY 24-Nov-10	PP 3029 10 ug/mL	1.200	10.0	1.20 ug/ml
PP 3138	1262 ICV		03-Nov-10 JJY 24-Nov-10	PP 3035 10 ug/mL	0.500	10.0	0.50 ug/ml

JJY 11/3/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3139	1221 ICAL 1	Hexane JT Baker lot H51E55	04-Nov-10 JJY 24-Nov-10	PP 3066 10 ug/mL	0.030	10.0	0.03 ug/ml
PP 3140	1221 ICAL 2		04-Nov-10 JJY 24-Nov-10	PP 3066 10 ug/mL	0.050	10.0	0.05 ug/ml
PP 3141	1221 ICAL 3		04-Nov-10 JJY 24-Nov-10	PP 3066 10 ug/mL	0.200	10.0	0.20 ug/ml
PP 3142	1221 ICAL 4		04-Nov-10 JJY 24-Nov-10	PP 3066 10 ug/mL	0.500	10.0	0.50 ug/ml
PP 3143	1221 ICAL 5		04-Nov-10 JJY 24-Nov-10	PP 3066 10 ug/mL	1.000	10.0	1.00 ug/ml
PP 3144	1221 ICAL 6		04-Nov-10 JJY 24-Nov-10	PP 3066 10 ug/mL	1.200	10.0	1.20 ug/ml
PP 3145	1221 ICV		04-Nov-10 JJY 24-Nov-10	PP 3067 10 ug/mL	0.500	10.0	0.50 ug/ml

JJY 11/4/10

Standard Number	Standard Description	Solvent/Lot	Prep Date/Analyst/Exp. Date	STD Parent ID & Concentration	Standard Volume (ml)	Final Volume (ml)	Final Concentration
PP 3146	1016/1260 Stock	Hexane JT Baker lot H51E55	03-Dec-10 JJY 03-Jun-11	S2294 1000 ug/mL	0.100	10.0	10.00 ug/ml
				S2257B 200 ug/mL	0.025	10.0	0.50 ug/ml
PP 3147	1016/1260 2nd Srce		03-Dec-10 JJY 03-Jun-11	S2271A 1000 ug/mL	0.100	10.0	10.00 ug/ml
				S2257B 200 ug/mL	0.025	10.0	0.50 ug/ml
PP 3148	1016/1260 Prime		03-Dec-10 JJY 03-Jun-11	PP 3147 10 ug/mL	1.200	10.0	1.20 ug/ml
PP 3149	PCB CCV		03-Dec-10 JJY 03-Jun-11	PP 3146 10 ug/mL	0.500	10.0	0.50 ug/ml
PP 3150	PCB ICAL 1		03-Dec-10 JJY 03-Jun-11	PP 3146 10 ug/mL	0.030	10.0	0.03 ug/ml
PP 3151	PCB ICAL 2		03-Dec-10 JJY 03-Jun-11	PP 3146 10 ug/mL	0.050	10.0	0.05 ug/ml
PP 3152	PCB ICAL 3		03-Dec-10 JJY 03-Jun-11	PP 3146 10 ug/mL	0.200	10.0	0.20 ug/ml
PP 3153	PCB ICAL 4		03-Dec-10 JJY 03-Jun-11	PP 3146 10 ug/mL	0.500	10.0	0.50 ug/ml
PP 3154	PCB ICAL 5		03-Dec-10 JJY 03-Jun-11	PP 3146 10 ug/mL	1.000	10.0	1.00 ug/ml
PP 3155	PCB ICAL 6		03-Dec-10 JJY 03-Jun-11	PP 3146 10 ug/mL	1.200	10.0	1.20 ug/ml
PP 3156	PCB ICV		03-Dec-10 JJY 03-Jun-11	PP 3147 10 ug/mL	0.500	10.0	0.50 ug/ml

JJY 12/3/10

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METALS
CLP FORMS
DOCUMENTS

CT LABORATORIES
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INORGANIC ANALYSIS DATA SHEET

Sample Description

DAASS-040-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82743
% Solids:	98.2	Lab Sample ID:	877666
Analytical Method:	EPA 6010C	Date Received:	12/03/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72492	Analysis Date/Time	12/16/2010 00:00
Analytical Prep Batch #:	35793	Prep. Date/Time:	12/14/2010 14:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7440-38-2	Arsenic	11.0			0.26	0.26	0.92	0.92
7440-39-3	Barium	133		B	0.016	0.016	0.055	0.055
7440-41-7	Beryllium	1.3			0.0081	0.0081	0.024	0.024
7440-47-3	Chromium	28.8		B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	9.2			0.031	0.031	0.10	0.10
7439-89-6	Iron	19200			0.61	0.61	2.0	2.0
7439-92-1	Lead	45.9			0.081	0.081	0.29	0.29
7439-95-4	Magnesium	4440		B	0.24	0.24	0.81	0.81
7439-96-5	Manganese	1370		B	0.033	0.041	0.10	0.11
7440-02-0	Nickel	19.6			0.037	0.037	0.12	0.12
7440-28-0	Thallium	0.081	U	V	0.081	0.081	0.29	0.29
7440-62-2	Vanadium	18.5		B	0.022	0.022	0.069	0.069
7440-66-6	Zinc	88.1			0.081	0.081	0.24	0.24

CT LABORATORIES
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INORGANIC ANALYSIS DATA SHEET

Sample Description

DAASS-040-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82743
% Solids:	98.2	Lab Sample ID:	877666
Analytical Method:	EPA 7471A	Date Received:	12/03/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72621	Analysis Date/Time	12/21/2010 10:32
Analytical Prep Batch #:	35845	Prep. Date/Time:	12/20/2010 15:45

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.034		0.0024	0.0024	0.0080	0.0080

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DAASS-040-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82743
% Solids:	98.2	Lab Sample ID:	877666
Analytical Method:	EPA 6010C	Date Received:	12/03/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72493	Analysis Date/Time	12/16/2010 17:04
Analytical Prep Batch #:	35793	Prep. Date/Time:	12/14/2010 14:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	914	B	11	11	37	37
7440-23-5	Sodium	123	B	4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DAASS-040-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82743
% Solids:	98.2	Lab Sample ID:	877666
Analytical Method:	EPA 6010C	Date Received:	12/03/2010
Dilution Factor:	5.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72492	Analysis Date/Time	12/21/2010 21:15
Analytical Prep Batch #:	35793	Prep. Date/Time:	12/14/2010 14:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7429-90-5	Aluminum	13400			0.20	0.20	0.61	0.61
7440-36-0	Antimony	0.87	J	V,B	0.41	0.41	1.4	1.4
7440-43-9	Cadmium	0.75			0.031	0.041	0.11	0.11
7440-70-2	Calcium	25800		B	0.31	0.76	2.5	2.5
7440-50-8	Copper	18.1			0.31	0.31	1.0	1.0
7782-49-2	Selenium	2.2			0.36	0.36	2.1	2.1
7440-22-4	Silver	0.087	U	V	0.087	0.087	0.29	0.29

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DAASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82743
% Solids:	98.3	Lab Sample ID:	877664
Analytical Method:	EPA 7471A	Date Received:	12/03/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72621	Analysis Date/Time	12/21/2010 10:21
Analytical Prep Batch #:	35845	Prep. Date/Time:	12/20/2010 15:45

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-97-6	Mercury	0.043	Y	0.0024	0.0024	0.0080	0.0080

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DAASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82743
% Solids:	98.3	Lab Sample ID:	877664
Analytical Method:	EPA 6010C	Date Received:	12/03/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72493	Analysis Date/Time	12/16/2010 16:44
Analytical Prep Batch #:	35793	Prep. Date/Time:	12/14/2010 14:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-09-7	Potassium	796	B	11	11	37	37
7440-23-5	Sodium	108	B	4.1	4.1	13	13

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DAASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82743
% Solids:	98.3	Lab Sample ID:	877664
Analytical Method:	EPA 6010C	Date Received:	12/03/2010
Dilution Factor:	5.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72492	Analysis Date/Time	12/21/2010 20:22
Analytical Prep Batch #:	35793	Prep. Date/Time:	12/14/2010 14:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7429-90-5	Aluminum	10800			0.20	0.20	0.61	0.61
7440-36-0	Antimony	1.3	J	V	0.41	0.41	1.4	1.4
7440-41-7	Beryllium	0.94		Y	0.020	0.020	0.061	0.061
7440-43-9	Cadmium	0.88		Y	0.031	0.041	0.11	0.11
7440-70-2	Calcium	20200			0.31	0.76	2.5	2.5
7440-50-8	Copper	23.4			0.31	0.31	1.0	1.0
7439-95-4	Magnesium	4410			0.61	0.61	2.0	2.0
7782-49-2	Selenium	0.36	U	V	0.36	0.36	2.1	2.1
7440-22-4	Silver	0.086	U	V,Y	0.086	0.086	0.28	0.28
7440-28-0	Thallium	0.20	U	Y,V	0.20	0.20	0.71	0.71

CT LABORATORIES
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INORGANIC ANALYSIS DATA SHEET

Sample Description

DAASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82743
% Solids:	98.3	Lab Sample ID:	877664
Analytical Method:	EPA 6010C	Date Received:	12/03/2010
Dilution Factor:	2.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72492	Analysis Date/Time	12/15/2010 23:06
Analytical Prep Batch #:	35793	Prep. Date/Time:	12/14/2010 14:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7440-38-2	Arsenic	14.4		0.26	0.26	0.92	0.92
7440-39-3	Barium	112	B	0.016	0.016	0.055	0.055
7440-47-3	Chromium	78.8	B	0.039	0.039	0.13	0.13
7440-48-4	Cobalt	9.9		0.031	0.031	0.10	0.10
7439-89-6	Iron	20000	M	0.61	0.61	2.0	2.0
7439-92-1	Lead	58.5	M	0.081	0.081	0.28	0.28
7439-96-5	Manganese	849	M,B	0.033	0.041	0.10	0.11
7440-02-0	Nickel	21.1	M	0.037	0.037	0.12	0.12
7440-62-2	Vanadium	16.6	B	0.022	0.022	0.069	0.069
7440-66-6	Zinc	101	M	0.081	0.081	0.24	0.24

CT LABORATORIES
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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72493 Lab Sample ID: 882906

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	12/16/10	14:48	100000	99200	99	90	110	P
Sodium	12/16/10	14:48	100000	101000	101	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 883617

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/15/10	11:48	12000	11900	99	90	110	P
Antimony	12/15/10	11:48	500.0	516.0	103	90	110	P
Arsenic	12/15/10	11:48	2000	2140	107	90	110	P
Barium	12/15/10	11:48	2000	2110	106	90	110	P
Beryllium	12/15/10	11:48	50.00	52.90	106	90	110	P
Cadmium	12/15/10	11:48	50.00	51.50	103	90	110	P
Calcium	12/15/10	11:48	10000	10500	105	90	110	P
Chromium	12/15/10	11:48	200.0	210.0	105	90	110	P
Cobalt	12/15/10	11:48	500.0	517.0	103	90	110	P
Copper	12/15/10	11:48	250.0	259.0	104	90	110	P
Iron	12/15/10	11:48	5000	5270	105	90	110	P
Lead	12/15/10	11:48	500.0	519.0	104	90	110	P
Magnesium	12/15/10	11:48	10000	10600	106	90	110	P
Manganese	12/15/10	11:48	500.0	524.0	105	90	110	P
Nickel	12/15/10	11:48	500.0	509.0	102	90	110	P
Selenium	12/15/10	11:48	2000	2190	110	90	110	P
Silver	12/15/10	11:48	120.0	110.0	92	90	110	P
Thallium	12/15/10	11:48	2000	2080	104	90	110	P
Vanadium	12/15/10	11:48	500.0	522.0	104	90	110	P
Zinc	12/15/10	11:48	500.0	527.0	105	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 884208

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/21/10	11:22	12000	11700	98	90	110	P
Antimony	12/21/10	11:22	500.0	522.0	104	90	110	P
Arsenic	12/21/10	11:22	2000	2050	102	90	110	P
Barium	12/21/10	11:22	2000	2020	101	90	110	P
Beryllium	12/21/10	11:22	50.00	50.10	100	90	110	P
Cadmium	12/21/10	11:22	50.00	49.90	100	90	110	P
Calcium	12/21/10	11:22	10000	10600	106	90	110	P
Chromium	12/21/10	11:22	200.0	198.0	99	90	110	P
Cobalt	12/21/10	11:22	500.0	505.0	101	90	110	P
Copper	12/21/10	11:22	250.0	257.0	103	90	110	P
Iron	12/21/10	11:22	5000	5430	109	90	110	P
Lead	12/21/10	11:22	500.0	505.0	101	90	110	P
Magnesium	12/21/10	11:22	10000	10300	103	90	110	P
Manganese	12/21/10	11:22	500.0	509.0	102	90	110	P
Nickel	12/21/10	11:22	500.0	488.0	98	90	110	P
Selenium	12/21/10	11:22	2000	2120	106	90	110	P
Silver	12/21/10	11:22	120.0	116.0	97	90	110	P
Thallium	12/21/10	11:22	2000	2190	110	90	110	P
Vanadium	12/21/10	11:22	500.0	511.0	102	90	110	P
Zinc	12/21/10	11:22	500.0	507.0	101	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72621 Lab Sample ID: 883507

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Mercury	12/21/10	09:30	3.00	2.95	98	90	110	CV

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72621 Lab Sample ID: 883509

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Mercury	12/21/10	09:53	3.00	2.94	98	80	120	CV

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72621 Lab Sample ID: 883511

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Mercury	12/21/10	10:15	3.00	2.90	97	80	120	CV

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72621 Lab Sample ID: 883515

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Mercury	12/21/10	10:38	3.00	2.91	97	80	120	CV

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA

SDG No.: 82743

Analytical Run #: 72493

Lab Sample ID: 882915

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	12/16/10	16:24	100000	97700	98	90	110	P
Sodium	12/16/10	16:24	100000	98400	98	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72493 Lab Sample ID: 882918

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	12/16/10	16:54	100000	93400	93	90	110	P
Sodium	12/16/10	16:54	100000	93000	93	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72493 Lab Sample ID: 882921

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	12/16/10	17:23	100000	97300	97	90	110	P
Sodium	12/16/10	17:23	100000	96700	97	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 883628

Calibration Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/15/10	22:07	5000	4980	100	90	110	P
Arsenic	12/15/10	22:07	5000	5150	103	90	110	P
Barium	12/15/10	22:07	5000	5320	106	90	110	P
Beryllium	12/15/10	22:07	500.0	492.0	98	90	110	P
Cadmium	12/15/10	22:07	500.0	505.0	101	90	110	P
Calcium	12/15/10	22:07	5000	5110	102	90	110	P
Chromium	12/15/10	22:07	5000	5210	104	90	110	P
Cobalt	12/15/10	22:07	5000	5300	106	90	110	P
Copper	12/15/10	22:07	5000	5320	106	90	110	P
Iron	12/15/10	22:07	5000	5250	105	90	110	P
Lead	12/15/10	22:07	5000	4990	100	90	110	P
Magnesium	12/15/10	22:07	5000	5370	107	90	110	P
Manganese	12/15/10	22:07	5000	5410	108	90	110	P
Nickel	12/15/10	22:07	5000	5020	100	90	110	P
Selenium	12/15/10	22:07	5000	5110	102	90	110	P
Thallium	12/15/10	22:07	5000	4720	94	90	110	P
Vanadium	12/15/10	22:07	5000	5380	108	90	110	P
Zinc	12/15/10	22:07	5000	5200	104	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 883629

Calibration Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Antimony	12/15/10	22:12	500.0	505.0	101	90	110	P	
Arsenic	12/15/10	22:12	500.0	546.0	109	90	110	P	
Barium	12/15/10	22:12	500.0	539.0	108	90	110	P	
Beryllium	12/15/10	22:12	50.00	55.40	111	90	110	P	FAIL
Cadmium	12/15/10	22:12	50.00	54.70	109	90	110	P	
Chromium	12/15/10	22:12	500.0	536.0	107	90	110	P	
Cobalt	12/15/10	22:12	500.0	537.0	107	90	110	P	
Iron	12/15/10	22:12	500.0	527.0	105	90	110	P	
Lead	12/15/10	22:12	500.0	527.0	105	90	110	P	
Manganese	12/15/10	22:12	500.0	541.0	108	90	110	P	
Nickel	12/15/10	22:12	500.0	532.0	106	90	110	P	
Selenium	12/15/10	22:12	500.0	549.0	110	90	110	P	
Silver	12/15/10	22:12	50.00	43.40	87	90	110	P	FAIL
Thallium	12/15/10	22:12	500.0	508.0	102	90	110	P	
Vanadium	12/15/10	22:12	500.0	543.0	109	90	110	P	
Zinc	12/15/10	22:12	500.0	526.0	105	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 883656

Calibration Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/15/10	23:23	5000	5010	100	90	110	P
Antimony	12/15/10	23:23	5000	4600	92	90	110	P
Arsenic	12/15/10	23:23	5000	5140	103	90	110	P
Barium	12/15/10	23:23	5000	5370	107	90	110	P
Beryllium	12/15/10	23:23	500.0	492.0	98	90	110	P
Cadmium	12/15/10	23:23	500.0	507.0	101	90	110	P
Calcium	12/15/10	23:23	5000	5110	102	90	110	P
Chromium	12/15/10	23:23	5000	5210	104	90	110	P
Cobalt	12/15/10	23:23	5000	5270	105	90	110	P
Copper	12/15/10	23:23	5000	5320	106	90	110	P
Iron	12/15/10	23:23	5000	5280	106	90	110	P
Lead	12/15/10	23:23	5000	4980	100	90	110	P
Magnesium	12/15/10	23:23	5000	5360	107	90	110	P
Manganese	12/15/10	23:23	5000	5390	108	90	110	P
Nickel	12/15/10	23:23	5000	5010	100	90	110	P
Selenium	12/15/10	23:23	5000	5060	101	90	110	P
Thallium	12/15/10	23:23	5000	4720	94	90	110	P
Vanadium	12/15/10	23:23	5000	5360	107	90	110	P
Zinc	12/15/10	23:23	5000	5220	104	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 883657

Calibration Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Antimony	12/15/10	23:28	500.0	497.0	99	90	110	P	
Arsenic	12/15/10	23:28	500.0	530.0	106	90	110	P	
Barium	12/15/10	23:28	500.0	540.0	108	90	110	P	
Beryllium	12/15/10	23:28	50.00	54.90	110	90	110	P	
Cadmium	12/15/10	23:28	50.00	53.90	108	90	110	P	
Chromium	12/15/10	23:28	500.0	529.0	106	90	110	P	
Cobalt	12/15/10	23:28	500.0	521.0	104	90	110	P	
Copper	12/15/10	23:28	500.0	550.0	110	90	110	P	
Iron	12/15/10	23:28	500.0	532.0	106	90	110	P	
Lead	12/15/10	23:28	500.0	519.0	104	90	110	P	
Manganese	12/15/10	23:28	500.0	534.0	107	90	110	P	
Nickel	12/15/10	23:28	500.0	525.0	105	90	110	P	
Selenium	12/15/10	23:28	500.0	546.0	109	90	110	P	
Silver	12/15/10	23:28	500.0	42.80	9	90	110	P	FAIL
Thallium	12/15/10	23:28	500.0	493.0	99	90	110	P	
Vanadium	12/15/10	23:28	500.0	536.0	107	90	110	P	
Zinc	12/15/10	23:28	500.0	520.0	104	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 883661

Calibration Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M	
Aluminum	12/16/10	00:27	500.0	580.0	116	90	110	P	FAIL
Antimony	12/16/10	00:27	500.0	485.0	97	90	110	P	
Arsenic	12/16/10	00:27	500.0	534.0	107	90	110	P	
Barium	12/16/10	00:27	500.0	547.0	109	90	110	P	
Beryllium	12/16/10	00:27	50.00	53.80	108	90	110	P	
Cadmium	12/16/10	00:27	50.00	55.70	111	90	110	P	FAIL
Calcium	12/16/10	00:27	500.0	554.0	111	90	110	P	FAIL
Chromium	12/16/10	00:27	500.0	530.0	106	90	110	P	
Cobalt	12/16/10	00:27	500.0	524.0	105	90	110	P	
Copper	12/16/10	00:27	500.0	575.0	115	90	110	P	FAIL
Iron	12/16/10	00:27	500.0	506.0	101	90	110	P	
Lead	12/16/10	00:27	500.0	535.0	107	90	110	P	
Manganese	12/16/10	00:27	500.0	536.0	107	90	110	P	
Nickel	12/16/10	00:27	500.0	532.0	106	90	110	P	
Selenium	12/16/10	00:27	500.0	539.0	108	90	110	P	
Silver	12/16/10	00:27	500.0	42.20	8	90	110	P	FAIL
Thallium	12/16/10	00:27	500.0	488.0	98	90	110	P	
Vanadium	12/16/10	00:27	500.0	528.0	106	90	110	P	
Zinc	12/16/10	00:27	500.0	538.0	108	90	110	P	

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
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Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 884216

Calibration Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/21/10	19:11	5000	4720	94	90	110	P
Antimony	12/21/10	19:11	5000	4820	96	90	110	P
Arsenic	12/21/10	19:11	5000	4610	92	90	110	P
Barium	12/21/10	19:11	5000	4840	97	90	110	P
Cadmium	12/21/10	19:11	500.0	454.0	91	90	110	P
Calcium	12/21/10	19:11	5000	5010	100	90	110	P
Chromium	12/21/10	19:11	5000	4600	92	90	110	P
Cobalt	12/21/10	19:11	5000	4740	95	90	110	P
Copper	12/21/10	19:11	5000	4900	98	90	110	P
Iron	12/21/10	19:11	5000	5180	104	90	110	P
Lead	12/21/10	19:11	5000	4550	91	90	110	P
Magnesium	12/21/10	19:11	5000	4940	99	90	110	P
Manganese	12/21/10	19:11	5000	4860	97	90	110	P
Nickel	12/21/10	19:11	5000	5040	101	90	110	P
Selenium	12/21/10	19:11	5000	4630	93	90	110	P
Thallium	12/21/10	19:11	5000	4700	94	90	110	P
Vanadium	12/21/10	19:11	5000	4890	98	90	110	P
Zinc	12/21/10	19:11	5000	4610	92	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 884217

Calibration Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/21/10	19:16	500.0	502.0	100	90	110	P
Antimony	12/21/10	19:16	500.0	492.0	98	90	110	P
Arsenic	12/21/10	19:16	500.0	476.0	95	90	110	P
Barium	12/21/10	19:16	500.0	487.0	97	90	110	P
Beryllium	12/21/10	19:16	50.00	48.10	96	90	110	P
Cadmium	12/21/10	19:16	50.00	47.90	96	90	110	P
Calcium	12/21/10	19:16	500.0	503.0	101	90	110	P
Chromium	12/21/10	19:16	500.0	485.0	97	90	110	P
Cobalt	12/21/10	19:16	500.0	478.0	96	90	110	P
Copper	12/21/10	19:16	500.0	507.0	101	90	110	P
Iron	12/21/10	19:16	500.0	457.0	91	90	110	P
Lead	12/21/10	19:16	500.0	467.0	93	90	110	P
Magnesium	12/21/10	19:16	500.0	509.0	102	90	110	P
Manganese	12/21/10	19:16	500.0	486.0	97	90	110	P
Nickel	12/21/10	19:16	500.0	462.0	92	90	110	P
Selenium	12/21/10	19:16	500.0	499.0	100	90	110	P
Silver	12/21/10	19:16	50.00	47.70	95	90	110	P
Thallium	12/21/10	19:16	500.0	503.0	101	90	110	P
Vanadium	12/21/10	19:16	500.0	488.0	98	90	110	P
Zinc	12/21/10	19:16	500.0	465.0	93	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 884218

Calibration Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/21/10	20:27	5000	4860	97	90	110	P
Antimony	12/21/10	20:27	5000	4630	93	90	110	P
Arsenic	12/21/10	20:27	5000	4760	95	90	110	P
Barium	12/21/10	20:27	5000	4890	98	90	110	P
Beryllium	12/21/10	20:27	500.0	464.0	93	90	110	P
Cadmium	12/21/10	20:27	500.0	466.0	93	90	110	P
Calcium	12/21/10	20:27	5000	4910	98	90	110	P
Chromium	12/21/10	20:27	5000	4580	92	90	110	P
Cobalt	12/21/10	20:27	5000	4710	94	90	110	P
Copper	12/21/10	20:27	5000	4900	98	90	110	P
Iron	12/21/10	20:27	5000	5030	101	90	110	P
Lead	12/21/10	20:27	5000	4710	94	90	110	P
Magnesium	12/21/10	20:27	5000	4860	97	90	110	P
Manganese	12/21/10	20:27	5000	4690	94	90	110	P
Nickel	12/21/10	20:27	5000	4870	97	90	110	P
Selenium	12/21/10	20:27	5000	4840	97	90	110	P
Silver	12/21/10	20:27	500.0	452.0	90	90	110	P
Thallium	12/21/10	20:27	5000	4760	95	90	110	P
Vanadium	12/21/10	20:27	5000	4720	94	90	110	P
Zinc	12/21/10	20:27	5000	4650	93	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 884219

Calibration Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/21/10	20:32	500.0	510.0	102	90	110	P
Antimony	12/21/10	20:32	500.0	475.0	95	90	110	P
Arsenic	12/21/10	20:32	500.0	461.0	92	90	110	P
Barium	12/21/10	20:32	500.0	478.0	96	90	110	P
Beryllium	12/21/10	20:32	50.00	48.10	96	90	110	P
Cadmium	12/21/10	20:32	50.00	49.20	98	90	110	P
Calcium	12/21/10	20:32	500.0	508.0	102	90	110	P
Chromium	12/21/10	20:32	500.0	464.0	93	90	110	P
Cobalt	12/21/10	20:32	500.0	478.0	96	90	110	P
Copper	12/21/10	20:32	500.0	509.0	102	90	110	P
Iron	12/21/10	20:32	500.0	477.0	95	90	110	P
Lead	12/21/10	20:32	500.0	483.0	97	90	110	P
Magnesium	12/21/10	20:32	500.0	498.0	100	90	110	P
Manganese	12/21/10	20:32	500.0	482.0	96	90	110	P
Nickel	12/21/10	20:32	500.0	480.0	96	90	110	P
Selenium	12/21/10	20:32	500.0	496.0	99	90	110	P
Silver	12/21/10	20:32	50.00	48.70	97	90	110	P
Thallium	12/21/10	20:32	500.0	508.0	102	90	110	P
Vanadium	12/21/10	20:32	500.0	482.0	96	90	110	P
Zinc	12/21/10	20:32	500.0	484.0	97	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 884221

Calibration Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/21/10	21:26	5000	4790	96	90	110	P
Antimony	12/21/10	21:26	5000	4850	97	90	110	P
Arsenic	12/21/10	21:26	5000	4710	94	90	110	P
Barium	12/21/10	21:26	5000	4860	97	90	110	P
Beryllium	12/21/10	21:26	500.0	457.0	91	90	110	P
Cadmium	12/21/10	21:26	500.0	471.0	94	90	110	P
Calcium	12/21/10	21:26	5000	4990	100	90	110	P
Chromium	12/21/10	21:26	5000	4600	92	90	110	P
Cobalt	12/21/10	21:26	5000	4750	95	90	110	P
Copper	12/21/10	21:26	5000	5010	100	90	110	P
Iron	12/21/10	21:26	5000	5160	103	90	110	P
Lead	12/21/10	21:26	5000	4720	94	90	110	P
Magnesium	12/21/10	21:26	5000	4920	98	90	110	P
Manganese	12/21/10	21:26	5000	4800	96	90	110	P
Nickel	12/21/10	21:26	5000	5110	102	90	110	P
Selenium	12/21/10	21:26	5000	4810	96	90	110	P
Silver	12/21/10	21:26	500.0	450.0	90	90	110	P
Thallium	12/21/10	21:26	5000	4830	97	90	110	P
Vanadium	12/21/10	21:26	5000	4820	96	90	110	P
Zinc	12/21/10	21:26	5000	4730	95	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 884222

Calibration Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/21/10	21:31	500.0	527.0	105	90	110	P
Antimony	12/21/10	21:31	500.0	501.0	100	90	110	P
Arsenic	12/21/10	21:31	500.0	476.0	95	90	110	P
Barium	12/21/10	21:31	500.0	482.0	96	90	110	P
Beryllium	12/21/10	21:31	50.00	48.20	96	90	110	P
Cadmium	12/21/10	21:31	50.00	50.10	100	90	110	P
Calcium	12/21/10	21:31	500.0	507.0	101	90	110	P
Chromium	12/21/10	21:31	500.0	483.0	97	90	110	P
Cobalt	12/21/10	21:31	500.0	495.0	99	90	110	P
Copper	12/21/10	21:31	500.0	525.0	105	90	110	P
Iron	12/21/10	21:31	500.0	462.0	92	90	110	P
Lead	12/21/10	21:31	500.0	485.0	97	90	110	P
Magnesium	12/21/10	21:31	500.0	512.0	102	90	110	P
Manganese	12/21/10	21:31	500.0	487.0	97	90	110	P
Nickel	12/21/10	21:31	500.0	478.0	96	90	110	P
Selenium	12/21/10	21:31	500.0	510.0	102	90	110	P
Silver	12/21/10	21:31	50.00	50.00	100	90	110	P
Thallium	12/21/10	21:31	500.0	516.0	103	90	110	P
Vanadium	12/21/10	21:31	500.0	485.0	97	90	110	P
Zinc	12/21/10	21:31	500.0	487.0	97	90	110	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

MRL

2B

MRL STANDARD CHECK

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

SDG No.: 82743

Analytical Run #: 72493 Lab Sample ID: 882908

ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Potassium	12/16/10	14:53	5000	5240	105	70	130	P
Sodium	12/16/10	14:53	1000	1280	128	70	130	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

MRL

2B

MRL STANDARD CHECK

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 883619

ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/15/10	12:04	400.0	441.0	110	70	130	P
Antimony	12/15/10	12:04	20.00	24.50	122	70	130	P
Arsenic	12/15/10	12:04	10.00	12.60	126	70	130	P
Barium	12/15/10	12:04	10.00	11.20	112	70	130	P
Beryllium	12/15/10	12:04	4.00	4.39	110	70	130	P
Cadmium	12/15/10	12:04	5.00	5.32	106	70	130	P
Calcium	12/15/10	12:04	500.0	534.0	107	70	130	P
Chromium	12/15/10	12:04	10.00	11.80	118	70	130	P
Cobalt	12/15/10	12:04	10.00	10.70	107	70	130	P
Copper	12/15/10	12:04	10.00	11.10	111	70	130	P
Iron	12/15/10	12:04	300.0	325.0	108	70	130	P
Lead	12/15/10	12:04	10.00	9.81	98	70	130	P
Magnesium	12/15/10	12:04	500.0	544.0	109	70	130	P
Manganese	12/15/10	12:04	10.00	11.40	114	70	130	P
Nickel	12/15/10	12:04	10.00	11.10	111	70	130	P
Selenium	12/15/10	12:04	10.00	7.99	80	70	130	P
Silver	12/15/10	12:04	20.00	17.10	86	70	130	P
Thallium	12/15/10	12:04	20.00	20.20	101	70	130	P
Vanadium	12/15/10	12:04	10.00	11.60	116	70	130	P
Zinc	12/15/10	12:04	10.00	11.60	116	70	130	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

MRL

2B

MRL STANDARD CHECK

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 884210

ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/21/10	11:38	400.0	397.0	99	70	130	P
Antimony	12/21/10	11:38	20.00	20.40	102	70	130	P
Arsenic	12/21/10	11:38	10.00	6.95	70	70	130	P
Barium	12/21/10	11:38	10.00	9.84	98	70	130	P
Beryllium	12/21/10	11:38	4.00	3.91	98	70	130	P
Cadmium	12/21/10	11:38	5.00	4.86	97	70	130	P
Calcium	12/21/10	11:38	500.0	472.0	94	70	130	P
Chromium	12/21/10	11:38	10.00	10.40	104	70	130	P
Cobalt	12/21/10	11:38	10.00	9.51	95	70	130	P
Copper	12/21/10	11:38	10.00	9.63	96	70	130	P
Iron	12/21/10	11:38	300.0	286.0	95	70	130	P
Lead	12/21/10	11:38	10.00	8.09	81	70	130	P
Magnesium	12/21/10	11:38	500.0	496.0	99	70	130	P
Manganese	12/21/10	11:38	10.00	8.42	84	70	130	P
Nickel	12/21/10	11:38	10.00	10.50	105	70	130	P
Selenium	12/21/10	11:38	10.00	13.00	130	70	130	P
Silver	12/21/10	11:38	20.00	20.50	102	70	130	P
Thallium	12/21/10	11:38	20.00	18.50	92	70	130	P
Vanadium	12/21/10	11:38	10.00	10.20	102	70	130	P
Zinc	12/21/10	11:38	10.00	8.91	89	70	130	P

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

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

SDG No.: 82743

Analytical Run #: 72493 Lab Sample ID: 882907

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	12/16/2010 14:50	156.0			400	P
Sodium	12/16/2010 14:50	133.0			150	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 883618

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	12/15/2010 11:54	-5.72			1.5	P	
Antimony	12/15/2010 11:54	6.48			3.0	P	FAIL
Arsenic	12/15/2010 11:54	-2.81			5.0	P	
Barium	12/15/2010 11:54	0.139			0.3	P	
Beryllium	12/15/2010 11:54	-0.00100			0.15	P	
Cadmium	12/15/2010 11:54	-0.00900			0.3	P	
Calcium	12/15/2010 11:54	-11.2			6.0	P	
Chromium	12/15/2010 11:54	-1.47			0.8	P	
Cobalt	12/15/2010 11:54	-0.288			0.6	P	
Copper	12/15/2010 11:54	-0.319			2.4	P	
Iron	12/15/2010 11:54	-5.53			12	P	
Lead	12/15/2010 11:54	0.235			1.7	P	
Magnesium	12/15/2010 11:54	-3.47			5.0	P	
Manganese	12/15/2010 11:54	-0.346			0.6	P	
Nickel	12/15/2010 11:54	0.309			0.7	P	
Selenium	12/15/2010 11:54	-2.91			2.6	P	
Silver	12/15/2010 11:54	0.225			0.7	P	
Thallium	12/15/2010 11:54	0.351			1.7	P	
Vanadium	12/15/2010 11:54	1.46			0.4	P	FAIL
Zinc	12/15/2010 11:54	-0.740			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 884209

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	12/21/2010 11:33	5.24			1.5	P	FAIL
Antimony	12/21/2010 11:33	-2.84			3.0	P	
Arsenic	12/21/2010 11:33	-9.18			5.0	P	
Barium	12/21/2010 11:33	0.198			0.3	P	
Beryllium	12/21/2010 11:33	-0.0430			0.15	P	
Cadmium	12/21/2010 11:33	-0.135			0.3	P	
Calcium	12/21/2010 11:33	28.50			6.0	P	FAIL
Chromium	12/21/2010 11:33	1.88			0.8	P	FAIL
Cobalt	12/21/2010 11:33	-0.622			0.6	P	
Copper	12/21/2010 11:33	-0.732			2.4	P	
Iron	12/21/2010 11:33	27.20			12	P	FAIL
Lead	12/21/2010 11:33	-2.25			1.7	P	
Magnesium	12/21/2010 11:33	30.80			5.0	P	FAIL
Manganese	12/21/2010 11:33	-1.41			0.6	P	
Nickel	12/21/2010 11:33	0.00500			0.7	P	
Selenium	12/21/2010 11:33	-4.06			2.6	P	
Silver	12/21/2010 11:33	-0.700			0.7	P	
Thallium	12/21/2010 11:33	-2.19			1.7	P	
Vanadium	12/21/2010 11:33	0.0980			0.4	P	
Zinc	12/21/2010 11:33	-1.48			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

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

SDG No.: 82743

Analytical Run #: 72621 Lab Sample ID: 883508

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	12/21/2010 09:32	0	U	0.06	0.06	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

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

SDG No.: 82743

Analytical Run #: 72493 Lab Sample ID: 882916

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	12/16/2010 16:26	220.0			400	P
Sodium	12/16/2010 16:26	117.0			150	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

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

SDG No.: 82743

Analytical Run #: 72493 Lab Sample ID: 882919

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Potassium	12/16/2010 16:56	295.0			0.4	P	FAIL
Sodium	12/16/2010 16:56	127.0			0.15	P	FAIL

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

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

SDG No.: 82743

Analytical Run #: 72493 Lab Sample ID: 882922

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Potassium	12/16/2010 17:26	155.0			0.4	P	FAIL
Sodium	12/16/2010 17:26	129.0			0.15	P	FAIL

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 883630

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	12/15/2010 22:23	0			1.5	P	
Antimony	12/15/2010 22:23	2.43			3.0	P	
Arsenic	12/15/2010 22:23	1.98			5.0	P	
Barium	12/15/2010 22:23	0.738			0.3	P	FAIL
Beryllium	12/15/2010 22:23	0.0530			0.15	P	
Cadmium	12/15/2010 22:23	0.164			0.3	P	
Calcium	12/15/2010 22:23	11.10			6.0	P	FAIL
Chromium	12/15/2010 22:23	0			0.8	P	
Cobalt	12/15/2010 22:23	0.483			0.6	P	
Copper	12/15/2010 22:23	0.237			2.4	P	
Iron	12/15/2010 22:23	0			12	P	
Lead	12/15/2010 22:23	0.0130			1.7	P	
Magnesium	12/15/2010 22:23	4.81			5.0	P	
Manganese	12/15/2010 22:23	0.603			0.6	P	FAIL
Nickel	12/15/2010 22:23	0.686			0.7	P	
Selenium	12/15/2010 22:23	0			2.6	P	
Silver	12/15/2010 22:23	0			0.7	P	
Thallium	12/15/2010 22:23	2.25			1.7	P	FAIL
Vanadium	12/15/2010 22:23	0			0.4	P	
Zinc	12/15/2010 22:23	0			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

3-2

CONTINUING CALIBRATION BLANKS

CCB

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 883658

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	12/15/2010 23:38	0.247			1.5	P	
Antimony	12/15/2010 23:38	3.53			3.0	P	FAIL
Arsenic	12/15/2010 23:38	0.186			5.0	P	
Barium	12/15/2010 23:38	1.26			0.3	P	FAIL
Beryllium	12/15/2010 23:38	0.0910			0.15	P	
Cadmium	12/15/2010 23:38	0.151			0.3	P	
Calcium	12/15/2010 23:38	12.80			6.0	P	FAIL
Chromium	12/15/2010 23:38	2.34			0.8	P	FAIL
Cobalt	12/15/2010 23:38	0.510			0.6	P	
Copper	12/15/2010 23:38	-0.0810			2.4	P	
Iron	12/15/2010 23:38	0.679			12	P	
Lead	12/15/2010 23:38	0.383			1.7	P	
Magnesium	12/15/2010 23:38	5.47			5.0	P	FAIL
Manganese	12/15/2010 23:38	1.01			0.6	P	FAIL
Nickel	12/15/2010 23:38	0.537			0.7	P	
Selenium	12/15/2010 23:38	3.49			2.6	P	FAIL
Silver	12/15/2010 23:38	-0.275			0.7	P	
Thallium	12/15/2010 23:38	-0.882			1.7	P	
Vanadium	12/15/2010 23:38	1.19			0.4	P	FAIL
Zinc	12/15/2010 23:38	-0.317			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 883662

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	12/16/2010 00:37	-2.76			1.5	P	
Antimony	12/16/2010 00:37	0.0190			3.0	P	
Arsenic	12/16/2010 00:37	-1.33			5.0	P	
Barium	12/16/2010 00:37	0.612			0.3	P	FAIL
Beryllium	12/16/2010 00:37	0.00800			0.15	P	
Cadmium	12/16/2010 00:37	-0.0470			0.3	P	
Calcium	12/16/2010 00:37	-3.22			6.0	P	
Chromium	12/16/2010 00:37	1.72			0.8	P	FAIL
Cobalt	12/16/2010 00:37	-0.112			0.6	P	
Copper	12/16/2010 00:37	-0.968			2.4	P	
Iron	12/16/2010 00:37	-5.78			12	P	
Lead	12/16/2010 00:37	-0.311			1.7	P	
Magnesium	12/16/2010 00:37	0.863			5.0	P	
Manganese	12/16/2010 00:37	-0.0120			0.6	P	
Nickel	12/16/2010 00:37	0.140			0.7	P	
Selenium	12/16/2010 00:37	2.46			2.6	P	
Silver	12/16/2010 00:37	0.157			0.7	P	
Thallium	12/16/2010 00:37	5.30			1.7	P	FAIL
Vanadium	12/16/2010 00:37	-1.77			0.4	P	
Zinc	12/16/2010 00:37	-0.231			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 884215

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Aluminum	12/21/2010 19:21	0			1.5	P
Antimony	12/21/2010 19:21	1.33			3.0	P
Arsenic	12/21/2010 19:21	0			5.0	P
Beryllium	12/21/2010 19:21	0.0270			0.15	P
Cadmium	12/21/2010 19:21	0			0.3	P
Calcium	12/21/2010 19:21	2.07			6.0	P
Chromium	12/21/2010 19:21	0.777			0.8	P
Cobalt	12/21/2010 19:21	0.344			0.6	P
Copper	12/21/2010 19:21	0			2.4	P
Iron	12/21/2010 19:21	0			12	P
Lead	12/21/2010 19:21	0			1.7	P
Magnesium	12/21/2010 19:21	1.35			5.0	P
Manganese	12/21/2010 19:21	0			0.6	P
Nickel	12/21/2010 19:21	0.563			0.7	P
Selenium	12/21/2010 19:21	1.10			2.6	P
Silver	12/21/2010 19:21	0.498			0.7	P
Thallium	12/21/2010 19:21	1.60			1.7	P
Zinc	12/21/2010 19:21	0			1.4	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 884220

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	12/21/2010 20:43	0			4.5	P	
Antimony	12/21/2010 20:43	2.04			3.0	P	
Arsenic	12/21/2010 20:43	0			15	P	
Barium	12/21/2010 20:43	1.07			0.9	P	FAIL
Beryllium	12/21/2010 20:43	0.0400			0.45	P	
Cadmium	12/21/2010 20:43	0			0.3	P	
Calcium	12/21/2010 20:43	3.26			6.0	P	
Chromium	12/21/2010 20:43	0			0.8	P	
Cobalt	12/21/2010 20:43	0.478			0.6	P	
Copper	12/21/2010 20:43	0			2.4	P	
Iron	12/21/2010 20:43	0			12	P	
Lead	12/21/2010 20:43	0			1.7	P	
Magnesium	12/21/2010 20:43	1.93			5.0	P	
Manganese	12/21/2010 20:43	0			0.6	P	
Nickel	12/21/2010 20:43	0.855			0.7	P	FAIL
Selenium	12/21/2010 20:43	0			2.6	P	
Silver	12/21/2010 20:43	0.170			2.1	P	
Thallium	12/21/2010 20:43	0.321			1.7	P	
Vanadium	12/21/2010 20:43	0			0.4	P	
Zinc	12/21/2010 20:43	0			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 884223

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	12/21/2010 21:41	-2.26			1.5	P	
Antimony	12/21/2010 21:41	-1.33			3.0	P	
Arsenic	12/21/2010 21:41	-1.83			5.0	P	
Barium	12/21/2010 21:41	0.882			0.3	P	FAIL
Beryllium	12/21/2010 21:41	0.177			0.15	P	FAIL
Cadmium	12/21/2010 21:41	0.0620			0.3	P	
Calcium	12/21/2010 21:41	7.13			6.0	P	FAIL
Chromium	12/21/2010 21:41	1.95			0.8	P	FAIL
Cobalt	12/21/2010 21:41	0.134			0.6	P	
Copper	12/21/2010 21:41	-0.268			2.4	P	
Iron	12/21/2010 21:41	-6.34			12	P	
Lead	12/21/2010 21:41	-1.81			1.7	P	
Magnesium	12/21/2010 21:41	3.75			5.0	P	
Manganese	12/21/2010 21:41	-0.534			0.6	P	
Nickel	12/21/2010 21:41	1.12			0.7	P	FAIL
Selenium	12/21/2010 21:41	-2.52			2.6	P	
Silver	12/21/2010 21:41	2.22			0.7	P	FAIL
Thallium	12/21/2010 21:41	-1.65			1.7	P	
Zinc	12/21/2010 21:41	-2.10			1.4	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

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

SDG No.: 82743

Analytical Run #: 72621 Lab Sample ID: 883510

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	12/21/2010 09:55	0	U	0.06	0.06	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

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

SDG No.: 82743

Analytical Run #: 72621 Lab Sample ID: 883512

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	12/21/2010 10:17	0	U	0.06	0.06	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

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

SDG No.: 82743

Analytical Run #: 72621 Lab Sample ID: 883516

Analytical Prep Batch # 0 Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	12/21/2010 10:39	0	U	0.06	0.06	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

MB

3-3

METHOD BLANKS

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 881107

Analytical Prep Batch # 35793 Preparation Date/Time: 12/14/2010 14:00

Concentration Units: mg/kg

Analysis Type: ReRun Re-Analysis #1

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Silver	12/21/2010 20:16	0.028		0.017	0.028	P	FAIL

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

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

SDG No.: 82743

Analytical Run #: 72492 Lab Sample ID: 881107

Analytical Prep Batch # 35793 Preparation Date/Time: 12/14/2010 14:00

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M	
Aluminum	12/15/2010 23:01	0.46		0.04	0.06	P	FAIL
Antimony	12/15/2010 23:01	0.086		0.08	0.135	P	FAIL
Arsenic	12/15/2010 23:01	-0.019	U	0.13	0.225	P	
Barium	12/15/2010 23:01	0.029		0.008	0.0135	P	FAIL
Beryllium	12/15/2010 23:01	-0.00078	U	0.004	0.060	P	
Cadmium	12/15/2010 23:01	-0.000075	U	0.006	0.0105	P	
Calcium	12/15/2010 23:01	1.6		0.15	0.25	P	FAIL
Chromium	12/15/2010 23:01	0.060		0.019	0.0315	P	FAIL
Cobalt	12/15/2010 23:01	-0.0061	U	0.015	0.0245	P	
Copper	12/15/2010 23:01	-0.025	U	0.06	0.10	P	
Iron	12/15/2010 23:01	0.86		0.3	0.5	P	FAIL
Lead	12/15/2010 23:01	0.0023	U	0.04	0.07	P	
Magnesium	12/15/2010 23:01	0.44		0.12	0.20	P	FAIL
Manganese	12/15/2010 23:01	0.051		0.016	0.025	P	FAIL
Nickel	12/15/2010 23:01	-0.0049	U	0.018	0.0305	P	
Selenium	12/15/2010 23:01	0.043	U	0.07	0.21	P	
Thallium	12/15/2010 23:01	-0.042	U	0.04	0.07	P	
Vanadium	12/15/2010 23:01	0.040		0.011	0.017	P	FAIL
Zinc	12/15/2010 23:01	0.0090	U	0.04	0.06	P	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

MB

3-3

METHOD BLANKS

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

SDG No.: 82743

Analytical Run #: 72493 Lab Sample ID: 881107

Analytical Prep Batch # 35793 Preparation Date/Time: 12/14/2010 14:00

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	12/16/2010 16:41	4.9	U	11	18	P
Sodium	12/16/2010 16:41	3.3	U	4	6.5	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

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

SDG No.: 82743

Analytical Run #: 72493 Lab Sample ID: 881107

Analytical Prep Batch # 35793 Preparation Date/Time: 12/14/2010 14:00

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Potassium	12/16/2010 16:41	4.9	U	11	18	P
Sodium	12/16/2010 16:41	3.3	U	4	6.5	P

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

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

SDG No.: 82743

Analytical Run #: 72621 Lab Sample ID: 882747

Analytical Prep Batch # 35845 Preparation Date/Time: 12/20/2010 15:45

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Mercury	12/21/2010 10:19	0	U	0.0024	0.00395	CV

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82743
ICS Source: SPEX

Analytical Run #: 72493
Lab Sample ID: 882909
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/16/2010 14:55	500000	504000	101	80	120	P
Calcium	12/16/2010 14:55	500000	506000	101	80	120	P
Iron	12/16/2010 14:55	500000	499000	100	80	120	P
Magnesium	12/16/2010 14:55	500000	505000	101	80	120	P
Potassium	12/16/2010 14:55	0	0		-275	275	P
Sodium	12/16/2010 14:55	0	0		-100	100	P

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82743
ICS Source: SPEX

Analytical Run #: 72492
Lab Sample ID: 883620
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/15/2010 12:09	500000	549000	110	80	120	P
Antimony	12/15/2010 12:09	0	0		-3.2	3.2	P
Arsenic	12/15/2010 12:09	0	0.00300		-5.2	5.2	P
Barium	12/15/2010 12:09	0	0		-0.32	0.32	P
Beryllium	12/15/2010 12:09	0	0.0330		-0.16	0.16	P
Cadmium	12/15/2010 12:09	0	0.0140		-0.24	0.24	P
Calcium	12/15/2010 12:09	500000	596000	119	80	120	P
Chromium	12/15/2010 12:09	0	0		-0.76	0.76	P
Cobalt	12/15/2010 12:09	0	0.108		-0.6	0.6	P
Copper	12/15/2010 12:09	0	0		-2.4	2.4	P
Iron	12/15/2010 12:09	500000	531000	106	80	120	P
Lead	12/15/2010 12:09	0	0.122		-1.6	1.6	P
Magnesium	12/15/2010 12:09	500000	552000	110	80	120	P
Manganese	12/15/2010 12:09	0	0.100		-1.6	1.6	P
Nickel	12/15/2010 12:09	0	0.436		-0.72	0.72	P
Selenium	12/15/2010 12:09	0	-0.00100		-2.8	2.8	P
Silver	12/15/2010 12:09	0	0		-0.68	0.68	P
Thallium	12/15/2010 12:09	0	0.0820		-1.6	1.6	P
Vanadium	12/15/2010 12:09	0	0.163		-0.44	0.44	P
Zinc	12/15/2010 12:09	0	0		-1.6	1.6	P

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
ICP ID Number:	TJA 6000	SDG No.:	82743
ICS Source:	SPEX		

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82743
ICS Source: SPEX

Analytical Run #: 72492
Lab Sample ID: 884211
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/21/2010 11:44	500000	522000	104	80	120	P
Antimony	12/21/2010 11:44	0	0		-3.2	3.2	P
Arsenic	12/21/2010 11:44	0	-0.0480		-5.2	5.2	P
Barium	12/21/2010 11:44	0	0		-0.32	0.32	P
Beryllium	12/21/2010 11:44	0	0		-0.16	0.16	P
Cadmium	12/21/2010 11:44	0	0.00200		-0.24	0.24	P
Calcium	12/21/2010 11:44	500000	556000	111	80	120	P
Chromium	12/21/2010 11:44	0	0		-0.76	0.76	P
Cobalt	12/21/2010 11:44	0	0.0810		-0.6	0.6	P
Copper	12/21/2010 11:44	0	0		-2.4	2.4	P
Iron	12/21/2010 11:44	500000	500000	100	80	120	P
Lead	12/21/2010 11:44	0	0.0970		-1.6	1.6	P
Magnesium	12/21/2010 11:44	500000	511000	102	80	120	P
Manganese	12/21/2010 11:44	0	0		-1.6	1.6	P
Nickel	12/21/2010 11:44	0	0.0320		-0.72	0.72	P
Selenium	12/21/2010 11:44	0	0.0710		-2.8	2.8	P
Silver	12/21/2010 11:44	0	0		-0.68	0.68	P
Thallium	12/21/2010 11:44	0	0		-1.6	1.6	P
Vanadium	12/21/2010 11:44	0	0		-0.44	0.44	P
Zinc	12/21/2010 11:44	0	-0.00100		-1.6	1.6	P

CT LABORATORIES
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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
ICP ID Number:	TJA 6000	SDG No.:	82743
ICS Source:	SPEX		

CT LABORATORIES
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Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82743
ICS Source: SPEX, Ultra

Analytical Run #: 72493
Lab Sample ID: 882910
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/16/2010 14:58	500000	402000	80	80	120	P
Calcium	12/16/2010 14:58	500000	419000	84	80	120	P
Iron	12/16/2010 14:58	500000	419000	84	80	120	P
Magnesium	12/16/2010 14:58	500000	435000	87	80	120	P
Potassium	12/16/2010 14:58	100000	91500	92	80	120	P
Sodium	12/16/2010 14:58	100000	94100	94	80	120	P

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82743
ICS Source: SPEX, Ultra

Analytical Run #: 72492
Lab Sample ID: 883621
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/15/2010 12:15	500000	557000	111	80	120	P
Antimony	12/15/2010 12:15	500.0	549.0	110	80	120	P
Arsenic	12/15/2010 12:15	500.0	593.0	119	80	120	P
Barium	12/15/2010 12:15	500.0	599.0	120	80	120	P
Beryllium	12/15/2010 12:15	500.0	535.0	107	80	120	P
Cadmium	12/15/2010 12:15	500.0	555.0	111	80	120	P
Calcium	12/15/2010 12:15	500000	596000	119	80	120	P
Chromium	12/15/2010 12:15	500.0	511.0	102	80	120	P
Cobalt	12/15/2010 12:15	500.0	498.0	100	80	120	P
Copper	12/15/2010 12:15	500.0	541.0	108	80	120	P
Iron	12/15/2010 12:15	500000	536000	107	80	120	P
Lead	12/15/2010 12:15	500.0	448.0	90	80	120	P
Magnesium	12/15/2010 12:15	500000	547000	109	80	120	P
Manganese	12/15/2010 12:15	500.0	599.0	120	80	120	P
Nickel	12/15/2010 12:15	500.0	485.0	97	80	120	P
Selenium	12/15/2010 12:15	500.0	555.0	111	80	120	P
Silver	12/15/2010 12:15	500.0	558.0	112	80	120	P
Thallium	12/15/2010 12:15	500.0	440.0	88	80	120	P
Vanadium	12/15/2010 12:15	500.0	567.0	113	80	120	P
Zinc	12/15/2010 12:15	500.0	567.0	113	80	120	P

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No:

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ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
ICP ID Number:	TJA 6000	SDG No.:	82743
ICS Source:	SPEX, Ultra		

CT LABORATORIES
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Sample No:

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ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name: CT Laboratories
Contract: USACE - LOUISVILLE-RAVENNA
ICP ID Number: TJA 6000
SDG No.: 82743
ICS Source: SPEX, Ultra

Analytical Run #: 72492
Lab Sample ID: 884212
ICP MRL Standard Source: Ultra

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)	M
Aluminum	12/21/2010 11:49	500000	527000	105	80	120	P
Antimony	12/21/2010 11:49	500.0	508.0	102	80	120	P
Arsenic	12/21/2010 11:49	500.0	564.0	113	80	120	P
Barium	12/21/2010 11:49	500.0	527.0	105	80	120	P
Beryllium	12/21/2010 11:49	500.0	484.0	97	80	120	P
Cadmium	12/21/2010 11:49	500.0	505.0	101	80	120	P
Calcium	12/21/2010 11:49	500000	565000	113	80	120	P
Chromium	12/21/2010 11:49	500.0	406.0	81	80	120	P
Cobalt	12/21/2010 11:49	500.0	459.0	92	80	120	P
Copper	12/21/2010 11:49	500.0	489.0	98	80	120	P
Iron	12/21/2010 11:49	500000	510000	102	80	120	P
Lead	12/21/2010 11:49	500.0	443.0	89	80	120	P
Magnesium	12/21/2010 11:49	500000	526000	105	80	120	P
Manganese	12/21/2010 11:49	500.0	548.0	110	80	120	P
Nickel	12/21/2010 11:49	500.0	442.0	88	80	120	P
Selenium	12/21/2010 11:49	500.0	501.0	100	80	120	P
Silver	12/21/2010 11:49	500.0	534.0	107	80	120	P
Thallium	12/21/2010 11:49	500.0	435.0	87	80	120	P
Vanadium	12/21/2010 11:49	500.0	509.0	102	80	120	P
Zinc	12/21/2010 11:49	500.0	514.0	103	80	120	P

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Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
ICP ID Number:	TJA 6000	SDG No.:	82743
ICS Source:	SPEX, Ultra		

CT LABORATORIES
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5A

SPIKE SAMPLE RECOVERY

Sample Description

DAASS-041-0001-SO

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

Matrix: SOLID SDG No.: 82743

% Solids for Sample: 98.3 Concentration Units: mg/kg

Analytical Run #: 72492 Sample No 881105 Parent Sample No.: 877664

Analytical Prep Batch # 35793 Analytical Preparation Date/Time: 12/14/2010 14:00

Analysis Type *Initial Analysis* Analysis Date: ----- 12/15/2010 Analysis Time: -------- 23:43

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Arsenic	80-120	104		14.4		102	88		P	
Barium	80-120	216		112		102	102		P	
Chromium	80-120	76.8		78.8		10.2	-20		P	*FAIL*
Cobalt	80-120	26.8		9.9		25.4	67		P	*FAIL*
Iron	80-120	22900		20000		5140	56		P	*FAIL*
Lead	80-120	65.1		58.5		25.4	26		P	*FAIL*
Manganese	80-120	1270		849		534	79		P	*FAIL*
Nickel	80-120	36.7		21.1		25.4	61		P	*FAIL*
Vanadium	80-120	35.9		16.6		25.4	76		P	*FAIL*
Zinc	80-120	120		101		25.4	75		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

Sample Description

DAASS-041-0001-SO

SPIKE SAMPLE RECOVERY

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

Matrix: SOLID SDG No.: 82743

% Solids for Sample: 98.3 Concentration Units: mg/kg

Analytical Run #: 72492 Sample No 881105 Parent Sample No.: 877664

Analytical Prep Batch # 35793 Analytical Preparation Date/Time: 12/14/2010 14:00

ReRun *Re-Analysis #1* Analysis Date: ----- 12/21/2010 Analysis Time: -------- 20:59

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Silver	75-120	2.3		0	U	2.5	92		P	

BDL = analyte concentration was below detection limit

Analytical Run #: 72492 Sample No 881105 Parent Sample No.: 877664

Analytical Prep Batch # 35793 Analytical Preparation Date/Time: 12/14/2010 14:00

ReRun *Re-Analysis #2* Analysis Date: ----- 12/21/2010 Analysis Time: -------- 20:59

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Antimony	80-120	3.0		1.3	J	25.4	7		P	*FAIL*
Selenium	80-120	99.2		0	U	102	97		P	
Thallium	80-120	79.0		0	U	102	77		P	*FAIL*

BDL = analyte concentration was below detection limit

Analytical Run #: 72492 Sample No 881105 Parent Sample No.: 877664

Analytical Prep Batch # 35793 Analytical Preparation Date/Time: 12/14/2010 14:00

ReRun *Re-Analysis #3* Analysis Date: ----- 12/21/2010 Analysis Time: -------- 20:59

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Beryllium	80-120	3.6		0.94		2.5	106		P	

BDL = analyte concentration was below detection limit

Analytical Run #: 72492 Sample No 881105 Parent Sample No.: 877664

Analytical Prep Batch # 35793 Analytical Preparation Date/Time: 12/14/2010 14:00

ReRun *Re-Analysis #4* Analysis Date: ----- 12/21/2010 Analysis Time: -------- 20:59

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5A

SPIKE SAMPLE RECOVERY

Sample Description

DAASS-041-0001-SO

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

Matrix: SOLID SDG No.: 82743

% Solids for Sample: 98.3 Concentration Units: mg/kg

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Aluminum	80-120	17800		10800		5190	135		P	*FAIL*
Cadmium	80-120	2.7		0.88		2.5	73		P	*FAIL*
Calcium	80-120	27500		20200		5090	143		P	*FAIL*
Copper	80-120	36.5		23.4		12.7	103		P	

BDL = analyte concentration was below detection limit

Analytical Run #: 72492 Sample No 881105 Parent Sample No.: 877664

Analytical Prep Batch # 35793 Analytical Preparation Date/Time: 12/14/2010 14:00

ReRun *Re-Analysis #5* Analysis Date: ----- 12/21/2010 Analysis Time: -------- 20:59

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Magnesium	80-120	7590		4410		2540	125		P	*FAIL*

BDL = analyte concentration was below detection limit

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5A

SPIKE SAMPLE RECOVERY

Sample Description

DAASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82743
% Solids for Sample:	98.3	Concentration Units:	mg/kg
Analytical Run #:	72493	Sample No	881105
Parent Sample No.:	877664		
Analytical Prep Batch #	35793	Analytical Preparation Date/Time:	12/14/2010 14:00

Analysis Type	*Initial Analysis*	Analysis Date: -----	12/16/2010	Analysis Time: --------	16:51

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Potassium	80-120	2620		796		2540	72		P	*FAIL*
Sodium	80-120	1920		108		2540	71		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
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5A

SPIKE SAMPLE RECOVERY

Sample Description

DAASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82743
% Solids for Sample:	98.3	Concentration Units:	mg/kg
Analytical Run #:	72621	Sample No	882750
Parent Sample No.:	877664		
Analytical Prep Batch #	35845	Analytical Preparation Date/Time:	12/20/2010 15:45
Analysis Type	*Initial Analysis*	Analysis Date: -----	12/21/2010
Analysis Time: --------	10:26		

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Mercury	80-120	0.11		0.043		0.088	76		CV	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
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5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

DAASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82743
% Solids for Sample:	98.3	Concentration Units:	mg/L

Analytical Run #: 72493 Sample No 882920 Parent Sample No.: 877664

Analytical Prep Batch # 0 Analytical Preparation Date/Time:

Analysis Type *Initial Analysis* Analysis Date: ----- 12/16/2010 Analysis Time: -------- 17:01

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Potassium	75-125	110.		31.3	J	100	79		P
Sodium	75-125	79.3		4.24	J	100	75		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
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5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

DAASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82743
% Solids for Sample:	98.3	Concentration Units:	ug/L

Analytical Run #: 72492 Sample No 883659 Parent Sample No.: 877664

Analytical Prep Batch # 0 Analytical Preparation Date/Time:

Analysis Type *Initial Analysis* Analysis Date: ----- 12/15/2010 Analysis Time: -------- 23:54

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Arsenic	75-125	2020.		284		2000	87		P	
Barium	75-125	6080.		2210		4000	97		P	
Chromium	75-125	3160.		1550		2000	80		P	
Cobalt	75-125	1570.		194		2000	69		P	*FAIL*
Iron	75-125	524000.		393000		102000	128		P	*FAIL*
Lead	75-125	2510.		1150		2000	68		P	*FAIL*
Manganese	75-125	17500.		16700		2000	40		P	*FAIL*
Nickel	75-125	1830.		415		2000	71		P	*FAIL*
Vanadium	75-125	2140.		326		2000	91		P	
Zinc	75-125	3310.		1990		2000	66		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
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5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

DAASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82743
% Solids for Sample:	98.3	Concentration Units:	ug/L
Analytical Run #:	72492	Sample No	884804
Parent Sample No.:	877664		
Analytical Prep Batch #		Analytical Preparation Date/Time:	

Analysis Type *Initial Analysis* Analysis Date: ----- 12/21/2010 Analysis Time: -------- 21:10

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Aluminum	75-125	203000		84800		102000	116		P
Antimony	75-125	1830		10.2		2000	91		P
Beryllium	75-125	2040		7.43		2000	102		P
Cadmium	75-125	1880		6.94		2000	94		P
Calcium	75-125	394000		159000		202000	116		P
Copper	75-125	2030		184		2000	92		P
Magnesium	75-125	140000		34700		102000	103		P
Selenium	75-125	1950		0	U	2000	98		P
Silver	75-125	501		0	U	500	100		P
Thallium	75-125	1570		0	U	2000	78		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
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5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description

DAASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82743
% Solids for Sample:	98.3	Concentration Units:	mg/kg

Analytical Run #: 72621 Sample No 883514 Parent Sample No.: 877664

Analytical Prep Batch # 0 Analytical Preparation Date/Time:

Analysis Type *Initial Analysis* Analysis Date: ----- 12/21/2010 Analysis Time: -------- 10:30

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Mercury	80-120	2.65		0.95		2	85		CV

BDL = analyte concentration was below detection limit

CT LABORATORIES
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5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

DAASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82743
% Solids for Sample:	98.3	Concentration Units:	mg/kg
Analytical Run #:	72492	Sample No	881106
Parent Sample No.:	881105		
Analytical Prep Batch #	35793	Analytical Preparation Date/Time:	12/14/2010 14:00

Analysis Type	*Initial Analysis*	Analysis Date: -----	12/15/2010	Analysis Time: --------	23:49

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Arsenic	80-120	104		14.4		102	88		P	
Barium	80-120	210		112		102	96		P	
Chromium	80-120	75.3		78.8		10.2	-34		P	*FAIL*
Cobalt	80-120	26.6		9.9		25.4	66		P	*FAIL*
Iron	80-120	22400		20000		5140	47		P	*FAIL*
Lead	80-120	71.2		58.5		25.4	50		P	*FAIL*
Manganese	80-120	1290		849		534	83		P	
Nickel	80-120	36.9		21.1		25.4	62		P	*FAIL*
Vanadium	80-120	36.0		16.6		25.4	76		P	*FAIL*
Zinc	80-120	116		101		25.4	59		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

DAASS-041-0001-SO

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

Matrix: SOLID SDG No.: 82743

% Solids for Sample: 98.3 Concentration Units: mg/kg

Analytical Run #: 72492 Sample No 881106 Parent Sample No.: 881105

Analytical Prep Batch # 35793 Analytical Preparation Date/Time: 12/14/2010 14:00

ReRun *Re-Analysis #1* Analysis Date: ----- 12/21/2010 Analysis Time: -------- 21:04

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Antimony	80-120	3.3		1.3	J	25.4	8		P	*FAIL*
Selenium	80-120	120		0	U	102	118		P	
Silver	75-120	3.2		0	U	2.5	128		P	*FAIL*
Thallium	80-120	97.0		0	U	102	95		P	*FAIL*

BDL = analyte concentration was below detection limit

Analytical Run #: 72492 Sample No 881106 Parent Sample No.: 881105

Analytical Prep Batch # 35793 Analytical Preparation Date/Time: 12/14/2010 14:00

ReRun *Re-Analysis #2* Analysis Date: ----- 12/21/2010 Analysis Time: -------- 21:04

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Beryllium	80-120	4.5		0.94		2.5	142		P	*FAIL*

BDL = analyte concentration was below detection limit

Analytical Run #: 72492 Sample No 881106 Parent Sample No.: 881105

Analytical Prep Batch # 35793 Analytical Preparation Date/Time: 12/14/2010 14:00

ReRun *Re-Analysis #3* Analysis Date: ----- 12/21/2010 Analysis Time: -------- 21:04

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Aluminum	80-120	21200		10800		5190	200		P	*FAIL*
Cadmium	80-120	3.6		0.88		2.5	109		P	*FAIL*
Calcium	80-120	32400		20200		5090	240		P	*FAIL*
Copper	80-120	42.0		23.4		12.7	146		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
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5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

DAASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82743
% Solids for Sample:	98.3	Concentration Units:	mg/kg

Analytical Run #: 72492 Sample No 881106 Parent Sample No.: 881105

Analytical Prep Batch # 35793 Analytical Preparation Date/Time: 12/14/2010 14:00

ReRun *Re-Analysis #4* Analysis Date: ----- 12/21/2010 Analysis Time: -------- 21:04

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Magnesium	80-120	8750		4410		2540	171		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
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5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

DAASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82743
% Solids for Sample:	98.3	Concentration Units:	mg/kg
Analytical Run #:	72493	Sample No	881106
Parent Sample No.:	881105		
Analytical Prep Batch #	35793	Analytical Preparation Date/Time:	12/14/2010 14:00

Analysis Type	*Initial Analysis*	Analysis Date: -----	12/16/2010	Analysis Time: --------	16:59

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Potassium	80-120	2620		796		2540	72		P	*FAIL*
Sodium	80-120	1900		108		2540	71		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

DAASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix:	SOLID	SDG No.:	82743
% Solids for Sample:	98.3	Concentration Units:	mg/kg

Analytical Run #: 72621 Sample No 882751 Parent Sample No.: 882750

Analytical Prep Batch # 35845 Analytical Preparation Date/Time: 12/20/2010 15:45

Analysis Type *Initial Analysis* Analysis Date: ----- 12/21/2010 Analysis Time: -------- 10:28

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Mercury	80-120	0.12		0.043		0.088	88		CV

BDL = analyte concentration was below detection limit

CT LABORATORIES
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DUPLICATES

Sample Description

DAASS-041-0001-SO

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

Matrix: SOLID SDG No.: 82743

% Solid for Sample: 98.3 Concentration Units: mg/kg

Analytical Run #: 72492 Sample #: 881104 Parent Sample #: 877664

Analytical Prep Batch # 35793 Analytical Preparation Date/Time: 12/14/2010 14:00

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Arsenic	12/15/2010	23:17	20	14.4		14.4		0		P
Barium	12/15/2010	23:17	20	112		109		3		P
Chromium	12/15/2010	23:17	20	78.8		74.8		5		P
Cobalt	12/15/2010	23:17	20	9.9		9.7		2		P
Iron	12/15/2010	23:17	20	20000		19200		4		P
Lead	12/15/2010	23:17	20	58.5		64.6		10		P
Manganese	12/15/2010	23:17	20	849		844		1		P
Nickel	12/15/2010	23:17	20	21.1		20.4		3		P
Vanadium	12/15/2010	23:17	20	16.6		16.2		2		P
Zinc	12/15/2010	23:17	20	101		102		1		P

CT LABORATORIES
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DUPLICATES

Sample Description

DAASS-041-0001-SO

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

Matrix: SOLID SDG No.: 82743

% Solid for Sample: 98.3 Concentration Units: mg/kg

Analytical Run #: 72492 Sample #: 881104 Parent Sample #: 877664

Analytical Prep Batch # 35793 Analytical Preparation Date/Time: 12/14/2010 14:00

ReRun *Re-Analysis #1*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M	
Beryllium	12/21/2010	20:53	20	0.94		1.0		8		P	
Silver	12/21/2010	20:53	20	0.28	U	0.12	J	0		P	
Thallium	12/21/2010	20:53	20	0.71	U	0.71	U	0		P	

Analytical Run #: 72492 Sample #: 881104 Parent Sample #: 877664

Analytical Prep Batch # 35793 Analytical Preparation Date/Time: 12/14/2010 14:00

ReRun *Re-Analysis #2*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M	
Antimony	12/21/2010	20:53	20	1.3	J	1.4		11		P	
Selenium	12/21/2010	20:53	20	2.1	U	1.2	J	0		P	

Analytical Run #: 72492 Sample #: 881104 Parent Sample #: 877664

Analytical Prep Batch # 35793 Analytical Preparation Date/Time: 12/14/2010 14:00

ReRun *Re-Analysis #3*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M	
Aluminum	12/21/2010	20:53	20	10800		11300		5		P	
Cadmium	12/21/2010	20:53	20	0.88		0.38		79		P	*FAIL*
Calcium	12/21/2010	20:53	20	20200		22100		9		P	

CT LABORATORIES
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DUPLICATES

Sample Description

DAASS-041-0001-SO

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

Matrix: SOLID SDG No.: 82743

% Solid for Sample: 98.3 Concentration Units: mg/kg

Copper	12/21/2010	20:53	20	23.4	25.3	8	P

Analytical Run #: 72492 Sample #: 881104 Parent Sample #: 877664

Analytical Prep Batch # 35793 Analytical Preparation Date/Time: 12/14/2010 14:00

ReRun *Re-Analysis #4*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Magnesium	12/21/2010	20:53	20	4410		5110		15		P

CT LABORATORIES
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DUPLICATES

Sample Description

DAASS-041-0001-SO

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

Matrix: SOLID SDG No.: 82743

% Solid for Sample: 98.3 Concentration Units: mg/kg

Analytical Run #: 72493 Sample #: 881104 Parent Sample #: 877664

Analytical Prep Batch # 35793 Analytical Preparation Date/Time: 12/14/2010 14:00

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Potassium	12/16/2010	16:49	20	796		793		0		P
Sodium	12/16/2010	16:49	20	108		107		0		P

CT LABORATORIES
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DUPLICATES

Sample Description

DAASS-041-0001-SO

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID

SDG No.: 82743

% Solid for Sample: 98.3

Concentration Units: mg/kg

Analytical Run #: 72621

Sample #: 882749

Parent Sample #: 877664

Analytical Prep Batch # 35845

Analytical Preparation Date/Time: 12/20/2010 15:45

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M	
Mercury	12/21/2010	10:25	20	0.043		0.062		35		CV	*FAIL*

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6A

MATRIX SPIKE DUPLICATES

Sample Description

DAASS-041-0001-SO

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

Matrix: SOLID SDG No.: 82743

% Solid for Sample: 98.3 Concentration Units: mg/kg

Analytical Run #: 72492 Sample #: 881106 Parent Sample #: 881105

Analytical Prep Batch # 14 Analytical Preparation Date/Time: 12/15/49 1

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M	
Arsenic	12/15/2010	23:49	20	104		104		0		P	
Barium	12/15/2010	23:49	20	216		210		3		P	
Chromium	12/15/2010	23:49	20	76.8		75.3		2		P	*FAIL*
Cobalt	12/15/2010	23:49	20	26.8		26.6		1		P	*FAIL*
Iron	12/15/2010	23:49	20	22900		22400		2		P	*FAIL*
Lead	12/15/2010	23:49	20	65.1		71.2		9		P	*FAIL*
Manganese	12/15/2010	23:49	20	1270		1290		2		P	
Nickel	12/15/2010	23:49	20	36.7		36.9		1		P	*FAIL*
Vanadium	12/15/2010	23:49	20	35.9		36.0		0		P	*FAIL*
Zinc	12/15/2010	23:49	20	120		116		3		P	*FAIL*

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6A

MATRIX SPIKE DUPLICATES

Sample Description: **DAASS-041-0001-SO**

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

Matrix: SOLID | SDG No.: 82743

% Solid for Sample: 98.3 | Concentration Units: mg/kg

Analytical Run #: 72492 | Sample #: 881106 | Parent Sample #: 881105

Analytical Prep Batch # 14 | Analytical Preparation Date/Time: 12/21/50 2

ReRun *Re-Analysis #1*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M	
Antimony	12/21/2010	21:04	20	3.0		3.3		9		P	*FAIL*
Selenium	12/21/2010	21:04	20	99.2		120		19		P	
Silver	12/21/2010	21:04	20	2.3		3.2		31		P	*FAIL*
Thallium	12/21/2010	21:04	20	79.0		97.0		21		P	*FAIL*

Analytical Run #: 72492 | Sample #: 881106 | Parent Sample #: 881105

Analytical Prep Batch # 14 | Analytical Preparation Date/Time: 12/21/51 3

ReRun *Re-Analysis #2*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M	
Beryllium	12/21/2010	21:04	20	3.6		4.5		22		P	*FAIL*

Analytical Run #: 72492 | Sample #: 881106 | Parent Sample #: 881105

Analytical Prep Batch # 14 | Analytical Preparation Date/Time: 12/21/52 4

ReRun *Re-Analysis #3*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M	
Aluminum	12/21/2010	21:04	20	17800		21200		18		P	*FAIL*
Cadmium	12/21/2010	21:04	20	2.7		3.6		28		P	*FAIL*
Calcium	12/21/2010	21:04	20	27500		32400		17		P	*FAIL*

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6A

MATRIX SPIKE DUPLICATES

Sample Description

DAASS-041-0001-SO

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

Matrix: SOLID SDG No.: 82743

% Solid for Sample: 98.3 Concentration Units: mg/kg

Copper	12/21/2010	21:04	20	36.5	42.0	14	P	*FAIL*

Analytical Run #: 72492 Sample #: 881106 Parent Sample #: 881105

Analytical Prep Batch # 14 Analytical Preparation Date/Time: 12/21/53 5

ReRun *Re-Analysis #4*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M	
Magnesium	12/21/2010	21:04	20	7590		8750		14		P	*FAIL*

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6A

MATRIX SPIKE DUPLICATES

Sample Description

DAASS-041-0001-SO

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

Matrix: SOLID SDG No.: 82743

% Solid for Sample: 98.3 Concentration Units: mg/kg

Analytical Run #: 72493 Sample #: 881106 Parent Sample #: 881105

Analytical Prep Batch # 14 Analytical Preparation Date/Time: 12/16/49 1

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M	
Potassium	12/16/2010	16:59	20	2620		2620		0		P	*FAIL*
Sodium	12/16/2010	16:59	20	1920		1900		1		P	*FAIL*

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6A

MATRIX SPIKE DUPLICATES

Sample Description

DAASS-041-0001-SO

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID

SDG No.: 82743

% Solid for Sample: 98.3

Concentration Units: mg/kg

Analytical Run #: 72621

Sample #: 882751

Parent Sample #: 882750

Analytical Prep Batch # 15

Analytical Preparation Date/Time: 12/21/49 1

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M
Mercury	12/21/2010	10:28	20	0.11		0.12		1		CV

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7-2

Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

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

LCS Source: SPEX and Ultra SDG No.: 82743

Concentration Units: mg/kg

Analytical Run #: 72492 Sample No.:#: 881108

Analytical Prep Batch #: 35793 Preparation Date/Time: 12/14/2010 14:00

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Aluminum	12/15/2010 22:56	80-120	104		100	104		P
Antimony	12/15/2010 22:56	80-120	21.1		25.0	84		P
Arsenic	12/15/2010 22:56	80-120	99.5		100	100		P
Barium	12/15/2010 22:56	80-120	105		100	105		P
Cadmium	12/15/2010 22:56	80-120	2.3		2.5	92		P
Calcium	12/15/2010 22:56	80-120	4980		5000	100		P
Chromium	12/15/2010 22:56	80-120	10.5		10.0	105		P
Cobalt	12/15/2010 22:56	80-120	25.5		25.0	102		P
Copper	12/15/2010 22:56	80-120	11.7		12.5	94		P
Iron	12/15/2010 22:56	80-120	51.0		50.0	102		P
Lead	12/15/2010 22:56	80-120	22.2		25.0	89		P
Magnesium	12/15/2010 22:56	80-120	2440		2500	98		P
Manganese	12/15/2010 22:56	80-120	25.8		25.0	103		P
Nickel	12/15/2010 22:56	80-120	23.0		25.0	92		P
Selenium	12/15/2010 22:56	80-120	96.3		100	96		P
Thallium	12/15/2010 22:56	80-120	80.5		100	80		P
Vanadium	12/15/2010 22:56	80-120	26.0		25.0	104		P
Zinc	12/15/2010 22:56	80-120	24.1		25.0	96		P

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7-2

Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract USACE - LOUISVILLE-RAVENNA

LCS Source: SPEX and Ultra SDG No.: 82743

Concentration Units: mg/kg

Analytical Run #: 72492 Sample No.:#: 881108

Analytical Prep Batch #: 35793 Preparation Date/Time: 12/14/2010 14:00

ReRun Re-Analysis #1

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Beryllium	12/21/2010 20:11	80-120	2.4		2.5	96		P
Silver	12/21/2010 20:11	75-120	2.3		2.5	92		P

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7-2

Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract USACE - LOUISVILLE-RAVENNA

LCS Source: SPEX and Ultra SDG No.: 82743

Concentration Units: mg/kg

Analytical Run #: 72493 Sample No.:#: 881108

Analytical Prep Batch #: 35793 Preparation Date/Time: 12/14/2010 14:00

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Potassium	12/16/2010 16:13	80-120	1990		2500	80		P
Sodium	12/16/2010 16:13	80-120	2020		2500	81		P

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7-2

Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract USACE - LOUISVILLE-RAVENNA

LCS Source: SPEX and Ultra SDG No.: 82743

Concentration Units: mg/kg

Analytical Run #: 72621 Sample No.:#: 882748

Analytical Prep Batch #: 35845 Preparation Date/Time: 12/20/2010 15:45

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Mercury	12/21/2010 10:13	80-120	0.077		0.083	93		CV

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ICP SERIAL DILUTION

Sample Description

DAASS-041-0001-SO

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

Matrix: SOLID SDG No.: 82743

Concentration Units: ug/L

LIMS Run #: 72493 Sample No.: 882917 Parent Sample No.: 877664

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M	
Potassium	12/16/2010 16:46	31.3	U	51	U	63		P	*FAIL*
Sodium	12/16/2010 16:46	4.24	U	6.8	U	60		P	*FAIL*

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9

ICP SERIAL DILUTION

Sample Description

DAASS-041-0001-SO

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

Matrix: SOLID SDG No.: 82743

Concentration Units: ug/L

LIMS Run #: 72492 Sample No.: 883655 Parent Sample No.: 877664

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time		Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M	
Arsenic	12/15/2010	23:12	284.		317.5		12		P	*FAIL*
Barium	12/15/2010	23:12	2210.		1990		10		P	
Chromium	12/15/2010	23:12	1550.		1575		2		P	
Cobalt	12/15/2010	23:12	194.		201		4		P	
Iron	12/15/2010	23:12	393000.		380500		3		P	
Lead	12/15/2010	23:12	1150.		1410		23		P	*FAIL*
Manganese	12/15/2010	23:12	16700.		15700		6		P	
Nickel	12/15/2010	23:12	415.		437.5		5		P	
Vanadium	12/15/2010	23:12	326.		310.5		5		P	
Zinc	12/15/2010	23:12	1990.		2145		8		P	

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9

ICP SERIAL DILUTION

Sample Description

DAASS-041-0001-SO

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

Matrix: SOLID SDG No.: 82743

Concentration Units: ug/L

LIMS Run #: 72492 Sample No.: 884799 Parent Sample No.: 877664

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time		Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M	
Aluminum	12/21/2010	20:48	84800		109000		29		P	*FAIL*
Antimony	12/21/2010	20:48	10.2		12.4		22		P	*FAIL*
Beryllium	12/21/2010	20:48	7.43		9.6		29		P	*FAIL*
Cadmium	12/21/2010	20:48	6.94		2.32		67		P	*FAIL*
Calcium	12/21/2010	20:48	159000		212000		33		P	*FAIL*
Copper	12/21/2010	20:48	184		240.5		31		P	*FAIL*
Magnesium	12/21/2010	20:48	34700		46850		35		P	*FAIL*
Selenium	12/21/2010	20:48	0	U	0	U	0		P	
Silver	12/21/2010	20:48	0	U	0	U	0		P	
Thallium	12/21/2010	20:48	0	U	24.45		0		P	

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9

CVAA SERIAL DILUTION

Sample Description

DAASS-041-0001-SO

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

Matrix: SOLID SDG No.: 82743

Concentration Units: ug/L

LIMS Run #: 72621 Sample No.: 883513 Parent Sample No.: 877664

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M	
Mercury	12/21/2010 10:23	0.95		0.85		11		CV	*FAIL*

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10

METHOD DETECTION LIMITS (ANNUALLY)

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

ICP ID Number: TJA SDG No.: 82743

Matrix: SOLID

Analyte	Wavelength (nm)	Background	CRDL (ug/L)	MDL (mg/k)	M
Aluminum	167.0			0.04	P
Antimony	217.5			0.08	P
Arsenic	193.7			0.13	P
Barium	455.4			0.008	P
Beryllium	313.041			0.004	P
Cadmium	226.502			0.006	P
Calcium	393.3			0.06	P
Chromium	267.716			0.019	P
Cobalt	228.616			0.015	P
Copper	324.753			0.06	P
Iron	259.9			0.3	P
Lead	220.35			0.04	P
Magnesium	279.5			0.12	P
Manganese	257.61			0.016	P
Nickel	231.604			0.018	P
Potassium	766.491			11	P
Selenium	196.02			0.07	P
Silver	328.068			0.017	P
Sodium	330.232			4	P
Thallium	190.864			0.04	P
Vanadium	292.402			0.011	P
Zinc	213.856			0.04	P

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10

METHOD DETECTION LIMITS (ANNUALLY)

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

SDG No.: 82743

Matrix: SOLID

Analyte	Wavelength (nm)	Background	CRDL (ug/L)	MDL (mg/k)	M
Mercury	253.7			0.0024	CV

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11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

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

ICP ID Number: TA ICAP6000 / ICAP6500 SDG No.: 82743

Analyte	Wavelength (nm)	Interelement Correction Factors for:			
		Al	*Ca*	*Fe*	*Si (*Mg)*
Aluminum/1	167.079			0.000627 / 0.000627	
Aluminum/2	309.271				
Aluminum/3	396.152				
Antimony/1	206.833			0.000062 / -0.000014	
Antimony/2	217.581			-0.000121/-0.000060	
Arsenic/1	189.042			0.000084 / -0.000017	
Arsenic/2	193.759			0.000537 / -0.000283	
Barium/1	455.403			0.000005 / 0.000010	
Barium/2	493.409			0.000001 / 0.000007	
Beryllium/1	234.861			0.000198 / 0.000135	
Beryllium/2	313.042			0.000000 / 0.000000	
Cadmium/1	226.502			0.000104 / 0.000100	
Cadmium/2	228.802			0.000003 / 0.000000	
Calcium/1	317.933				
Calcium/2	393.366				
Calcium/3	396.847				
Chromium/1	205.552			0.000018 / 0.000003	
Chromium/2	267.716			0.000009 / 0.000010	
Cobalt/1	228.616			0.000003 / 0.000015	
Cobalt/2	238.892			-0.001663/-0.003056	
Copper/1	224.700			0.000514 / 0.000677	
Copper/2	327.396			-0.000120 / 0.000022	
Iron/1	234.349				
Iron/2	239.562				
Iron/3	259.940				

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11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

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

ICP ID Number: TA ICAP6000 / ICAP6500 SDG No.: 82743

Analyte	Wavelength (nm)	Interelement Correction Factors for:			
		Al	*Ca*	*Fe*	*Si (*Mg)*
Lead/1	216.999	0.001934 / 0.002195			
Lead/2	220.353			-0.000091/-0.000043	0.000022 / 0.000022
Magnesium/1	279.079				
Magnesium/2	279.553				
Magnesium/3	280.270				
Manganese/1	257.610			0.000028 / -0.000045	
Manganese/2	259.373				0.001354*/0.001290*
Molybdenum/1	202.030			-0.000008/-0.000005	
Molybdenum/2	204.598				
Nickel/1	221.647		-0.000025/-0.000005		
Nickel/2	231.604			0.000061 / 0.000019	
Selenium/1	196.090			-0.000095/-0.000122	
Selenium/2	206.279			0.000396 / 0.000000	
Silver/1	328.068		-0.000003/-0.000002		
Silver/2	338.289		0.000129 / 0.000219		
Thallium/1	190.856		0.000003 / -0.000056		
Thallium/2	351.924		-0.000272/-0.000272		
Tin (high [ ] li	189.989				
Tin (low [ ] li	189.989				
Vanadium/1	292.402			0.000043 / 0.000043	
Vanadium/2	292.402			0.000011 / 0.000010	
Zinc/1	206.200				
Zinc/2	213.856			0.000114 / 0.000128	

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11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

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

ICP ID Number: TA ICAP6000 / ICAP6500 SDG No.: 82743

Analyte	Wavelength (nm)	Interelement Correction Factors for:			
		Al	*Ca*	*Fe*	*Si (*Mg)*
Aluminum/4	308.215				
Calcium/1	317.933				
Iron/1	234.349				
Magnesium/4	285.213				
Potassium	766.490			-0.000546/-0.000634	
Sodium/1	330.237			--------- / 0.020000	
Sodium/2	589.592			0.000162 / 0.000385	

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11C

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

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

ICP ID Number: TA ICAP6000 / ICAP6500 SDG No.: 82743

Analyte	Wavelength (nm)	Interelement Correction Factors for:			
		Al	*Ca*	*Fe*	*Si (*Mg)*
Aluminum/2	309.271				
Calcium/1	317.933				
Iron/3	259.940				
Lithium	670.784		0.000015 / 0.000015		
Magnesium/1	279.079				
Strontium/1	407.771		0.000008 / 0.000007		
Strontium/2	421.552		0.000014 / 0.000214		
Tin	189.989				
Titanium/1	334.941		0.000213 / 0.000145		
Titanium/2	337.280		0.000017 / 0.000022		
Tungsten/1	224.875		-0.000756 / 0.000030		
Tungsten/2	239.709		0.000415 / -0.000734		

ICP LINEAR RANGES (QUARTERLY)

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

ICP ID Number: TJA SDG No.: 82743

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	15.00	1000000	P
Antimony	15.00	10000	P
Arsenic	15.00	10000	P
Barium	15.00	10000	P
Beryllium	15.00	10000	P
Boron	15.00	10000	P
Cadmium	15.00	10000	P
Calcium	15.00	1000000	P
Chromium	15.00	100000	P
Cobalt	15.00	100000	P
Copper	15.00	100000	P
Iron	15.00	1000000	P
Lead	15.00	100000	P
Lithium	15.00	10000	P
Magnesium	15.00	1000000	P
Manganese	15.00	100000	P
Molybdenum	15.00	10000	P
Nickel	15.00	10000	P
Potassium	15.00	200000	P
Selenium	15.00	10000	P
Silicon	15.00	5000	P
Silver	15.00	1000	P
Sodium	15.00	200000	P
Strontium	15.00	10000	P
Thallium	15.00	10000	P
Tin	15.00	10000	P
Titanium	15.00	10000	P
Tungsten	15.00	10000	P
Vanadium	15.00	100000	P
Zinc	15.00	100000	P

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PREPARATION LOG

Lab Name: CT Laboratories Contrac USACE - LOUISVILLE-RAVENNA

Method: EPA 3050 SDG No.: 82743

Preparation Batch #:: 35793

CTL Sample No.	Preparation Date/Time		Weight (gram)	Volume (mL)
877664	12/14/2010	14:00	2.0	50
877666	12/14/2010	14:00	2.0	50
881104	12/14/2010	14:00	2.0	50
881105	12/14/2010	14:00	2.0	50
881106	12/14/2010	14:00	2.0	50

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PREPARATION LOG

Lab Name: CT Laboratories Contrac USACE - LOUISVILLE-RAVENNA

Method: EPA 7471A SDG No.: 82743

Preparation Batch #:: 35845

CTL Sample No.	Preparation Date/Time		Weight (gram)	Volume (mL)
877664	12/20/2010	15:45	0.56	25
877666	12/20/2010	15:45	0.60	25
882749	12/20/2010	15:45	0.56	25
882750	12/20/2010	15:45	0.58	25
882751	12/20/2010	15:45	0.58	25

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ANALYSIS RUN LOG

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

Lab Code: CTL | SDG No.: 82743

Instrument ID Number: TJA | Method Number: P

Start & End Date: 12/15/2010 to 12/21/2010 | Analytical Run #: 72492

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
883617	ICV	1.00	12/15 11:48	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
883618	ICB	1.00	12/15 11:54	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
883619	MRL	1.00	12/15 12:04	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
883620	ICSA	1.00	12/15 12:09	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
883621	ICSAB	1.00	12/15 12:15	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
883628	CCV1	1.00	12/15 22:07	X		X	X	X		X	X	X	X	X	X	X	X	X				X		X					X			X	X
883629	CCV2	1.00	12/15 22:12		X	X	X	X		X		X	X		X	X		X				X		X		X			X			X	X
883630	CCB	1.00	12/15 22:23	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
881108	LCSS	1.00	12/15 22:56	X	X	X	X			X	X	X	X	X	X	X	X	X				X		X					X			X	X
881107	MBS	1.00	12/15 23:01	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X					X			X	X
877664	Initial	2.00	12/15 23:06			X	X					X	X		X	X		X				X										X	X
883655	L	5	12/15 23:12			X	X					X	X		X	X		X				X										X	X
881104	DUP	2.00	12/15 23:17			X	X					X	X		X	X		X				X										X	X
883656	CCV1	1.00	12/15 23:23	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X					X			X	X
883657	CCV2	1.00	12/15 23:28		X	X	X	X		X		X	X	X	X	X		X				X		X		X			X			X	X
883658	CCB	1.00	12/15 23:38	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
881105	MSS	2.00	12/15 23:43			X	X					X	X		X	X		X				X										X	X
881106	MSDS	2.00	12/15 23:49			X	X					X	X		X	X		X				X										X	X
883659	PDSS	1.00	12/15 23:54			X	X					X	X		X	X		X				X										X	X
877666	Initial	2.00	12/16 00:00			X	X	X				X	X		X	X	X	X				X										X	X
883661	CCV2	1.00	12/16 00:27	X	X	X	X	X		X	X	X	X	X	X	X		X				X		X		X			X			X	X
883662	CCB	1.00	12/16 00:37	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
884208	ICV	1.00	12/21 11:22	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
884209	ICB	1.00	12/21 11:33	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
884210	MRL	1.00	12/21 11:38	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
884211	ICSA	1.00	12/21 11:44	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
884212	ICSAB	1.00	12/21 11:49	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

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

Lab Code: CTL | SDG No.: 82743

Instrument ID Number: TJA | Method Number: P

Start & End Date: 12/15/2010 to 12/21/2010 | Analytical Run #: 72492

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
884216	CCV1	1.00	12/21 19:11	X	X	X	X			X	X	X	X	X	X	X	X	X				X		X					X			X	X
884217	CCV2	1.00	12/21 19:16	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
884215	CCB	1.00	12/21 19:21	X	X	X		X		X	X	X	X	X	X	X	X	X				X		X		X			X				X
881108	LCSS	1.00	12/21 20:11					X																		X							
881107	MBS	1.00	12/21 20:16																							X							
877664	Re-Analysis	5.00	12/21 20:22	X	X			X		X	X			X			X							X		X			X				
884218	CCV1	1.00	12/21 20:27	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
884219	CCV2	1.00	12/21 20:32	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
884220	CCB	1.00	12/21 20:43	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
884799	L	5	12/21 20:48	X	X			X		X	X			X			X							X		X			X				
881104	DUP	5.00	12/21 20:53	X	X			X		X	X			X			X							X		X			X				
881105	MSS	5.00	12/21 20:59	X	X			X		X	X			X			X							X		X			X				
881106	MSDS	5.00	12/21 21:04	X	X			X		X	X			X			X							X		X			X				
884804	PDSS	1.00	12/21 21:10	X	X			X		X	X			X			X							X		X			X				
877666	Re-Analysis	5.00	12/21 21:15	X	X					X	X			X										X		X							
884221	CCV1	1.00	12/21 21:26	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
884222	CCV2	1.00	12/21 21:31	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X
884223	CCB	1.00	12/21 21:41	X	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X		X			X			X	X

CT LABORATORIES
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ANALYSIS RUN LOG

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

Lab Code: CTL | SDG No.: 82743

Instrument ID Number: TJA | Method Number: P

Start & End Date: 12/16/2010 to 12/16/2010 | Analytical Run #: 72493

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
882906	ICV	1.00	12/16 14:48																				X				X					
882907	ICB	1.00	12/16 14:50																				X				X					
882908	MRL	1.00	12/16 14:53																				X				X					
882909	ICSA	1.00	12/16 14:55	X							X				X		X						X				X					
882910	ICSAB	1.00	12/16 14:58	X							X				X		X						X				X					
881108	LCSS	1.00	12/16 16:13																				X				X					
882915	CCV	1.00	12/16 16:24																				X				X					
882916	CCB	1.00	12/16 16:26																				X				X					
881107	MBS	1.00	12/16 16:41																				X				X					
877664	Initial	1.00	12/16 16:44																				X				X					
882917	L	5	12/16 16:46																				X				X					
881104	DUP	1.00	12/16 16:49																				X				X					
881105	MSS	1.00	12/16 16:51																				X				X					
882918	CCV	1.00	12/16 16:54																				X				X					
882919	CCB	1.00	12/16 16:56																				X				X					
881106	MSDS	1.00	12/16 16:59																				X				X					
882920	PDSS	1.00	12/16 17:01																				X				X					
877666	Initial	1.00	12/16 17:04																				X				X					
882921	CCV	1.00	12/16 17:23																				X				X					
882922	CCB	1.00	12/16 17:26																				X				X					

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

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

Lab Code: CTL
SDG No.: 82743

Instrument ID Number: CETAC
Method Number: CV

Start & End Date: 12/21/2010 to 12/21/2010
Analytical Run #: 72621

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
883507	ICV	1.00	12/21 09:30																X													
883508	ICB	1.00	12/21 09:32																X													
883509	CCV	1.00	12/21 09:53																X													
883510	CCB	1.00	12/21 09:55																X													
882748	LCSS	1.00	12/21 10:13																X													
883511	CCV	1.00	12/21 10:15																X													
883512	CCB	1.00	12/21 10:17																X													
882747	MBS	1.00	12/21 10:19																X													
877664	Initial	1.00	12/21 10:21																X													
883513	L	5	12/21 10:23																X													
882749	DUP	1.00	12/21 10:25																X													
882750	MSS	1.00	12/21 10:26																X													
882751	MSDS	1.00	12/21 10:28																X													
883514	PDSS	1.00	12/21 10:30																X													
877666	Initial	1.00	12/21 10:32																X													
883515	CCV	1.00	12/21 10:38																X													
883516	CCB	1.00	12/21 10:39																X													

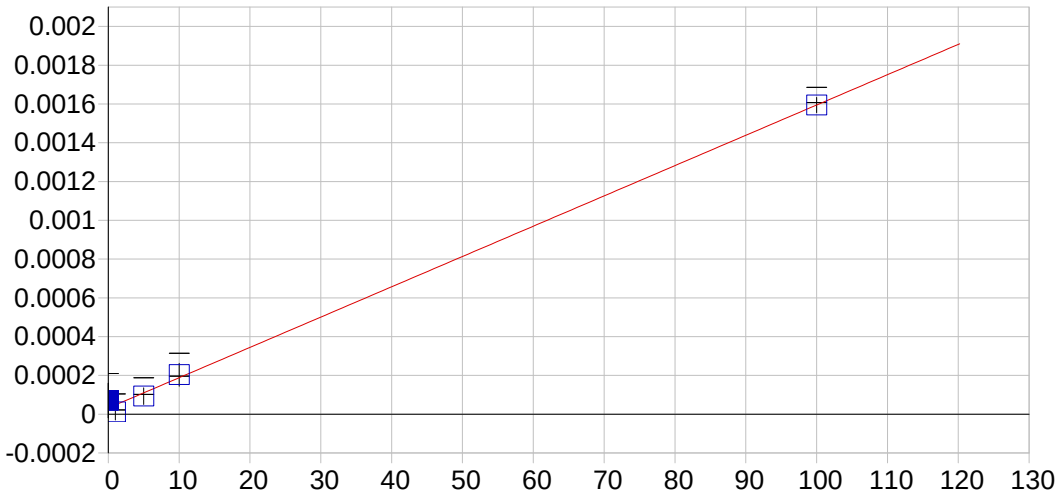
METALS
RAW DATA
DOCUMENTS

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
Ag 328.068 {103}	12/15/2010 11:10:42	12/15/2010 11:10:42	Linear	None	0.000032	0.000016	0.000000	1.000000	0.999093	0.000033	5.815942	19.386472
Ag 338.289 {100}	12/15/2010 10:28:22	12/15/2010 10:28:22	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
Al 167.079 {502}	12/15/2010 11:15:40	12/15/2010 11:15:40	Linear	None	0.000015	0.000002	0.000000	1.000000	0.999928	0.000009	3.243360	10.811200
Al 309.271 {109}	12/15/2010 11:37:30	12/15/2010 11:37:30	Linear	1/Conc	0.000528	0.000004	0.000000	1.000000	0.999881	0.000065	18.873853	62.912842
Al 396.152 { 85}	12/15/2010 11:43:26	12/15/2010 11:43:26	Full Fit	1/Conc	-0.000008	0.000008	0.000000	1.040000	0.999962	0.000227	16.470975	54.903250
As 189.042 {479}	12/15/2010 11:21:04	12/15/2010 11:21:04	Linear	1/Conc	-0.000006	0.000000	0.000000	1.000000	0.999996	0.000000	18.637748	62.125827
As 193.759 {474}	12/15/2010 11:15:40	12/15/2010 11:15:40	Linear	None	-0.000002	0.000001	0.000000	1.000000	0.999974	0.000003	9.109643	30.365477
Ba 455.403 { 74}	12/16/2010 13:17:17	12/15/2010 11:10:42	Linear	1/Conc	-0.000117	0.000541	0.000000	1.000000	0.999541	0.000019	0.383353	1.277843
Ba 493.409 { 68}	12/15/2010 11:21:04	12/15/2010 11:21:04	Linear	1/Conc	0.020589	0.000585	0.000000	1.000000	0.999997	0.000266	0.645198	2.150660
Be 234.861 {144}	12/15/2010 11:15:40	12/15/2010 11:15:40	Linear	None	0.000078	0.000057	0.000000	1.000000	0.999992	0.000171	0.494394	1.647980
Be 313.042 {108}	12/15/2010 11:15:40	12/15/2010 11:15:40	Linear	1/Conc	0.000027	0.000758	0.000000	1.000000	0.999877	0.000007	0.108093	0.360309
Ca 317.933 {106}	12/15/2010 11:43:26	12/15/2010 11:43:26	Full Fit	1/Conc	0.003135	0.000009	-0.000000	1.010000	1.000000	0.000017	4.894348	16.314494
Ca 393.366 { 86}	12/15/2010 11:15:40	12/15/2010 11:15:40	Linear	None	0.025032	0.001808	0.000000	1.000000	0.999910	0.019345	0.057552	0.191841
Ca 396.847 { 85}	12/15/2010 11:21:04	12/15/2010 11:21:04	Linear	1/Conc	0.004266	0.000654	0.000000	1.000000	0.999985	0.000170	0.110538	0.368460
Cd 226.502 {449}	12/15/2010 11:15:40	12/15/2010 11:15:40	Linear	1/Conc	-0.000008	0.000084	0.000000	1.000000	0.999935	0.000001	0.152425	0.508083
Cd 228.802 {447}	12/15/2010 11:15:40	12/15/2010 11:15:40	Linear	None	0.000199	0.000074	0.000000	1.000000	0.999988	0.000283	0.179340	0.597800
Co 228.616 {447}	12/16/2010 13:17:35	12/15/2010 11:15:40	Linear	1/Conc	0.000007	0.000041	0.000000	1.000000	0.999755	0.000002	0.275483	0.918275
Co 238.892 {141}	12/15/2010 11:21:04	12/15/2010 11:21:04	Linear	1/Conc	0.000007	0.000005	0.000000	1.000000	0.999985	0.000005	5.541912	18.473041
Cr 267.716 {126}	12/16/2010 13:05:48	12/15/2010 11:15:40	Linear	1/Conc	-0.000006	0.000011	0.000000	1.000000	0.999439	0.000002	3.746706	12.489021
Cr 283.563 {119}	12/15/2010 11:26:13	12/15/2010 11:26:13	Linear	1/Conc	0.000011	0.000016	0.000000	1.000000	0.999995	0.000004	3.013866	10.046219
Cu 224.700 {450}	12/16/2010 13:18:13	12/15/2010 11:21:04	Linear	1/Conc	0.000126	0.000016	0.000000	1.000000	0.999938	0.000002	0.712688	2.375628
Cu 324.754 {104}	12/15/2010 11:26:13	12/15/2010 11:26:13	Linear	None	0.001767	0.000004	0.000000	1.000000	0.999947	0.002575	13.869716	46.232387
Cu 327.396 {103}	12/15/2010 11:15:40	12/15/2010 11:15:40	Linear	None	0.000088	0.000007	0.000000	1.000000	0.999942	0.000035	12.714227	42.380755
Fe 234.349 {144}	12/15/2010 11:43:26	12/15/2010 11:43:26	Full Fit	None	-0.000204	0.000001	0.000000	0.990000	1.000000	0.000325	12.070422	40.234740
Fe 239.562 {141}	12/15/2010 11:37:30	12/15/2010 11:37:30	Linear	None	0.001621	0.000003	0.000000	1.000000	0.999997	0.002372	6.257376	20.857919
Fe 259.940 {130}	12/15/2010 11:15:40	12/15/2010 11:15:40	Linear	None	0.000138	0.000012	0.000000	1.000000	0.999922	0.000074	3.244298	10.814326
Mg 279.079 {121}	12/15/2010 11:43:26	12/15/2010 11:43:26	Full Fit	None	-0.000049	0.000001	0.000000	1.050000	1.000000	0.000637	43.762628	145.875426
Mg 279.553 {121}	12/15/2010 11:05:30	12/15/2010 11:05:30	Linear	None	0.000344	0.000204	0.000000	1.000000	0.992774	0.000653	0.118315	0.394383
Mg 280.270 {120}	12/15/2010 11:21:04	12/15/2010 11:21:04	Linear	1/Conc	0.001096	0.000189	0.000000	1.000000	0.999997	0.000089	0.161488	0.538293
Mn 257.610 {131}	12/16/2010 13:19:17	12/15/2010 11:21:04	Linear	1/Conc	0.000011	0.000073	0.000000	1.000000	0.999990	0.000003	0.539962	1.799873
Mn 259.373 {130}	12/15/2010 11:26:13	12/15/2010 11:26:13	Linear	1/Conc	-0.000012	0.000052	0.000000	1.000000	1.000000	0.000019	0.767634	2.558781
Mo 202.030 {467}	12/15/2010 11:15:40	12/15/2010 11:15:40	Linear	None	0.000038	0.000008	0.000000	1.000000	0.999797	0.000061	0.935482	3.118274
Mo 203.844 {465}	12/15/2010 11:15:40	12/15/2010 11:15:40	Linear	None	0.000024	0.000004	0.000000	1.000000	0.999752	0.000035	1.848975	6.163251
Mo 204.598 {465}	12/15/2010 11:21:04	12/15/2010 11:21:04	Linear	1/Conc	-0.000001	0.000006	0.000000	1.000000	0.999972	0.000001	1.371314	4.571048
Ni 221.647 {452}	12/15/2010 11:21:04	12/15/2010 11:21:04	Linear	1/Conc	0.000001	0.000027	0.000000	1.000000	0.999731	0.000030	0.542831	1.809437
Ni 231.604 {445}	12/15/2010 11:15:40	12/15/2010 11:15:40	Linear	None	-0.000014	0.000029	0.000000	1.000000	0.999982	0.000057	0.439760	1.465866
Pb 216.999 {455}	12/15/2010 11:26:13	12/15/2010 11:26:13	Full Fit	None	0.000009	0.000002	0.000000	0.970000	1.000000	0.000000	6.785104	22.617013
Pb 220.353 {453}	12/16/2010 13:20:05	12/15/2010 11:15:40	Linear	1/Conc	0.000008	0.000008	0.000000	1.000000	0.999923	0.000000	1.503130	5.010432
Sb 206.833 {463}	12/15/2010 11:21:04	12/15/2010 11:21:04	Linear	1/Conc	0.000002	0.000002	0.000000	1.000000	0.999945	0.000000	3.741623	12.472076
Sb 217.581 {455}	12/15/2010 11:21:04	12/15/2010 11:21:04	Linear	1/Conc	-0.000009	0.000001	0.000000	1.000000	0.999271	0.000001	11.485077	38.283588
Se 196.090 {472}	12/15/2010 11:21:04	12/15/2010 11:21:04	Linear	1/Conc	0.000010	0.000001	0.000000	1.000000	0.999833	0.000000	11.615495	38.718317
Se 206.279 {463}	12/15/2010 11:21:04	12/15/2010 11:21:04	Linear	None	0.000003	0.000000	0.000000	1.000000	0.999978	0.000008	52.853619	176.178732
Tl 190.856 {477}	12/15/2010 11:21:04	12/15/2010 11:21:04	Full Fit	None	-0.000001	0.000001	-0.000000	0.990000	0.999999	0.000005	6.759171	22.530571
Tl 276.787 {122}	12/15/2010 11:21:04	12/15/2010 11:21:04	Linear	None	-0.000002	0.000000	0.000000	1.000000	0.999924	0.000036	126.528190	421.760633

Element, Wavelength and Order	Status	Reslope		QC Norm	
		Slope	Y-int	Slope factor	Offset
Ag 328.068 {103}	OK.	1.000000	0.000000	1	0
Ag 338.289 {100}	Warnin	1.000000	0.000000	1	0
Al 167.079 {502}	OK.	1.000000	0.000000	1	0
Al 309.271 {109}	OK.	1.000000	0.000000	1	0
Al 396.152 { 85}	OK.	1.000000	0.000000	1	0
As 189.042 {479}	OK.	1.000000	0.000000	1	0
As 193.759 {474}	OK.	1.000000	0.000000	1	0
Ba 455.403 { 74}	OK.	1.000000	0.000000	1	0
Ba 493.409 { 68}	OK.	1.000000	0.000000	1	0
Be 234.861 {144}	OK.	1.000000	0.000000	1	0
Be 313.042 {108}	OK.	1.000000	0.000000	1	0
Ca 317.933 {106}	OK.	1.000000	0.000000	1	0
Ca 393.366 { 86}	OK.	1.000000	0.000000	1	0
Ca 396.847 { 85}	OK.	1.000000	0.000000	1	0
Cd 226.502 {449}	OK.	1.000000	0.000000	1	0
Cd 228.802 {447}	OK.	1.000000	0.000000	1	0
Co 228.616 {447}	OK.	1.000000	0.000000	1	0
Co 238.892 {141}	OK.	1.000000	0.000000	1	0
Cr 267.716 {126}	OK.	1.000000	0.000000	1	0
Cr 283.563 {119}	OK.	1.000000	0.000000	1	0
Cu 224.700 {450}	OK.	1.000000	0.000000	1	0
Cu 324.754 {104}	OK.	1.000000	0.000000	1	0
Cu 327.396 {103}	OK.	1.000000	0.000000	1	0
Fe 234.349 {144}	OK.	1.000000	0.000000	1	0
Fe 239.562 {141}	OK.	1.000000	0.000000	1	0
Fe 259.940 {130}	OK.	1.000000	0.000000	1	0
Mg 279.079 {121}	OK.	1.000000	0.000000	1	0
Mg 279.553 {121}	OK.	1.000000	0.000000	1	0
Mg 280.270 {120}	OK.	1.000000	0.000000	1	0
Mn 257.610 {131}	OK.	1.000000	0.000000	1	0
Mn 259.373 {130}	OK.	1.000000	0.000000	1	0
Mo 202.030 {467}	OK.	1.000000	0.000000	1	0
Mo 203.844 {465}	OK.	1.000000	0.000000	1	0
Mo 204.598 {465}	OK.	1.000000	0.000000	1	0
Ni 221.647 {452}	OK.	1.000000	0.000000	1	0
Ni 231.604 {445}	OK.	1.000000	0.000000	1	0
Pb 216.999 {455}	Warnin	1.000000	0.000000	1	0
Pb 220.353 {453}	OK.	1.000000	0.000000	1	0
Sb 206.833 {463}	OK.	1.000000	0.000000	1	0
Sb 217.581 {455}	OK.	1.000000	0.000000	1	0
Se 196.090 {472}	OK.	1.000000	0.000000	1	0
Se 206.279 {463}	OK.	1.000000	0.000000	1	0
Tl 190.856 {477}	OK.	1.000000	0.000000	1	0
Tl 276.787 {122}	OK.	1.000000	0.000000	1	0

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
V 290.882 {116}	12/15/2010 11:21:04	12/15/2010 11:21:04	Linear	1/Conc	0.000039	0.000013	0.000000	1.000000	0.999944	0.000026	4.115932	13.719772
V 292.402 {115}	12/15/2010 11:15:40	12/15/2010 11:15:40	Linear	None	0.000032	0.000013	0.000000	1.000000	0.999989	0.000026	4.676714	15.589046
Zn 206.200 {463}	12/15/2010 11:26:13	12/15/2010 11:26:13	Full Fit	None	0.000095	0.000013	-0.000000	1.000000	1.000000	0.000000	0.602143	2.007143
Zn 213.856 {458}	12/15/2010 11:15:41	12/15/2010 11:15:41	Linear	None	0.000121	0.000040	0.000000	1.000000	0.999993	0.000076	0.218786	0.729286
Y 360.073 { 94}*	12/15/2010 10:28:22	12/15/2010 10:28:22	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
B 249.773 {135}	12/15/2010 11:15:41	12/15/2010 11:15:41	Linear	None	-0.000007	0.000006	0.000000	1.000000	0.999996	0.000009	6.179735	20.599116
Li 670.784 { 50}	12/15/2010 11:15:41	12/15/2010 11:15:41	Linear	None	0.000858	0.000262	0.000000	1.000000	0.999782	0.002430	1.232950	4.109832
Na 330.298 {102}	12/15/2010 11:31:47	12/15/2010 11:31:47	Linear	1/Conc	-0.000010	0.000000	0.000000	1.000000	1.000000	0.000000	2610.78119	8702.60398
Si 251.611 {134}	12/15/2010 11:15:41	12/15/2010 11:15:41	Linear	None	0.000048	0.000000	0.000000	1.000000	1.000000	0.000000	358.880982	1196.26994
Sr 407.771 { 83}	12/15/2010 11:21:04	12/15/2010 11:21:04	Linear	1/Conc	-0.001521	0.001293	0.000000	1.000000	0.981067	0.000984	0.087083	0.290277
Ti 334.941 {101}	12/15/2010 11:15:41	12/15/2010 11:15:41	Linear	1/Conc	0.000020	0.000066	0.000000	1.000000	0.999867	0.000005	0.966604	3.222014

	Element, Wavelength and Order	Status	Reslope		QC Norm	
			Slope	Y-int	Slope factor	Offset
	V 290.882 {116}	OK.	1.000000	0.000000	1	0
	V 292.402 {115}	OK.	1.000000	0.000000	1	0
	Zn 206.200 {463}	OK.	1.000000	0.000000	1	0
	Zn 213.856 {458}	OK.	1.000000	0.000000	1	0
	Y 360.073 { 94}*	Warnin	1.000000	0.000000	1	0
	B 249.773 {135}	OK.	1.000000	0.000000	1	0
	Li 670.784 { 50}	OK.	1.000000	0.000000	1	0
	Na 330.298 {102}	OK.	1.000000	0.000000	1	0
	Si 251.611 {134}	OK.	1.000000	0.000000	1	0
	Sr 407.771 { 83}	OK.	1.000000	0.000000	1	0
	Ti 334.941 {101}	OK.	1.000000	0.000000	1	0

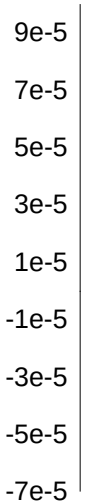


Ag 328.068 {103}

Date of Fit:	12/15/2010 11:10:42	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000032	Re-Slope:	1.000000
A1 (Gain):	0.000016	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999093	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	5.815942		
Predicted MQL:	19.386472		

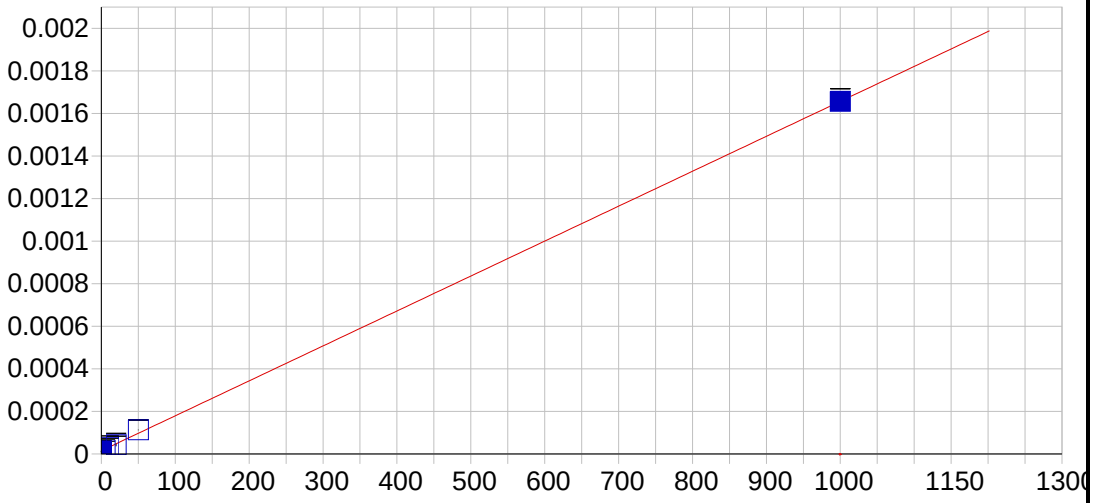
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	2.4515	2.45	.000	.00007	.000	1
CalibStd=100	100.00	99.980	-.020	-.020	.00159	.000	1
CalibStd=10	10.000	10.965	.965	9.65	.00020	.000	1
CalibStd=1	1.0000	-1.3256	-2.33	-233.	.00001	.000	1
CalibStd=5	5.0000	3.9286	-1.07	-21.4	.00009	.000	1



Ag 338.289 {100}

Date of Fit:	12/15/2010 10:28:22	Type of Fit:	Linear	Weighting:	None
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00001	.000	1

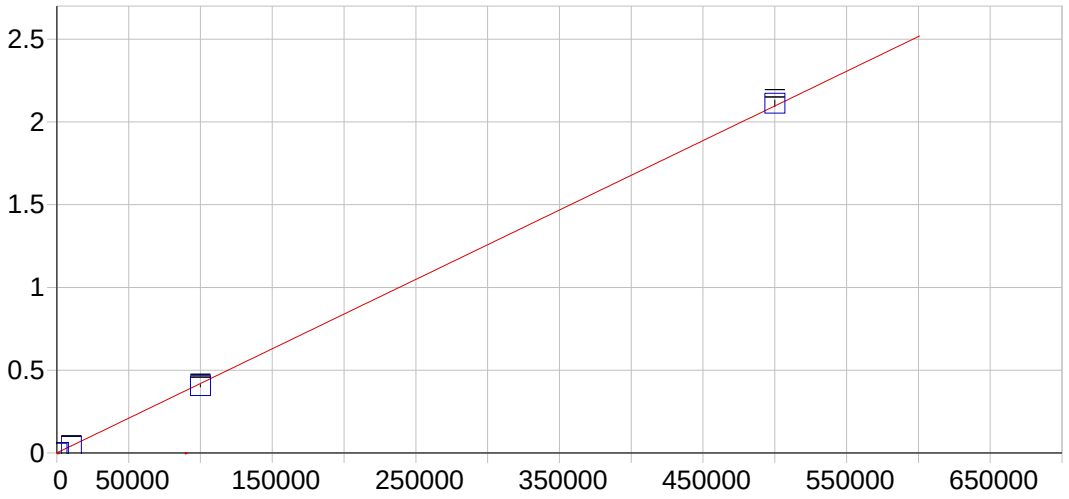


Al 167.079 {502}

Date of Fit:	12/15/2010 11:15:40	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000015	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999928	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	3.243360		
Predicted MQL:	10.811200		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-2.1593	-2.16	.000	.00001	.000	1
CalibStd=100	1000.0	999.61	-.393	-.039	.00166	.000	1
CalibStd=20	20.000	16.938	-3.06	-15.3	.00004	.000	1
CalibStd=10	10.000	9.4442	-.556	-5.56	.00003	.000	1
CalibStd=5	5.0000	1.6281	-3.37	-67.4	.00002	.000	1
CalibStd=50	50.000	59.542	9.54	19.1	.00011	.000	1

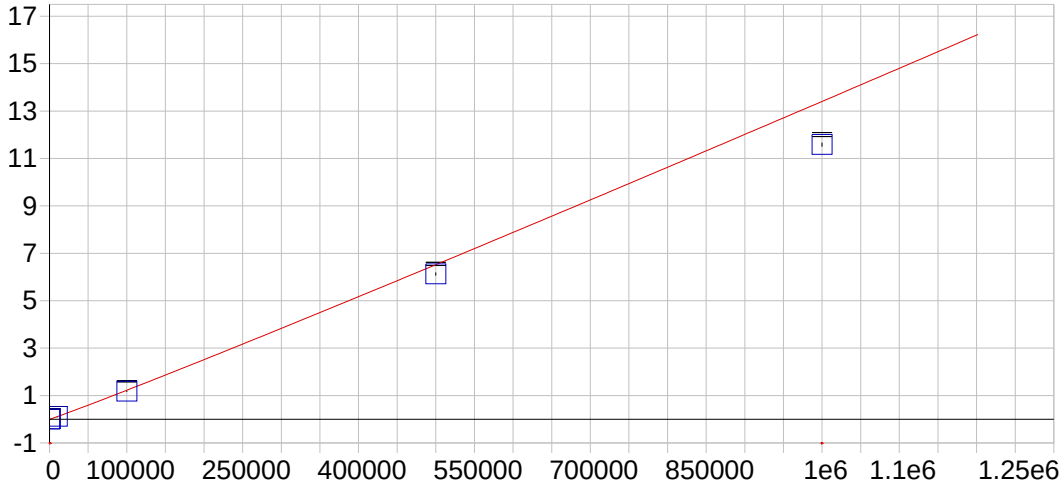


Al 309.271 {109}

Date of Fit:	12/15/2010 11:37:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000528	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999881	Status:	OK.
Std Error of Est:	0.000065		
Predicted MDL:	18.873853		
Predicted MQL:	62.912842		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.08354	.084	.000	.00053	.000	1
CalibStd=100	10000.	9716.3	-284.	-2.84	.04126	.001	1
CalibStd=100	100000.	96687.	-3310.	-3.31	.40586	.009	1
CalibStd=100	1000.0	970.71	-29.3	-2.93	.00460	.000	1
CalibStd=500	500000.	503630.	3630.	.725	2.1119	.022	1

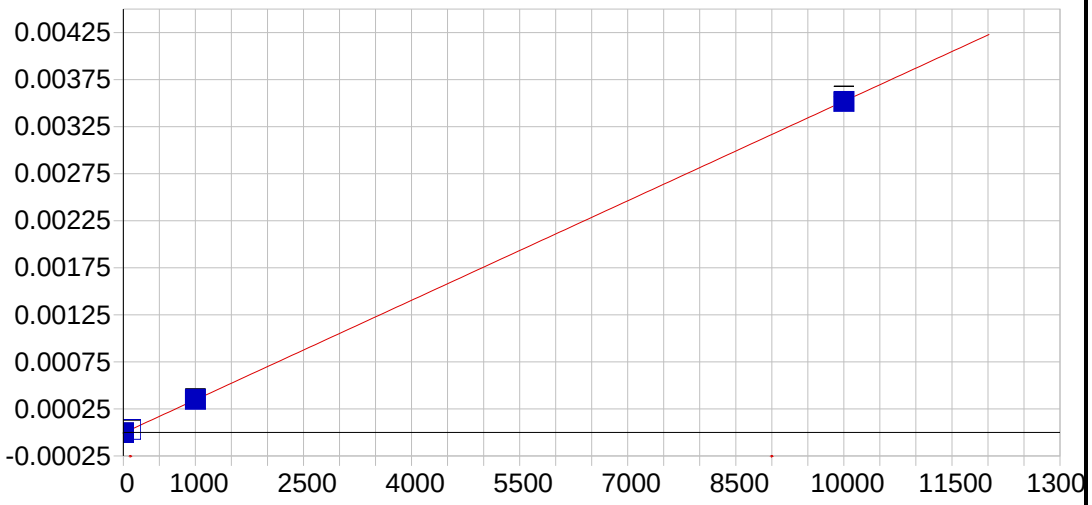


Al 396.152 { 85}

Date of Fit:	12/15/2010 11:43:26	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	-0.000008	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.040000		
Correlation:	0.999962	Status:	OK.
Std Error of Est:	0.000227		
Predicted MDL:	16.470975		
Predicted MQL:	54.903250		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00001	.000	1
CalibStd=100	100000.	96573.	-3430.	-3.43	1.1792	.027	1
CalibStd-100	1000000.	868970.	-131000.	-13.1	11.585	.086	1
CalibStd=500	500000.	470960.	-29000.	-5.81	6.1268	.069	1
CalibStd=100	1000.0	1139.1	139.	13.9	.01164	.000	1
CalibStd=100	10000.	10552.	552.	5.52	.11792	.000	1

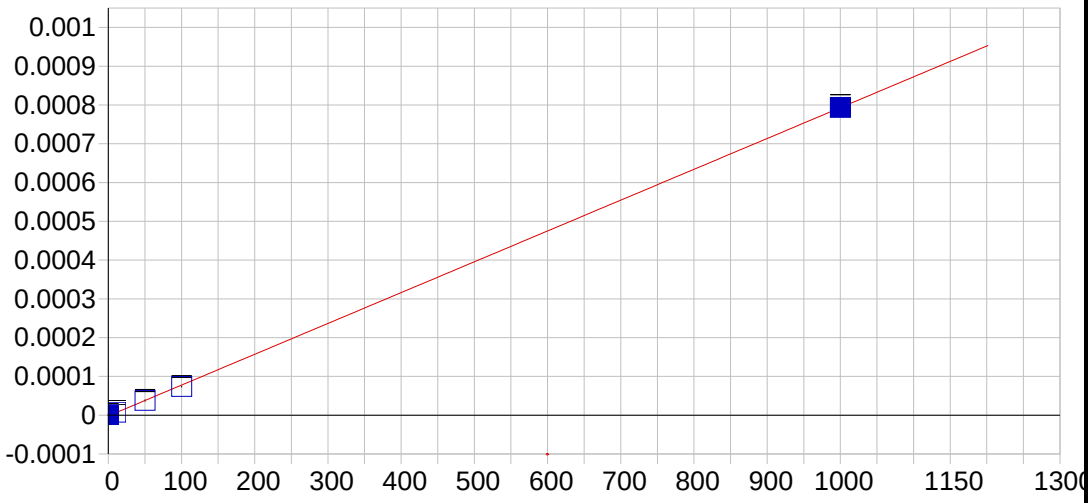


As 189.042 {479}

Date of Fit:	12/15/2010 11:21:04	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999996	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	18.637748		
Predicted MQL:	62.125827		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00190	-.002	.000	-.00001	.000	1
CalibStd=100	1000.0	1008.5	8.52	.852	.00035	.000	1
CalibStd=100	10000.	9990.3	-9.67	-.097	.00352	.000	1
CalibStd=100	100.00	101.14	1.14	1.14	.00003	.000	1

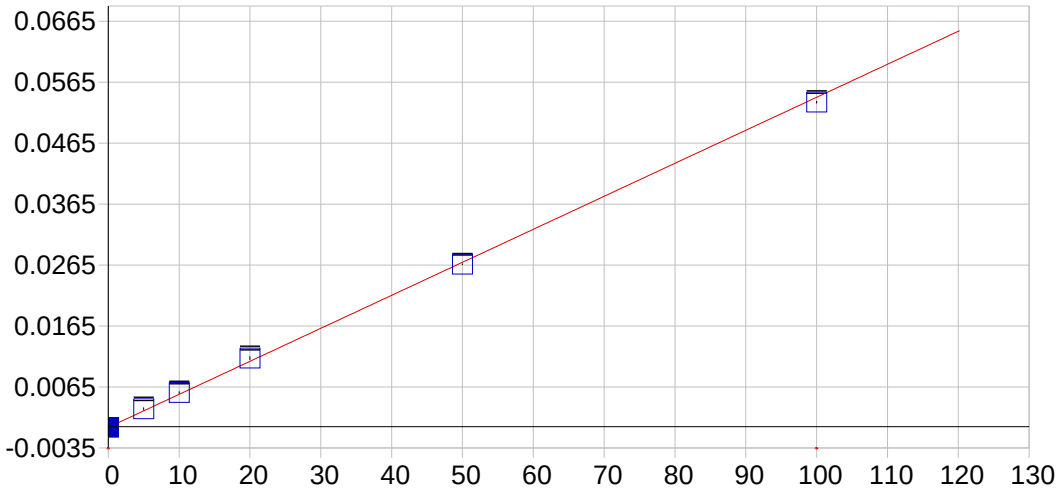


As 193.759 {474}

Date of Fit:	12/15/2010 11:15:40	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999974	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	9.109643		
Predicted MQL:	30.365477		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	3.4201	3.42	.000	.00000	.000	1
CalibStd=100	1000.0	1000.5	.503	.050	.00079	.000	1
CalibStd=50	50.000	49.759	-.241	-.482	.00004	.000	1
CalibStd=10	10.000	11.363	1.36	13.6	.00001	.000	1
CalibStd=100	100.00	94.955	-5.04	-5.04	.00007	.000	1

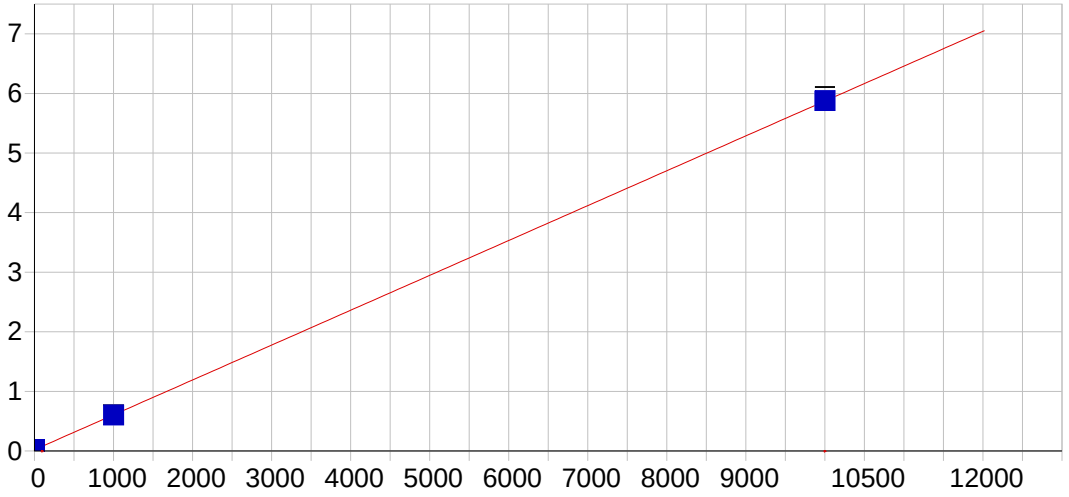


Ba 455.403 { 74}

Date of Fit:	12/16/2010 13:17:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000117	Re-Slope:	1.000000
A1 (Gain):	0.000541	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999541	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	0.383353		
Predicted MQL:	1.277843		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00095	-.001	.000	-.00012	.000	1
CalibStd=50	50.000	49.415	-.585	-1.17	.02664	.000	1
CalibStd=10	10.000	10.535	.535	5.35	.00559	.000	1
CalibStd=20	20.000	20.971	.971	4.85	.01124	.000	1
CalibStd=100	100.00	98.509	-1.49	-1.49	.05322	.000	1
CalibStd=5	5.0000	5.5700	.570	11.4	.00290	.000	1

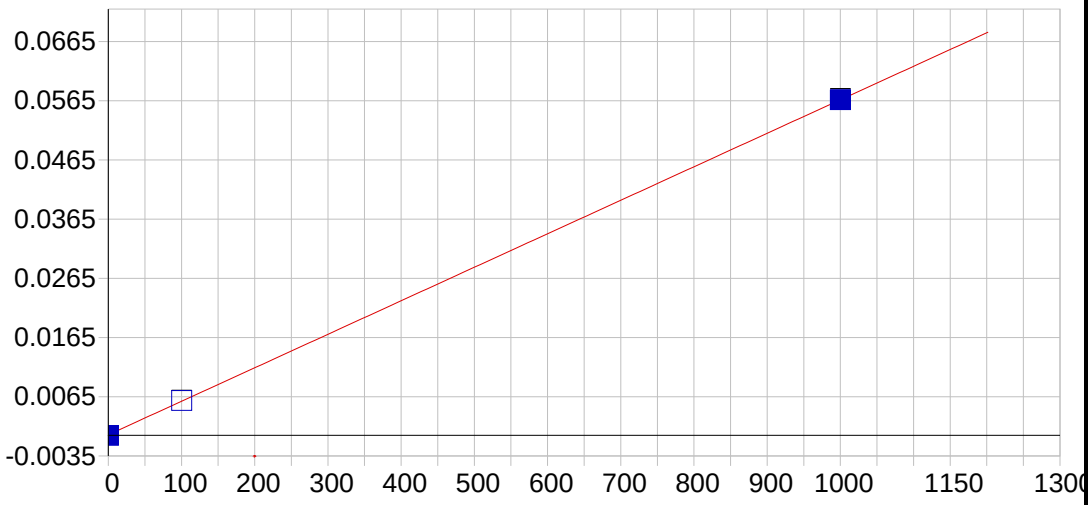


Ba 493.409 { 68}

Date of Fit:	12/15/2010 11:21:04	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.020589	Re-Slope:	1.000000
A1 (Gain):	0.000585	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000266		
Predicted MDL:	0.645198		
Predicted MQL:	2.150660		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00713	.007	.000	.02059	.000	1
CalibStd=100	1000.0	992.08	-7.92	-.792	.60126	.003	1
CalibStd=100	10000.	10008.	7.92	.079	5.8782	.061	1

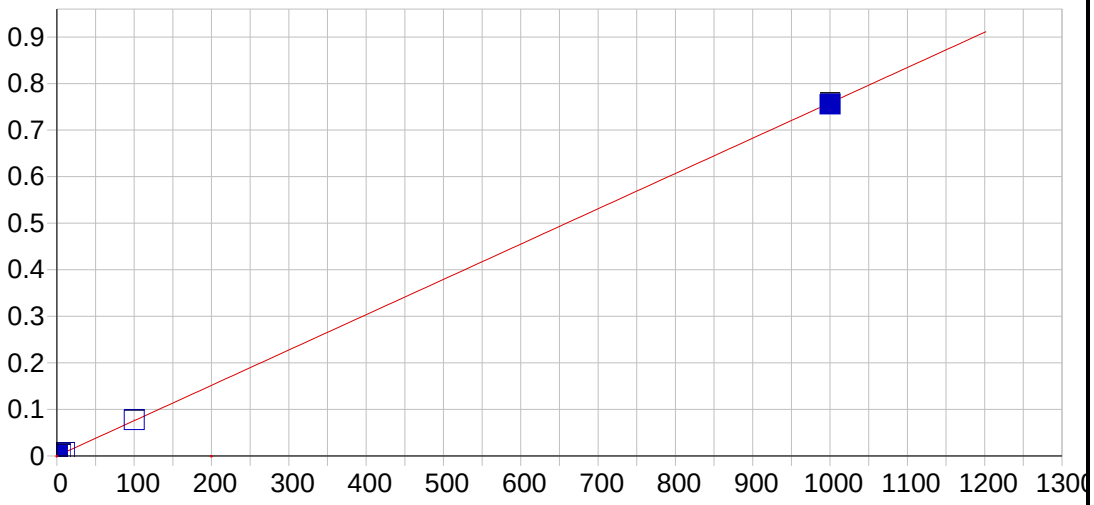


Be 234.861 {144}

Date of Fit:	12/15/2010 11:15:40	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000078	Re-Slope:	1.000000
A1 (Gain):	0.000057	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	0.000171		
Predicted MDL:	0.494394		
Predicted MQL:	1.647980		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-2.0181	-2.02	.000	-.00004	.000	1
CalibStd=100	1000.0	999.78	-.224	-.022	.05667	.000	1
CalibStd=100	100.00	102.24	2.24	2.24	.00586	.000	1

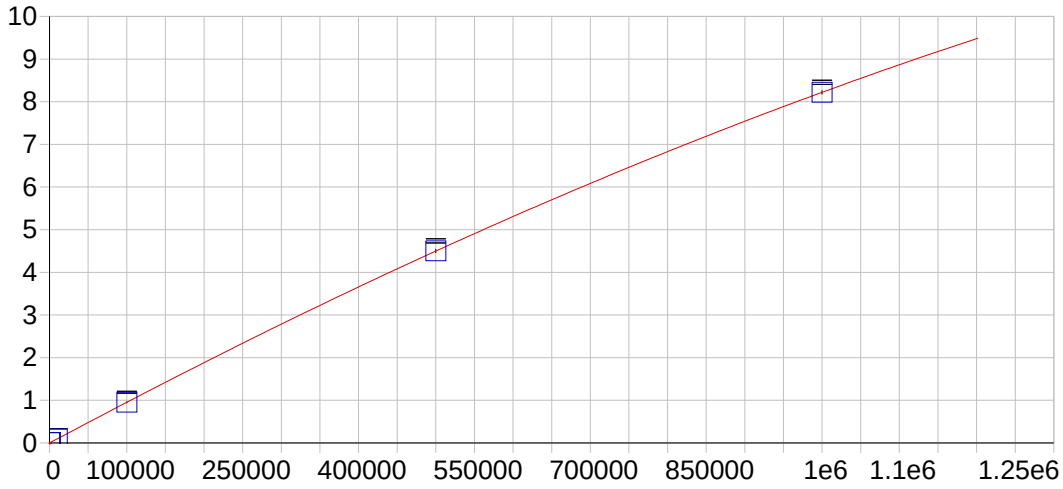


Be 313.042 {108}

Date of Fit:	12/15/2010 11:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000027	Re-Slope:	1.000000
A1 (Gain):	0.000758	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999877	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	0.108093		
Predicted MQL:	0.360309		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00024	.000	.000	.00003	.000	1
CalibStd=10	10.000	10.422	.422	4.22	.00793	.000	1
CalibStd=100	100.00	102.49	2.49	2.49	.07776	.000	1
CalibStd=0.5	.50000	.49919	-.001	-.162	.00041	.000	1
CalibStd=5	5.0000	5.1912	.191	3.82	.00396	.000	1
CalibStd=0.2	.25000	.46040	.210	84.2	.00038	.000	1
CalibStd=100	1000.0	996.69	-3.31	-.331	.75599	.002	1

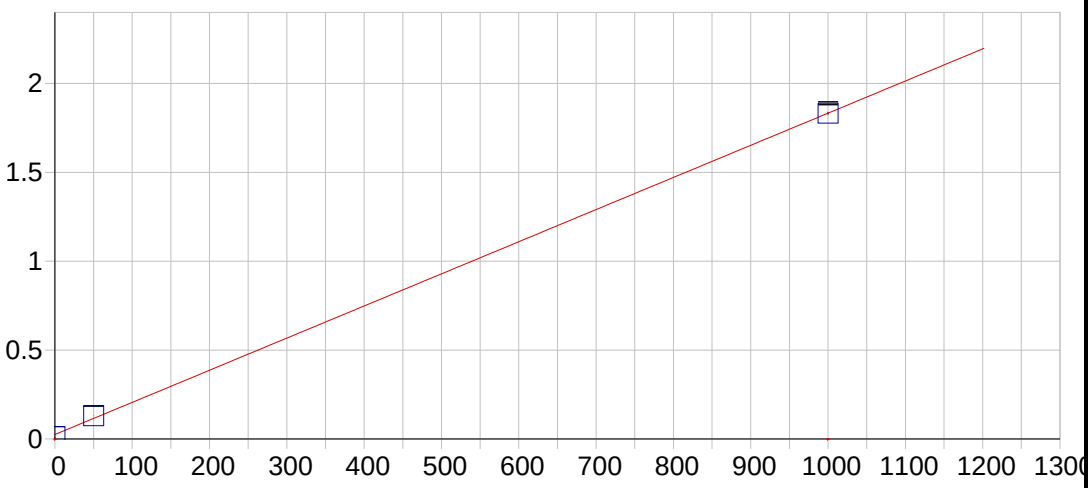


Ca 317.933 {106}

Date of Fit:	12/15/2010 11:43:26	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.003135	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.010000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	4.894348		
Predicted MQL:	16.314494		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01332	.013	.000	.00314	.000	1
CalibStd=100	10000.	9922.4	-77.6	-.776	.09657	.001	1
CalibStd=100	100000.	99871.	-129.	-.129	.95125	.022	1
CalibStd=500	500000.	500430.	435.	.087	4.5018	.049	1
CalibStd-100	1000000.	999750.	-248.	-.025	8.2187	.050	1
CalibStd=100	1000.0	996.83	-3.17	-.317	.01232	.000	1

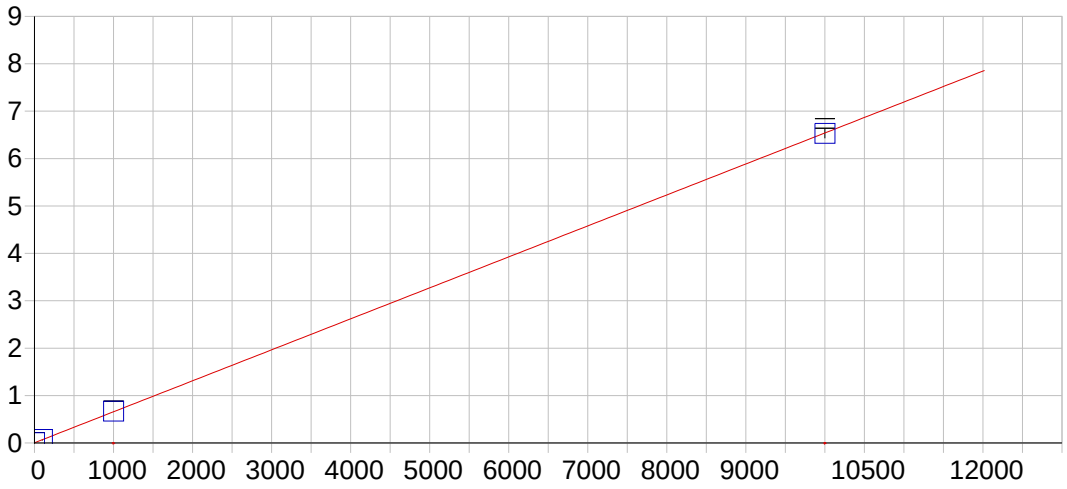


Ca 393.366 { 86}

Date of Fit:	12/15/2010 11:15:40	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.025032	Re-Slope:	1.000000
A1 (Gain):	0.001808	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999910	Status:	OK.
Std Error of Est:	0.019345		
Predicted MDL:	0.057552		
Predicted MQL:	0.191841		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-7.3645	-7.36	.000	.01172	.000	1
CalibStd=50	50.000	57.752	7.75	15.5	.12945	.001	1
CalibStd=100	1000.0	999.61	-.388	-.039	1.8323	.008	1

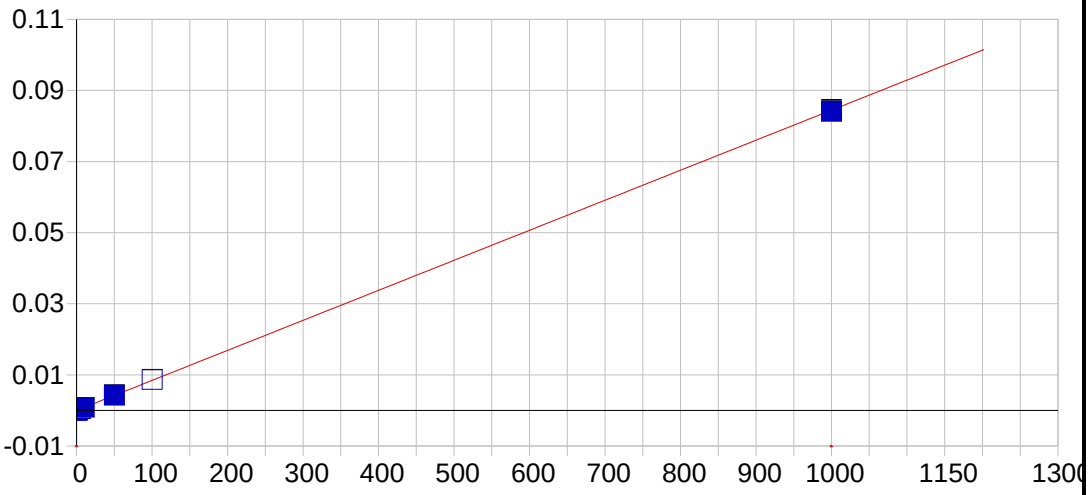


Ca 396.847 { 85}

Date of Fit:	12/15/2010 11:21:04	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004266	Re-Slope:	1.000000
A1 (Gain):	0.000654	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000170		
Predicted MDL:	0.110538		
Predicted MQL:	0.368460		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00465	-.005	.000	.00426	.000	1
CalibStd=100	10000.	9982.8	-17.2	-.172	6.5288	.100	1
CalibStd=100	100.00	103.45	3.45	3.45	.07188	.000	1
CalibStd=100	1000.0	1013.8	13.8	1.38	.66685	.003	1

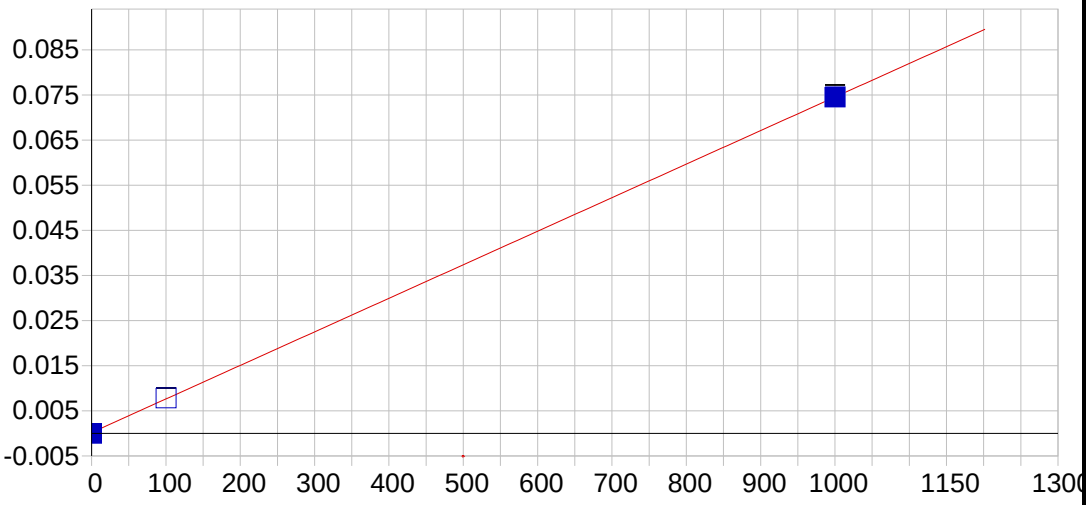


Cd 226.502 {449}

Date of Fit:	12/15/2010 11:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000008	Re-Slope:	1.000000
A1 (Gain):	0.000084	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999935	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.152425		
Predicted MQL:	0.508083		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00014	.000	.000	-.00001	.000	1
CalibStd=50	50.000	50.532	.532	1.06	.00426	.000	1
CalibStd=1	1.0000	1.1311	.131	13.1	.00009	.000	1
CalibStd=0.5	.50000	.51108	.011	2.22	.00003	.000	1
CalibStd=5	5.0000	5.2264	.226	4.53	.00043	.000	1
CalibStd=100	100.00	102.77	2.77	2.77	.00867	.000	1
CalibStd=10	10.000	10.489	.489	4.89	.00088	.000	1
CalibStd=100	1000.0	995.84	-4.16	-.416	.08412	.000	1

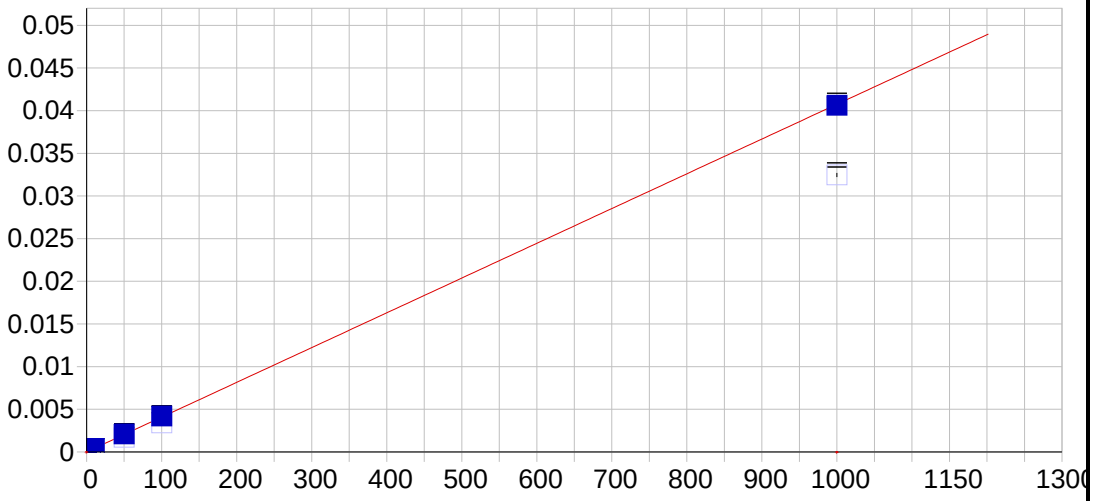


Cd 228.802 {447}

Date of Fit:	12/15/2010 11:15:40	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000199	Re-Slope:	1.000000
A1 (Gain):	0.000074	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999988	Status:	OK.
Std Error of Est:	0.000283		
Predicted MDL:	0.179340		
Predicted MQL:	0.597800		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-2.5410	-2.54	.000	.00001	.000	1
CalibStd=100	1000.0	999.72	-.282	-.028	.07454	.000	1
CalibStd=100	100.00	102.82	2.82	2.82	.00785	.000	1

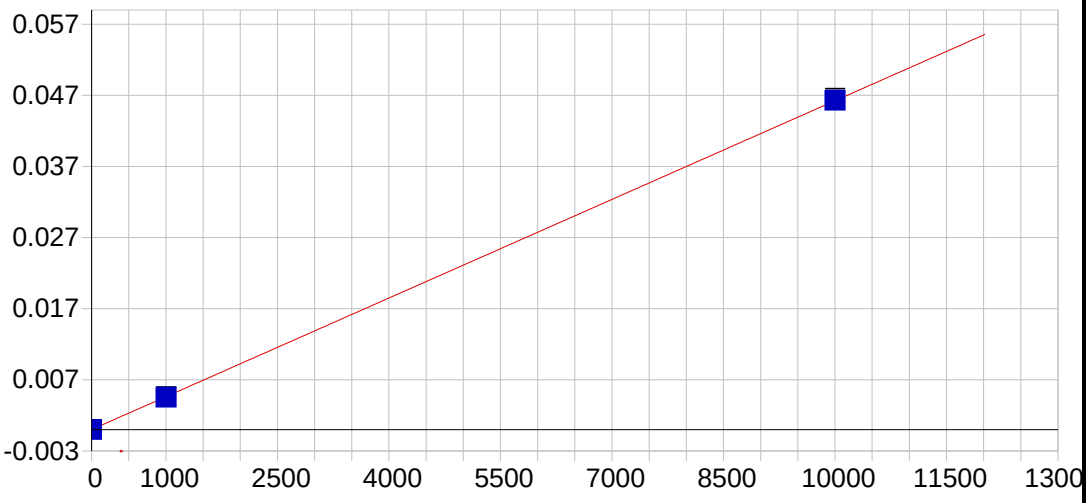


Co 228.616 {447}

Date of Fit:	12/16/2010 13:17:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000007	Re-Slope:	1.000000
A1 (Gain):	0.000041	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999755	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.275483		
Predicted MQL:	0.918275		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00074	.001	.000	.00001	.000	1
CalibStd=50	50.000	51.587	1.59	3.17	.00170	.000	1
CalibStd=10	10.000	10.008	.008	.078	.00033	.000	1
CalibStd=5	5.0000	3.9658	-1.03	-20.7	.00017	.000	1
CalibStd=100	100.00	103.02	3.02	3.02	.00339	.000	1
CalibStd=100	1000.0	996.68	-3.32	-.332	.03247	.000	1

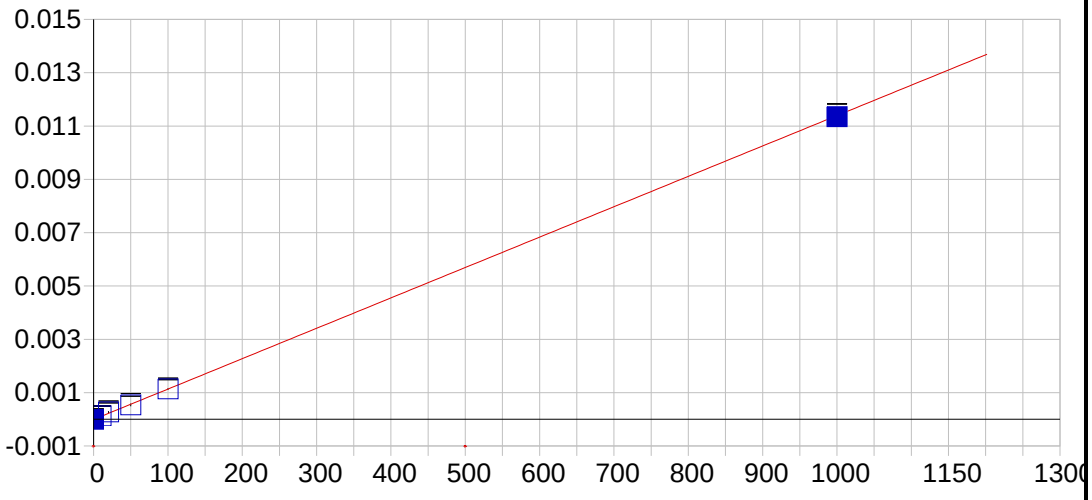


Co 238.892 {141}

Date of Fit:	12/15/2010 11:21:04	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000007	Re-Slope:	1.000000
A1 (Gain):	0.000005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	5.541912		
Predicted MQL:	18.473041		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01559	.016	.000	.00001	.000	1
CalibStd=100	1000.0	982.67	-17.3	-1.73	.00455	.000	1
CalibStd=100	10000.	10017.	17.3	.173	.04628	.000	1

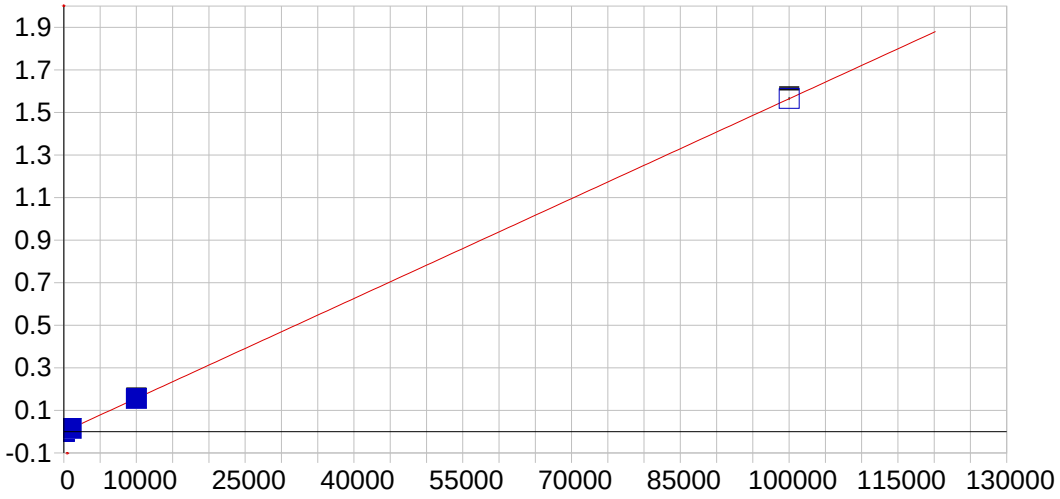


Cr 267.716 {126}

Date of Fit:	12/16/2010 13:05:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000011	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999439	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	3.746706		
Predicted MQL:	12.489021		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00318	-.003	.000	-.00001	.000	1
CalibStd=10	10.000	11.364	1.36	13.6	.00012	.000	1
CalibStd=50	50.000	47.813	-2.19	-4.37	.00054	.000	1
CalibStd=100	1000.0	996.03	-3.97	-.397	.01135	.000	1
CalibStd=20	20.000	24.527	4.53	22.6	.00027	.000	1
CalibStd=100	100.00	100.27	.270	.270	.00114	.000	1

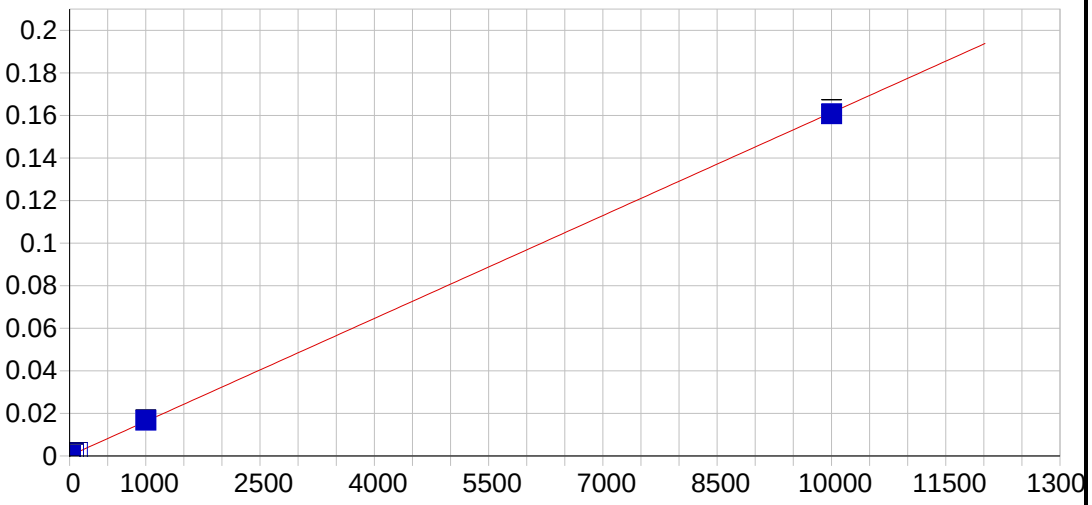


Cr 283.563 {119}

Date of Fit:	12/15/2010 11:26:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000011	Re-Slope:	1.000000
A1 (Gain):	0.000016	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	3.013866		
Predicted MQL:	10.046219		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00234	-.002	.000	.00001	.000	1
CalibStd=50	50.000	51.813	1.81	3.63	.00082	.000	1
CalibStd=100	100.00	103.37	3.37	3.37	.00163	.000	1
CalibStd=100	1000.0	982.86	-17.1	-1.71	.01541	.000	1
CalibStd=100	10000.	9931.9	-68.1	-.681	.15561	.001	1
CalibStd-100	100000.	100080.	80.2	.080	1.5657	.006	1

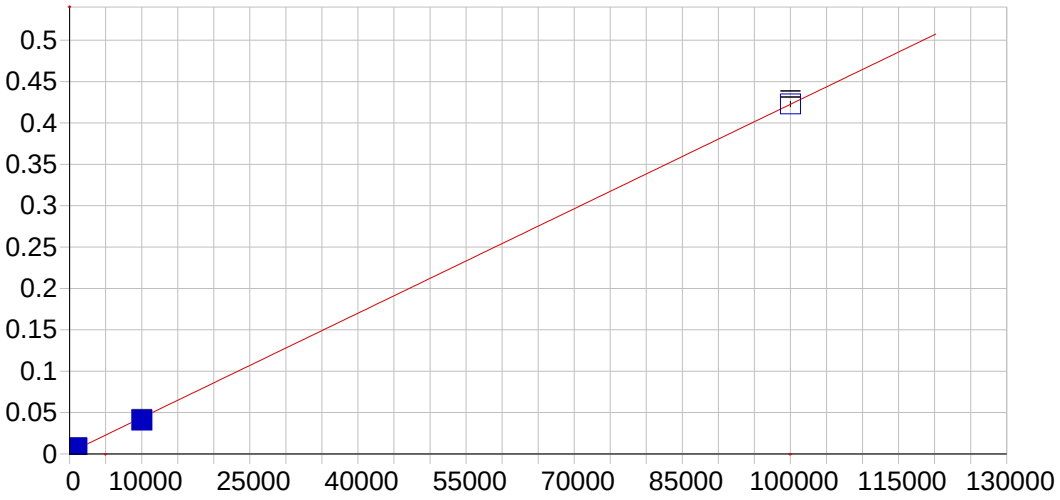


Cu 224.700 {450}

Date of Fit:	12/16/2010 13:18:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000126	Re-Slope:	1.000000
A1 (Gain):	0.000016	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999938	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.712688		
Predicted MQL:	2.375628		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00090	-.001	.000	.00013	.000	1
CalibStd=100	1000.0	1031.6	31.6	3.16	.01676	.000	1
CalibStd=50	50.000	50.938	.938	1.88	.00095	.000	1
CalibStd=100	100.00	104.75	4.75	4.75	.00181	.000	1
CalibStd=10	10.000	9.9621	-.038	-.379	.00029	.000	1
CalibStd=100	10000.	9962.7	-37.3	-.373	.16075	.002	1

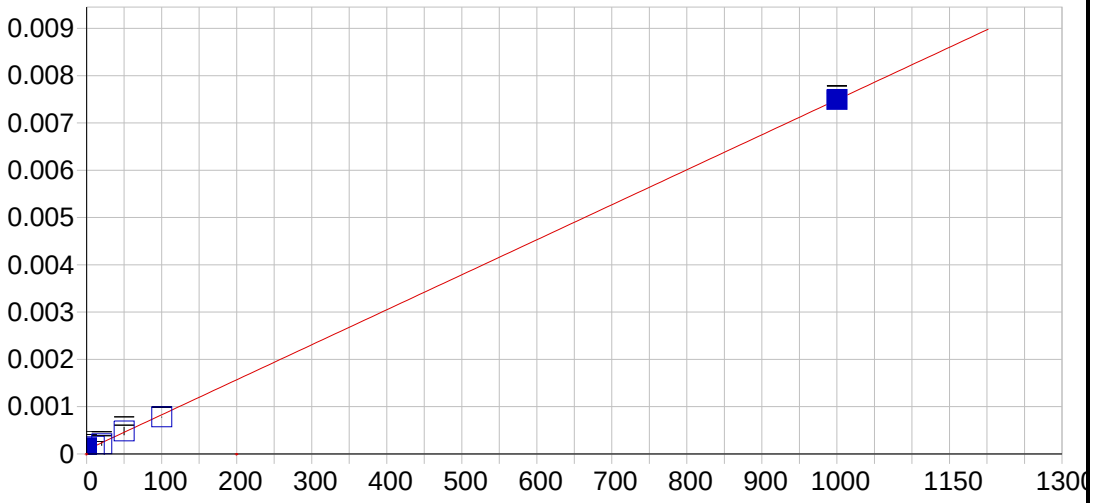


Cu 324.754 {104}

Date of Fit:	12/15/2010 11:26:13	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.001767	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.002575		
Predicted MDL:	13.869716		
Predicted MQL:	46.232387		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	390.94	391.	.000	.00341	.000	1
CalibStd=100	10000.	9277.0	-723.	-7.23	.04080	.001	1
CalibStd-100	100000.	100070.	69.7	.070	.42283	.004	1
CalibStd=100	1000.0	1262.4	262.	26.2	.00708	.000	1

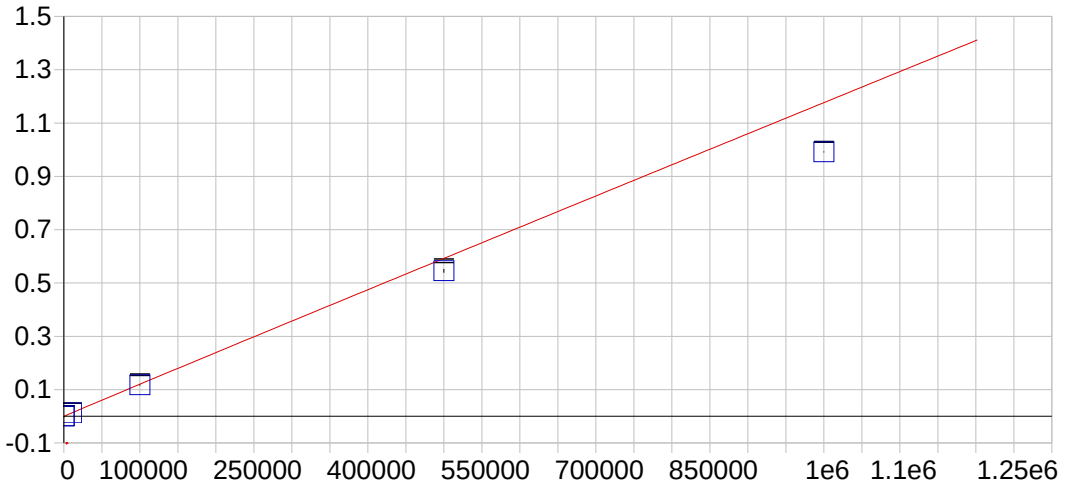


Cu 327.396 {103}

Date of Fit:	12/15/2010 11:15:40	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000088	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999942	Status:	OK.
Std Error of Est:	0.000035		
Predicted MDL:	12.714227		
Predicted MQL:	42.380755		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	5.2729	5.27	.000	.00013	.000	1
CalibStd=20	20.000	17.032	-2.97	-14.8	.00021	.000	1
CalibStd=50	50.000	53.498	3.50	7.00	.00048	.000	1
CalibStd=100	100.00	93.612	-6.39	-6.39	.00078	.000	1
CalibStd=10	10.000	10.062	.062	.624	.00016	.000	1
CalibStd=100	1000.0	1000.5	.523	.052	.00749	.000	1

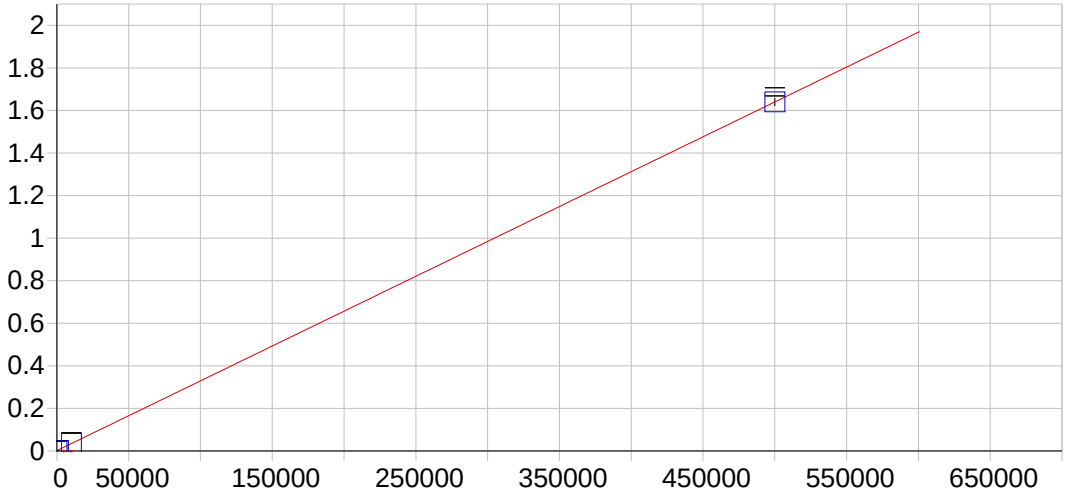


Fe 234.349 {144}

Date of Fit:	12/15/2010 11:43:26	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	-0.000204	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	0.990000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000325		
Predicted MDL:	12.070422		
Predicted MQL:	40.234740		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	162.75	163.	.000	.00000	.000	1
CalibStd=100	10000.	9874.9	-125.	-1.25	.01196	.000	1
CalibStd=500	500000.	460200.	-39800.	-7.96	.54553	.007	1
CalibStd=100	100000.	98100.	-1900.	-1.90	.11794	.003	1
CalibStd-100	1000000.	841510.	-158000.	-15.8	.99170	.002	1
CalibStd=100	1000.0	1125.0	125.	12.5	.00121	.000	1

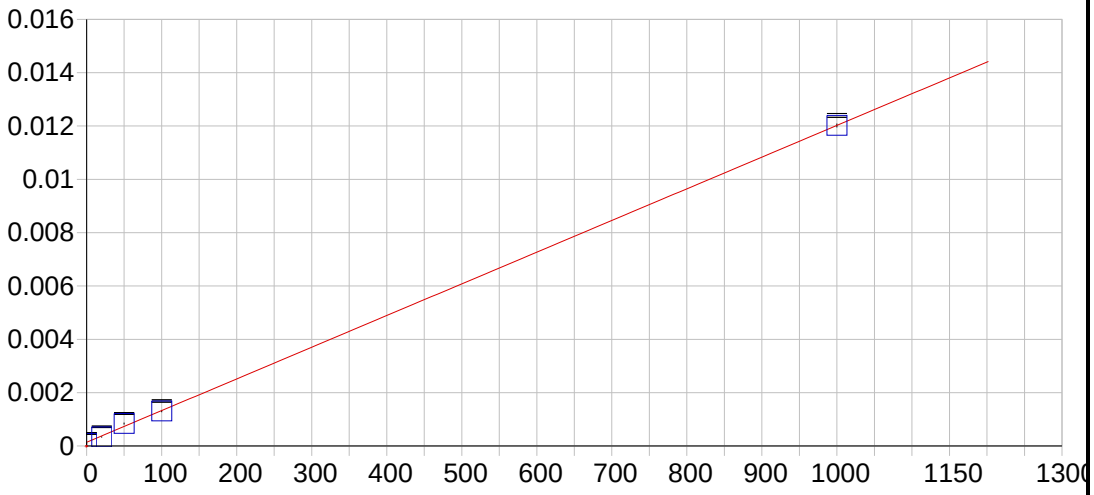


Fe 239.562 {141}

Date of Fit:	12/15/2010 11:37:30	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.001621	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.002372		
Predicted MDL:	6.257376		
Predicted MQL:	20.857919		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-478.82	-479.	.000	.00005	.000	1
CalibStd=100	1000.0	657.48	-343.	-34.3	.00378	.000	1
CalibStd=100	10000.	10837.	837.	8.37	.03713	.000	1
CalibStd=500	500000.	499980.	-16.1	-.003	1.6400	.019	1

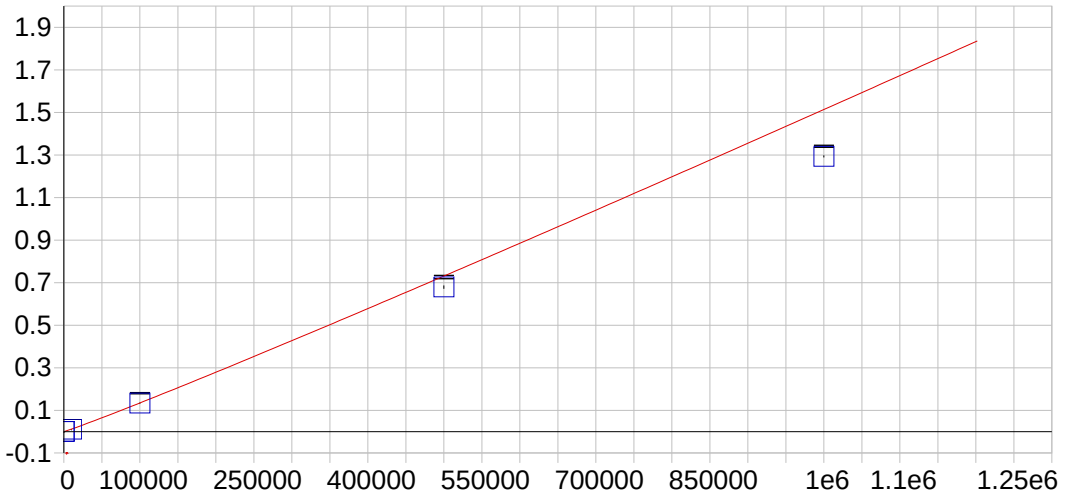


Fe 259.940 {130}

Date of Fit:	12/15/2010 11:15:40	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000138	Re-Slope:	1.000000
A1 (Gain):	0.000012	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999922	Status:	OK.
Std Error of Est:	0.000074		
Predicted MDL:	3.244298		
Predicted MQL:	10.814326		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-4.1938	-4.19	.000	.00009	.000	1
CalibStd=100	1000.0	999.76	-.239	-.024	.01202	.000	1
CalibStd=50	50.000	59.191	9.19	18.4	.00084	.000	1
CalibStd=100	100.00	98.427	-1.57	-1.57	.00131	.000	1
CalibStd=20	20.000	16.814	-3.19	-15.9	.00034	.000	1

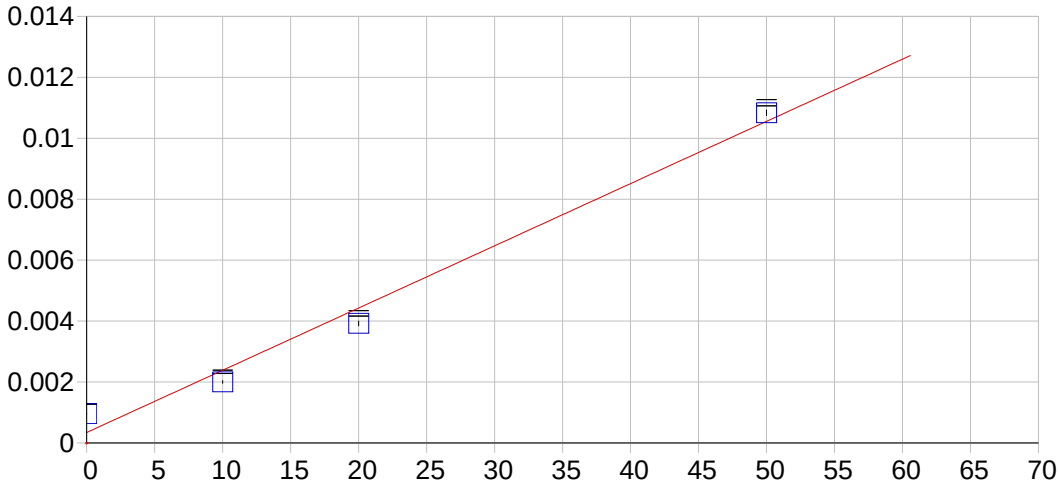


Mg 279.079 {121}

Date of Fit:	12/15/2010 11:43:26	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	-0.000049	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.050000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000637		
Predicted MDL:	43.762628		
Predicted MQL:	145.875426		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	62.255	62.3	.000	.00001	.000	1
CalibStd=100	100000.	99109.	-891.	-.891	.13361	.003	1
CalibStd=500	500000.	466380.	-33600.	-6.72	.67954	.008	1
CalibStd=100	10000.	9438.0	-562.	-5.62	.01127	.000	1
CalibStd-100	1000000.	860900.	-139000.	-13.9	1.2935	.005	1
CalibStd=100	1000.0	1227.3	227.	22.7	.00128	.000	1

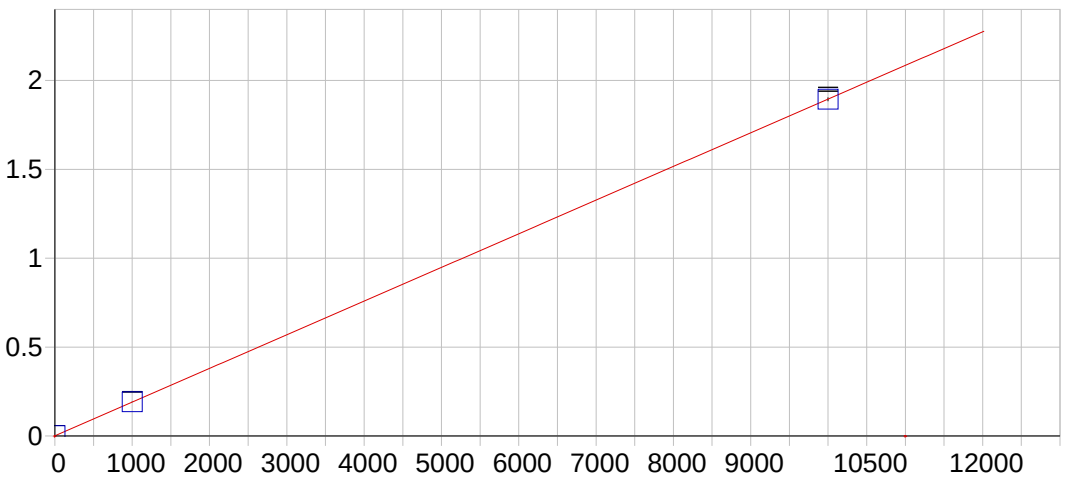


Mg 279.553 {121}

Date of Fit:	12/15/2010 11:05:30	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000344	Re-Slope:	1.000000
A1 (Gain):	0.000204	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.992774	Status:	OK.
Std Error of Est:	0.000653		
Predicted MDL:	0.118315		
Predicted MQL:	0.394383		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	2.9883	2.99	.000	.00095	.000	1
CalibStd=50	50.000	51.366	1.37	2.73	.01083	.000	1
CalibStd=20	20.000	17.525	-2.48	-12.4	.00392	.000	1
CalibStd=10	10.000	8.1209	-1.88	-18.8	.00200	.000	1

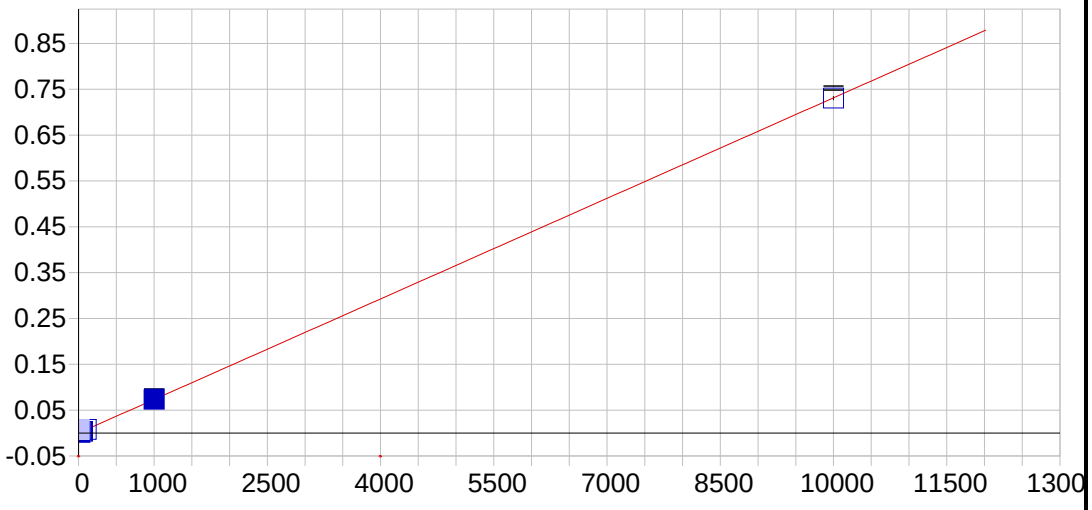


Mg 280.270 {120}

Date of Fit:	12/15/2010 11:21:04	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001096	Re-Slope:	1.000000
A1 (Gain):	0.000189	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000089		
Predicted MDL:	0.161488		
Predicted MQL:	0.538293		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00735	-.007	.000	.00109	.000	1
CalibStd=100	1000.0	1008.2	8.17	.817	.19206	.001	1
CalibStd=100	10000.	9991.8	-8.17	-.082	1.8937	.011	1

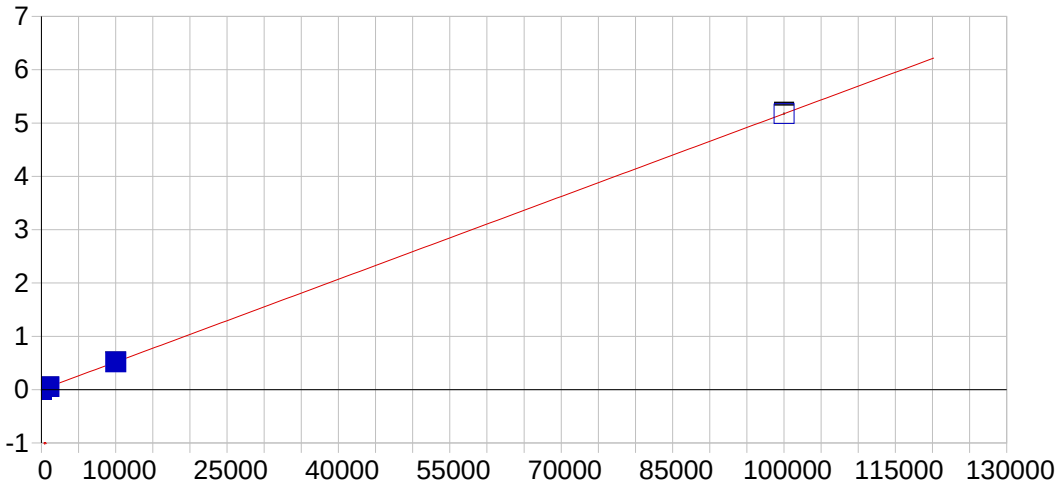


Mn 257.610 {131}

Date of Fit:	12/16/2010 13:19:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000011	Re-Slope:	1.000000
A1 (Gain):	0.000073	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999990	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	0.539962		
Predicted MQL:	1.799873		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00082	-.001	.000	.00001	.000	1
CalibStd=10	10.000	10.547	.547	5.47	.00078	.000	1
CalibStd=50	50.000	50.735	.735	1.47	.00372	.000	1
CalibStd=20	20.000	21.401	1.40	7.01	.00158	.000	1
CalibStd=100	100.00	102.02	2.02	2.02	.00747	.000	1
CalibStd=5	5.0000	98.260	93.3	1870.	.00720	.000	0
CalibStd=100	1000.0	1005.0	5.02	.502	.07352	.000	1
CalibStd=100	10000.	9990.3	-9.72	-.097	.73072	.004	1

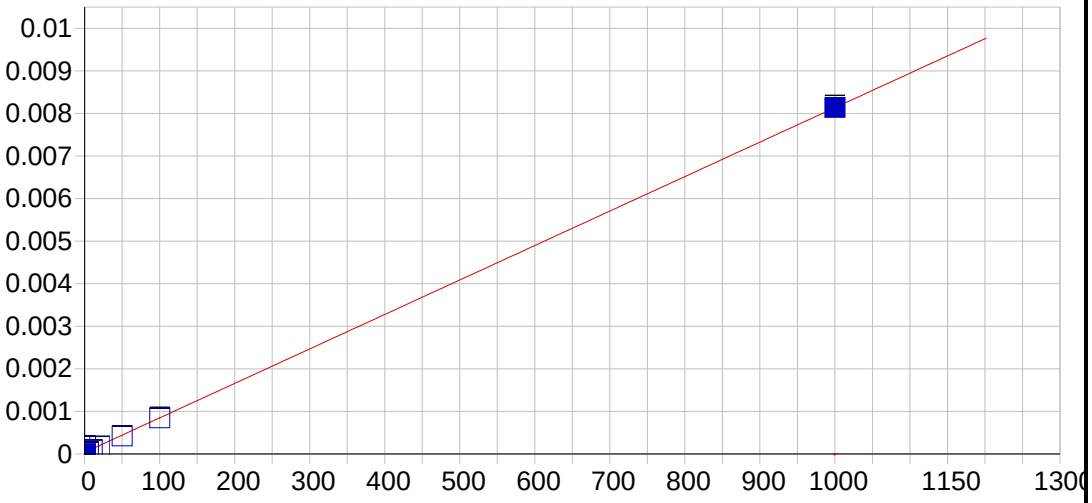


Mn 259.373 {130}

Date of Fit:	12/15/2010 11:26:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000012	Re-Slope:	1.000000
A1 (Gain):	0.000052	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	0.767634		
Predicted MQL:	2.558781		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00846	.008	.000	-.00001	.000	1
CalibStd=100	10000.	9993.7	-6.26	-.063	.51788	.002	1
CalibStd-100	100000.	100010.	14.2	.014	5.1753	.023	1
CalibStd=100	1000.0	992.03	-7.97	-.797	.05140	.000	1

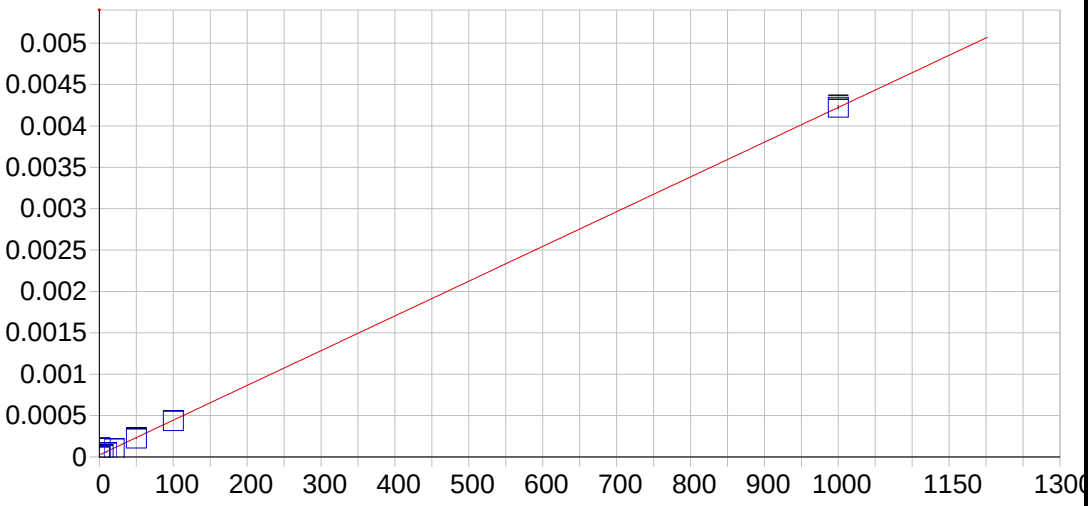


Mo 202.030 {467}

Date of Fit:	12/15/2010 11:15:40	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000038	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999797	Status:	OK.
Std Error of Est:	0.000061		
Predicted MDL:	0.935482		
Predicted MQL:	3.118274		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-4.2992	-4.30	.000	.00000	.000	1
CalibStd=50	50.000	47.327	-2.67	-5.35	.00042	.000	1
CalibStd=1	1.0000	17.740	16.7	1670.	.00018	.000	1
CalibStd=20	20.000	17.204	-2.80	-14.0	.00018	.000	1
CalibStd=10	10.000	6.9220	-3.08	-30.8	.00009	.000	1
CalibStd=100	100.00	99.941	-.059	-.059	.00085	.000	1
CalibStd=5	5.0000	.93513	-4.06	-81.3	.00005	.000	1
CalibStd=100	1000.0	1000.2	.230	.023	.00814	.000	1

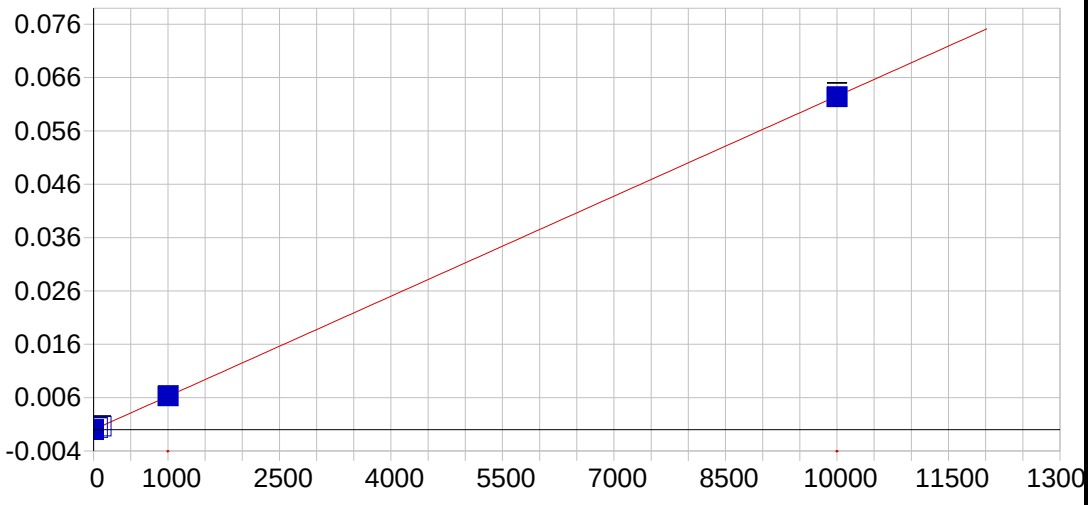


Mo 203.844 {465}

Date of Fit:	12/15/2010 11:15:40	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000024	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999752	Status:	OK.
Std Error of Est:	0.000035		
Predicted MDL:	1.848975		
Predicted MQL:	6.163251		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-5.0004	-5.00	.000	.00000	.000	1
CalibStd=50	50.000	47.989	-2.01	-4.02	.00023	.000	1
CalibStd=1	1.0000	19.569	18.6	1860.	.00011	.000	1
CalibStd=20	20.000	18.030	-1.97	-9.85	.00010	.000	1
CalibStd=10	10.000	6.8916	-3.11	-31.1	.00005	.000	1
CalibStd=100	100.00	98.043	-1.96	-1.96	.00044	.000	1
CalibStd=5	5.0000	.10519	-4.89	-97.9	.00002	.000	1
CalibStd=100	1000.0	1000.4	.373	.037	.00423	.000	1

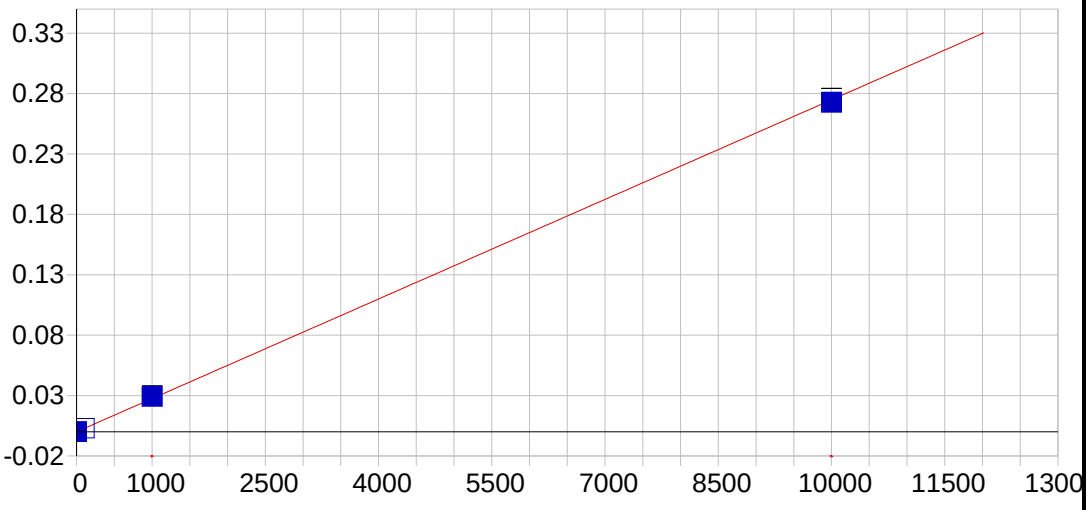


Mo 204.598 {465}

Date of Fit:	12/15/2010 11:21:04	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	1.371314		
Predicted MQL:	4.571048		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00570	-.006	.000	.00000	.000	1
CalibStd=100	1000.0	1012.4	12.4	1.24	.00633	.000	1
CalibStd=100	10000.	9979.6	-20.4	-.204	.06240	.001	1
CalibStd=50	50.000	52.405	2.41	4.81	.00033	.000	1
CalibStd=100	100.00	105.56	5.56	5.56	.00066	.000	1

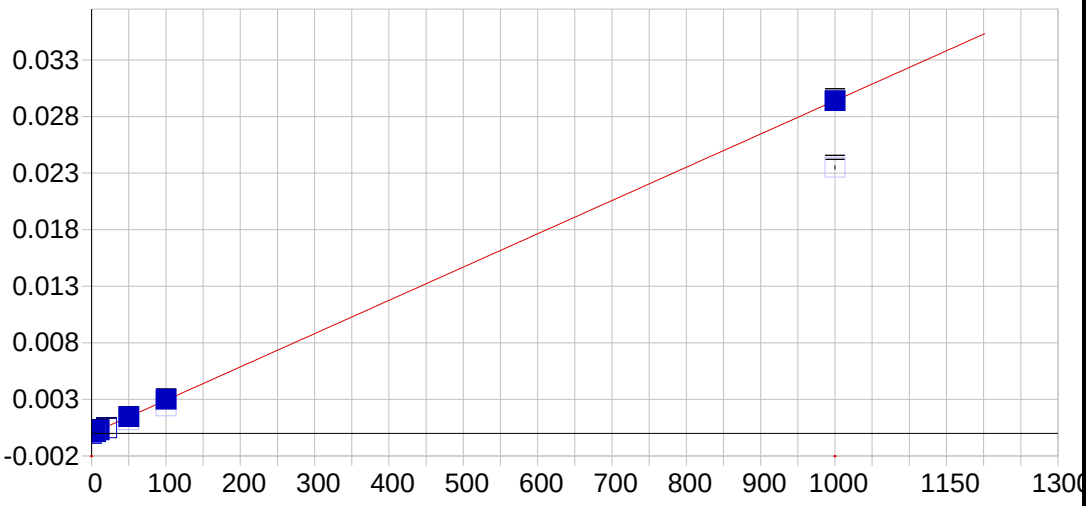


Ni 221.647 {452}

Date of Fit:	12/15/2010 11:21:04	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000027	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999731	Status:	OK.
Std Error of Est:	0.000030		
Predicted MDL:	0.542831		
Predicted MQL:	1.809437		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01746	-.017	.000	.00000	.000	1
CalibStd=100	10000.	9924.9	-75.1	-.751	.27280	.003	1
CalibStd=100	100.00	111.88	11.9	11.9	.00308	.000	1
CalibStd=100	1000.0	1063.3	63.3	6.33	.02923	.000	1

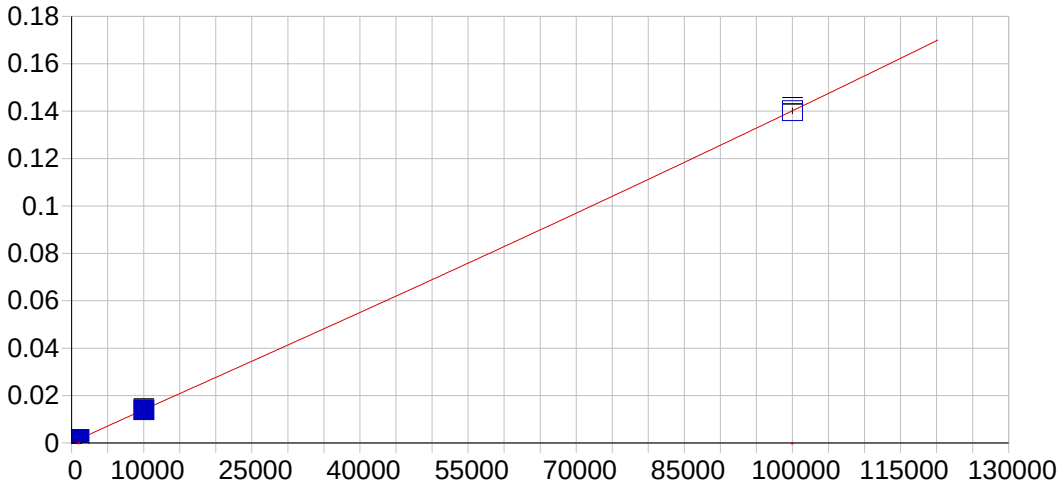


Ni 231.604 {445}

Date of Fit:	12/15/2010 11:15:40	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000014	Re-Slope:	1.000000
A1 (Gain):	0.000029	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999982	Status:	OK.
Std Error of Est:	0.000057		
Predicted MDL:	0.439760		
Predicted MQL:	1.465866		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.11280	-.113	.000	-.00002	.000	1
CalibStd=50	50.000	50.432	.432	.864	.00118	.000	1
CalibStd=20	20.000	16.672	-3.33	-16.6	.00048	.000	1
CalibStd=10	10.000	10.663	.663	6.63	.00024	.000	1
CalibStd=100	100.00	102.63	2.63	2.63	.00242	.000	1
CalibStd=5	5.0000	4.9235	-.077	-1.53	.00010	.000	1
CalibStd=100	1000.0	999.79	-.208	-.021	.02351	.000	1

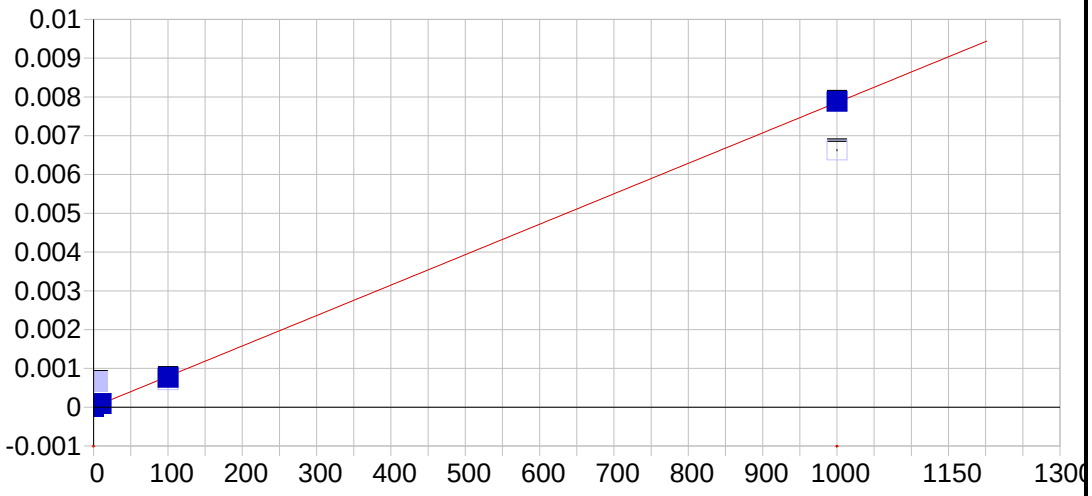


Pb 216.999 {455}

Date of Fit:	12/15/2010 11:26:13	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000009	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	0.970000		
Correlation:	1.000000	Status:	Warning
Std Error of Est:	0.000000		
Predicted MDL:	6.785104		
Predicted MQL:	22.617013		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	2.0049	2.00	.000	.00001	.000	1
CalibStd=100	1000.0	997.18	-2.82	-.282	.00150	.000	1
CalibStd=100	10000.	10000.	.353	.004	.01404	.000	1
CalibStd-100	100000.	100000.	-.003	.000	.14017	.001	1

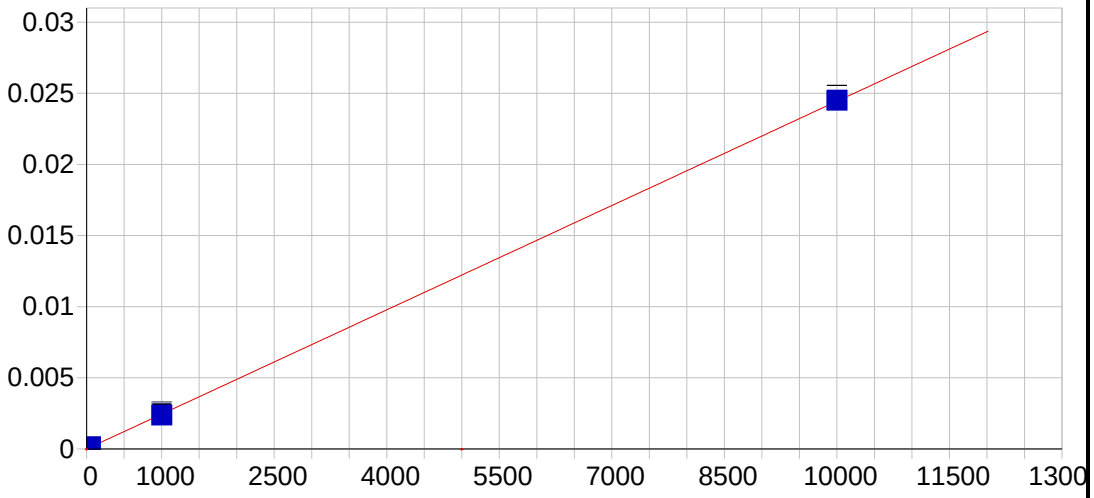


Pb 220.353 {453}

Date of Fit:	12/16/2010 13:20:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000008	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999923	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	1.503130		
Predicted MQL:	5.010432		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00001	.000	1
CalibStd=10	10.000	10.290	.290	2.90	.00008	.000	1
CalibStd=100	100.00	96.775	-3.22	-3.22	.00070	.000	1
CalibStd=5	5.0000	82.981	78.0	1560.	.00066	.000	0
CalibStd=100	1000.0	1003.2	3.21	.321	.00663	.000	1

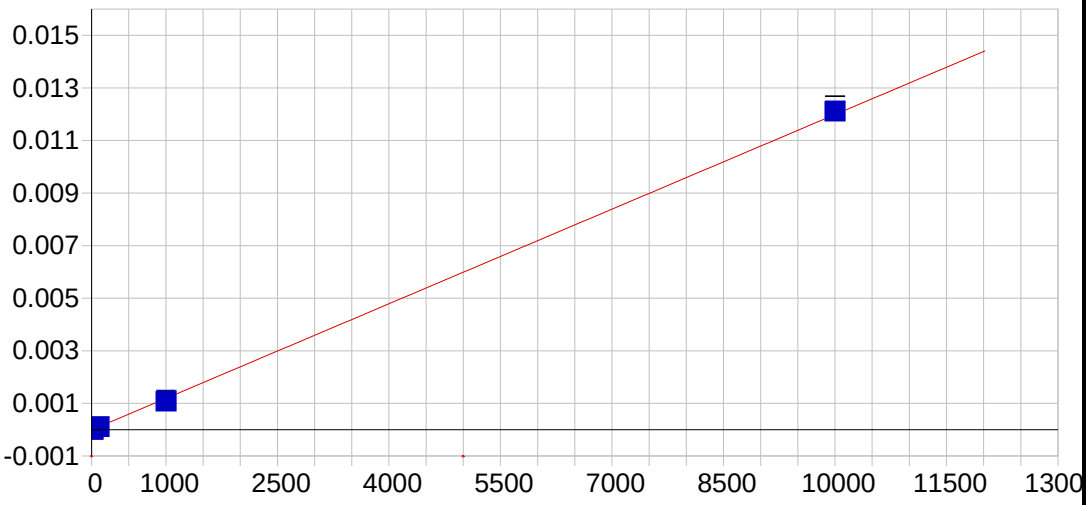


Sb 206.833 {463}

Date of Fit:	12/15/2010 11:21:04	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999945	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	3.741623		
Predicted MQL:	12.472076		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00074	-.001	.000	.00000	.000	1
CalibStd=100	1000.0	970.02	-30.0	-3.00	.00254	.000	1
CalibStd=10	10.000	10.320	.320	3.20	.00003	.000	1
CalibStd=50	50.000	53.438	3.44	6.88	.00014	.000	1
CalibStd=100	10000.	10028.	28.0	.280	.02451	.000	1

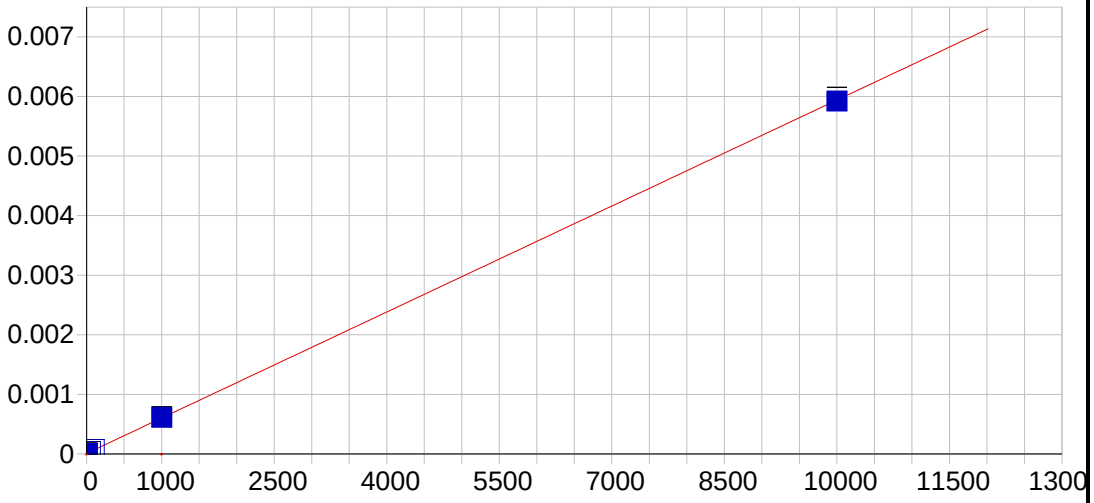


Sb 217.581 {455}

Date of Fit:	12/15/2010 11:21:04	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000009	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999271	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	11.485077		
Predicted MQL:	38.283588		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00505	.005	.000	-.00001	.000	1
CalibStd=100	1000.0	908.20	-91.8	-9.18	.00114	.000	1
CalibStd=20	20.000	8.7451	-11.3	-56.3	.00000	.000	1
CalibStd=10	10.000	11.743	1.74	17.4	.00001	.000	1
CalibStd=100	100.00	96.465	-3.54	-3.54	.00011	.000	1
CalibStd=100	10000.	10110.	110.	1.10	.01212	.000	1

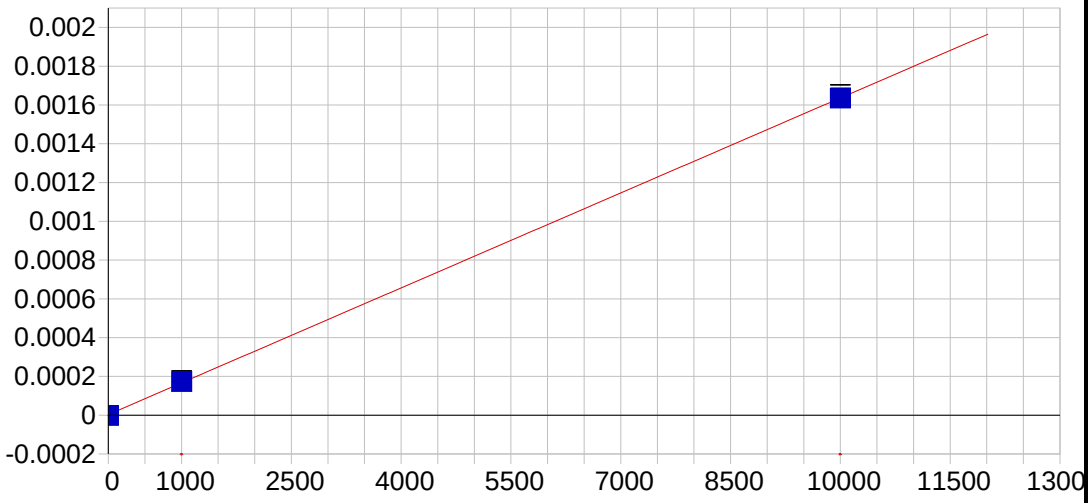


Se 196.090 {472}

Date of Fit:	12/15/2010 11:21:04	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000010	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999833	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	11.615495		
Predicted MQL:	38.718317		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00083	.001	.000	.00001	.000	1
CalibStd=50	50.000	56.246	6.25	12.5	.00004	.000	1
CalibStd=100	1000.0	1017.3	17.3	1.73	.00061	.000	1
CalibStd=10	10.000	6.6024	-3.40	-34.0	.00001	.000	1
CalibStd=100	100.00	111.76	11.8	11.8	.00008	.000	1
CalibStd=100	10000.	9968.0	-32.0	-.320	.00592	.000	1

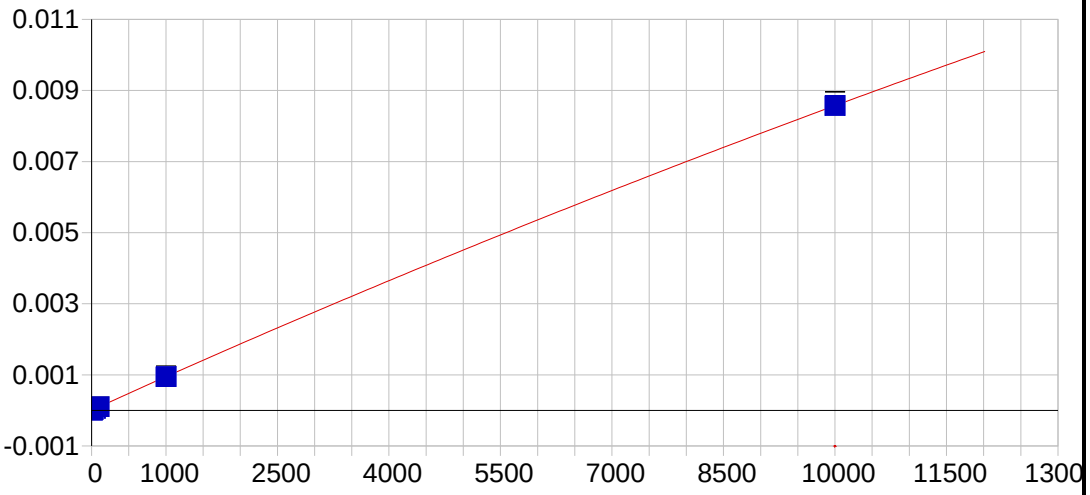


Se 206.279 {463}

Date of Fit:	12/15/2010 11:21:04	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999978	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	52.853619		
Predicted MQL:	176.178732		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-34.363	-34.4	.000	.00000	.000	1
CalibStd=100	1000.0	1038.2	38.2	3.82	.00017	.000	1
CalibStd=100	10000.	9996.2	-3.82	-.038	.00164	.000	1

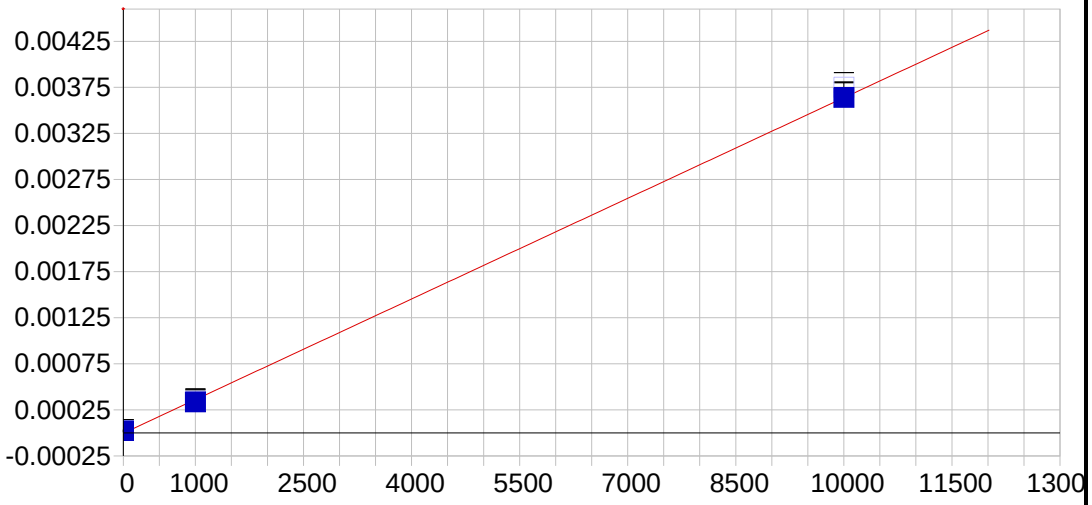


Tl 190.856 {477}

Date of Fit:	12/15/2010 11:21:04	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	-0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.990000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	6.759171		
Predicted MQL:	22.530571		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	3.0007	3.00	.000	.00000	.000	1
CalibStd=50	50.000	53.523	3.52	7.05	.00005	.000	1
CalibStd=100	1000.0	999.96	-.045	-.004	.00095	.000	1
CalibStd=20	20.000	20.697	.697	3.48	.00002	.000	1
CalibStd=100	100.00	99.106	-.894	-.894	.00010	.000	1
CalibStd=10	10.000	3.7175	-6.28	-62.8	.00000	.000	1
CalibStd=100	10000.	10000.	.001	.000	.00857	.000	1

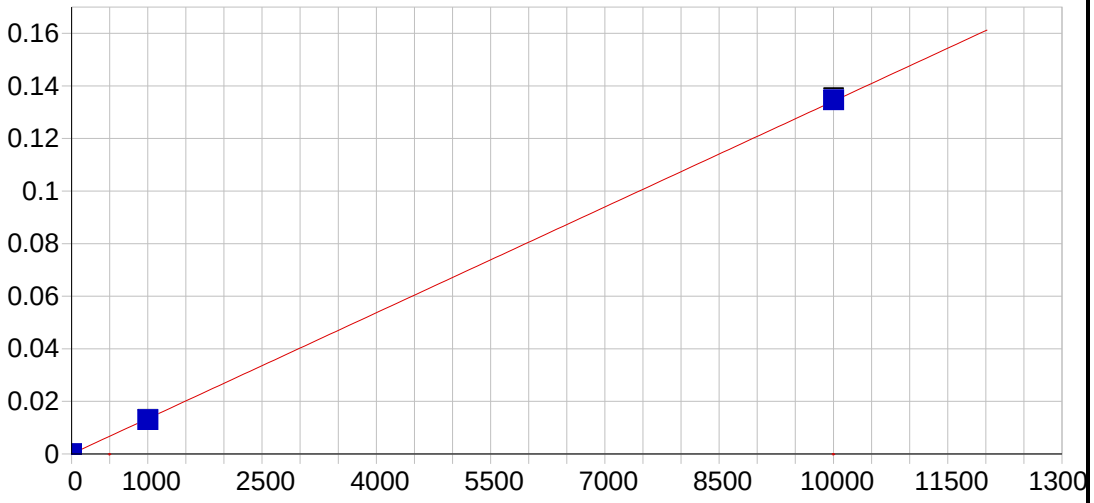


Tl 276.787 {122}

Date of Fit:	12/15/2010 11:21:04	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999924	Status:	OK.
Std Error of Est:	0.000036		
Predicted MDL:	126.528190		
Predicted MQL:	421.760633		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	66.131	66.1	.000	.00002	.000	1
CalibStd=100	1000.0	926.52	-73.5	-7.35	.00035	.000	1
CalibStd=100	10000.	10007.	7.35	.073	.00375	.000	1

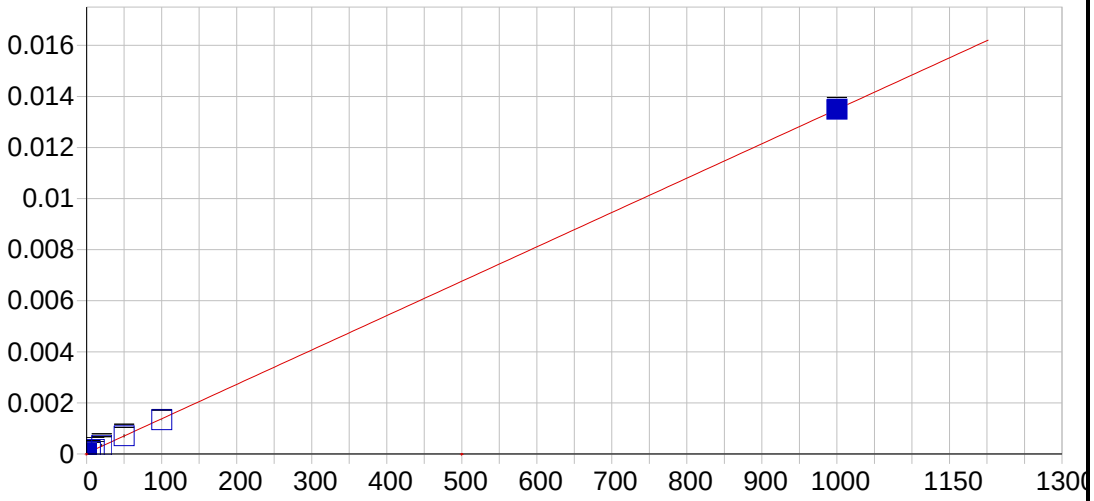


V 290.882 {116}

Date of Fit:	12/15/2010 11:21:04	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000039	Re-Slope:	1.000000
A1 (Gain):	0.000013	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999944	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	4.115932		
Predicted MQL:	13.719772		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.03024	.030	.000	.00004	.000	1
CalibStd=100	1000.0	966.40	-33.6	-3.36	.01301	.000	1
CalibStd=100	10000.	10034.	33.6	.336	.13469	.001	1

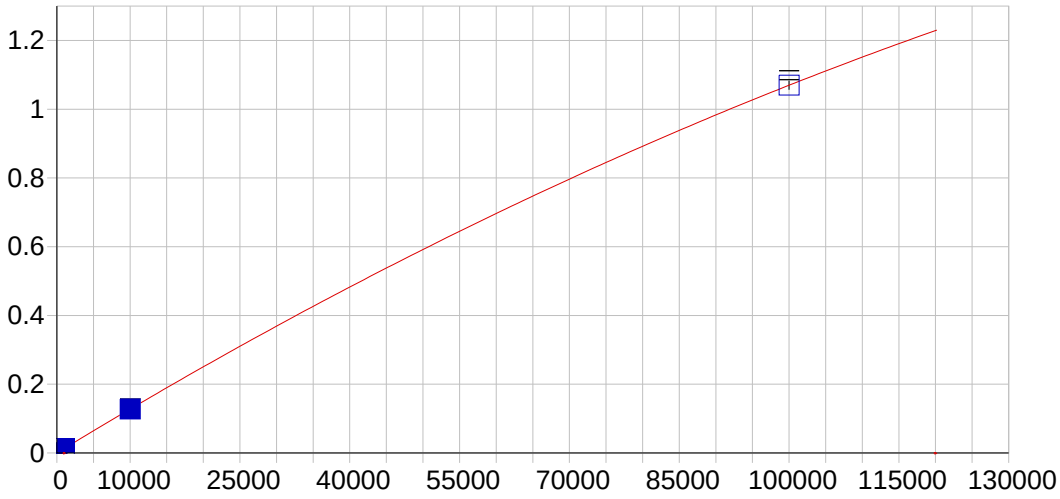


V 292.402 {115}

Date of Fit:	12/15/2010 11:15:40	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000032	Re-Slope:	1.000000
A1 (Gain):	0.000013	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	4.676714		
Predicted MQL:	15.589046		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.22399	.224	.000	.00004	.000	1
CalibStd=50	50.000	50.277	.277	.554	.00071	.000	1
CalibStd=100	1000.0	1000.3	.252	.025	.01350	.000	1
CalibStd=20	20.000	22.641	2.64	13.2	.00034	.000	1
CalibStd=5	5.0000	4.3146	-.685	-13.7	.00009	.000	1
CalibStd=10	10.000	10.496	.496	4.96	.00017	.000	1
CalibStd=100	100.00	96.796	-3.20	-3.20	.00134	.000	1

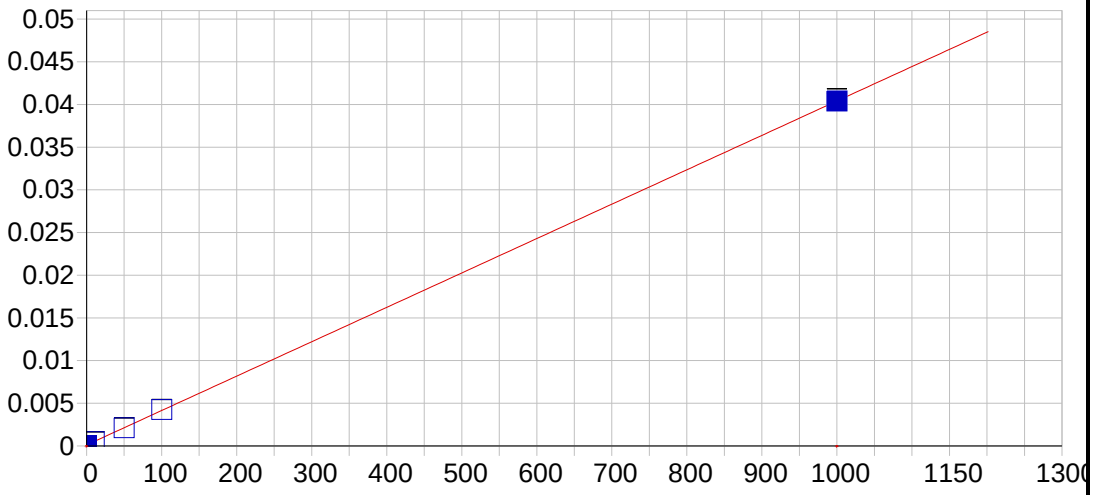


Zn 206.200 {463}

Date of Fit:	12/15/2010 11:26:13	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000095	Re-Slope:	1.000000
A1 (Gain):	0.000013	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.602143		
Predicted MQL:	2.007143		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
CalibStd=100	10000.	9999.2	-.808	-.008	.12758	.002	1
CalibStd-100	100000.	100000.	.011	.000	1.0696	.013	1
Blank	.00000	.00000	.000	.000	.00001	.000	1
CalibStd=100	1000.0	1007.1	7.11	.711	.01314	.000	1

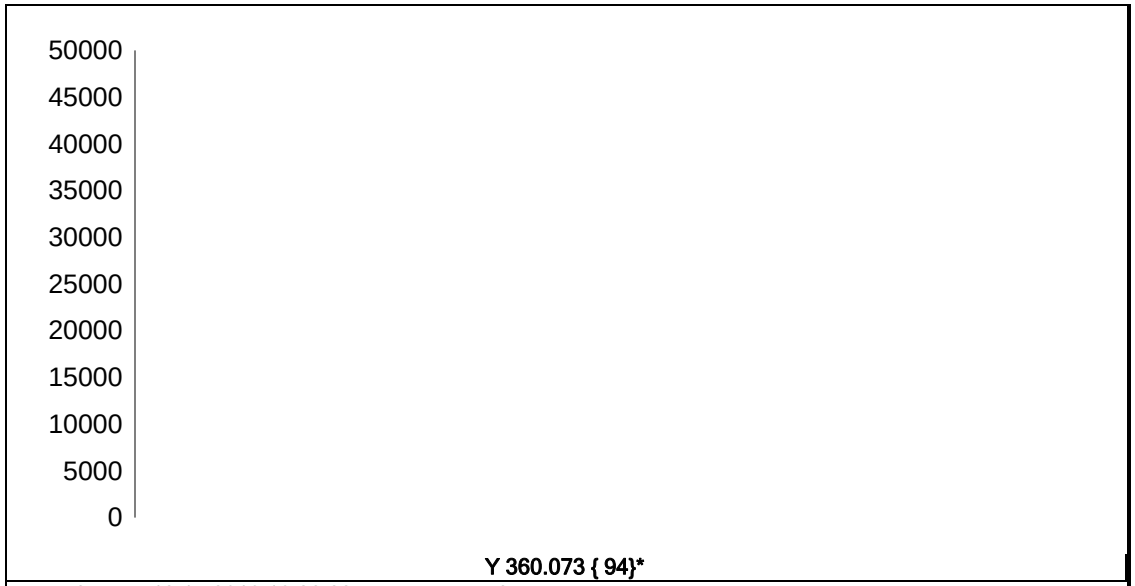


Zn 213.856 {458}

Date of Fit:	12/15/2010 11:15:41	Type of Fit:	Linear	Weighting:	None

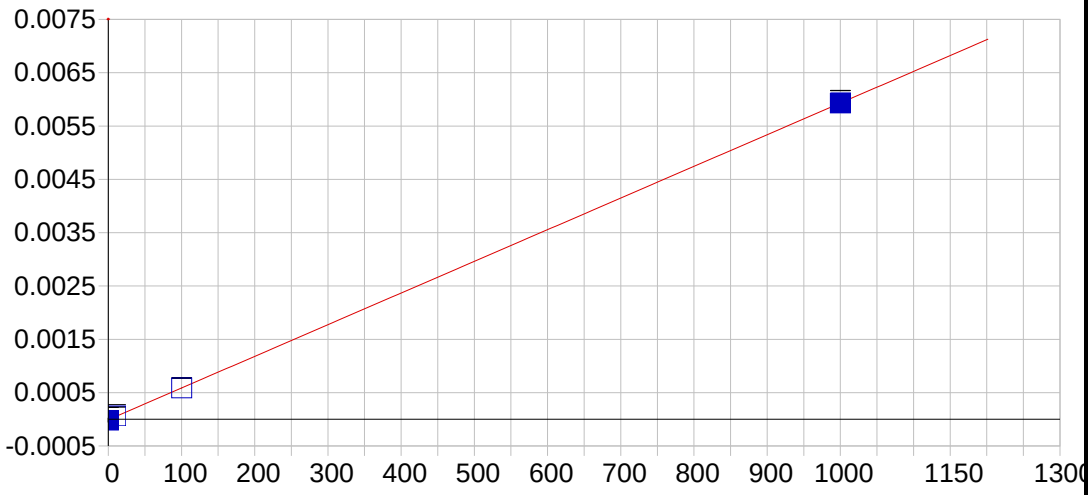
A0 (Offset):	0.000121	Re-Slope:	1.000000
A1 (Gain):	0.000040	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000076		
Predicted MDL:	0.218786		
Predicted MQL:	0.729286		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.2703	-1.27	.000	.00007	.000	1
CalibStd=100	100.00	102.80	2.80	2.80	.00426	.000	1
CalibStd=50	50.000	49.722	-.278	-.556	.00212	.000	1
CalibStd=10	10.000	9.0029	-.997	-9.97	.00048	.000	1
CalibStd=100	1000.0	999.74	-.256	-.026	.04041	.000	1



Date of Fit:	12/15/2010 10:28:22	Type of Fit:	Linear	Weighting:	None	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	43771.	310.	1

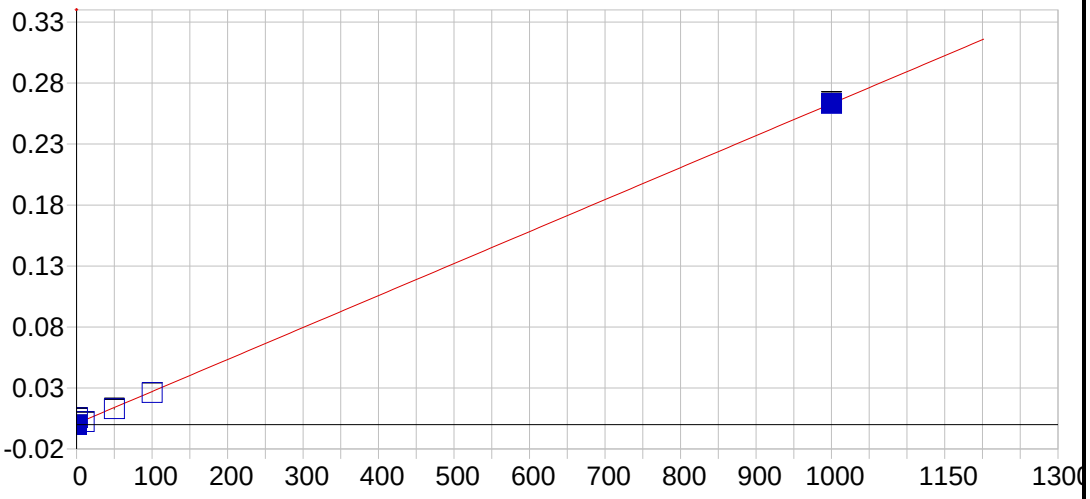


B 249.773 {135}

Date of Fit:	12/15/2010 11:15:41	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000007	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999996	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	6.179735		
Predicted MQL:	20.599116		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.5232	-1.52	.000	-.00002	.000	1
CalibStd=10	10.000	11.641	1.64	16.4	.00006	.000	1
CalibStd=100	100.00	99.888	-.112	-.112	.00059	.000	1
CalibStd=100	1000.0	999.99	-.005	-.001	.00593	.000	1

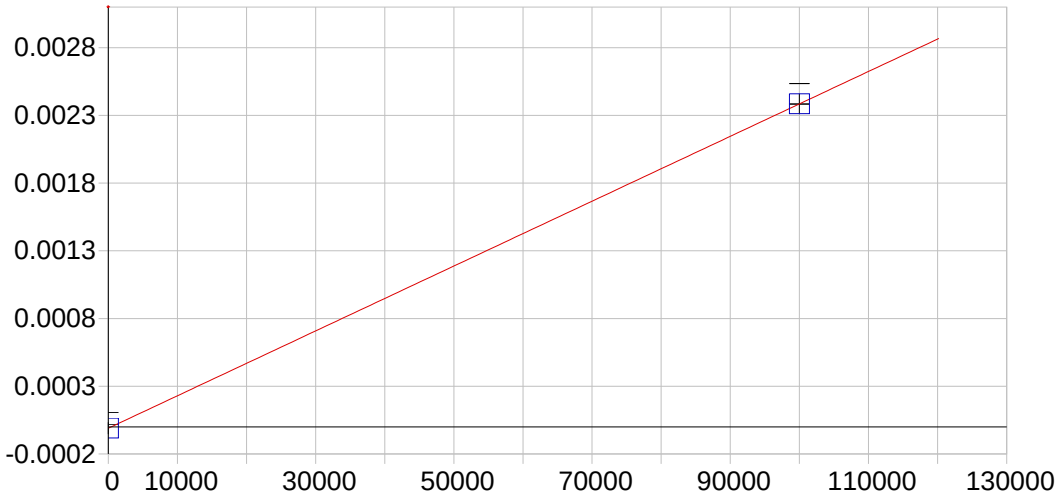


Li 670.784 { 50}

Date of Fit:	12/15/2010 11:15:41	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000858	Re-Slope:	1.000000
A1 (Gain):	0.000262	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999782	Status:	OK.
Std Error of Est:	0.002430		
Predicted MDL:	1.232950		
Predicted MQL:	4.109832		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-4.6249	-4.62	.000	-.00036	.000	1
CalibStd=10	10.000	5.2869	-4.71	-47.1	.00224	.000	1
CalibStd=50	50.000	45.853	-4.15	-8.29	.01288	.000	1
CalibStd=100	100.00	96.469	-3.53	-3.53	.02616	.000	1
CalibStd=100	1000.0	1000.6	.591	.059	.26329	.001	1
CalibStd=1	1.0000	17.426	16.4	1640.	.00543	.000	1

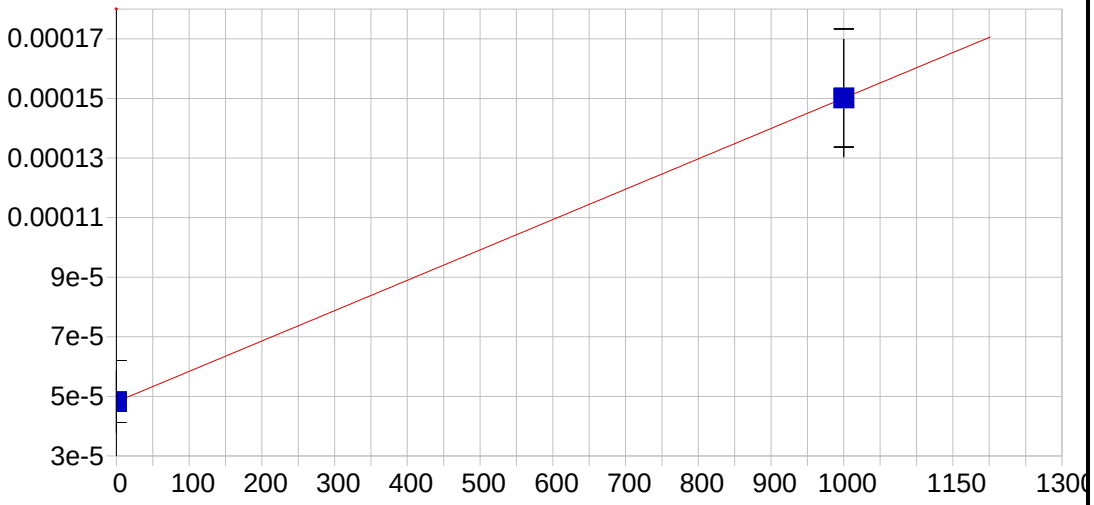


Na 330.298 {102}

Date of Fit:	12/15/2010 11:31:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000010	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	2610.781195		
Predicted MQL:	8702.603985		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00001	.000	1
CalibStd=100	100000.	100000.	.000	.000	.00239	.000	1

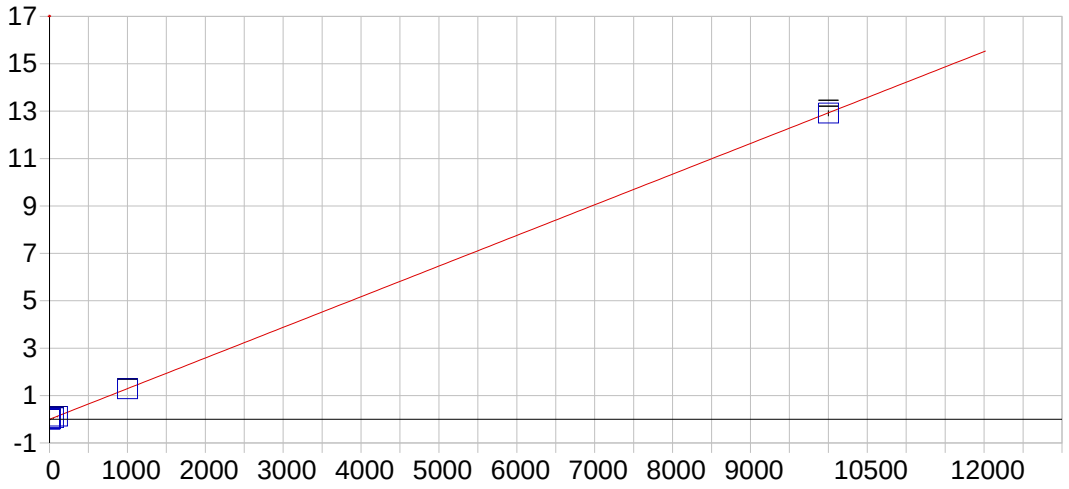


Si 251.611 {134}

Date of Fit:	12/15/2010 11:15:41	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000048	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	358.880982		
Predicted MQL:	1196.269941		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00005	.000	1
CalibStd=100	1000.0	1000.0	.000	.000	.00015	.000	1

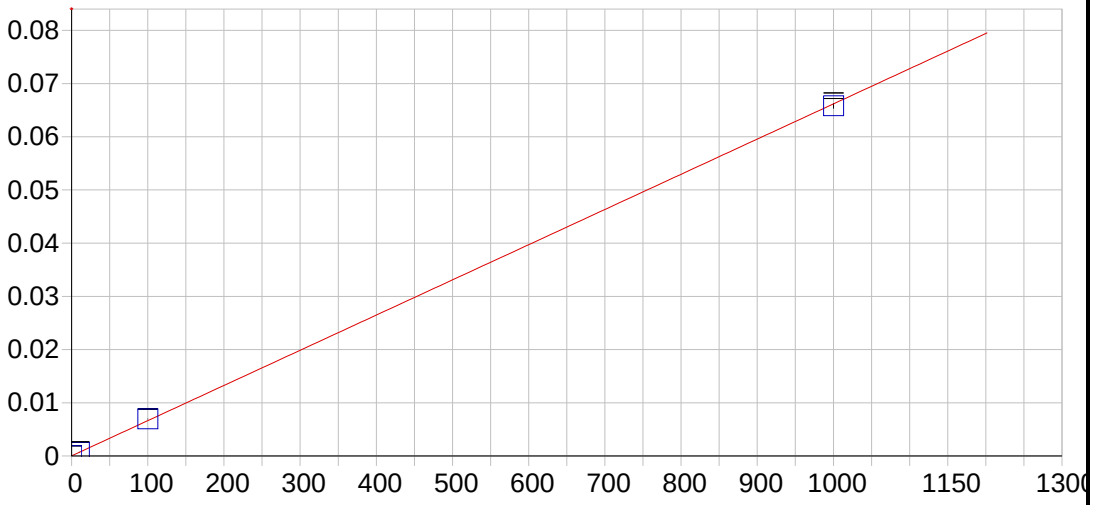


Sr 407.771 { 83}

Date of Fit:	12/15/2010 11:21:04	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001521	Re-Slope:	1.000000
A1 (Gain):	0.001293	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.981067	Status:	OK.
Std Error of Est:	0.000984		
Predicted MDL:	0.087083		
Predicted MQL:	0.290277		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.02102	-.021	.000	-.00155	.000	1
CalibStd=1	1.0000	21.843	20.8	2080.	.02672	.000	1
CalibStd=5	5.0000	5.5321	.532	10.6	.00563	.000	1
CalibStd=10	10.000	10.888	.888	8.88	.01256	.000	1
CalibStd=50	50.000	49.987	-.013	-.025	.06312	.000	1
CalibStd=100	100.00	99.253	-.747	-.747	.12682	.000	1
CalibStd=100	1000.0	990.79	-9.21	-.921	1.2797	.004	1
CalibStd=100	10000.	9987.7	-12.3	-.123	12.913	.126	1



Ti 334.941 {101}

Date of Fit:	12/15/2010 11:15:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000020	Re-Slope:	1.000000
A1 (Gain):	0.000066	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999867	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	0.966604		
Predicted MQL:	3.222014		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00100	-.001	.000	.00002	.000	1
CalibStd=10	10.000	10.575	.575	5.75	.00072	.000	1
CalibStd=100	100.00	104.82	4.82	4.82	.00695	.000	1
CalibStd=100	1000.0	994.60	-5.40	-.540	.06582	.001	1

Sample Name: Blank Acquired: 12/15/2010 10:23:08 Type: Cal
Method: DOD Calibration 1(v1319) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Al3092	Al3961	As1890	As1937	Ba4554	Ba4934	Be2348	Be3130	Ca3179	Ca3933
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.001**	**.000**	**.000**	**.000**	**.000**	**.021**	**.000**	**.000**	**.003**	**.012**
Stddev	.000	.000	.000	.00	.00	.000	.00	.000	.00	.000	.000	.000
%RSD	127.	31.1	12.7	222.	111.	298.	22.3	1.65	84.1	80.2	1.94	.720

Elem	Ca3968	Cd2265	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.004**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.00	.000	.000	.000	.00	.000	.000	.000	.000	.000	.000
%RSD	1.67	51.8	133.	80.0	328.	807.	390.	6.63	144.	24.5	44.5	287.

Elem	Mg2795	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.001**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.00	.000	.00	.000	.00	.000	.000	.000	.00
%RSD	1.26	.694	156.	159.	82.1	932.	1200.	36.8	56.0	115.	24.5	48.6

Elem	Se1960	Se2062	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.00	.000	.000	.000	.000	.000
%RSD	24.0	120.	80.9	68.5	54.4	18.7	7.12

Sample Name: Blank Acquired: 12/15/2010 10:23:08 Type: Cal
Method: DOD Calibration 1(v1319) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**43771.**
Stddev	310.
%RSD	.70839

Sample Name: CalibStd=0.25 Acquired: 12/15/2010 10:28:25 Type: Cal
Method: DOD Calibration 1(v1319) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130
Units	Cts/S
Avg	**.000**
Stddev	.000
%RSD	18.7

Int. Std.	Y_3600
Units	Cts/S
Avg	**42900.**
Stddev	667.
%RSD	1.5544

Sample Name: CalibStd=0.5 Acquired: 12/15/2010 10:33:44 Type: Cal
Method: DOD Calibration 1(v1319) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**.000**	**.000**
Stddev	.000	.000
%RSD	7.93	25.4

Int. Std.	Y_3600
Units	Cts/S
Avg	**43536.**
Stddev	107.
%RSD	.24652

Sample Name: CalibStd=1 Acquired: 12/15/2010 10:39:04 Type: Cal
Method: DOD Calibration 1(v1319) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Cd2265	Mo2020
Units	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**
Stddev	.000	.000	.000
%RSD	372.	11.4	5.75

Int. Std.	Y_3600
Units	Cts/S
Avg	**44593.**
Stddev	145.
%RSD	.32406

Sample Name: CalibStd=5 Acquired: 12/15/2010 10:44:21 Type: Cal
Method: DOD Calibration 1(v1319) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Ba4554	Be3130	Cd2265	Co2286	Mn2576	Mo2020	Ni2316	Pb2203	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.003**	**.004**	**.000**	**.000**	**.007**	**.000**	**.000**	**.001**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	46.1	26.7	9.61	3.57	3.24	8.24	4.56	22.1	12.1	4.55	54.0

Int. Std.	Y_3600
Units	Cts/S
Avg	**43556.**
Stddev	1719.
%RSD	3.9463

Sample Name: CalibStd=10 Acquired: 12/15/2010 10:49:41 Type: Cal
Method: DOD Calibration 1(v1319) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mg2795	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.006**	**.008**	**.001**	**.000**	**.000**	**.000**	**.002**	**.001**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	29.1	21.6	67.1	3.69	2.90	3.98	2.72	15.0	3.67	2.82	4.93	4.47

Elem	Ni2316	Pb2203	Sb2068	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	4.34	5.91	5.20	269.	20.6	197.	38.0	3.03

Int. Std.	Y_3600
Units	Cts/S
Avg	**43591.**
Stddev	1110.
%RSD	2.5454

Sample Name: CalibStd=20 Acquired: 12/15/2010 10:55:01 Type: Cal
Method: DOD Calibration 1(v1319) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Ba4554	Cr2677	Fe2599	Mg2795	Mn2576	Mo2020	Ni2316	Sb2175	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.011**	**.000**	**.000**	**.004**	**.002**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	16.4	2.76	13.5	8.31	2.27	2.09	2.42	3.19	185.	8.36	16.8

Int. Std.	Y_3600
Units	Cts/S
Avg	**43400.**
Stddev	845.
%RSD	1.9471

Sample Name: CalibStd=50 Acquired: 12/15/2010 11:00:19 Type: Cal
Method: DOD Calibration 1(v1319) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	As1937	Ba4554	Ca3933	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2599	Mg2795	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.027**	**.129**	**.004**	**.002**	**.001**	**.001**	**.001**	**.001**	**.011**	**.004**
Stddev	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.27	6.71	.507	.767	.557	.759	9.22	5.57	.922	4.31	.944	.399

Elem	Mo2020	Mo2045	Ni2316	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.001**	**.000**	**.000**	**.000**	**.001**	**.002**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.45	3.36	.319	3.27	12.8	10.8	8.56	.660

Int. Std.	Y_3600
Units	Cts/S
Avg	**44197.**
Stddev	241.
%RSD	.54557

Sample Name: CalibStd=100 Acquired: 12/15/2010 11:05:33 Type: Cal
Method: DOD Calibration 1(v1319) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	As1890	As1937	Ba4554	Be2348	Be3130	Ca3968	Cd2265	Cd2288	Co2286	Cr2677	Cr2835
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.000**	**.000**	**.053**	**.006**	**.078**	**.072**	**.009**	**.008**	**.003**	**.001**	**.002**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	2.45	17.4	2.74	.393	.226	.551	.216	.261	.589	.173	2.45	1.46

Elem	Cu2247	Fe2599	Mn2576	Mo2020	Mo2045	Ni2216	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.001**	**.007**	**.001**	**.001**	**.003**	**.002**	**.001**	**.000**	**.000**	**.000**	**.001**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	.142	3.21	.866	1.62	.895	.638	.649	2.16	8.05	1.29	7.28	1.01

Elem	Zn2138
Units	Cts/S
Avg	**.004**
Stddev	.000
%RSD	.377

Int. Std.	Y_3600
Units	Cts/S
Avg	**44046.**
Stddev	184.
%RSD	.41688

Sample Name: CalibStd=1000 Acquired: 12/15/2010 11:10:46 Type: Cal
Method: DOD Calibration 1(v1319) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Al3092	Al3961	As1890	As1937	Ba4934	Be2348	Be3130	Ca3179	Ca3933	Ca3968	Cd2265
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.005**	**.012**	**.000**	**.001**	**.601**	**.057**	**.756**	**.012**	**1.83**	**.667**	**.084**
Stddev	.000	.000	.000	.000	.000	.003	.000	.002	.000	.01	.003	.000
%RSD	.746	1.06	.382	1.24	.912	.526	.249	.260	.356	.446	.463	.473

Elem	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790	Mg2802	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.075**	**.032**	**.005**	**.011**	**.015**	**.017**	**.001**	**.004**	**.012**	**.001**	**.192**	**.074**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000
%RSD	.617	.761	.700	.940	.702	.436	1.09	.077	.598	1.61	.588	.379

Elem	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960	Se2062	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.051**	**.008**	**.006**	**.029**	**.024**	**.001**	**.007**	**.003**	**.001**	**.001**	**.000**	**.001**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	.407	.623	.725	.916	.746	.279	.396	1.14	.365	1.35	2.12	1.11

Elem	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.013**	**.013**	**.013**	**.040**
Stddev	.000	.000	.000	.000
%RSD	.806	.498	.369	.653

Sample Name: CalibStd=1000 Acquired: 12/15/2010 11:10:46 Type: Cal
Method: DOD Calibration 1(v1319) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**44760.**
Stddev	199.
%RSD	.44433

Sample Name: CalibStd=10000 Acquired: 12/15/2010 11:15:44 Type: Cal
Method: DOD Calibration 1(v1319) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	As1890	Ba4934	Ca3179	Ca3968	Co2388	Cr2835	Cu2247	Fe2343	Fe2395	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.041**	**.118**	**.004**	**5.88**	**.097**	**6.53**	**.046**	**.156**	**.161**	**.012**	**.037**	**.011**
Stddev	.001	.000	.000	.06	.001	.10	.000	.001	.002	.000	.000	.000
%RSD	1.51	.287	1.58	1.04	1.13	1.54	.501	.595	1.22	.705	.745	1.32

Elem	Mg2802	Mn2576	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175	Se1960	Se2062	Tl1908	V_2908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.89**	**.731**	**.518**	**.062**	**.273**	**.014**	**.025**	**.012**	**.006**	**.002**	**.009**	**.135**
Stddev	.01	.004	.002	.001	.003	.000	.000	.000	.000	.000	.000	.001
%RSD	.572	.599	.470	1.16	1.13	1.28	1.36	1.50	1.05	1.01	1.27	.466

Elem	Zn2062
Units	Cts/S
Avg	**.128**
Stddev	.002
%RSD	1.18

Int. Std.	Y_3600
Units	Cts/S
Avg	**43765.**
Stddev	575.
%RSD	1.3138

Sample Name: CalibStd-100k Acquired: 12/15/2010 11:21:08 Type: Cal
Method: DOD Calibration 1(v1319) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Cr2835	Mn2593	Pb2169	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.57**	**5.18**	**.140**	**1.07**
Stddev	.01	.02	.001	.01
%RSD	.389	.452	.946	1.22

Int. Std.	Y_3600
Units	Cts/S
Avg	**43988.**
Stddev	488.
%RSD	1.1101

Sample Name: CalibStd=100000 Acquired: 12/15/2010 11:26:17 Type: Cal
Method: DOD Calibration 1(v1319) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.406**	1.18	**.951**	**.118**	**.134**
Stddev	.009	.03	.022	.003	.003
%RSD	2.21	2.27	2.33	2.47	2.22

Int. Std.	Y_3600
Units	Cts/S
Avg	**42467.**
Stddev	1085.
%RSD	2.5548

Sample Name: CalibStd=500000 Acquired: 12/15/2010 11:31:51 Type: Cal
Method: DOD Calibration 1(v1319) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	Ca3179	Fe2343	Fe2395	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.11**	**6.13**	**4.50**	**.546**	**1.64**	**.680**
Stddev	.02	.07	.05	.007	.02	.008
%RSD	1.05	1.12	1.10	1.30	1.16	1.17

Int. Std.	Y_3600
Units	Cts/S
Avg	**40150.**
Stddev	509.
%RSD	1.2683

Sample Name: CalibStd-1000k Acquired: 12/15/2010 11:37:33 Type: Cal
Method: DOD Calibration 1(v1319) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11.6**	**8.22**	**.992**	**1.29**
Stddev	.1	.05	.002	.01
%RSD	.743	.605	.191	.363

Int. Std.	Y_3600
Units	Cts/S
Avg	**38928.**
Stddev	116.
%RSD	.29872

Sample Name: icv Acquired: 12/15/2010 11:48:46 Type: QC
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247	Fe2343
Avg	**110.**	**11900.**	**2140.**	**2110.**	**52.9**	**10500.**	**51.5**	**517.**	**210.**	**259.**	**5270.**
Stddev	2.	223.	10.	40.	.8	162.	.7	9.	5.	3.	65.
%RSD	1.50	1.88	.444	1.90	1.47	1.55	1.42	1.73	2.51	1.24	1.24
Check ?	None	None	None	None	None	None	None	None	None	None	None
Value											
Range											

Elem	Mg2802	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2908	Zn2138
Avg	**10600.**	**524.**	**530.**	**509.**	**519.**	**516.**	**2190.**	**2080.**	**522.**	**527.**
Stddev	152.	8.	8.	7.	7.	4.	46.	44.	7.	7.
%RSD	1.44	1.48	1.48	1.36	1.26	.704	2.11	2.10	1.40	1.34
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	**44039.**
Stddev	487.
%RSD	1.1065

Sample Name: icb Acquired: 12/15/2010 11:54:06 Type: QC
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**.225**	**-5.72**	**-2.81**	**.139**	**-.001**	**-11.2**	**-.009**	**-.288**	**-1.47**	**-.319**	**-5.53**	**-3.47**
Stddev	2.88	3.23	6.17	.208	.017	.1	.024	.213	2.24	.566	.45	.16
%RSD	1280.	56.5	220.	150.	1240.	.710	270.	73.9	152.	177.	8.15	4.66
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**-.346**	**-3.36**	**.309**	**.235**	**6.48**	**-2.91**	**.351**	**1.46**	**-.740**
Stddev	.768	.34	.226	1.32	4.24	15.6	7.06	3.06	.198
%RSD	222.	10.2	73.0	564.	65.5	536.	2010.	210.	26.8
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**42771.**
Stddev	1721.
%RSD	4.0237

Sample Name: MRL Acquired: 12/15/2010 12:04:43 Type: QC
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**17.1**	**441.**	**12.6**	**11.2**	**4.39**	**534.**	**5.32**	**10.7**	**11.8**	**11.1**	**325.**	**544.**
Stddev	5.6	14.	5.3	.3	.14	9.	.33	.3	2.0	.7	9.	8.
%RSD	33.1	3.08	41.9	2.63	3.08	1.67	6.14	2.46	16.7	6.14	2.69	**1.44**
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**11.4**	**7.38**	**11.1**	**9.81**	**24.5**	**7.99**	**20.2**	**11.6**	**11.6**
Stddev	.3	.25	.6	1.01	2.2	2.30	1.9	.9	.4
%RSD	2.95	3.35	5.54	10.3	8.89	28.8	9.25	7.83	3.87
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**44201.**
Stddev	985.
%RSD	2.2285

Sample Name: icsa Acquired: 12/15/2010 12:09:58 Type: QC
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Avg	**.000**	**549000.**	**.003**	**.000**	**.033**	**596000.**	**.014**	**.108**	**.000**	**.000**
Stddev	2.11	207.	3.68	.254	.085	3820.	1.07	.273	7.27	1.26
%RSD	476e15	.038	118000.	261e15	259.	.641	7870.	252.	6269e6	1630000.
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Avg	**531000.**	**552000.**	**.100**	**.000**	**.436**	**.122**	**.000**	**-.001**	**.082**	**.163**
Stddev	936.	770.	.059	3.14	.409	2.38	8.78	31.3	11.4	3.67
%RSD	.176	.140	59.1	10e6	93.7	1950.	7380000.	3960000.	13900.	2250.
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Zn2138
Avg	**.000**
Stddev	.51
%RSD	593000.
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: icsa Acquired: 12/15/2010 12:09:58 Type: QC
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**39973.**
Stddev	140.
%RSD	.35093

Sample Name: icsab Acquired: 12/15/2010 12:15:40 Type: QC
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2286	Cr2835	Cu2247
Avg	**558.**	**557000.**	**593.**	**599.**	**535.**	**596000.**	**555.**	**498.**	**511.**	**541.**
Stddev	6.	5050.	21.	7.	9.	6470.	5.	6.	10.	6.
%RSD	1.06	.906	3.46	1.16	1.76	1.09	.970	1.11	2.05	1.10
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2908
Avg	**536000.**	**547000.**	**599.**	**565.**	**485.**	**448.**	**549.**	**555.**	**440.**	**567.**
Stddev	6090.	6850.	7.	6.	7.	5.	4.	12.	13.	12.
%RSD	1.14	1.25	1.15	1.15	1.45	1.06	.740	2.16	2.99	2.11
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Zn2138
Avg	**567.**
Stddev	6.
%RSD	.984
Check ?	None
Value	
Range	

Sample Name: icsab Acquired: 12/15/2010 12:15:40 Type: QC
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**39988.**
Stddev	436.
%RSD	1.0898

Sample Name: ccv1 Acquired: 12/15/2010 22:07:31 Type: QC
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2265	Co2388	Cr2835	Cu2247	Fe2343	Mg2802
Avg	**397.**	**4980.**	**5150.**	**5320.**	**492.**	**5110.**	**505.**	**5300.**	**5210.**	**5320.**	**5250.**	**5370.**
Stddev	3.	42.	10.	4.	4.	20.	1.	18.	16.	15.	15.	13.
%RSD	.682	.833	.202	.080	.726	.388	.252	.329	.310	.274	.287	.238
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908	Zn2062
Avg	**5410.**	**5090.**	**5020.**	**4990.**	**4630.**	**5110.**	**4720.**	**5380.**	**5200.**
Stddev	16.	23.	31.	47.	32.	5.	49.	32.	6.
%RSD	.287	.444	.607	.940	.686	.105	1.03	.598	.110
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**42202.**
Stddev	160.
%RSD	.37820

Sample Name: ccv2 Acquired: 12/15/2010 22:12:40 Type: QC
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4934	Be3130	Ca3933	Cd2265	Co2286	Co2388	Cr2835	Cu2247	Fe2599
Avg	**43.4**	**573.**	**546.**	**539.**	**55.4**	**565.**	**54.7**	**529.**	**537.**	**536.**	**556.**	**527.**
Stddev	2.5	2.	8.	1.	.2	.	.2	2.	5.	3.	2.	4.
%RSD	5.86	.404	1.41	.113	.299	.057	.297	.385	.861	.537	.275	.697
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2908	Zn2138
Avg	**541.**	**529.**	**532.**	**527.**	**505.**	**549.**	**508.**	**543.**	**526.**
Stddev	2.	1.	1.	2.	3.	7.	14.	5.	2.
%RSD	.460	.187	.121	.410	.573	1.22	2.76	.919	.389
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**42008.**
Stddev	156.
%RSD	.37232

Sample Name: ccb Acquired: 12/15/2010 22:23:02 Type: QC
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**-5.19**	**-.406**	**1.98**	**.738**	**.053**	**11.1**	**.164**	**.483**	**-.033**	**.237**	**-.578**	**4.81**
Stddev	1.89	1.68	1.25	.178	.059	.6	.144	.141	4.52	.530	1.16	.09
%RSD	36.5	414.	63.3	24.1	112.	5.12	87.5	29.3	13700.	224.	201.	1.86
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**.603**	**-3.77**	**.686**	**.013**	**2.43**	**-2.16**	**2.25**	**-.040**	**-.387**
Stddev	.252	.31	.058	1.64	3.46	13.1	3.03	2.92	.030
%RSD	41.7	8.12	8.44	12700.	142.	606.	135.	7350.	7.74
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**43152.**
Stddev	993.
%RSD	2.3009

Sample Name: lcss35793 Acquired: 12/15/2010 22:56:13 Type: Unk
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**85.6**	**4160.**	**3980.**	**4210.**	**105.**	**199000.**	**93.2**	**1020.**	**418.**	**466.**
Stddev	1.8	27.	39.	13.	.	813.	.4	8.	4.	2.
%RSD	2.07	.658	.981	.316	.208	.408	.419	.767	1.07	.509

Elem	Fe2599	Mg2790	Mn2576	Mo2045	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2040.**	**97400.**	**1030.**	**2040.**	**921.**	**886.**	**845.**	**3850.**	**3220.**	**1040.**
Stddev	6.	191.	4.	2.	2.	3.	6.	35.	14.	3.
%RSD	.307	.196	.426	.100	.236	.391	.707	.897	.444	.270

Elem	Zn2138
Units	ug/L
Avg	**964.**
Stddev	3.
%RSD	.310

Int. Std.	Y_3600
Units	Cts/S
Avg	**39712.**
Stddev	176.
%RSD	.44384

Sample Name: mbs35793 Acquired: 12/15/2010 23:01:38 Type: Unk
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.123**	**18.2**	**-.779**	**1.14**	**-.031**	**63.6**	**-.003**	**-.244**	**2.41**	**-1.01**	**34.2**	**17.6**
Stddev	6.90	1.3	1.86	.15	.056	1.5	.105	.184	.62	.32	3.1	.5
%RSD	5620.	6.94	238.	13.3	178.	2.29	3630.	75.1	25.7	31.4	8.99	3.05

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.04**	**-.281**	**-.194**	**.090**	**3.43**	**1.71**	**-1.69**	**1.61**	**.361**
Stddev	.53	.761	.171	1.16	4.38	12.0	3.84	1.86	.120
%RSD	25.9	271.	87.7	1290.	128.	701.	228.	116.	33.2

Int. Std.	Y_3600
Units	Cts/S
Avg	**42191.**
Stddev	513.
%RSD	1.2148

Sample Name: 877664 Acquired: 12/15/2010 23:06:58 Type: Unk
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-5.82**	**197000.**	**284.**	**2210.**	**19.6**	**380000.**	**13.3**	**194.**	**1550.**	**450.**
Stddev	.36	636.	13.	11.	.0	769.	.1	.	6.	1.
%RSD	6.24	.323	4.73	.490	.036	.203	.576	.173	.405	.297

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**393000.**	**77500.**	**16700.**	**27.7**	**415.**	**1150.**	**12.4**	**17.9**	**1.22**	**326.**
Stddev	1020.	195.	32.	1.8	1.	17.	2.8	13.4	8.23	4.
%RSD	.259	.252	.191	6.41	.253	1.47	23.0	74.9	677.	1.15

Elem	Zn2062
Units	ug/L
Avg	**1990.**
Stddev	15.
%RSD	.744

Int. Std.	Y_3600
Units	Cts/S
Avg	**41811.**
Stddev	99.
%RSD	.23639

Sample Name: I877664 Acquired: 12/15/2010 23:12:22 Type: Unk
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2343
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-1.73**	**37100.**	**63.5**	**398.**	**3.64**	**69500.**	**2.60**	**40.2**	**315.**	**95.5**	**76100.**
Stddev	3.52	222.	5.3	1.	.09	98.	.19	.2	2.	.2	146.
%RSD	204.	.599	8.36	.369	2.34	.141	7.30	.478	.570	.255	.192

Elem	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**13600.**	**3140.**	**1.55**	**87.5**	**282.**	**2.68**	**-5.18**	**1.61**	**62.1**	**429.**
Stddev	118.	18.	.20	.7	1.	2.80	11.3	5.13	2.2	3.
%RSD	.866	.564	13.1	.777	.451	104.	219.	319.	3.48	.705

Int. Std.	Y_3600
Units	Cts/S
Avg	**43164.**
Stddev	213.
%RSD	.49401

Sample Name: dup877664 Acquired: 12/15/2010 23:17:41 Type: Unk
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-3.08**	**194000.**	**283.**	**2150.**	**19.2**	**371000.**	**9.87**	**190.**	**1470.**	**461.**
Stddev	.93	642.	8.	3.	.1	2170.	.45	1.	14.	2.
%RSD	30.2	.330	2.67	.134	.494	.585	4.50	.612	.950	.461

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2169	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**378000.**	**73900.**	**16600.**	**26.2**	**401.**	**1270.**	**9.32**	**14.5**	**5.91**	**318.**
Stddev	1720.	573.	89.	1.4	3.	15.	6.24	3.4	5.77	1.
%RSD	.454	.776	.536	5.23	.868	1.19	66.9	23.7	97.6	.436

Elem	Zn2062
Units	ug/L
Avg	**2000.**
Stddev	19.
%RSD	.967

Int. Std.	Y_3600
Units	Cts/S
Avg	**41567.**
Stddev	217.
%RSD	.52129

Sample Name: ccv1 Acquired: 12/15/2010 23:23:03 Type: QC
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2265	Co2388	Cr2835	Cu2247	Fe2343	Mg2802
Avg	**399.**	**5010.**	**5140.**	**5370.**	**492.**	**5110.**	**507.**	**5270.**	**5210.**	**5320.**	**5280.**	**5360.**
Stddev	3.	52.	55.	34.	7.	49.	5.	32.	36.	49.	22.	44.
%RSD	.712	1.03	1.06	.627	1.38	.955	1.01	.601	.696	.928	.418	.823
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908	Zn2062
Avg	**5390.**	**5080.**	**5010.**	**4980.**	**4600.**	**5060.**	**4720.**	**5360.**	**5220.**
Stddev	49.	66.	66.	66.	61.	42.	73.	42.	36.
%RSD	.907	1.29	1.32	1.33	1.33	.829	1.54	.778	.697
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**42406.**
Stddev	419.
%RSD	.98896

Sample Name: ccv2 Acquired: 12/15/2010 23:28:14 Type: QC
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4934	Be3130	Cd2265	Co2286	Cr2835	Cu2247	Fe2599	Mn2576	Mo2020
Avg	**42.8**	**562.**	**530.**	**540.**	**54.9**	**53.9**	**521.**	**529.**	**550.**	**532.**	**534.**	**519.**
Stddev	2.2	6.	2.	2.	.3	.3	2.	3.	1.	6.	3.	1.
%RSD	5.09	1.15	.381	.371	.492	.547	.428	.632	.168	1.16	.529	.243
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2908	Zn2138
Avg	**525.**	**519.**	**497.**	**546.**	**493.**	**536.**	**520.**
Stddev	4.	2.	2.	13.	13.	3.	2.
%RSD	.696	.291	.452	2.40	2.71	.641	.354
Check ?	None	None	None	None	None	None	None
Value							
Range							

Int. Std.	Y_3600
Avg	**42468.**
Stddev	181.
%RSD	.42567

Sample Name: ccb Acquired: 12/15/2010 23:38:36 Type: QC
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**-.275**	**.247**	**.186**	**1.26**	**.091**	**12.8**	**.151**	**.510**	**2.34**	**-.081**	**.679**	**5.47**
Stddev	.996	1.32	4.64	.16	.041	.4	.211	.210	5.29	.499	1.23	.24
%RSD	362.	534.	2500.	12.9	45.1	3.11	140.	41.1	226.	618.	181.	4.46
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**1.01**	**-2.94**	**.537**	**.383**	**3.53**	**3.49**	**-.882**	**1.19**	**-.317**
Stddev	.33	.55	.118	.495	1.95	7.43	2.59	2.20	.134
%RSD	32.7	18.5	21.9	129.	55.1	213.	294.	184.	42.2
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**42469.**
Stddev	763.
%RSD	1.7974

Sample Name: mss877664 Acquired: 12/15/2010 23:43:55 Type: Unk
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**39.5**	**287000.**	**2040.**	**4250.**	**65.7**	**458000.**	**51.0**	**527.**	**1510.**	**629.**
Stddev	1.9	345.	13.	9.	.4	3250.	.2	1.	3.	1.
%RSD	4.92	.120	.612	.221	.577	.710	.388	.280	.187	.108

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2169	Sb2068	Se2062	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**450000.**	**118000.**	**25000.**	**822.**	**721.**	**1280.**	**66.8**	**1560.**	**1220.**	**705.**
Stddev	124.	188.	18.	3.	14.	10.	4.7	128.	7.	16.
%RSD	.027	.159	.072	.377	1.92	.749	7.09	8.24	.594	2.20

Elem	Zn2062
Units	ug/L
Avg	**2350.**
Stddev	7.
%RSD	.309

Int. Std.	Y_3600
Units	Cts/S
Avg	**41270.**
Stddev	74.
%RSD	.17930

Sample Name: msds877664 Acquired: 12/15/2010 23:49:23 Type: Unk
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**33.3**	**283000.**	**2050.**	**4130.**	**64.9**	**445000.**	**48.9**	**522.**	**1480.**	**635.**
Stddev	4.0	605.	17.	9.	.3	1640.	.6	2.	13.	5.
%RSD	12.0	.214	.844	.213	.413	.369	1.14	.336	.865	.742

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2169	Sb2068	Se2062	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**440000.**	**114000.**	**25400.**	**826.**	**725.**	**1400.**	**69.1**	**1620.**	**1210.**	**708.**
Stddev	1940.	376.	106.	3.	1.	32.	1.6	73.	5.	1.
%RSD	.440	.329	.418	.368	.132	2.30	2.30	4.48	.438	.208

Elem	Zn2062
Units	ug/L
Avg	**2290.**
Stddev	2.
%RSD	.103

Int. Std.	Y_3600
Units	Cts/S
Avg	**41303.**
Stddev	181.
%RSD	.43788

Sample Name: pdss877664 Acquired: 12/15/2010 23:54:50 Type: Unk
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**360.**	**376000.**	**2020.**	**6080.**	**1790.**	**729000.**	**1650.**	**1570.**	**3160.**	**2050.**
Stddev	3.	2370.	29.	22.	11.	2540.	9.	13.	19.	11.
%RSD	.860	.630	1.44	.357	.597	.348	.542	.816	.604	.519

Elem	Fe2343	Mg2790	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**524000.**	**236000.**	**17500.**	**1670.**	**1830.**	**2510.**	**1550.**	**1510.**	**1130.**	**2140.**
Stddev	2370.	935.	143.	10.	10.	13.	7.	52.	11.	17.
%RSD	.452	.396	.818	.604	.541	.512	.457	3.47	.971	.787

Elem	Zn2062
Units	ug/L
Avg	**3310.**
Stddev	9.
%RSD	.276

Int. Std.	Y_3600
Units	Cts/S
Avg	**40365.**
Stddev	177.
%RSD	.43801

Sample Name: 877666 Acquired: 12/16/2010 00:00:12 Type: Unk
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 2
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-6.32**	**246000.**	**216.**	**2620.**	**25.1**	**485000.**	**10.3**	**180.**	**566.**	**343.**
Stddev	5.61	1130.	15.	10.	.3	3230.	.5	1.	8.	2.
%RSD	88.7	.457	6.90	.397	1.03	.666	4.91	.398	1.34	.518

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**377000.**	**87200.**	**27000.**	**25.0**	**385.**	**902.**	**9.85**	**10.4**	**.195**	**364.**
Stddev	628.	79.	167.	.9	1.	5.	2.38	8.5	2.59	7.
%RSD	.166	.091	.620	3.52	.225	.512	24.2	81.8	1330.	1.97

Elem	Zn2062
Units	ug/L
Avg	**1730.**
Stddev	5.
%RSD	.314

Int. Std.	Y_3600
Units	Cts/S
Avg	**41178.**
Stddev	81.
%RSD	.19632

Sample Name: ccv2 Acquired: 12/16/2010 00:27:24 Type: QC
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4934	Be3130	Ca3933	Cd2265	Co2286	Cr2835	Cu2247	Fe2599	Mn2576
Avg	**42.2**	**580.**	**534.**	**547.**	**53.8**	**554.**	**55.7**	**524.**	**530.**	**575.**	**506.**	**536.**
Stddev	2.0	5.	15.	1.	.1	1.	.4	3.	2.	4.	2.	2.
%RSD	4.77	.881	2.89	.206	.131	.126	.739	.508	.457	.757	.374	.293
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2908	Zn2138
Avg	**528.**	**532.**	**535.**	**485.**	**539.**	**488.**	**528.**	**538.**
Stddev	5.	2.	2.	3.	3.	7.	7.	1.
%RSD	.866	.328	.466	.674	.521	1.51	1.30	.272
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Int. Std.	Y_3600
Avg	**42748.**
Stddev	220.
%RSD	.51429

Sample Name: ccb Acquired: 12/16/2010 00:37:46 Type: QC
Method: DOD Calibration 1(v1319) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

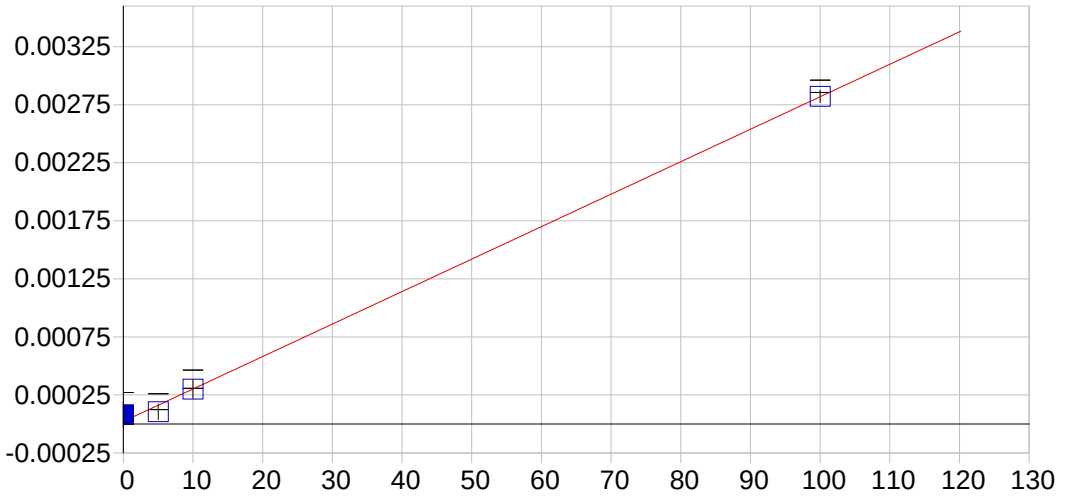
Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**.157**	**-2.76**	**-1.33**	**.612**	**.008**	**-3.22**	**-.047**	**-.112**	**1.72**	**-.968**	**-5.78**	**.863**
Stddev	5.64	1.68	8.33	.285	.079	.02	.115	.057	4.69	.421	4.94	.089
%RSD	3600.	60.8	625.	46.5	958.	.657	245.	51.1	273.	43.6	85.5	10.3
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**-.012**	**-3.18**	**.140**	**-.311**	**.019**	**2.46**	**5.30**	**-1.77**	**-.231**
Stddev	.267	.33	.153	.188	1.04	9.48	4.78	4.74	.181
%RSD	2240.	10.3	109.	60.6	5400.	385.	90.2	267.	78.1
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**41975.**
Stddev	197.
%RSD	.46999

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
Ag 328.068 {103}	12/22/2010 10:16:06	12/21/2010 10:44:25	Linear	None	0.000021	0.000028	0.000000	1.000000	0.999404	0.000056	3.801335	12.671118
Ag 338.289 {100}	12/21/2010 10:01:50	12/21/2010 10:01:50	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
Al 167.079 {502}	12/21/2010 10:49:24	12/21/2010 10:49:24	Linear	None	0.000018	0.000002	0.000000	1.000000	0.999946	0.000009	3.138680	10.462268
Al 309.271 {109}	12/21/2010 11:11:36	12/21/2010 11:11:36	Linear	1/Conc	0.000539	0.000005	0.000000	1.000000	0.999837	0.000089	19.250314	64.167713
Al 396.152 { 85}	12/21/2010 11:17:33	12/21/2010 11:17:33	Full Fit	1/Conc	0.000032	0.000008	0.000000	1.040000	0.999889	0.000400	18.784169	62.613898
As 189.042 {479}	12/21/2010 10:54:48	12/21/2010 10:54:48	Linear	1/Conc	0.000001	0.000000	0.000000	1.000000	0.999976	0.000000	22.190703	73.969009
As 193.759 {474}	12/21/2010 10:49:24	12/21/2010 10:49:24	Linear	1/Conc	-0.000001	0.000001	0.000000	1.000000	0.992920	0.000000	10.522360	35.074533
Ba 455.403 { 74}	12/21/2010 10:44:25	12/21/2010 10:44:25	Linear	1/Conc	-0.000108	0.000554	0.000000	1.000000	0.999576	0.000019	0.425502	1.418340
Ba 493.409 { 68}	12/21/2010 10:54:48	12/21/2010 10:54:48	Linear	1/Conc	0.020838	0.000575	0.000000	1.000000	0.999995	0.000336	0.736983	2.456610
Be 234.861 {144}	12/21/2010 10:49:24	12/21/2010 10:49:24	Linear	None	0.000006	0.000065	0.000000	1.000000	1.000000	0.000019	0.486236	1.620785
Be 313.042 {108}	12/21/2010 10:49:24	12/21/2010 10:49:24	Linear	1/Conc	0.000069	0.000927	0.000000	1.000000	0.999978	0.000004	0.103983	0.346610
Ca 317.933 {106}	12/21/2010 11:17:33	12/21/2010 11:17:33	Full Fit	1/Conc	0.006451	0.000010	-0.000000	1.000000	0.999990	0.000092	4.693206	15.644020
Ca 393.366 { 86}	12/21/2010 10:49:24	12/21/2010 10:49:24	Linear	None	0.021501	0.001933	0.000000	1.000000	0.999947	0.015852	0.061580	0.205266
Ca 396.847 { 85}	12/21/2010 10:54:48	12/21/2010 10:54:48	Linear	1/Conc	0.003787	0.000694	0.000000	1.000000	0.999925	0.000400	0.119006	0.396688
Cd 226.502 {449}	12/21/2010 10:49:24	12/21/2010 10:49:24	Linear	1/Conc	0.000002	0.000088	0.000000	1.000000	0.999921	0.000001	0.160860	0.536199
Cd 228.802 {447}	12/21/2010 10:49:24	12/21/2010 10:49:24	Linear	None	0.000187	0.000076	0.000000	1.000000	0.999993	0.000222	0.193237	0.644122
Co 228.616 {447}	12/21/2010 10:49:24	12/21/2010 10:49:24	Linear	1/Conc	0.000014	0.000035	0.000000	1.000000	0.999789	0.000002	0.320555	1.068518
Co 238.892 {141}	12/21/2010 10:54:48	12/21/2010 10:54:48	Linear	1/Conc	0.000005	0.000005	0.000000	1.000000	0.999997	0.000003	5.443237	18.144124
Cr 267.716 {126}	12/21/2010 10:49:24	12/21/2010 10:49:24	Linear	1/Conc	0.000002	0.000015	0.000000	1.000000	0.999726	0.000001	3.325437	11.084791
Cr 283.563 {119}	12/21/2010 11:00:14	12/21/2010 11:00:14	Linear	1/Conc	0.000058	0.000020	0.000000	1.000000	0.999953	0.000018	2.753629	9.178763
Cu 224.700 {450}	12/21/2010 10:54:48	12/21/2010 10:54:48	Linear	1/Conc	0.000122	0.000017	0.000000	1.000000	0.999898	0.000003	0.765903	2.553009
Cu 324.754 {104}	12/21/2010 11:00:14	12/21/2010 11:00:14	Linear	None	0.001192	0.000006	0.000000	1.000000	0.999951	0.003451	11.545456	38.484853
Cu 327.396 {103}	12/21/2010 10:49:24	12/21/2010 10:49:24	Linear	None	0.000101	0.000009	0.000000	1.000000	0.999863	0.000064	12.656653	42.188842
Fe 234.349 {144}	12/21/2010 11:17:33	12/21/2010 11:17:33	Full Fit	1/Conc	0.000053	0.000002	0.000000	1.000000	0.999987	0.000016	12.368918	41.229726
Fe 239.562 {141}	12/21/2010 11:11:36	12/21/2010 11:11:36	Linear	None	0.002419	0.000004	0.000000	1.000000	0.999995	0.003525	6.176998	20.589994
Fe 259.940 {130}	12/21/2010 10:49:24	12/21/2010 10:49:24	Linear	None	0.000208	0.000016	0.000000	1.000000	0.999952	0.000076	2.951867	9.839555
Mg 279.079 {121}	12/21/2010 11:17:34	12/21/2010 11:17:34	Full Fit	1/Conc	0.000031	0.000001	0.000000	1.060000	0.999978	0.000019	60.776934	202.589780
Mg 279.553 {121}	12/21/2010 10:39:12	12/21/2010 10:39:12	Linear	None	0.002140	0.000343	0.000000	1.000000	0.996248	0.001114	0.082890	0.276300
Mg 280.270 {120}	12/21/2010 10:54:49	12/21/2010 10:54:49	Linear	1/Conc	0.002130	0.000235	0.000000	1.000000	0.999965	0.000359	0.152744	0.509147
Mn 257.610 {131}	12/21/2010 10:54:49	12/21/2010 10:54:49	Linear	1/Conc	0.000170	0.000094	0.000000	1.000000	0.999928	0.000010	0.497371	1.657904
Mn 259.373 {130}	12/21/2010 11:00:14	12/21/2010 11:00:14	Linear	1/Conc	0.000106	0.000067	0.000000	1.000000	0.999997	0.000080	0.698089	2.326963
Mo 202.030 {467}	12/21/2010 10:49:24	12/21/2010 10:49:24	Linear	None	0.000012	0.000008	0.000000	1.000000	0.999995	0.000009	1.046558	3.488525
Mo 203.844 {465}	12/21/2010 10:49:24	12/21/2010 10:49:24	Linear	None	0.000011	0.000004	0.000000	1.000000	0.999991	0.000006	2.073240	6.910802
Mo 204.598 {465}	12/21/2010 10:54:49	12/21/2010 10:54:49	Linear	1/Conc	0.000004	0.000006	0.000000	1.000000	0.999985	0.000001	1.526281	5.087602
Ni 221.647 {452}	12/21/2010 10:54:49	12/21/2010 10:54:49	Linear	1/Conc	0.000025	0.000028	0.000000	1.000000	0.999812	0.000026	0.577117	1.923724
Ni 231.604 {445}	12/21/2010 10:49:24	12/21/2010 10:49:24	Linear	None	-0.000029	0.000031	0.000000	1.000000	0.999983	0.000058	0.461739	1.539130
Pb 216.999 {455}	12/21/2010 11:00:14	12/21/2010 11:00:14	Full Fit	None	0.000007	0.000002	0.000000	0.970000	1.000000	0.000000	7.742722	25.809074
Pb 220.353 {453}	12/21/2010 10:49:24	12/21/2010 10:49:24	Linear	1/Conc	0.000023	0.000008	0.000000	1.000000	0.999290	0.000001	1.655988	5.519961
Sb 206.833 {463}	12/21/2010 10:54:49	12/21/2010 10:54:49	Linear	1/Conc	-0.000005	0.000002	0.000000	1.000000	0.999902	0.000000	4.350772	14.502575
Sb 217.581 {455}	12/21/2010 10:54:49	12/21/2010 10:54:49	Linear	1/Conc	-0.000003	0.000004	0.000000	1.000000	0.999967	0.000000	4.218600	14.062001
Se 196.090 {472}	12/21/2010 10:54:49	12/21/2010 10:54:49	Linear	1/Conc	0.000014	0.000001	0.000000	1.000000	0.999892	0.000000	11.240496	37.468319
Se 206.279 {463}	12/21/2010 10:54:49	12/21/2010 10:54:49	Linear	None	-0.000003	0.000000	0.000000	1.000000	0.999983	0.000006	62.746111	209.153704
Tl 190.856 {477}	12/22/2010 08:47:11	12/21/2010 10:54:49	Linear	1/Conc	-0.000002	0.000001	0.000000	1.000000	0.999601	0.000000	11.546859	38.489529
Tl 276.787 {122}	12/21/2010 10:54:49	12/21/2010 10:54:49	Linear	None	-0.000002	0.000000	0.000000	1.000000	0.999998	0.000007	137.936528	459.788425

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
V 290.882 {116}	12/21/2010 10:54:49	12/21/2010 10:54:49	Linear	1/Conc	0.000060	0.000017	0.000000	1.000000	0.999999	0.000003	3.955455	13.184850
V 292.402 {115}	12/21/2010 10:49:24	12/21/2010 10:49:24	Linear	None	0.000011	0.000017	0.000000	1.000000	0.999977	0.000045	4.474590	14.915299
Zn 206.200 {463}	12/21/2010 11:00:14	12/21/2010 11:00:14	Full Fit	None	0.000019	0.000015	-0.000000	0.980000	1.000000	0.000000	0.558231	1.860770
Zn 213.856 {458}	12/21/2010 10:49:24	12/21/2010 10:49:24	Linear	None	0.000170	0.000041	0.000000	1.000000	0.999994	0.000070	0.238920	0.796400
Y 360.073 { 94}*	12/21/2010 10:01:50	12/21/2010 10:01:50	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
B 249.773 {135}	12/21/2010 10:49:24	12/21/2010 10:49:24	Linear	None	0.000009	0.000008	0.000000	1.000000	1.000000	0.000004	5.554375	18.514584
Li 670.784 { 50}	12/21/2010 10:49:24	12/21/2010 10:49:24	Linear	None	-0.000353	0.000252	0.000000	1.000000	0.999995	0.000368	1.430129	4.767098
Na 330.298 {102}	12/21/2010 11:05:53	12/21/2010 11:05:53	Linear	1/Conc	0.000023	0.000000	0.000000	1.000000	1.000000	0.000000	2814.69142	9382.30476
Si 251.611 {134}	12/21/2010 10:49:24	12/21/2010 10:49:24	Linear	None	0.000313	-0.000000	0.000000	1.000000	1.000000	0.000000	-1.000000	-1.000000
Sr 407.771 { 83}	12/21/2010 10:54:49	12/21/2010 10:54:49	Linear	1/Conc	-0.001472	0.001323	0.000000	1.000000	0.999881	0.000079	0.096551	0.321836
Ti 334.941 {101}	12/21/2010 10:49:24	12/21/2010 10:49:24	Linear	1/Conc	0.000032	0.000078	0.000000	1.000000	0.999998	0.000001	0.963731	3.212436

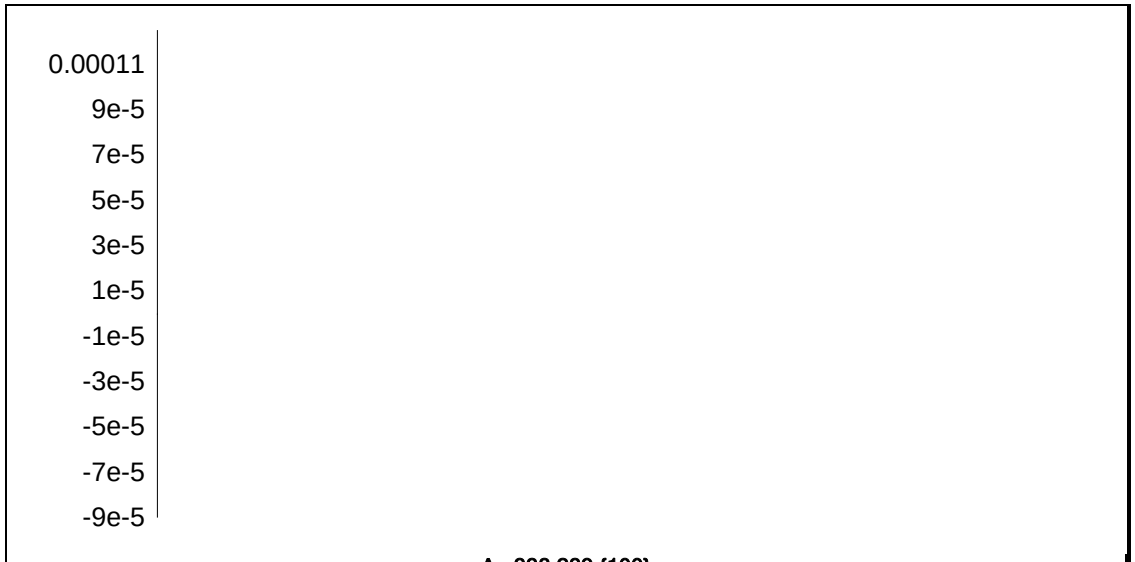


Ag 328.068 {103}

Date of Fit:	12/22/2010 10:16:06	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000021	Re-Slope:	1.000000
A1 (Gain):	0.000028	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999404	Status:	OK.
Std Error of Est:	0.000056		
Predicted MDL:	3.801335		
Predicted MQL:	12.671118		

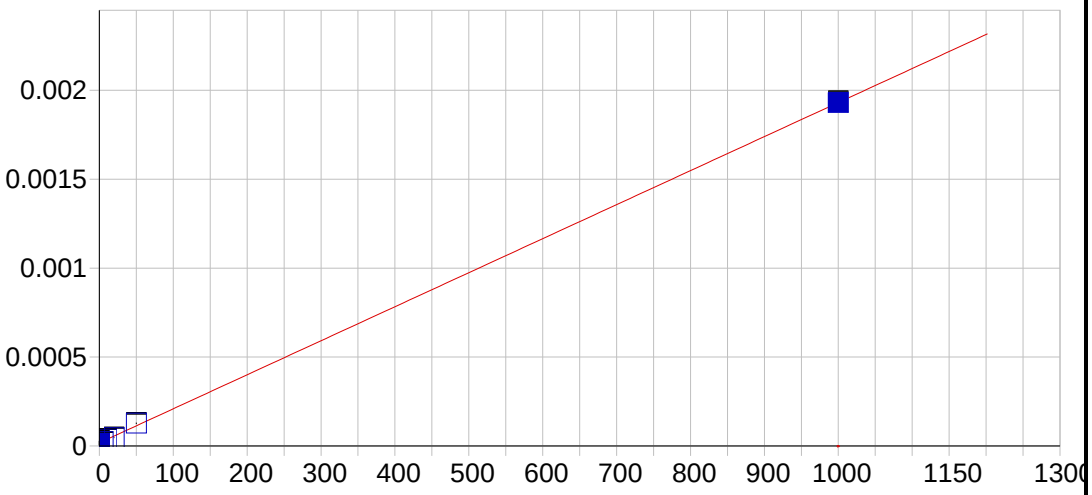
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	2.0077	2.01	.000	.00008	.000	1
CalibStd=100	100.00	100.11	.111	.111	.00282	.000	1
CalibStd=10	10.000	9.9003	-.100	-.997	.00030	.000	1
CalibStd=5	5.0000	2.9811	-2.02	-40.4	.00010	.000	1



Ag 338.289 {100}

Date of Fit:	12/21/2010 10:01:50	Type of Fit:	Linear	Weighting:	None
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00002	.000	1

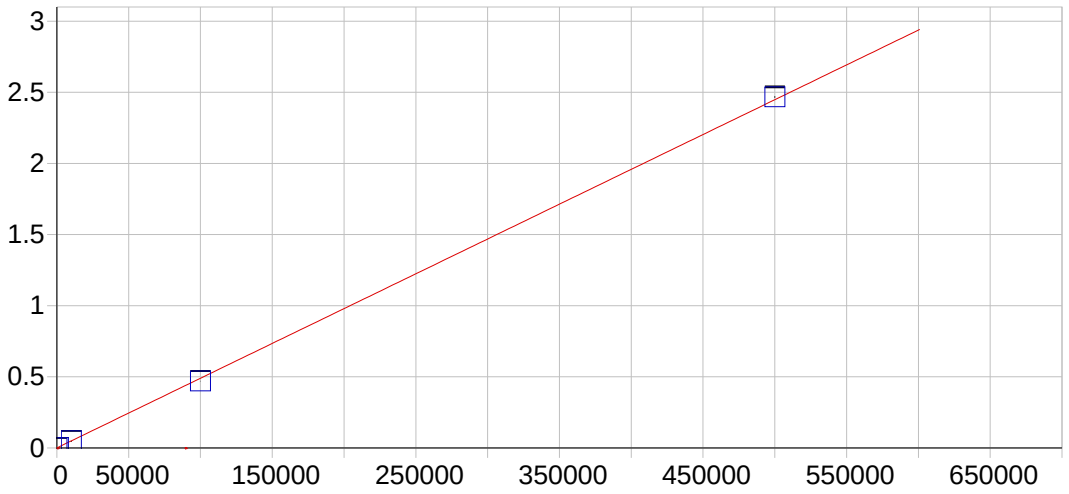


Al 167.079 {502}

Date of Fit:	12/21/2010 10:49:24	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000018	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999946	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	3.138680		
Predicted MQL:	10.462268		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.71299	-.713	.000	.00002	.000	1
CalibStd=100	1000.0	999.73	-.268	-.027	.00193	.000	1
CalibStd=20	20.000	14.910	-5.09	-25.5	.00005	.000	1
CalibStd=10	10.000	10.789	.789	7.89	.00004	.000	1
CalibStd=5	5.0000	2.8283	-2.17	-43.4	.00002	.000	1
CalibStd=50	50.000	57.454	7.45	14.9	.00013	.000	1

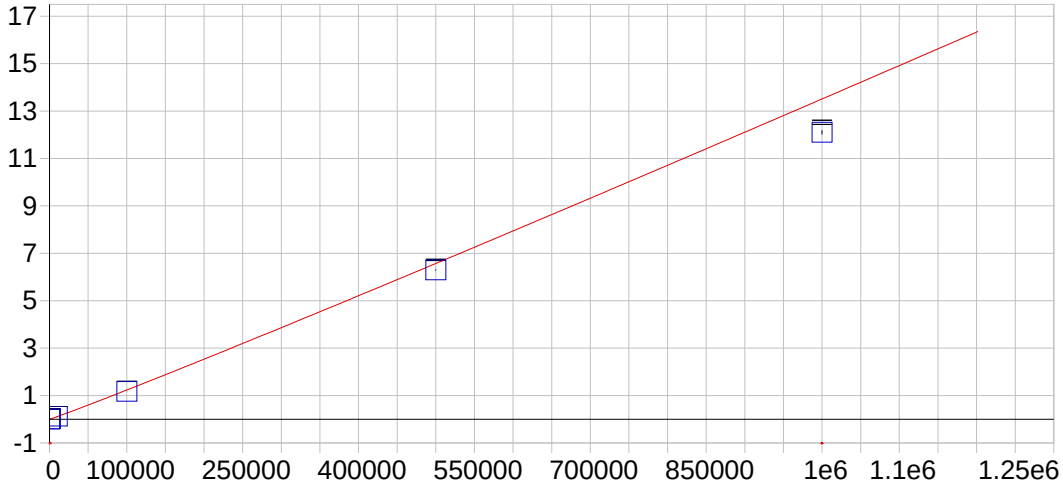


Al 309.271 {109}

Date of Fit:	12/21/2010 11:11:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000539	Re-Slope:	1.000000
A1 (Gain):	0.000005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999837	Status:	OK.
Std Error of Est:	0.000089		
Predicted MDL:	19.250314		
Predicted MQL:	64.167713		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00975	.010	.000	.00054	.000	1
CalibStd=100	10000.	10094.	94.1	.941	.04995	.000	1
CalibStd=100	100000.	95913.	-4090.	-4.09	.47006	.001	1
CalibStd=100	1000.0	1013.8	13.8	1.38	.00550	.000	1
CalibStd=500	500000.	503980.	3980.	.796	2.4677	.005	1

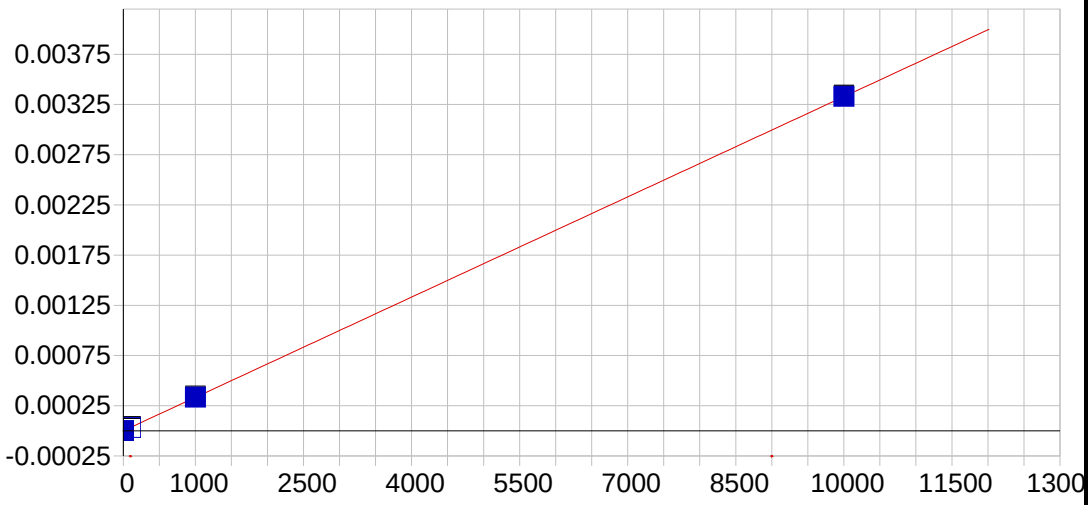


Al 396.152 { 85}

Date of Fit:	12/21/2010 11:17:33	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.000032	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.040000		
Correlation:	0.999889	Status:	OK.
Std Error of Est:	0.000400		
Predicted MDL:	18.784169		
Predicted MQL:	62.613898		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00003	.000	1
CalibStd=100	100000.	95311.	-4690.	-4.69	1.1722	.003	1
CalibStd-100	1000000.	899450.	-101000.	-10.1	12.101	.090	1
CalibStd=500	500000.	479960.	-20000.	-4.01	6.2970	.026	1
CalibStd=100	1000.0	1209.1	209.	20.9	.01252	.000	1
CalibStd=100	10000.	11150.	1150.	11.5	.12587	.000	1

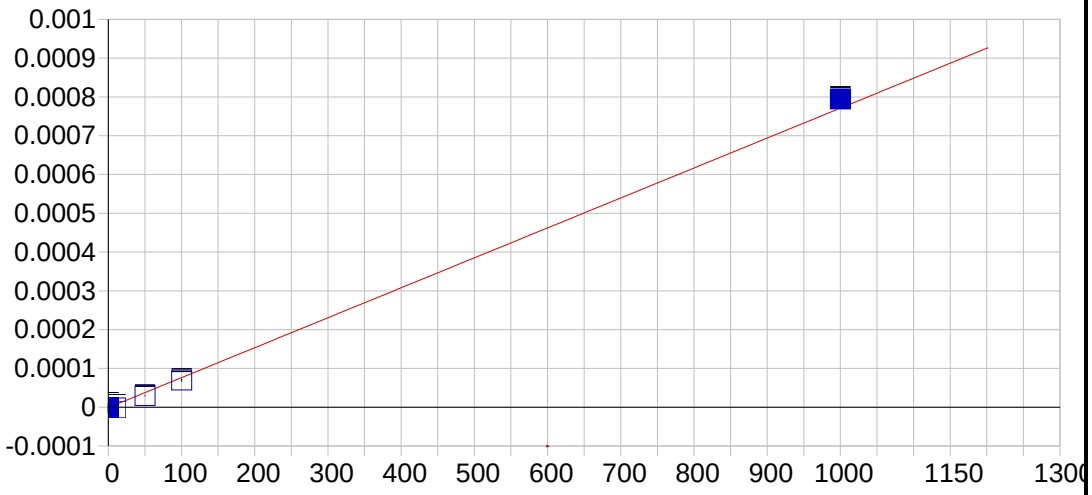


As 189.042 {479}

Date of Fit:	12/21/2010 10:54:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	22.190703		
Predicted MQL:	73.969009		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00707	.007	.000	.00000	.000	1
CalibStd=100	1000.0	1000.9	.906	.091	.00033	.000	1
CalibStd=100	10000.	10006.	6.32	.063	.00333	.000	1
CalibStd=100	100.00	92.774	-7.23	-7.23	.00003	.000	1

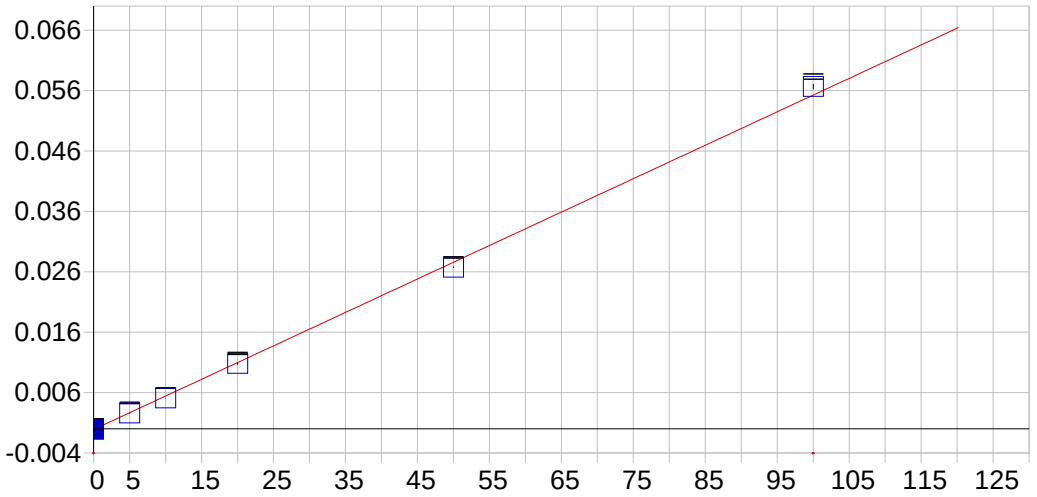


As 193.759 {474}

Date of Fit:	12/21/2010 10:49:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.992920	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	10.522360		
Predicted MQL:	35.074533		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01393	.014	.000	.00000	.000	1
CalibStd=100	1000.0	1030.1	30.1	3.01	.00079	.000	1
CalibStd=50	50.000	39.945	-10.1	-20.1	.00003	.000	1
CalibStd=10	10.000	-1.3494	-11.3	-113.	.00000	.000	1
CalibStd=100	100.00	91.273	-8.73	-8.73	.00007	.000	1

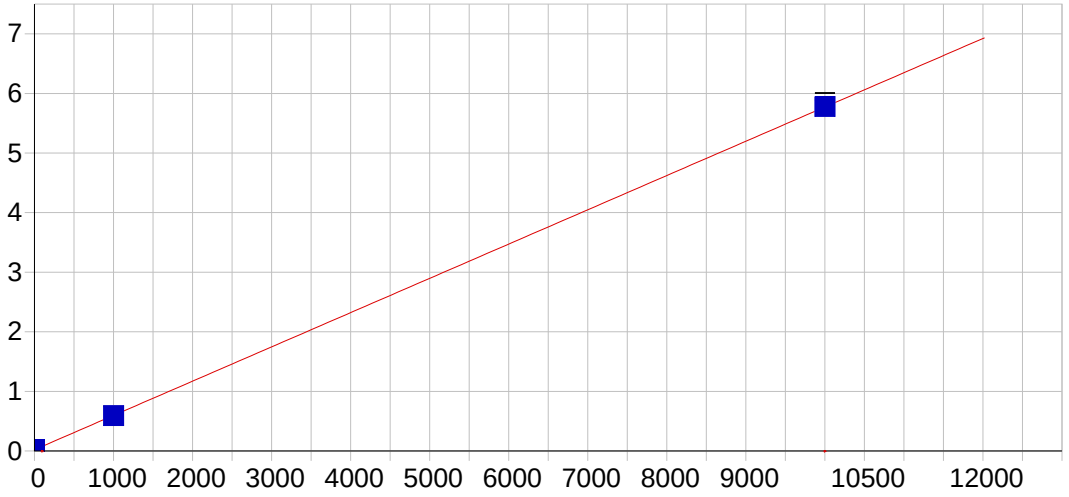


Ba 455.403 { 74}

Date of Fit:	12/21/2010 10:44:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000108	Re-Slope:	1.000000
A1 (Gain):	0.000554	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999576	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	0.425502		
Predicted MQL:	1.418340		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00051	.001	.000	-.00011	.000	1
CalibStd=50	50.000	48.460	-1.54	-3.08	.02672	.000	1
CalibStd=10	10.000	9.3769	-.623	-6.23	.00508	.000	1
CalibStd=20	20.000	19.721	-.279	-1.40	.01081	.000	1
CalibStd=100	100.00	102.54	2.54	2.54	.05667	.000	1
CalibStd=5	5.0000	4.8993	-.101	-2.01	.00260	.000	1

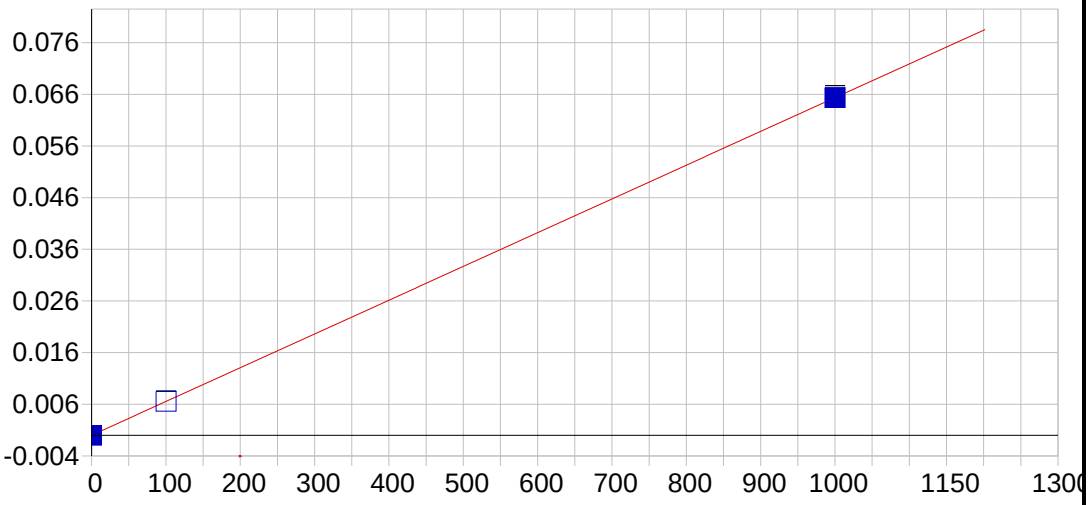


Ba 493.409 { 68}

Date of Fit:	12/21/2010 10:54:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.020838	Re-Slope:	1.000000
A1 (Gain):	0.000575	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000336		
Predicted MDL:	0.736983		
Predicted MQL:	2.456610		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00916	.009	.000	.02084	.000	1
CalibStd=100	1000.0	989.82	-10.2	-1.02	.59026	.003	1
CalibStd=100	10000.	10010.	10.2	.102	5.7794	.059	1

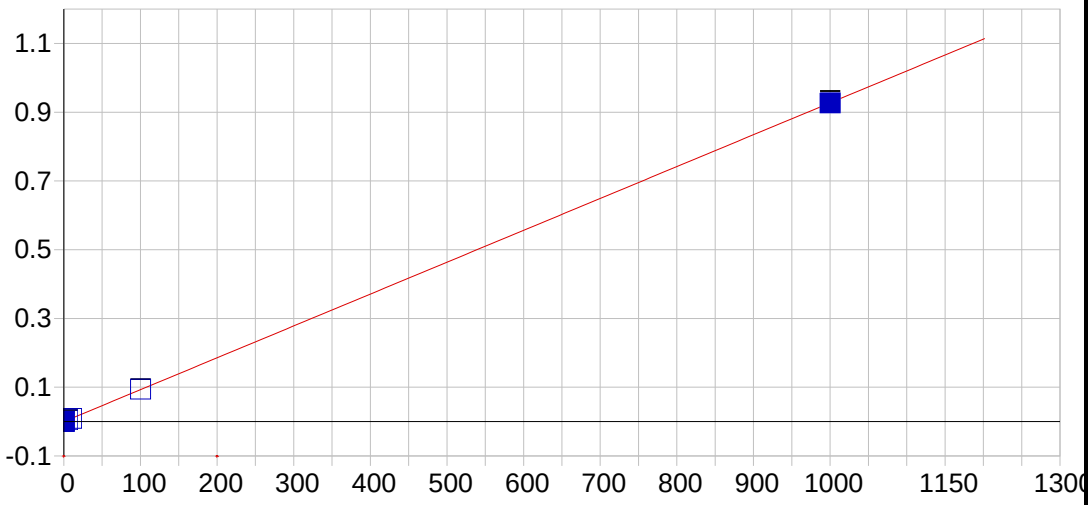


Be 234.861 {144}

Date of Fit:	12/21/2010 10:49:24	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000065	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	0.486236		
Predicted MQL:	1.620785		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.19520	-.195	.000	-.00001	.000	1
CalibStd=100	1000.0	999.98	-.022	-.002	.06536	.000	1
CalibStd=100	100.00	100.22	.217	.217	.00655	.000	1

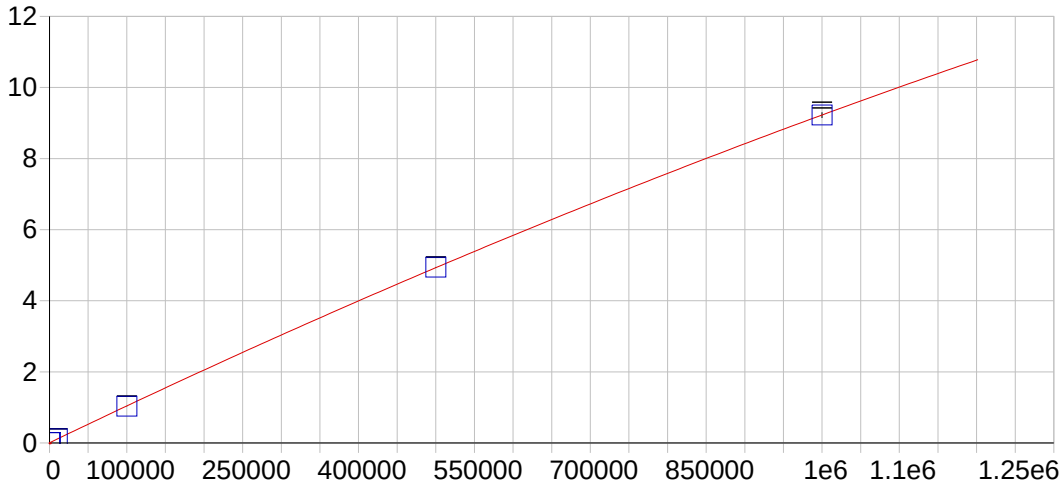


Be 313.042 {108}

Date of Fit:	12/21/2010 10:49:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000069	Re-Slope:	1.000000
A1 (Gain):	0.000927	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999978	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.103983		
Predicted MQL:	0.346610		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00008	.000	.000	.00007	.000	1
CalibStd=10	10.000	9.6526	-.347	-3.47	.00902	.000	1
CalibStd=100	100.00	101.30	1.30	1.30	.09399	.000	1
CalibStd=0.5	.50000	.42547	-.075	-14.9	.00046	.000	1
CalibStd=5	5.0000	4.8424	-.158	-3.15	.00456	.000	1
CalibStd=0.2	.25000	.22313	-.027	-10.7	.00028	.000	1
CalibStd=100	1000.0	999.31	-.689	-.069	.92659	.006	1

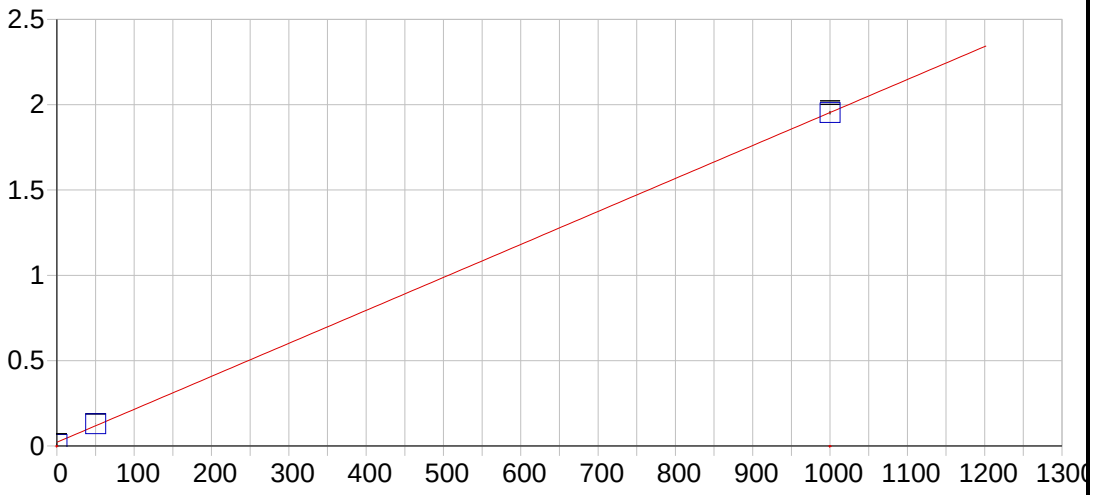


Ca 317.933 {106}

Date of Fit:	12/21/2010 11:17:33	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.006451	Re-Slope:	1.000000
A1 (Gain):	0.000010	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.000000		
Correlation:	0.999990	Status:	OK.
Std Error of Est:	0.000092		
Predicted MDL:	4.693206		
Predicted MQL:	15.644020		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00645	.000	1
CalibStd=100	10000.	10350.	350.	3.50	.11474	.000	1
CalibStd=100	100000.	98996.	-1000.	-1.00	1.0312	.004	1
CalibStd=500	500000.	501120.	1120.	.224	4.9408	.009	1
CalibStd-100	1000000.	999480.	-522.	-.052	9.2226	.080	1
CalibStd=100	1000.0	1044.3	44.3	4.43	.01739	.000	1

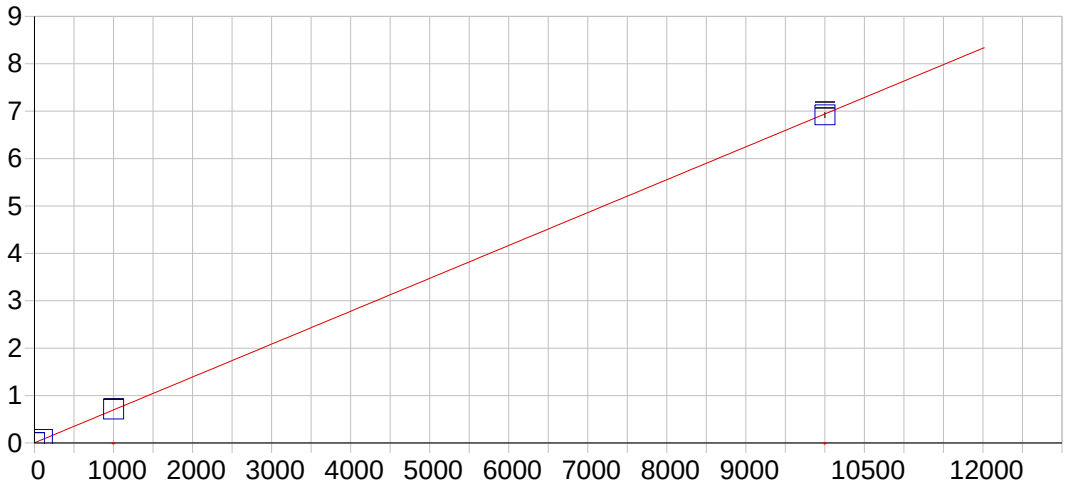


Ca 393.366 { 86}

Date of Fit:	12/21/2010 10:49:24	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.021501	Re-Slope:	1.000000
A1 (Gain):	0.001933	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.015852		
Predicted MDL:	0.061580		
Predicted MQL:	0.205266		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-5.6454	-5.65	.000	.01059	.004	1
CalibStd=50	50.000	55.943	5.94	11.9	.12962	.000	1
CalibStd=100	1000.0	999.70	-.297	-.030	1.9536	.010	1

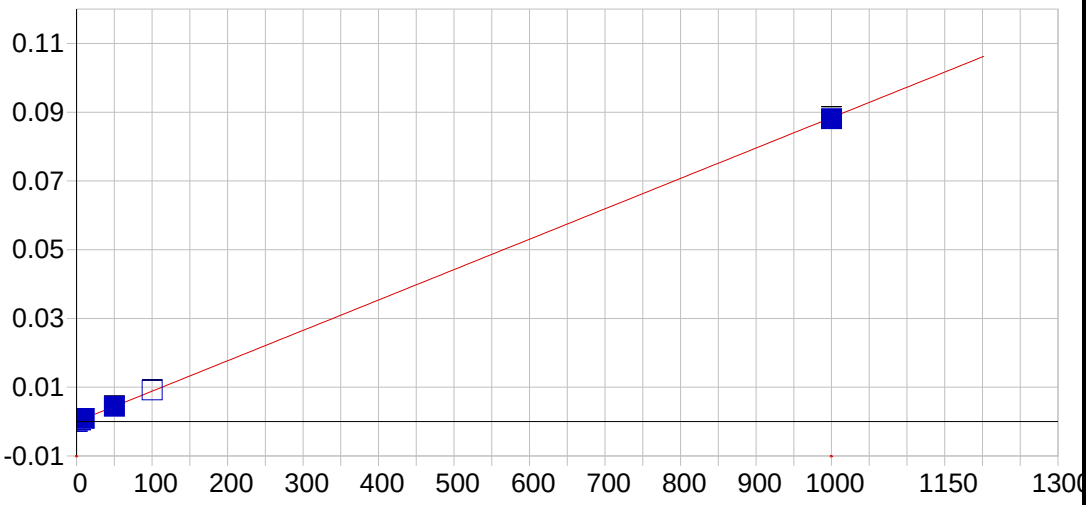


Ca 396.847 { 85}

Date of Fit:	12/21/2010 10:54:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003787	Re-Slope:	1.000000
A1 (Gain):	0.000694	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999925	Status:	OK.
Std Error of Est:	0.000400		
Predicted MDL:	0.119006		
Predicted MQL:	0.396688		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01230	-.012	.000	.00378	.002	1
CalibStd=100	10000.	9968.1	-31.9	-.319	6.9196	.062	1
CalibStd=100	100.00	110.48	10.5	10.5	.08044	.000	1
CalibStd=100	1000.0	1021.4	21.4	2.14	.71243	.004	1

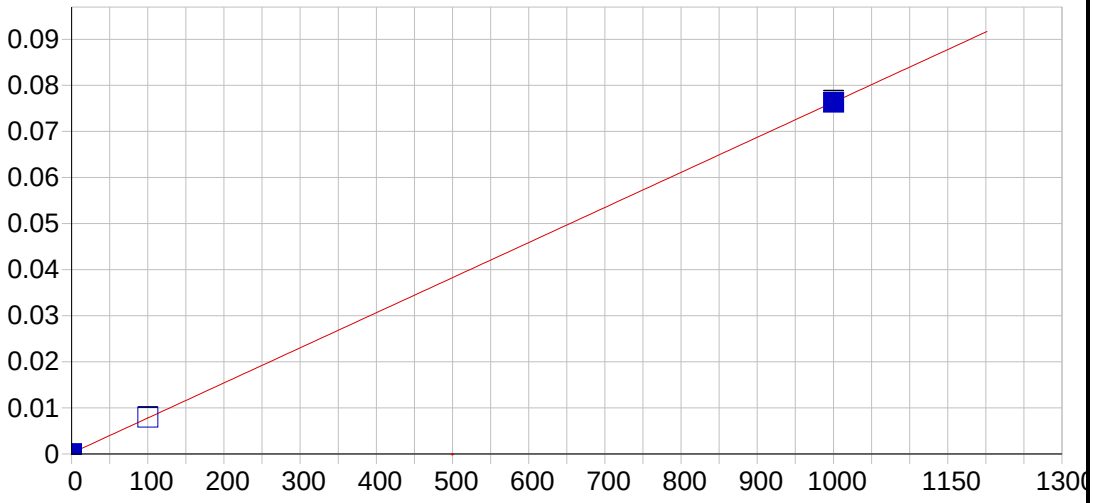


Cd 226.502 {449}

Date of Fit:	12/21/2010 10:49:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000088	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999921	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.160860		
Predicted MQL:	0.536199		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00001	.000	.000	.00000	.000	1
CalibStd=50	50.000	50.264	.264	.527	.00445	.000	1
CalibStd=1	1.0000	.91262	-.087	-8.74	.00008	.000	1
CalibStd=0.5	.50000	.51358	.014	2.72	.00005	.000	1
CalibStd=5	5.0000	5.0196	.020	.391	.00045	.000	1
CalibStd=100	100.00	103.97	3.97	3.97	.00919	.000	1
CalibStd=10	10.000	9.9714	-.029	-.286	.00088	.000	1
CalibStd=100	1000.0	995.85	-4.15	-.415	.08806	.001	1

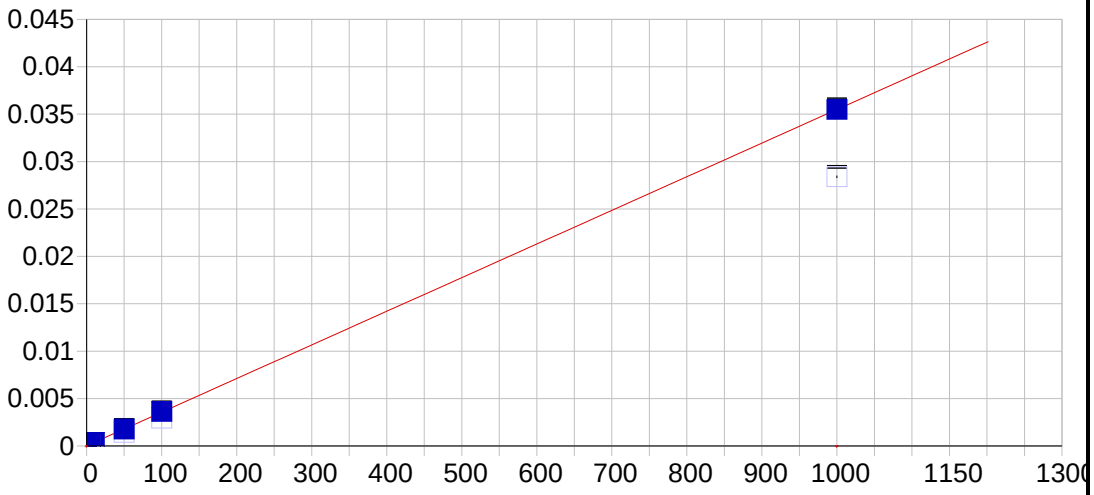


Cd 228.802 {447}

Date of Fit:	12/21/2010 10:49:24	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000187	Re-Slope:	1.000000
A1 (Gain):	0.000076	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000222		
Predicted MDL:	0.193237		
Predicted MQL:	0.644122		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.9420	-1.94	.000	.00004	.000	1
CalibStd=100	1000.0	999.78	-.216	-.022	.07633	.000	1
CalibStd=100	100.00	102.16	2.16	2.16	.00797	.000	1

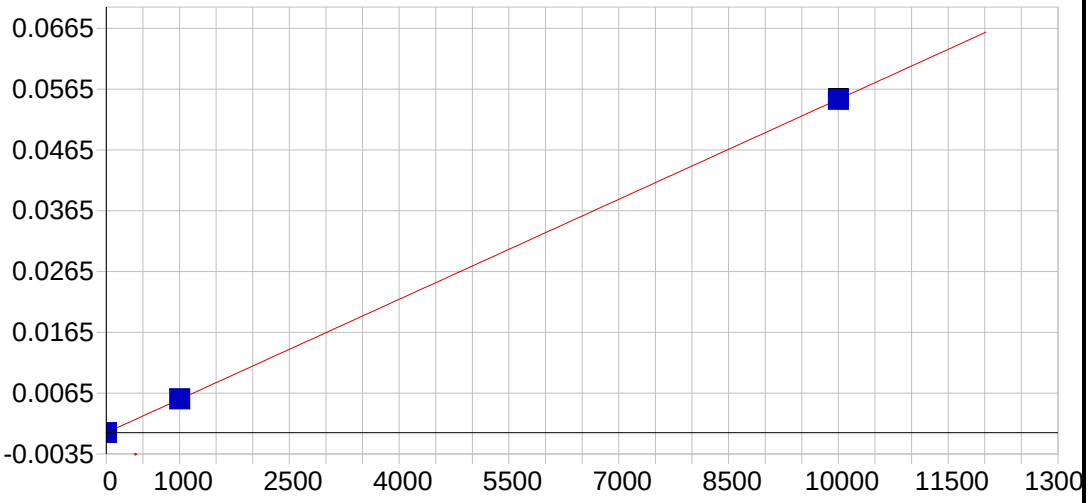


Co 228.616 {447}

Date of Fit:	12/21/2010 10:49:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000014	Re-Slope:	1.000000
A1 (Gain):	0.000035	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999789	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.320555		
Predicted MQL:	1.068518		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00115	.001	.000	.00001	.000	1
CalibStd=50	50.000	49.765	-.235	-.470	.00143	.000	1
CalibStd=10	10.000	9.8900	-.110	-1.10	.00029	.000	1
CalibStd=5	5.0000	3.8326	-1.17	-23.3	.00015	.000	1
CalibStd=100	100.00	101.99	1.99	1.99	.00292	.000	1
CalibStd=100	1000.0	999.81	-.186	-.019	.02839	.000	1

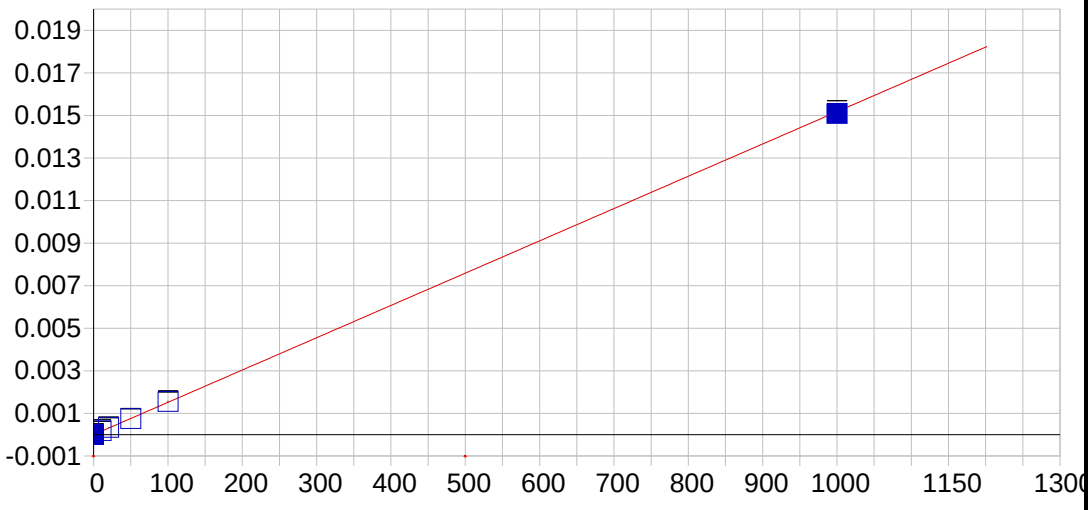


Co 238.892 {141}

Date of Fit:	12/21/2010 10:54:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000005	Re-Slope:	1.000000
A1 (Gain):	0.000005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	5.443237		
Predicted MQL:	18.144124		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00721	-.007	.000	.00000	.000	1
CalibStd=100	1000.0	1008.0	8.02	.802	.00553	.000	1
CalibStd=100	10000.	9992.0	-8.02	-.080	.05473	.000	1

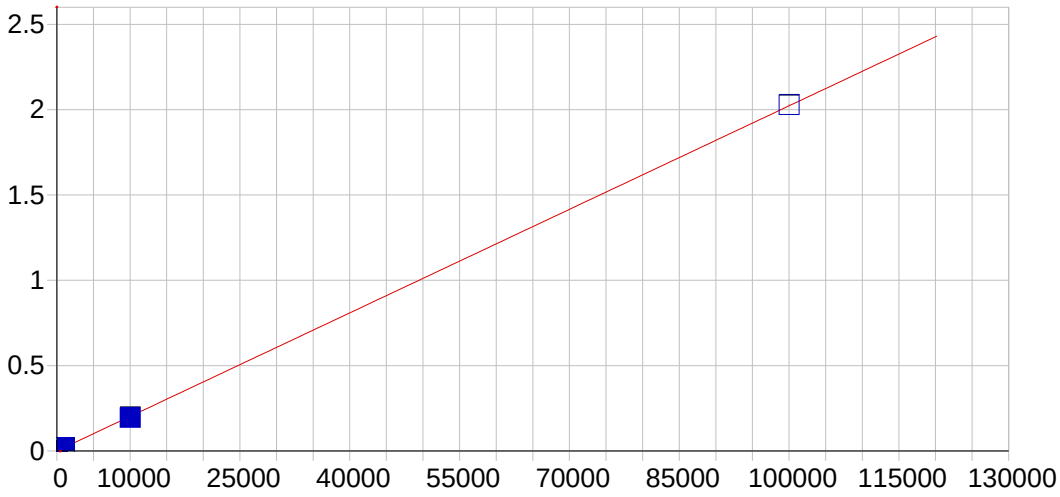


Cr 267.716 {126}

Date of Fit:	12/21/2010 10:49:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000015	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999726	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	3.325437		
Predicted MQL:	11.084791		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00292	-.003	.000	.00000	.000	1
CalibStd=10	10.000	11.800	1.80	18.0	.00018	.000	1
CalibStd=50	50.000	49.427	-.573	-1.15	.00075	.000	1
CalibStd=100	1000.0	994.20	-5.80	-.580	.01509	.000	1
CalibStd=20	20.000	22.096	2.10	10.5	.00034	.000	1
CalibStd=100	100.00	102.47	2.47	2.47	.00156	.000	1

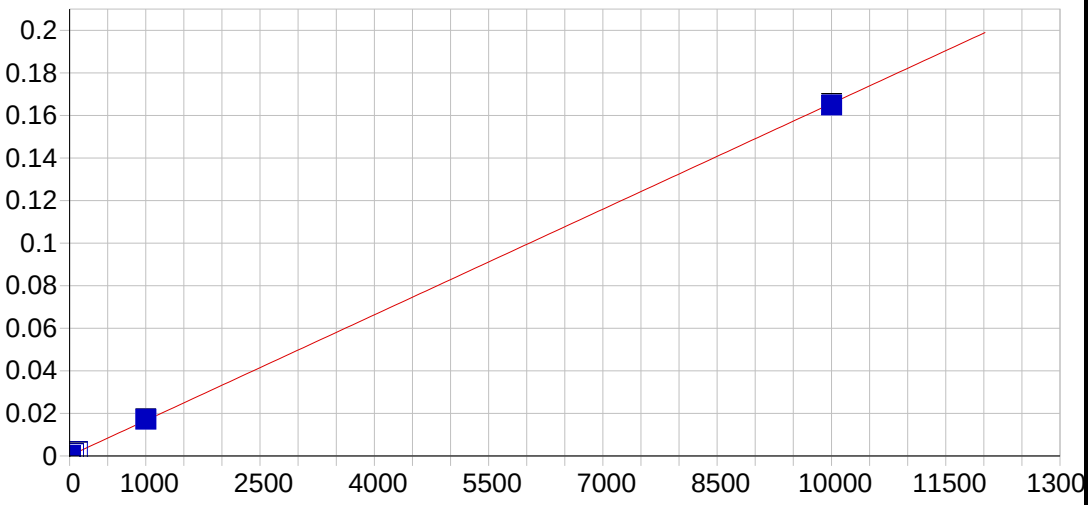


Cr 283.563 {119}

Date of Fit:	12/21/2010 11:00:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000058	Re-Slope:	1.000000
A1 (Gain):	0.000020	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999953	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	2.753629		
Predicted MQL:	9.178763		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00530	.005	.000	.00006	.000	1
CalibStd=50	50.000	47.933	-2.07	-4.13	.00103	.000	1
CalibStd=100	100.00	99.190	-.810	-.810	.00206	.000	1
CalibStd=100	1000.0	969.37	-30.6	-3.06	.01969	.000	1
CalibStd=100	10000.	9709.1	-291.	-2.91	.19670	.000	1
CalibStd-100	100000.	100320.	325.	.325	2.0290	.001	1

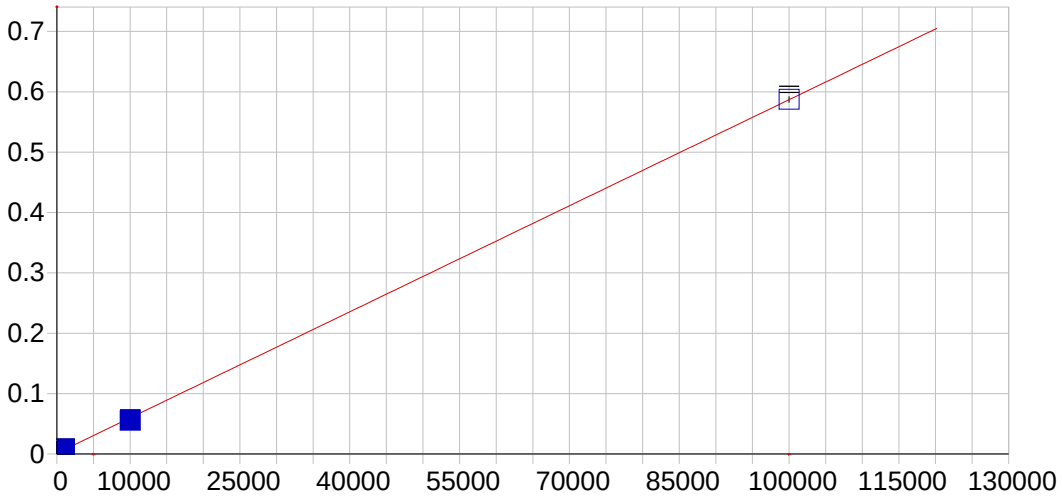


Cu 224.700 {450}

Date of Fit:	12/21/2010 10:54:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000122	Re-Slope:	1.000000
A1 (Gain):	0.000017	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999898	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	0.765903		
Predicted MQL:	2.553009		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00140	-.001	.000	.00012	.000	1
CalibStd=100	1000.0	1035.1	35.1	3.51	.01726	.000	1
CalibStd=50	50.000	52.347	2.35	4.69	.00099	.000	1
CalibStd=100	100.00	108.46	8.46	8.46	.00192	.000	1
CalibStd=10	10.000	9.7826	-.217	-2.17	.00028	.000	1
CalibStd=100	10000.	9954.3	-45.7	-.457	.16488	.001	1

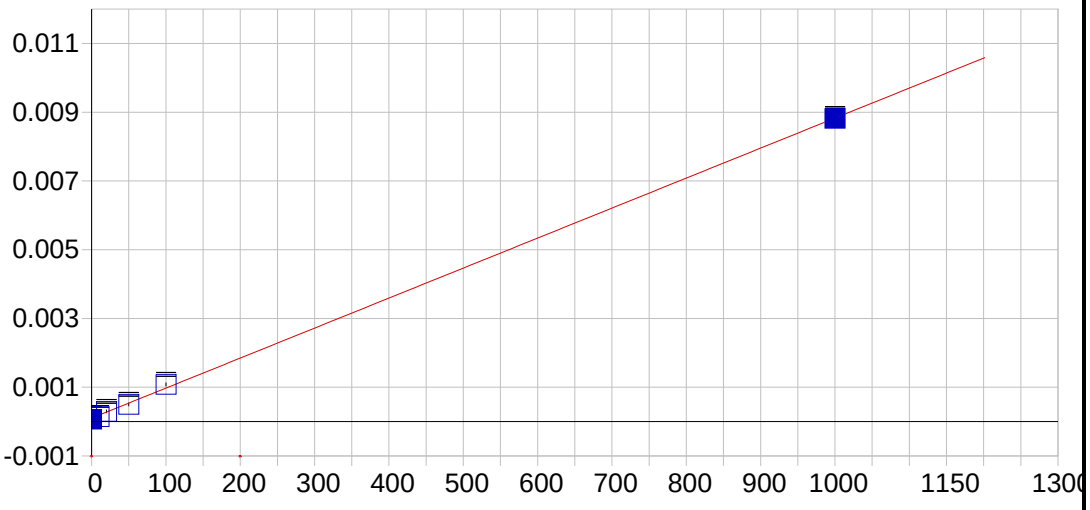


Cu 324.754 {104}

Date of Fit:	12/21/2010 11:00:14	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.001192	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999951	Status:	OK.
Std Error of Est:	0.003451		
Predicted MDL:	11.545456		
Predicted MQL:	38.484853		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	432.31	432.	.000	.00372	.000	1
CalibStd=100	10000.	9315.4	-685.	-6.85	.05575	.000	1
CalibStd-100	100000.	100070.	66.6	.067	.58732	.005	1
CalibStd=100	1000.0	1185.6	186.	18.6	.00814	.000	1

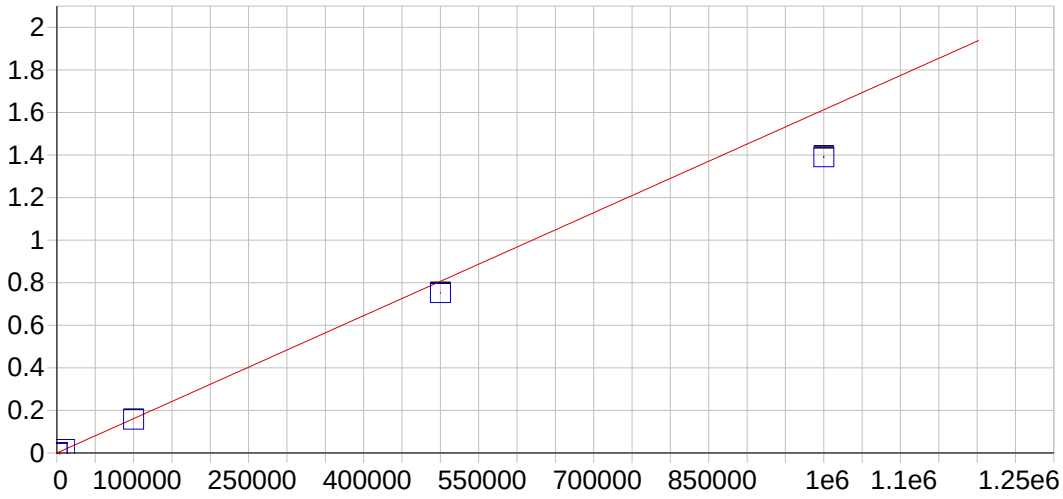


Cu 327.396 {103}

Date of Fit:	12/21/2010 10:49:24	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000101	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999863	Status:	OK.
Std Error of Est:	0.000064		
Predicted MDL:	12.656653		
Predicted MQL:	42.188842		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-3.4398	-3.44	.000	.00007	.000	1
CalibStd=20	20.000	22.148	2.15	10.7	.00029	.000	1
CalibStd=50	50.000	45.633	-4.37	-8.73	.00050	.000	1
CalibStd=100	100.00	112.16	12.2	12.2	.00108	.000	1
CalibStd=10	10.000	4.4860	-5.51	-55.1	.00014	.000	1
CalibStd=100	1000.0	999.01	-.985	-.099	.00882	.000	1

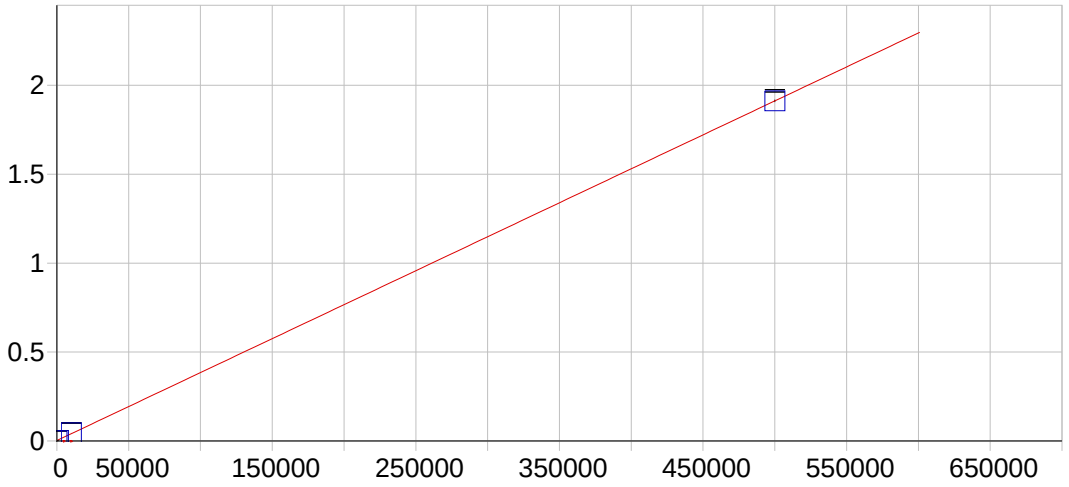


Fe 234.349 {144}

Date of Fit:	12/21/2010 11:17:33	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.000053	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999987	Status:	OK.
Std Error of Est:	0.000016		
Predicted MDL:	12.368918		
Predicted MQL:	41.229726		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00005	.000	1
CalibStd=100	10000.	10442.	442.	4.42	.01689	.000	1
CalibStd=500	500000.	466510.	-33500.	-6.70	.75237	.003	1
CalibStd=100	100000.	97662.	-2340.	-2.34	.15755	.001	1
CalibStd-100	1000000.	862680.	-137000.	-13.7	1.3912	.005	1
CalibStd=100	1000.0	1036.9	36.9	3.69	.00173	.000	1

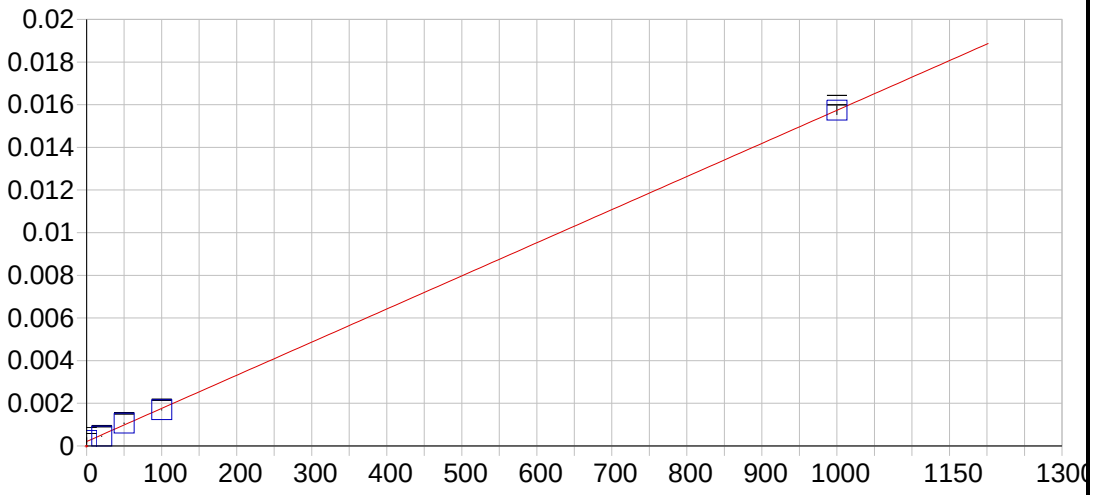


Fe 239.562 {141}

Date of Fit:	12/21/2010 11:11:36	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.002419	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.003525		
Predicted MDL:	6.176998		
Predicted MQL:	20.589994		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-607.69	-608.	.000	.00010	.000	1
CalibStd=100	1000.0	560.43	-440.	-44.0	.00456	.000	1
CalibStd=100	10000.	11068.	1070.	10.7	.04470	.000	1
CalibStd=500	500000.	499980.	-20.5	-.004	1.9122	.007	1

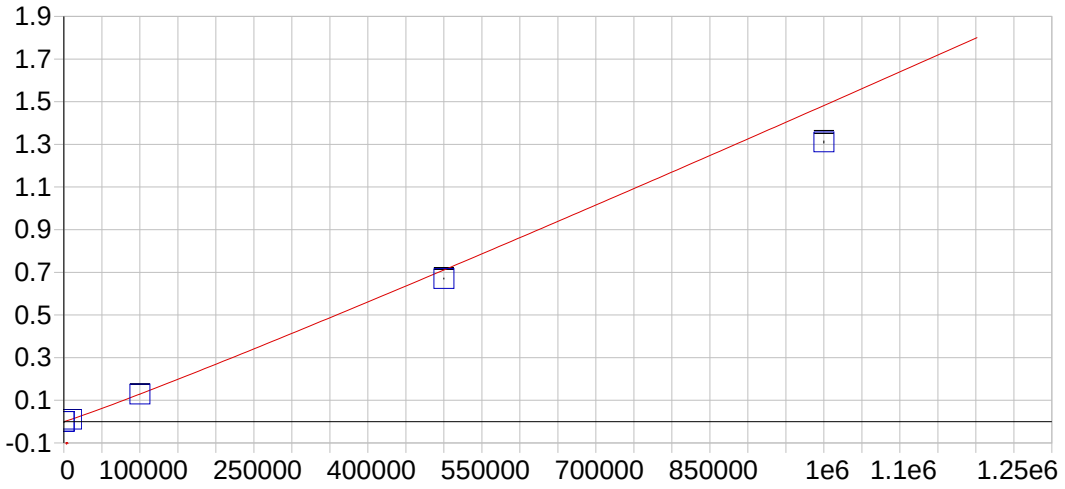


Fe 259.940 {130}

Date of Fit:	12/21/2010 10:49:24	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000208	Re-Slope:	1.000000
A1 (Gain):	0.000016	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000076		
Predicted MDL:	2.951867		
Predicted MQL:	9.839555		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	3.2008	3.20	.000	.00026	.000	1
CalibStd=100	1000.0	1000.3	.270	.027	.01574	.000	1
CalibStd=50	50.000	55.024	5.02	10.0	.00106	.000	1
CalibStd=100	100.00	95.612	-4.39	-4.39	.00169	.000	1
CalibStd=20	20.000	15.894	-4.11	-20.5	.00046	.000	1

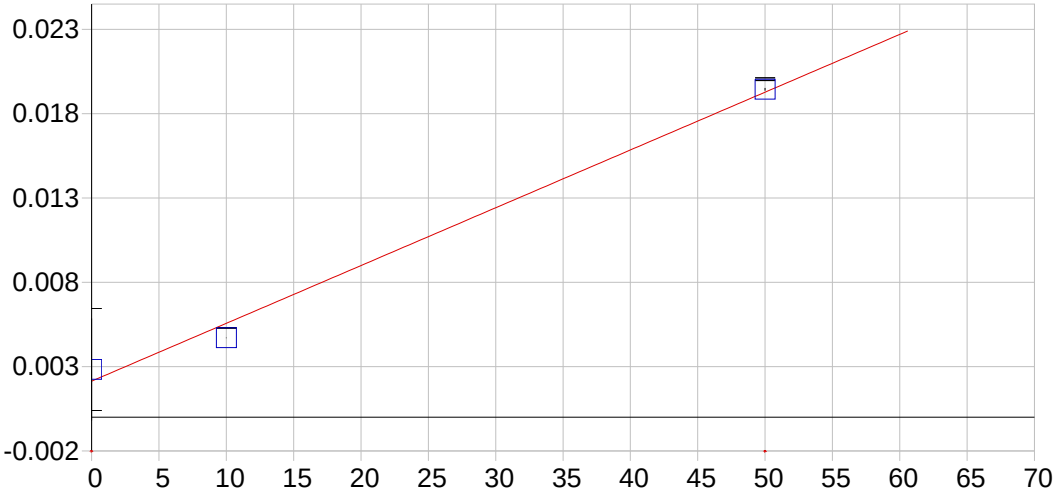


Mg 279.079 {121}

Date of Fit:	12/21/2010 11:17:34	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.000031	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.060000		
Correlation:	0.999978	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	60.776934		
Predicted MQL:	202.589780		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00003	.000	1
CalibStd=100	100000.	99589.	-411.	-.411	.12854	.001	1
CalibStd=500	500000.	473320.	-26700.	-5.34	.67068	.004	1
CalibStd=100	10000.	9509.6	-490.	-4.90	.01069	.000	1
CalibStd-100	1000000.	890620.	-109000.	-10.9	1.3107	.007	1
CalibStd=100	1000.0	1274.6	275.	27.5	.00130	.000	1

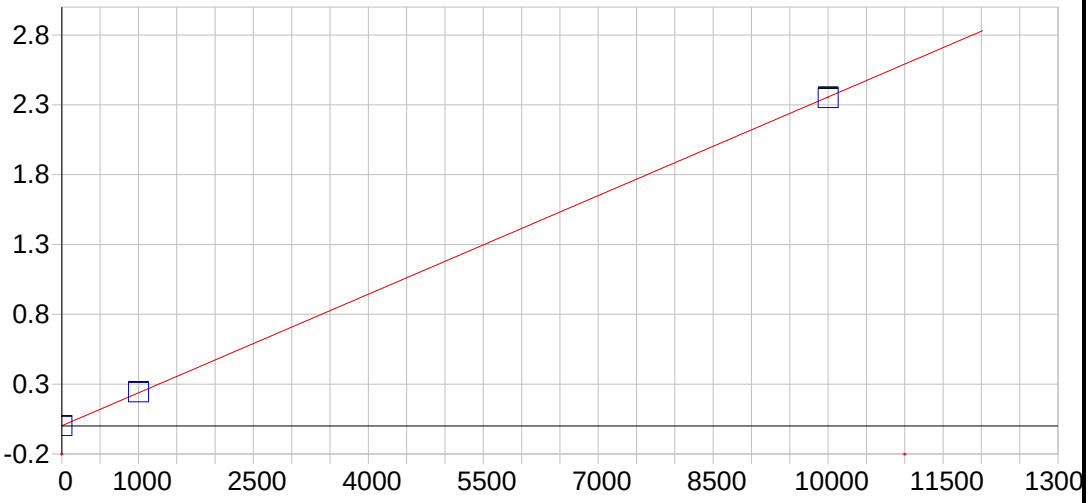


Mg 279.553 {121}

Date of Fit:	12/21/2010 10:39:12	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.002140	Re-Slope:	1.000000
A1 (Gain):	0.000343	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.996248	Status:	OK.
Std Error of Est:	0.001114		
Predicted MDL:	0.082890		
Predicted MQL:	0.276300		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	2.0061	2.01	.000	.00283	.003	1
CalibStd=50	50.000	50.502	.502	1.00	.01945	.000	1
CalibStd=10	10.000	7.4923	-2.51	-25.1	.00471	.000	1

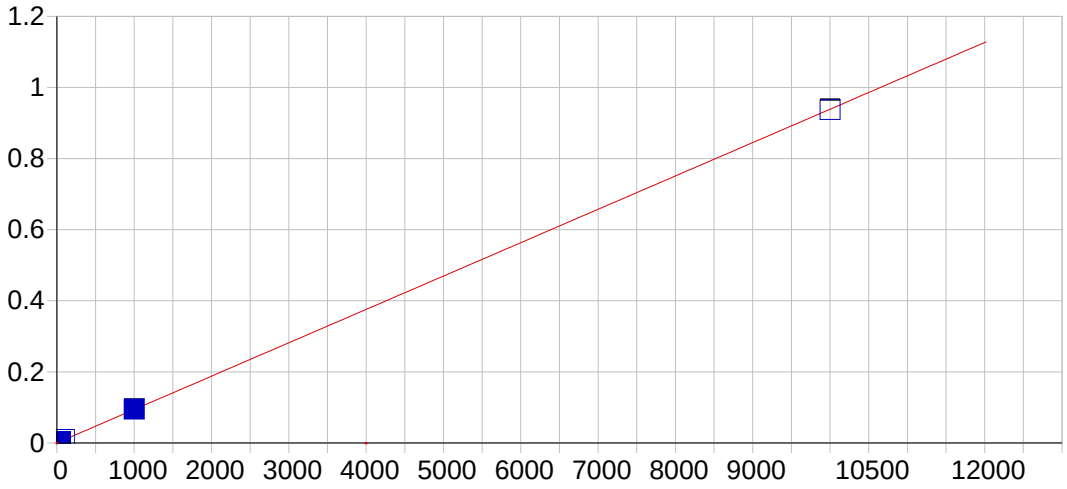


Mg 280.270 {120}

Date of Fit:	12/21/2010 10:54:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002130	Re-Slope:	1.000000
A1 (Gain):	0.000235	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999965	Status:	OK.
Std Error of Est:	0.000359		
Predicted MDL:	0.152744		
Predicted MQL:	0.509147		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.02392	-.024	.000	.00212	.002	1
CalibStd=100	1000.0	1026.6	26.6	2.66	.24379	.001	1
CalibStd=100	10000.	9973.4	-26.6	-.266	2.3499	.005	1

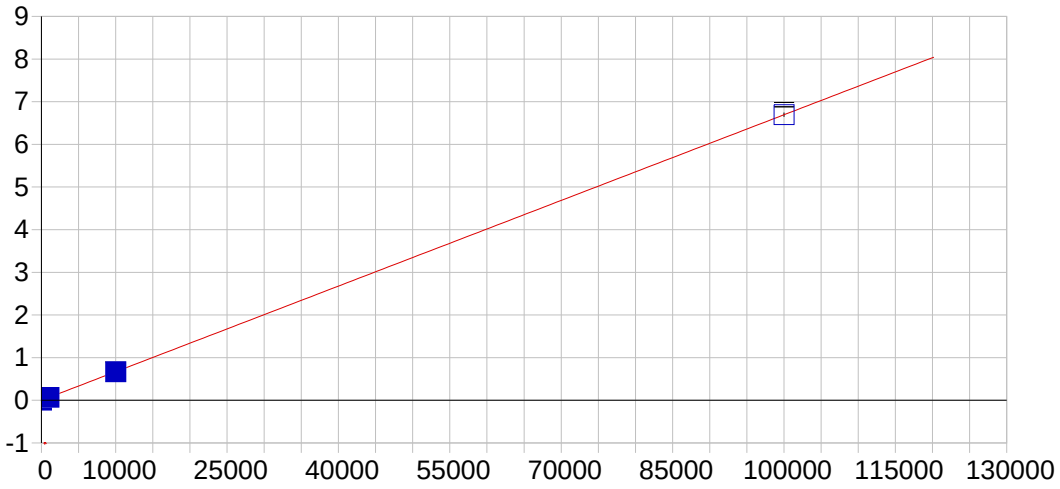


Mn 257.610 {131}

Date of Fit:	12/21/2010 10:54:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000170	Re-Slope:	1.000000
A1 (Gain):	0.000094	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999928	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	0.497371		
Predicted MQL:	1.657904		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00126	-.001	.000	.00017	.000	1
CalibStd=10	10.000	8.3221	-1.68	-16.8	.00095	.000	1
CalibStd=50	50.000	48.827	-1.17	-2.35	.00475	.000	1
CalibStd=20	20.000	18.952	-1.05	-5.24	.00195	.000	1
CalibStd=100	100.00	102.82	2.82	2.82	.00982	.000	1
CalibStd=5	5.0000	7.2928	2.29	45.9	.00085	.000	1
CalibStd=100	1000.0	1010.6	10.6	1.06	.09504	.000	1
CalibStd=100	10000.	9988.2	-11.8	-.118	.93779	.001	1

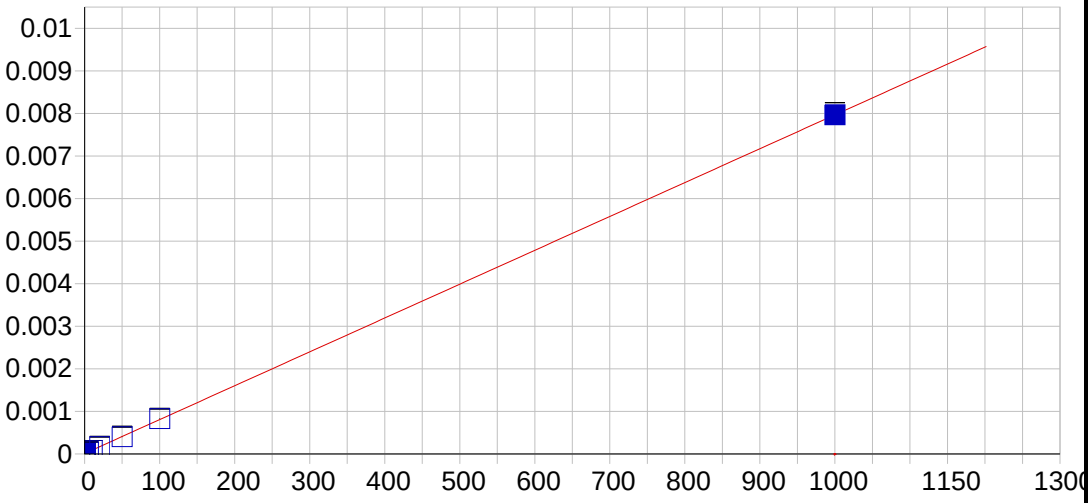


Mn 259.373 {130}

Date of Fit:	12/21/2010 11:00:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000106	Re-Slope:	1.000000
A1 (Gain):	0.000067	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000080		
Predicted MDL:	0.698089		
Predicted MQL:	2.326963		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01933	-.019	.000	.00010	.000	1
CalibStd=100	10000.	9959.0	-41.0	-.410	.66770	.002	1
CalibStd-100	100000.	100020.	17.8	.018	6.6949	.050	1
CalibStd=100	1000.0	1023.3	23.3	2.33	.06870	.000	1

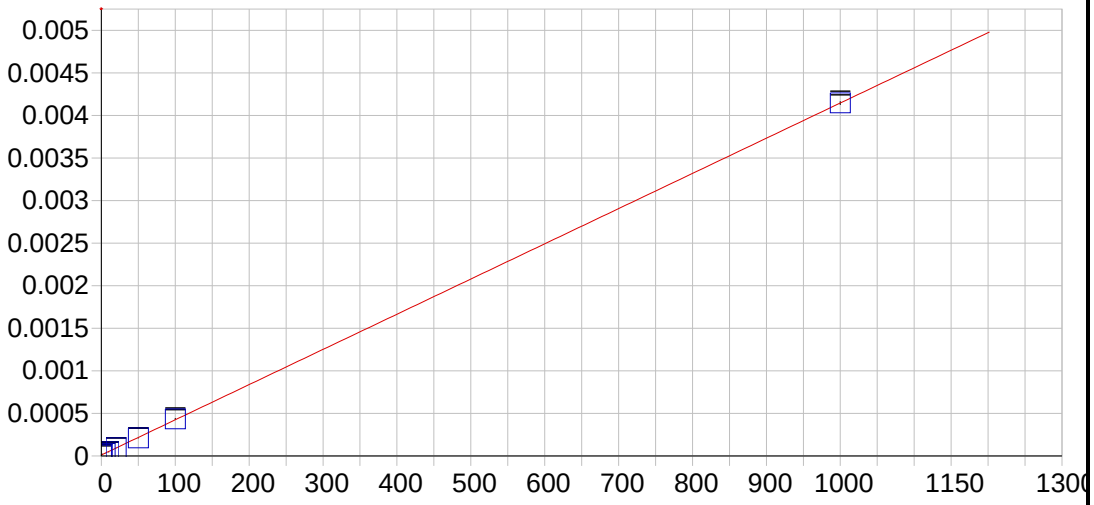


Mo 202.030 {467}

Date of Fit:	12/21/2010 10:49:24	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000012	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	1.046558		
Predicted MQL:	3.488525		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.02709	-.027	.000	.00001	.000	1
CalibStd=50	50.000	49.205	-.795	-1.59	.00040	.000	1
CalibStd=1	1.0000	.84413	-.156	-15.6	.00002	.000	1
CalibStd=20	20.000	19.850	-.150	-.751	.00017	.000	1
CalibStd=10	10.000	9.3640	-.636	-6.36	.00009	.000	1
CalibStd=100	100.00	102.62	2.62	2.62	.00083	.000	1
CalibStd=5	5.0000	4.3579	-.642	-12.8	.00005	.000	1
CalibStd=100	1000.0	999.79	-.209	-.021	.00797	.000	1

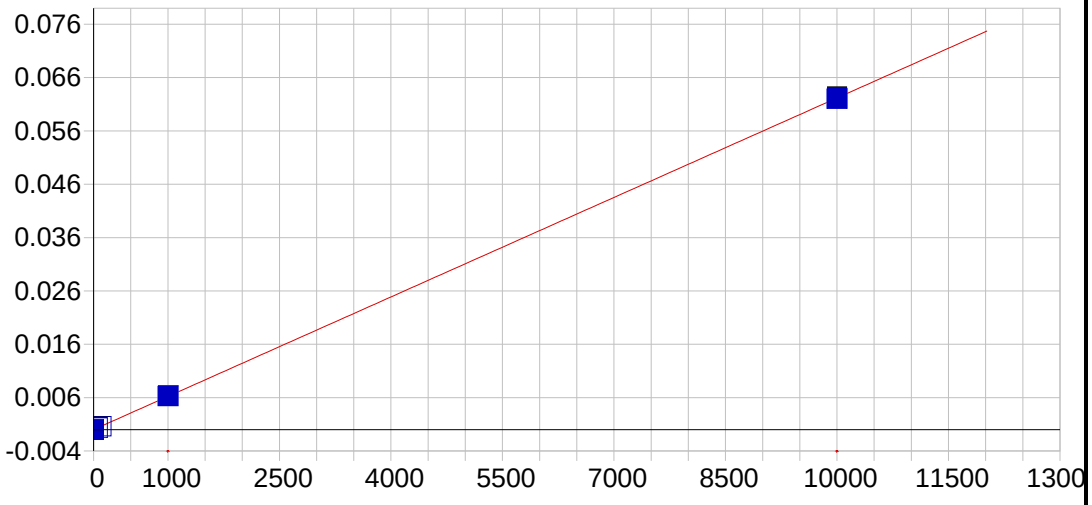


Mo 203.844 {465}

Date of Fit:	12/21/2010 10:49:24	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000011	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	2.073240		
Predicted MQL:	6.910802		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.57674	-.577	.000	.00001	.000	1
CalibStd=50	50.000	48.185	-1.81	-3.63	.00021	.000	1
CalibStd=1	1.0000	2.4134	1.41	141.	.00002	.000	1
CalibStd=20	20.000	20.259	.259	1.29	.00009	.000	1
CalibStd=10	10.000	8.5604	-1.44	-14.4	.00005	.000	1
CalibStd=100	100.00	102.56	2.56	2.56	.00044	.000	1
CalibStd=5	5.0000	4.7596	-.240	-4.81	.00003	.000	1
CalibStd=100	1000.0	999.84	-.156	-.016	.00415	.000	1

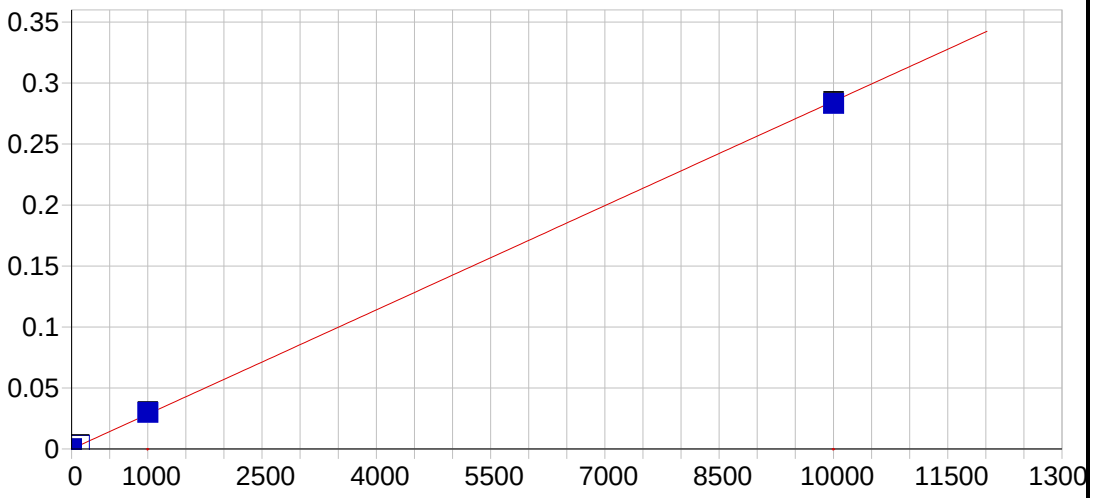


Mo 204.598 {465}

Date of Fit:	12/21/2010 10:54:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	1.526281		
Predicted MQL:	5.087602		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00254	-.003	.000	.00000	.000	1
CalibStd=100	1000.0	1014.9	14.9	1.49	.00631	.000	1
CalibStd=100	10000.	9981.9	-18.1	-.181	.06207	.000	1
CalibStd=50	50.000	50.532	.532	1.06	.00032	.000	1
CalibStd=100	100.00	102.71	2.71	2.71	.00064	.000	1

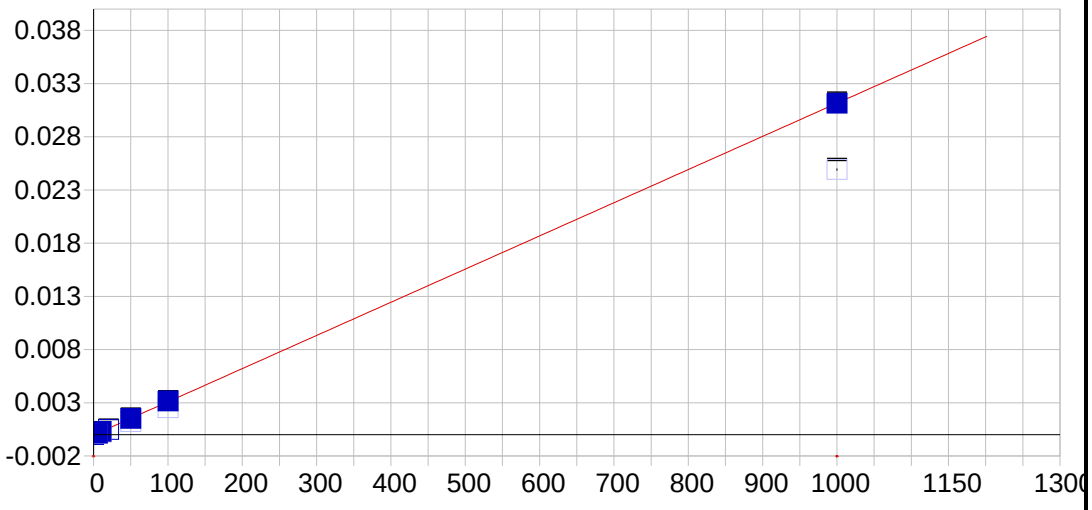


Ni 221.647 {452}

Date of Fit:	12/21/2010 10:54:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000025	Re-Slope:	1.000000
A1 (Gain):	0.000028	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999812	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	0.577117		
Predicted MQL:	1.923724		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01546	-.015	.000	.00002	.000	1
CalibStd=100	10000.	9938.2	-61.8	-.618	.28326	.001	1
CalibStd=100	100.00	111.01	11.0	11.0	.00319	.000	1
CalibStd=100	1000.0	1050.8	50.8	5.08	.02997	.000	1

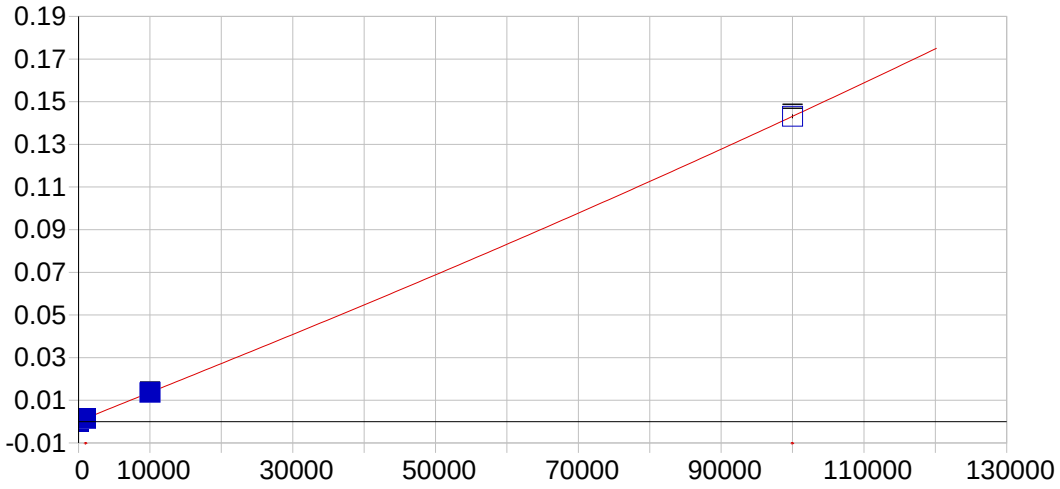


Ni 231.604 {445}

Date of Fit:	12/21/2010 10:49:24	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000029	Re-Slope:	1.000000
A1 (Gain):	0.000031	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999983	Status:	OK.
Std Error of Est:	0.000058		
Predicted MDL:	0.461739		
Predicted MQL:	1.539130		

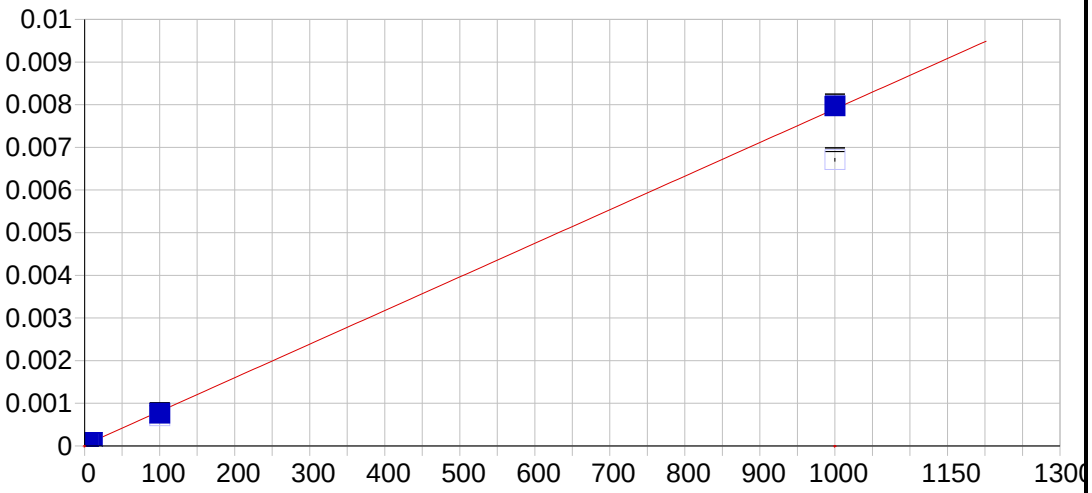
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.93065	.931	.000	.00000	.000	1
CalibStd=50	50.000	49.806	-.194	-.389	.00121	.000	1
CalibStd=20	20.000	16.538	-3.46	-17.3	.00049	.000	1
CalibStd=10	10.000	10.353	.353	3.53	.00023	.000	1
CalibStd=100	100.00	102.04	2.04	2.04	.00253	.000	1
CalibStd=5	5.0000	5.4481	.448	8.96	.00011	.000	1
CalibStd=100	1000.0	999.89	-.113	-.011	.02491	.000	1



Pb 216.999 {455}

Date of Fit:	12/21/2010 11:00:14	Type of Fit:	Full Fit	Weighting:	None
A0 (Offset):	0.000007		Re-Slope:	1.000000	
A1 (Gain):	0.000002		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	0.970000				
Correlation:	1.000000		Status:	Warning	Positive Curvature
Std Error of Est:	0.000000				
Predicted MDL:	7.742722				
Predicted MQL:	25.809074				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00000	.000	1
CalibStd=100	1000.0	1003.7	3.65	.365	.00147	.000	1
CalibStd=100	10000.	9999.5	-.453	-.005	.01375	.000	1
CalibStd-100	100000.	100000.	.004	.000	.14314	.001	1

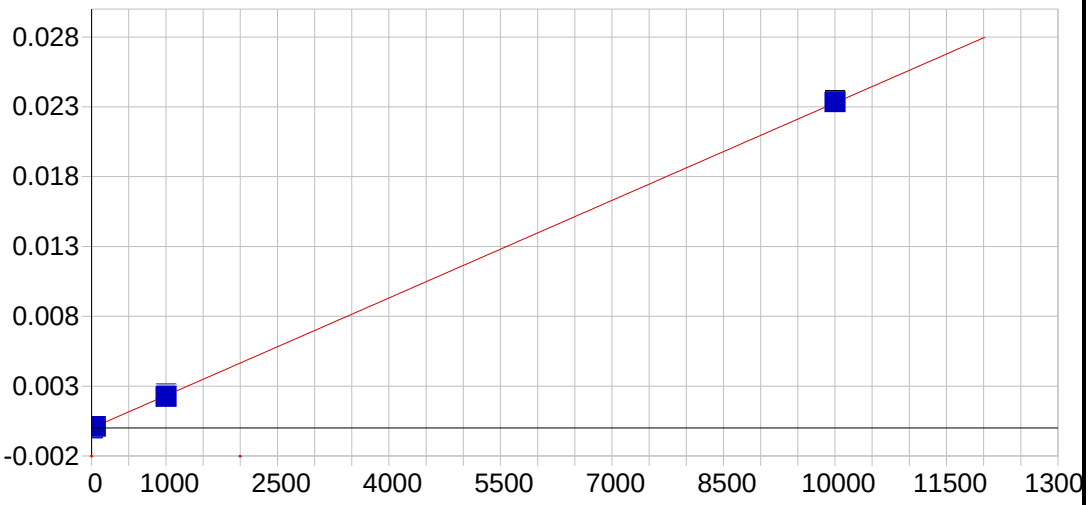


Pb 220.353 {453}

Date of Fit:	12/21/2010 10:49:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000023	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999290	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	1.655988		
Predicted MQL:	5.519961		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00120	.001	.000	.00002	.000	1
CalibStd=10	10.000	7.3221	-2.68	-26.8	.00007	.000	1
CalibStd=100	100.00	94.342	-5.66	-5.66	.00070	.000	1
CalibStd=5	5.0000	5.3744	.374	7.49	.00006	.000	1
CalibStd=100	1000.0	1008.7	8.72	.872	.00671	.000	1

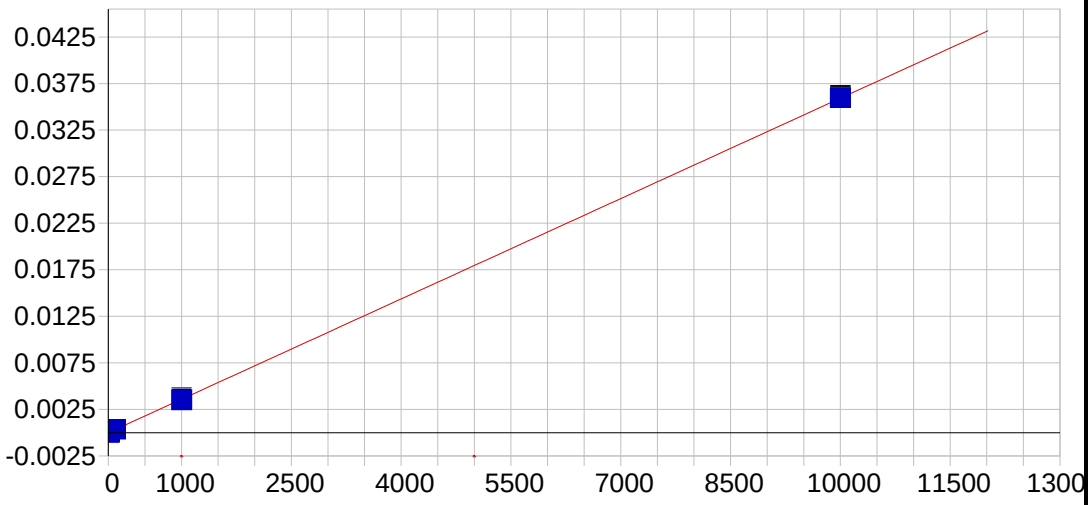


Sb 206.833 {463}

Date of Fit:	12/21/2010 10:54:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000005	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999902	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	4.350772		
Predicted MQL:	14.502575		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00306	-.003	.000	.00000	.000	1
CalibStd=100	1000.0	966.37	-33.6	-3.36	.00241	.000	1
CalibStd=10	10.000	13.016	3.02	30.2	.00003	.000	1
CalibStd=50	50.000	51.757	1.76	3.51	.00012	.000	1
CalibStd=100	10000.	10031.	30.9	.309	.02336	.000	1

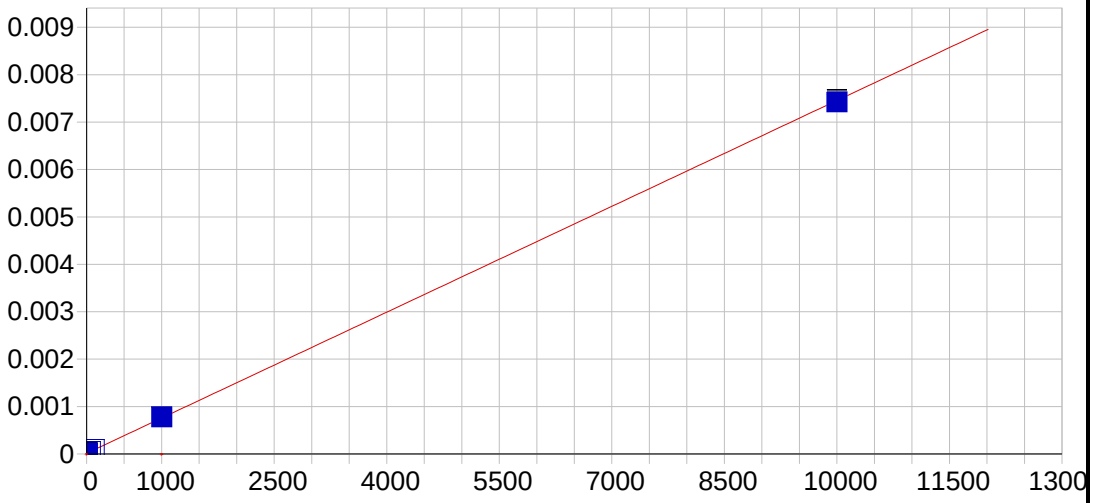


Sb 217.581 {455}

Date of Fit:	12/21/2010 10:54:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999967	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	4.218600		
Predicted MQL:	14.062001		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00084	.001	.000	.00000	.000	1
CalibStd=100	1000.0	980.20	-19.8	-1.98	.00370	.000	1
CalibStd=20	20.000	20.389	.389	1.94	.00007	.000	1
CalibStd=10	10.000	8.7543	-1.25	-12.5	.00003	.000	1
CalibStd=100	100.00	103.89	3.89	3.89	.00039	.000	1
CalibStd=100	10000.	10018.	17.6	.176	.03598	.000	1

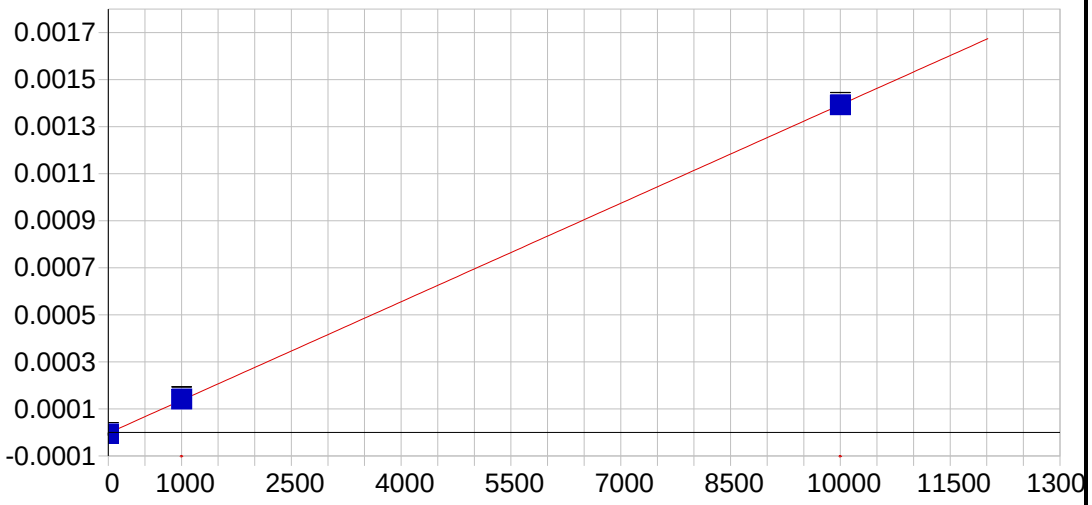


Se 196.090 {472}

Date of Fit:	12/21/2010 10:54:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000014	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999892	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	11.240496		
Predicted MQL:	37.468319		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00035	.000	.000	.00001	.000	1
CalibStd=50	50.000	53.906	3.91	7.81	.00005	.000	1
CalibStd=100	1000.0	1031.6	31.6	3.16	.00078	.000	1
CalibStd=10	10.000	8.4704	-1.53	-15.3	.00002	.000	1
CalibStd=100	100.00	108.28	8.28	8.28	.00009	.000	1
CalibStd=100	10000.	9957.7	-42.3	-.423	.00742	.000	1

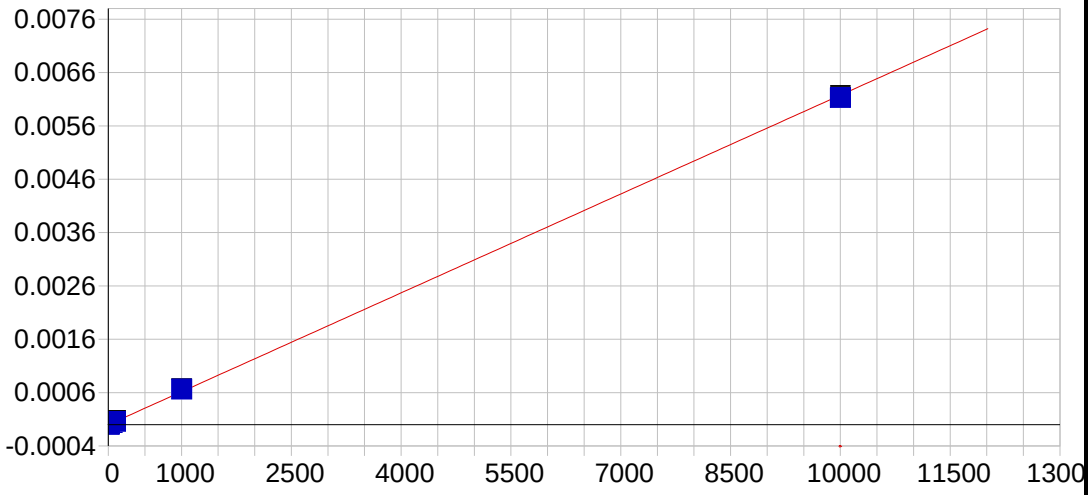


Se 206.279 {463}

Date of Fit:	12/21/2010 10:54:49	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999983	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	62.746111		
Predicted MQL:	209.153704		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-30.515	-30.5	.000	-.00001	.000	1
CalibStd=100	1000.0	1033.9	33.9	3.39	.00014	.000	1
CalibStd=100	10000.	9996.6	-3.39	-.034	.00139	.000	1

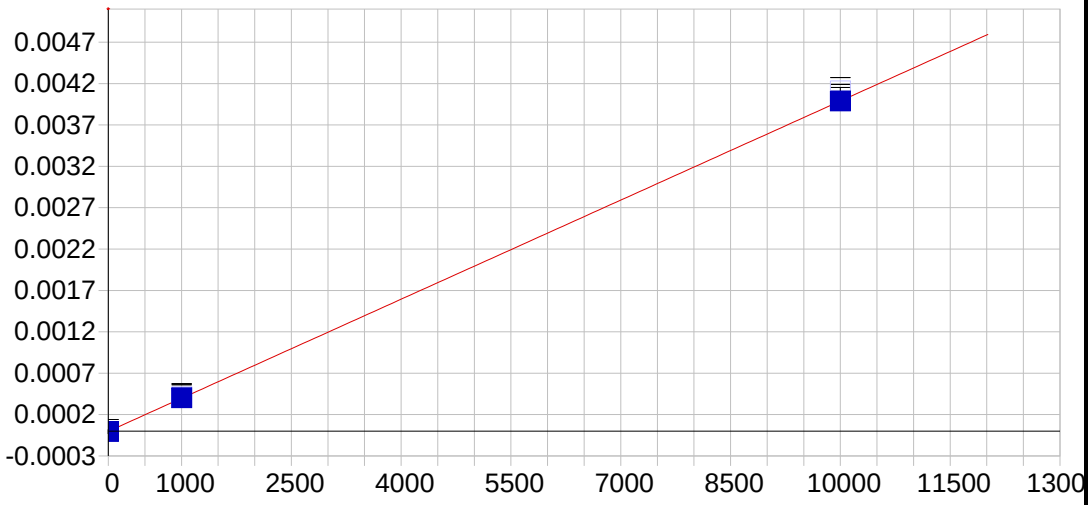


Tl 190.856 {477}

Date of Fit:	12/22/2010 08:47:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999601	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	11.546859		
Predicted MQL:	38.489529		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00378	.004	.000	.00000	.000	1
CalibStd=50	50.000	54.204	4.20	8.41	.00003	.000	1
CalibStd=100	1000.0	1076.4	76.4	7.64	.00066	.000	1
CalibStd=20	20.000	18.264	-1.74	-8.68	.00001	.000	1
CalibStd=100	100.00	100.44	.437	.437	.00006	.000	1
CalibStd=10	10.000	5.5116	-4.49	-44.9	.00000	.000	1
CalibStd=100	10000.	9925.2	-74.8	-.748	.00613	.000	1

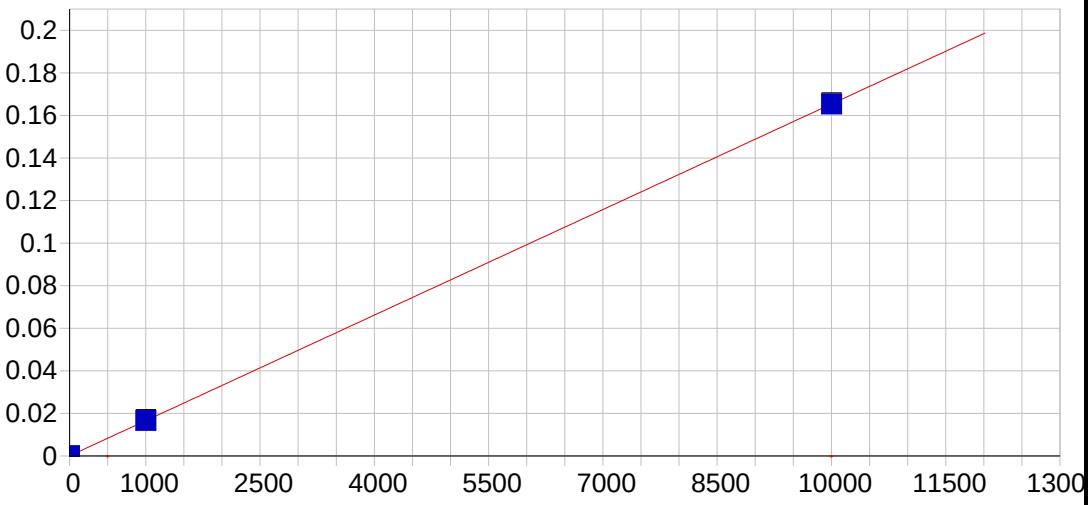


Tl 276.787 {122}

Date of Fit:	12/21/2010 10:54:49	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	137.936528		
Predicted MQL:	459.788425		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-11.248	-11.2	.000	-.00001	.000	1
CalibStd=100	1000.0	1012.5	12.5	1.25	.00041	.000	1
CalibStd=100	10000.	9998.8	-1.25	-.012	.00411	.000	1

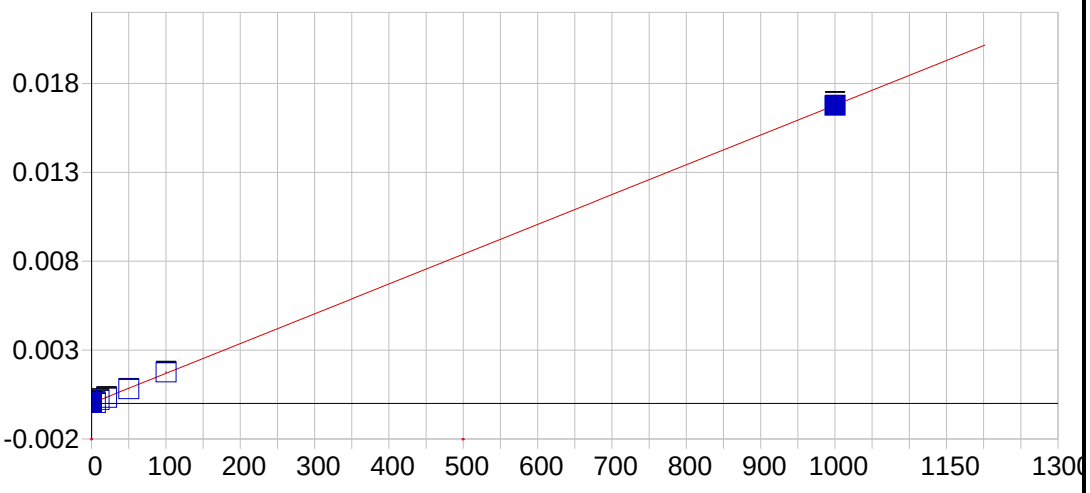


V 290.882 {116}

Date of Fit:	12/21/2010 10:54:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000060	Re-Slope:	1.000000
A1 (Gain):	0.000017	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	3.955455		
Predicted MQL:	13.184850		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00296	-.003	.000	.00006	.000	1
CalibStd=100	1000.0	1003.3	3.28	.328	.01665	.000	1
CalibStd=100	10000.	9996.7	-3.28	-.033	.16536	.000	1

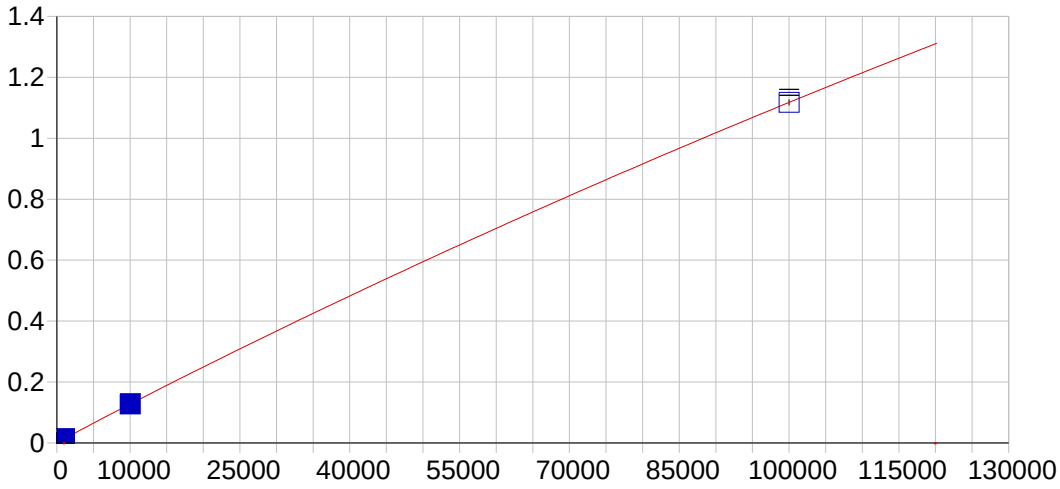


V 292.402 {115}

Date of Fit:	12/21/2010 10:49:24	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000011	Re-Slope:	1.000000
A1 (Gain):	0.000017	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999977	Status:	OK.
Std Error of Est:	0.000045		
Predicted MDL:	4.474590		
Predicted MQL:	14.915299		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	1.2397	1.24	.000	.00003	.000	1
CalibStd=50	50.000	48.168	-1.83	-3.66	.00082	.000	1
CalibStd=100	1000.0	999.69	-.312	-.031	.01677	.000	1
CalibStd=20	20.000	19.318	-.682	-3.41	.00034	.000	1
CalibStd=5	5.0000	1.4788	-3.52	-70.4	.00004	.000	1
CalibStd=10	10.000	10.839	.839	8.39	.00019	.000	1
CalibStd=100	100.00	104.27	4.27	4.27	.00176	.000	1

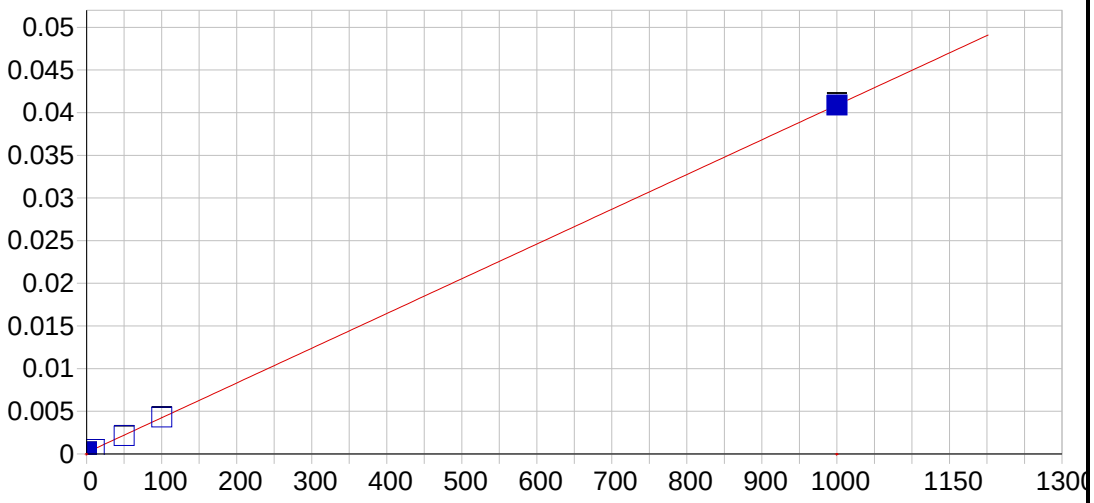


Zn 206.200 {463}

Date of Fit:	12/21/2010 11:00:14	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000019	Re-Slope:	1.000000
A1 (Gain):	0.000015	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.980000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.558231		
Predicted MQL:	1.860770		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
CalibStd=100	10000.	10000.	.482	.005	.12758	.001	1
CalibStd-100	100000.	100000.	-.006	.000	1.1177	.010	1
Blank	.00000	3.0171	3.02	.000	.00007	.000	1
CalibStd=100	1000.0	996.09	-3.91	-.391	.01344	.000	1

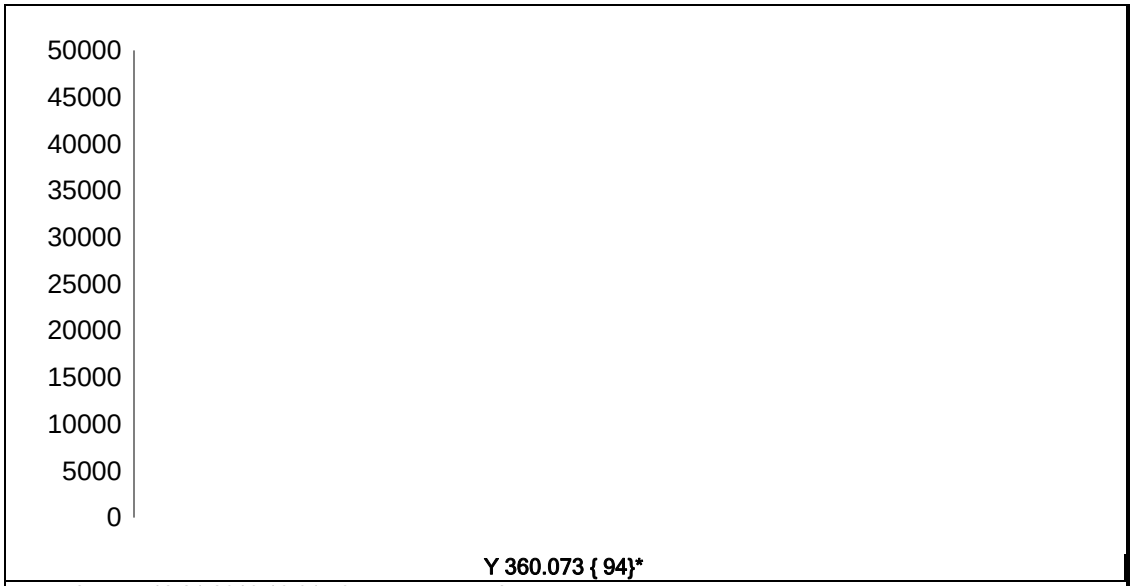


Zn 213.856 {458}

Date of Fit:	12/21/2010 10:49:24	Type of Fit:	Linear	Weighting:	None

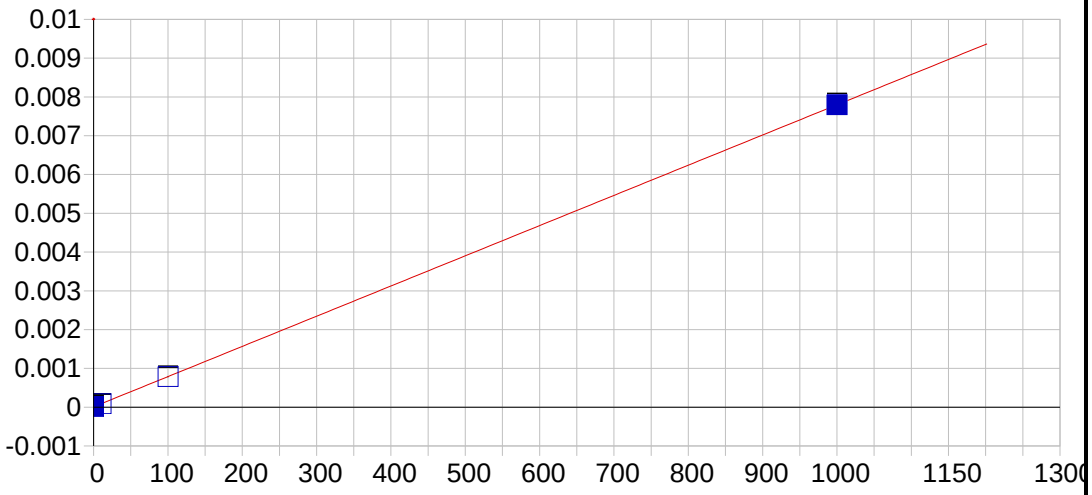
A0 (Offset):	0.000170	Re-Slope:	1.000000
A1 (Gain):	0.000041	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.000070		
Predicted MDL:	0.238920		
Predicted MQL:	0.796400		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	1.2635	1.26	.000	.00022	.000	1
CalibStd=100	100.00	101.72	1.72	1.72	.00431	.000	1
CalibStd=50	50.000	48.302	-1.70	-3.40	.00214	.000	1
CalibStd=10	10.000	8.7898	-1.21	-12.1	.00053	.000	1
CalibStd=100	1000.0	999.93	-.075	-.007	.04090	.000	1



Date of Fit:	12/21/2010 10:01:50	Type of Fit:	Linear	Weighting:	None	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	38754.	479.	1

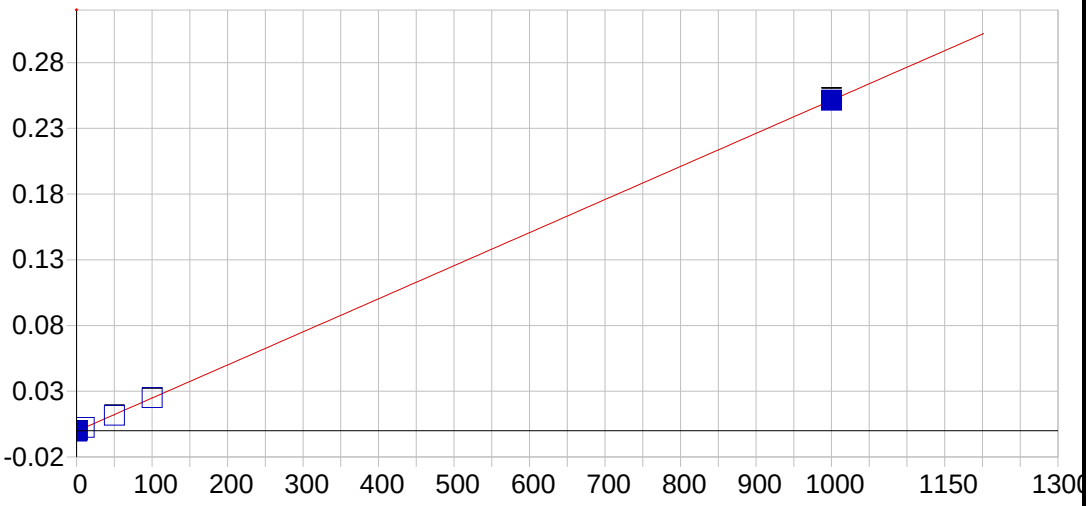


B 249.773 {135}

Date of Fit:	12/21/2010 10:49:24	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000009	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	5.554375		
Predicted MQL:	18.514584		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.51145	.511	.000	.00001	.000	1
CalibStd=10	10.000	9.7396	-.260	-2.60	.00009	.000	1
CalibStd=100	100.00	99.718	-.282	-.282	.00079	.000	1
CalibStd=100	1000.0	1000.0	.031	.003	.00780	.000	1

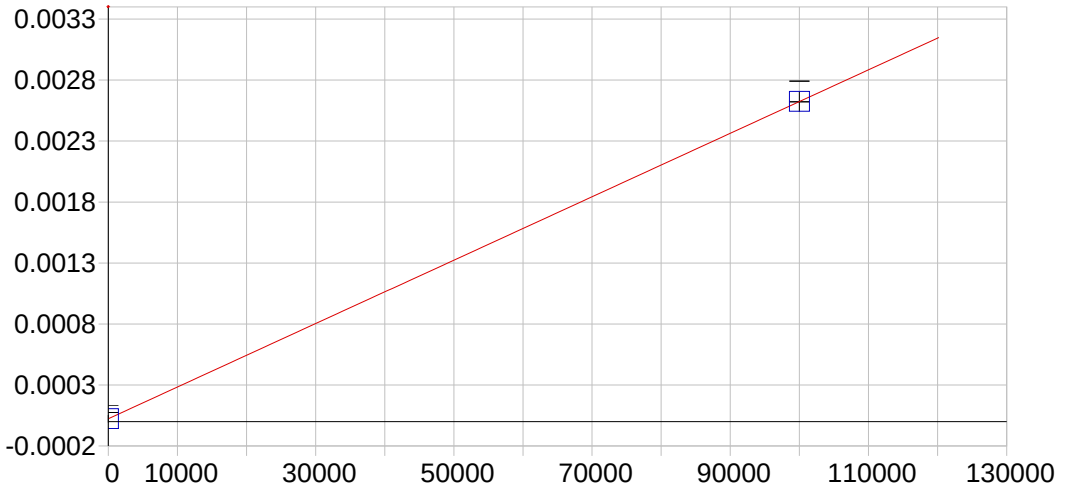


Li 670.784 { 50}

Date of Fit:	12/21/2010 10:49:24	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000353	Re-Slope:	1.000000
A1 (Gain):	0.000252	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000368		
Predicted MDL:	1.430129		
Predicted MQL:	4.767098		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.34655	-.347	.000	-.00044	.000	1
CalibStd=10	10.000	10.741	.741	7.41	.00235	.000	1
CalibStd=50	50.000	47.602	-2.40	-4.80	.01163	.000	1
CalibStd=100	100.00	100.67	.666	.666	.02499	.000	1
CalibStd=100	1000.0	1000.0	.045	.004	.25138	.002	1
CalibStd=1	1.0000	2.2931	1.29	129.	.00022	.000	1

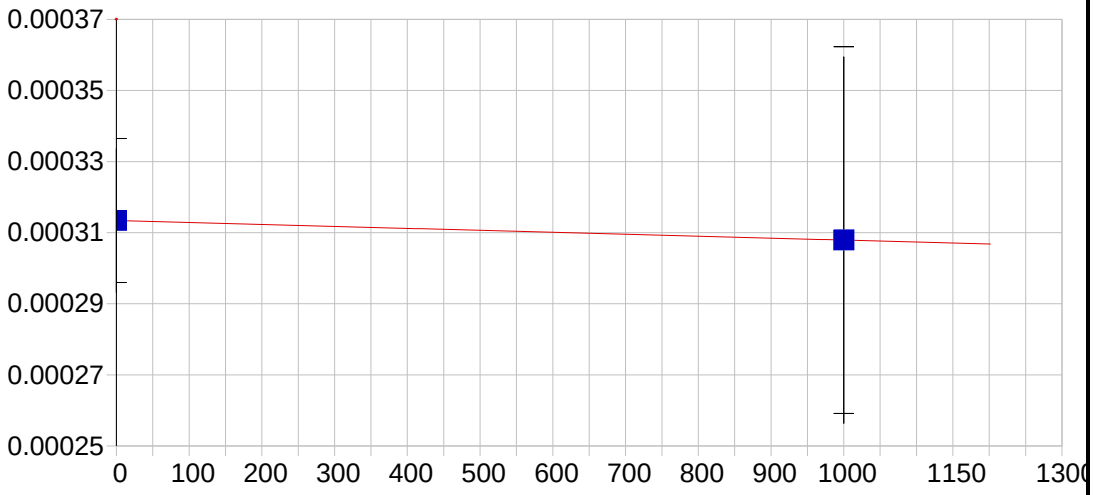


Na 330.298 {102}

Date of Fit:	12/21/2010 11:05:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000023	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	2814.691429		
Predicted MQL:	9382.304763		

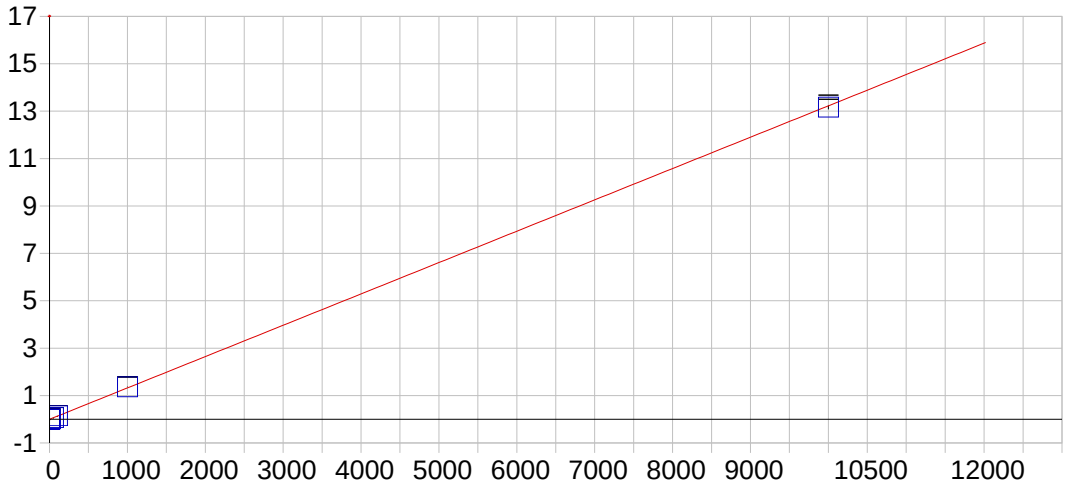
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00002	.000	1
CalibStd=100	100000.	100000.	.000	.000	.00262	.000	1



Si 251.611 {134}

Date of Fit:	12/21/2010 10:49:24	Type of Fit:	Linear	Weighting:	None
A0 (Offset):	0.000313		Re-Slope:	1.000000	
A1 (Gain):	-0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	1.000000		Status:	Warning	Negative Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00031	.000	1
CalibStd=100	1000.0	1000.0	.000	.000	.00031	.000	1

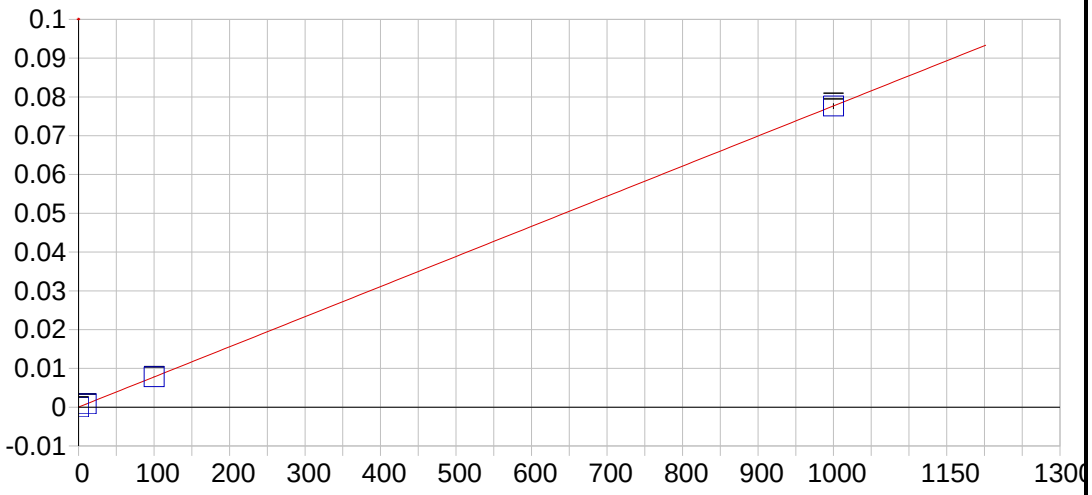


Sr 407.771 { 83}

Date of Fit:	12/21/2010 10:54:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001472	Re-Slope:	1.000000
A1 (Gain):	0.001323	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999881	Status:	OK.
Std Error of Est:	0.000079		
Predicted MDL:	0.096551		
Predicted MQL:	0.321836		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00088	-.001	.000	-.00147	.000	1
CalibStd=1	1.0000	1.7034	.703	70.3	.00078	.000	1
CalibStd=5	5.0000	5.0939	.094	1.88	.00527	.000	1
CalibStd=10	10.000	10.062	.062	.622	.01184	.000	1
CalibStd=50	50.000	51.528	1.53	3.06	.06668	.000	1
CalibStd=100	100.00	108.80	8.80	8.80	.14243	.000	1
CalibStd=100	1000.0	1033.7	33.7	3.37	1.3657	.008	1
CalibStd=100	10000.	9955.2	-44.8	-.448	13.166	.088	1



Ti 334.941 {101}

Date of Fit:	12/21/2010 10:49:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000032	Re-Slope:	1.000000
A1 (Gain):	0.000078	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.963731		
Predicted MQL:	3.212436		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00017	.000	.000	.00003	.000	1
CalibStd=10	10.000	10.113	.113	1.13	.00082	.000	1
CalibStd=100	100.00	100.60	.599	.599	.00784	.000	1
CalibStd=100	1000.0	999.29	-.711	-.071	.07763	.001	1

Sample Name: Blank Acquired: 12/21/2010 09:56:23 Type: Cal
Method: DOD Calibration 1(v1333) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Al3092	Al3961	As1890	As1937	Ba4554	Ba4934	Be2348	Be3130	Ca3179	Ca3933
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.001**	**.000**	**.000**	**.000**	**.000**	**.021**	**.000**	**.000**	**.006**	**.011**
Stddev	.000	.000	.000	.000	.000	.00	.00	.000	.00	.000	.000	.004
%RSD	142.	74.7	2.31	326.	488.	1170.	77.3	1.31	409.	117.	.771	40.6

Elem	Ca3968	Cd2265	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.004**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	42.1	438.	47.2	12.8	610.	1740.	98.0	7.53	33.3	32.2	56.0	117.

Elem	Mg2795	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.003**	**.002**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.003	.002	.000	.000	.000	.000	.000	.000	.000	.000	.00	.00
%RSD	107.	105.	79.1	145.	38.6	161.	47.3	5200.	131.	34.9	214.	262.

Elem	Se1960	Se2062	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.00	.00	.000	.000	.000	.000
%RSD	67.0	90.6	364.	41.3	192.	27.5	6.90

Sample Name: Blank Acquired: 12/21/2010 09:56:23 Type: Cal
Method: DOD Calibration 1(v1333) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**38754.**
Stddev	479.
%RSD	1.2348

Sample Name: CalibStd=0.25 Acquired: 12/21/2010 10:01:53 Type: Cal
Method: DOD Calibration 1(v1333) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130
Units	Cts/S
Avg	**.000**
Stddev	.000
%RSD	21.1

Int. Std.	Y_3600
Units	Cts/S
Avg	**39507.**
Stddev	597.
%RSD	1.5102

Sample Name: CalibStd=0.5 Acquired: 12/21/2010 10:07:24 Type: Cal
Method: DOD Calibration 1(v1333) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	**.000**	**.000**
Stddev	.000	.000
%RSD	15.3	7.03

Int. Std.	Y_3600
Units	Cts/S
Avg	**39520.**
Stddev	131.
%RSD	.33262

Sample Name: CalibStd=1 Acquired: 12/21/2010 10:12:44 Type: Cal
Method: DOD Calibration 1(v1333) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Cd2265	Mo2020
Units	Cts/S	Cts/S
Avg	**.000**	**.000**
Stddev	.000	.000
%RSD	4.43	48.1

Int. Std.	Y_3600
Units	Cts/S
Avg	**39714.**
Stddev	275.
%RSD	.69187

Sample Name: CalibStd=5 Acquired: 12/21/2010 10:18:03 Type: Cal
Method: DOD Calibration 1(v1333) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	Ba4554	Be3130	Cd2265	Co2286	Mn2576	Mo2020	Ni2316	Pb2203	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.003**	**.005**	**.000**	**.000**	**.001**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	65.1	14.6	4.42	1.73	.858	.462	4.06	10.0	1.95	21.8	124.

Int. Std.	Y_3600
Units	Cts/S
Avg	**39716.**
Stddev	352.
%RSD	.88742

Sample Name: CalibStd=10 Acquired: 12/21/2010 10:23:23 Type: Cal
Method: DOD Calibration 1(v1333) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mg2795	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.005**	**.009**	**.001**	**.000**	**.000**	**.000**	**.005**	**.001**	**.000**
Stddev	.000	.000	.00	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	26.3	5.48	376.	.483	.582	1.61	1.41	25.8	2.20	.304	3.49	4.28

Elem	Ni2316	Pb2203	Sb2068	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.001**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	4.23	8.44	19.7	40.0	9.95	252.	27.7	2.62

Int. Std.	Y_3600
Units	Cts/S
Avg	**40134.**
Stddev	167.
%RSD	.41525

Sample Name: CalibStd=20 Acquired: 12/21/2010 10:28:43 Type: Cal
Method: DOD Calibration 1(v1333) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Ba4554	Cr2677	Fe2599	Mn2576	Mo2020	Ni2316	Sb2175	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.011**	**.000**	**.000**	**.002**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	5.17	1.66	4.16	6.64	3.56	4.48	3.54	10.9	34.8	9.81

Int. Std.	Y_3600
Units	Cts/S
Avg	**39868.**
Stddev	308.
%RSD	.77163

Sample Name: CalibStd=50 Acquired: 12/21/2010 10:34:00 Type: Cal
Method: DOD Calibration 1(v1333) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	As1937	Ba4554	Ca3933	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2599	Mg2795	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.027**	**.130**	**.004**	**.001**	**.001**	**.001**	**.001**	**.001**	**.019**	**.005**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	3.34	5.51	.414	.338	.694	.104	1.40	4.81	1.13	3.27	.395	1.20

Elem	Mo2020	Mo2045	Ni2316	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.001**	**.000**	**.000**	**.000**	**.001**	**.002**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	2.34	1.92	2.22	7.00	8.99	14.2	2.01	.596

Int. Std.	Y_3600
Units	Cts/S
Avg	**39998.**
Stddev	222.
%RSD	.55457

Sample Name: CalibStd=100 Acquired: 12/21/2010 10:39:15 Type: Cal
Method: DOD Calibration 1(v1333) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	As1890	As1937	Ba4554	Be2348	Be3130	Ca3968	Cd2265	Cd2288	Co2286	Cr2677	Cr2835
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.003**	**.000**	**.000**	**.057**	**.007**	**.094**	**.080**	**.009**	**.008**	**.003**	**.002**	**.002**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.87	25.8	4.85	.775	.390	.172	.401	.803	.676	.926	1.70	1.09

Elem	Cu2247	Fe2599	Mn2576	Mo2020	Mo2045	Ni2216	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.002**	**.010**	**.001**	**.001**	**.003**	**.003**	**.001**	**.000**	**.000**	**.000**	**.002**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	.980	1.47	.794	.996	2.02	1.00	1.45	1.45	1.43	2.96	11.3	2.01

Elem	Zn2138
Units	Cts/S
Avg	**.004**
Stddev	.000
%RSD	.828

Int. Std.	Y_3600
Units	Cts/S
Avg	**39837.**
Stddev	344.
%RSD	.86385

Sample Name: CalibStd=1000 Acquired: 12/21/2010 10:44:29 Type: Cal
Method: DOD Calibration 1(v1333) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al1670	Al3092	Al3961	As1890	As1937	Ba4934	Be2348	Be3130	Ca3179	Ca3933	Ca3968	Cd2265
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.006**	**.013**	**.000**	**.001**	**.590**	**.065**	**.927**	**.017**	**1.95**	**.712**	**.088**
Stddev	.000	.000	.000	.000	.000	.003	.000	.006	.000	.01	.004	.001
%RSD	.356	.767	.751	2.61	.674	.578	.588	.618	.534	.527	.524	.724

Elem	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Fe2343	Fe2395	Fe2599	Mg2790	Mg2802	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.076**	**.028**	**.006**	**.015**	**.020**	**.017**	**.002**	**.005**	**.016**	**.001**	**.244**	**.095**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000
%RSD	.515	.474	.583	.869	.337	.551	2.14	1.30	1.42	2.93	.358	.318

Elem	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960	Se2062	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.069**	**.008**	**.006**	**.030**	**.025**	**.001**	**.007**	**.002**	**.004**	**.001**	**.000**	**.001**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	.470	.689	.281	.821	.422	.671	.657	.705	.864	.629	6.88	.341

Elem	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.017**	**.017**	**.013**	**.041**
Stddev	.000	.000	.000	.000
%RSD	1.00	1.12	.272	.557

Sample Name: CalibStd=1000 Acquired: 12/21/2010 10:44:29 Type: Cal
Method: DOD Calibration 1(v1333) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Units	Cts/S
Avg	**39755.**
Stddev	204.
%RSD	.51374

Sample Name: CalibStd=10000 Acquired: 12/21/2010 10:49:27 Type: Cal
Method: DOD Calibration 1(v1333) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	As1890	Ba4934	Ca3179	Ca3968	Co2388	Cr2835	Cu2247	Fe2343	Fe2395	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.050**	**.126**	**.003**	**5.78**	**.115**	**6.92**	**.055**	**.197**	**.165**	**.017**	**.045**	**.011**
Stddev	.000	.000	.000	.06	.000	.06	.000	.000	.001	.000	.000	.000
%RSD	.081	.072	.285	1.02	.127	.903	.313	.149	.394	.274	.608	1.96

Elem	Mg2802	Mn2576	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175	Se1960	Se2062	Tl1908	V_2908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.35**	**.938**	**.668**	**.062**	**.283**	**.014**	**.023**	**.036**	**.007**	**.001**	**.006**	**.165**
Stddev	.01	.001	.002	.000	.001	.000	.000	.000	.000	.000	.000	.000
%RSD	.196	.134	.239	.370	.400	.193	.291	.500	.650	.668	.477	.215

Elem	Zn2062
Units	Cts/S
Avg	**.128**
Stddev	.001
%RSD	.458

Int. Std.	Y_3600
Units	Cts/S
Avg	**38738.**
Stddev	135.
%RSD	.34908

Sample Name: CalibStd-100k Acquired: 12/21/2010 10:54:53 Type: Cal
Method: DOD Calibration 1(v1333) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Cr2835	Mn2593	Pb2169	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.03**	**6.69**	**.143**	**1.12**
Stddev	.00	.05	.001	.01
%RSD	.048	.749	.650	.862

Int. Std.	Y_3600
Units	Cts/S
Avg	**39022.**
Stddev	272.
%RSD	.69650

Sample Name: CalibStd=100000 Acquired: 12/21/2010 11:00:18 Type: Cal
Method: DOD Calibration 1(v1333) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.470**	**1.17**	**1.03**	**.158**	**.129**
Stddev	.001	.00	.00	.001	.001
%RSD	.208	.228	.407	.411	.800

Int. Std.	Y_3600
Units	Cts/S
Avg	**38002.**
Stddev	364.
%RSD	.95904

Sample Name: CalibStd=500000 Acquired: 12/21/2010 11:05:57 Type: Cal
Method: DOD Calibration 1(v1333) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3092	Al3961	Ca3179	Fe2343	Fe2395	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.47**	**6.30**	**4.94**	**.752**	**1.91**	**.671**
Stddev	.01	.03	.01	.003	.01	.004
%RSD	.200	.415	.180	.373	.344	.648

Int. Std.	Y_3600
Units	Cts/S
Avg	**36697.**
Stddev	146.
%RSD	.39684

Sample Name: CalibStd-1000k Acquired: 12/21/2010 11:11:39 Type: Cal
Method: DOD Calibration 1(v1333) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12.1**	**9.22**	**1.39**	**1.31**
Stddev	.1	.08	.01	.01
%RSD	.746	.870	.359	.515

Int. Std.	Y_3600
Units	Cts/S
Avg	**35496.**
Stddev	108.
%RSD	.30357

Sample Name: icv Acquired: 12/21/2010 11:22:58 Type: QC
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247	Fe2343
Avg	**116.**	**11700.**	**2050.**	**2020.**	**50.1**	**10600.**	**49.9**	**505.**	**198.**	**257.**	**5430.**
Stddev	1.	105.	1.	10.	.3	58.	.1	10.	3.	2.	26.
%RSD	.565	.903	.032	.510	.669	.548	.239	2.04	1.66	.768	.483
Check ?	None	None	None	None	None	None	None	None	None	None	None
Value											
Range											

Elem	Mg2802	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2908	Zn2138
Avg	**10300.**	**509.**	**507.**	**488.**	**505.**	**522.**	**2120.**	**2190.**	**511.**	**507.**
Stddev	51.	1.	1.	5.	1.	.	24.	19.	6.	3.
%RSD	.495	.133	.239	.979	.283	.072	1.12	.857	1.21	.542
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	**39203.**
Stddev	158.
%RSD	.40355

Sample Name: icb Acquired: 12/21/2010 11:33:36 Type: QC
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**-.700**	**5.24**	**-9.18**	**.198**	**-.043**	**28.5**	**-.135**	**-.622**	**1.88**	**-.732**	**27.2**	**30.8**
Stddev	1.24	2.37	8.82	.021	.032	13.2	.050	.052	.95	.404	12.8	13.7
%RSD	177.	45.2	96.1	10.9	72.7	46.3	36.6	8.40	50.3	55.3	47.1	44.5
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**-1.41**	**-.552**	**.005**	**-2.25**	**-2.84**	**-4.06**	**-2.19**	**.098**	**-1.48**
Stddev	.18	.926	.375	.32	1.00	8.73	4.14	2.16	.00
%RSD	13.1	168.	8260.	14.4	35.3	215.	189.	2200.	.081
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**39568.**
Stddev	148.
%RSD	.37489

Sample Name: MRL Acquired: 12/21/2010 11:38:54 Type: QC
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**20.5**	**397.**	**6.95**	**9.84**	**3.91**	**472.**	**4.86**	**9.51**	**10.4**	**9.63**	**286.**	**496.**
Stddev	7.5	34.	4.08	.63	.41	50.	.23	.99	3.4	1.68	31.	53.
%RSD	36.6	8.65	58.8	6.35	10.5	10.6	4.68	10.4	33.2	17.5	10.9	10.7
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**8.42**	**9.32**	**10.5**	**8.09**	**20.4**	**13.0**	**18.5**	**10.2**	**8.91**
Stddev	1.04	.86	.9	1.62	3.6	10.2	8.4	5.0	.95
%RSD	12.4	9.20	8.68	20.0	17.8	78.4	45.4	48.8	10.6
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**40674.**
Stddev	3543.
%RSD	8.7114

Sample Name: icsa Acquired: 12/21/2010 11:44:10 Type: QC
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Avg	**.000**	**522000.**	**-.048**	**.000**	**.000**	**556000.**	**.002**	**.081**	**.000**	**.000**
Stddev	4.20	4440.	15.9	.154	.10	1860.	.277	.284	4.33	.399
%RSD	1419e15	.851	33300.	98e15	192e6	.335	18400.	352.	16e6	1610000.
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Avg	**500000.**	**511000.**	**.000**	**.000**	**.032**	**.097**	**.000**	**.071**	**.000**	**.000**
Stddev	2690.	1910.	.618	.228	.175	1.38	12.8	17.8	19.7	3.17
%RSD	.539	.373	241e6	393000.	539.	1420.	8620000.	25000.	9100000.	8680000.
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Zn2138
Avg	**-.001**
Stddev	.283
%RSD	26100.
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: icsa Acquired: 12/21/2010 11:44:10 Type: QC
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**36563.**
Stddev	168.
%RSD	.45908

Sample Name: icsab Acquired: 12/21/2010 11:49:52 Type: QC
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2286	Cr2835	Cu2247
Avg	**534.**	**527000.**	**564.**	**527.**	**484.**	**565000.**	**505.**	**459.**	**406.**	**489.**
Stddev	.	480.	17.	2.	4.	2130.	2.	2.	6.	2.
%RSD	.065	.091	2.97	.412	.740	.376	.317	.509	1.53	.456
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Fe2343	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2908
Avg	**510000.**	**526000.**	**548.**	**506.**	**442.**	**443.**	**508.**	**501.**	**435.**	**509.**
Stddev	543.	750.	1.	1.	3.	5.	6.	14.	7.	5.
%RSD	.107	.142	.249	.275	.597	1.19	1.10	2.69	1.53	.926
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Zn2138
Avg	**514.**
Stddev	1.
%RSD	.247
Check ?	None
Value	
Range	

Sample Name: icsab Acquired: 12/21/2010 11:49:52 Type: QC
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Int. Std.	Y_3600
Avg	**36687.**
Stddev	139.
%RSD	.38005

Sample Name: ccv1 Acquired: 12/21/2010 19:11:30 Type: QC
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2265	Co2388	Cr2835	Cu2247	Fe2343	Mg2802
Avg	**441.**	**4720.**	**4610.**	**4840.**	**443.**	**5010.**	**454.**	**4740.**	**4600.**	**4900.**	**5180.**	**4940.**
Stddev	4.	22.	16.	2.	.	23.	4.	2.	19.	41.	6.	19.
%RSD	.949	.466	.348	.042	.078	.460	.836	.037	.410	.829	.109	.381
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2175	Se2062	Tl1908	V_2908	Zn2062
Avg	**4860.**	**4450.**	**5040.**	**4550.**	**4820.**	**4630.**	**4700.**	**4890.**	**4610.**
Stddev	18.	36.	40.	26.	45.	34.	43.	20.	29.
%RSD	.375	.802	.791	.565	.926	.732	.917	.401	.635
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**40805.**
Stddev	318.
%RSD	.77886

Sample Name: ccv2 Acquired: 12/21/2010 19:16:41 Type: QC
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4934	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**47.7**	**502.**	**476.**	**487.**	**48.1**	**503.**	**47.9**	**478.**	**485.**	**507.**	**457.**	**509.**
Stddev	3.0	5.	6.	1.	.1	1.	.3	3.	6.	4.	2.	1.
%RSD	6.33	.973	1.21	.264	.261	.160	.606	.608	1.19	.759	.509	.128
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**486.**	**456.**	**462.**	**467.**	**492.**	**499.**	**503.**	**488.**	**465.**
Stddev	3.	2.	3.	2.	5.	1.	8.	3.	3.
%RSD	.611	.383	.648	.422	.954	.174	1.55	.537	.548
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**41262.**
Stddev	285.
%RSD	.69048

Sample Name: cal blk Acquired: 12/21/2010 19:21:45 Type: QC
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2795
Avg	**.498**	**-1.98**	**-8.39**	**1.24**	**.027**	**2.07**	**-.031**	**.344**	**.777**	**-.024**	**-5.68**	**1.35**
Stddev	1.79	2.02	2.06	.32	.016	.08	.049	.069	1.24	.055	3.82	.06
%RSD	359.	102.	24.5	25.8	59.9	3.75	157.	20.0	159.	230.	67.2	4.19
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**-.223**	**1.05**	**.563**	**-1.04**	**1.33**	**1.10**	**1.60**	**3.14**	**-2.05**
Stddev	.262	.12	.069	.40	2.46	.53	1.75	.11	.20
%RSD	118.	11.1	12.3	39.0	185.	48.5	110.	3.54	9.96
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**40889.**
Stddev	134.
%RSD	.32706

Sample Name: lcsw35700 Acquired: 12/21/2010 20:11:14 Type: Unk
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2388	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**91.2**	**3920.**	**3770.**	**3990.**	**96.2**	**203000.**	**86.6**	**950.**	**386.**	**447.**
Stddev	3.5	8.	9.	8.	.4	628.	.5	1.	1.	2.
%RSD	3.87	.196	.240	.198	.442	.310	.599	.104	.290	.477

Elem	Fe2599	Mg2790	Mn2576	Mo2045	Ni2316	Pb2203	Sb2068	Se2062	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1780.**	**105000.**	**950.**	**1840.**	**850.**	**837.**	**849.**	**3630.**	**4060.**	**1010.**
Stddev	4.	279.	1.	12.	5.	5.	5.	31.	25.	1.
%RSD	.203	.266	.055	.622	.581	.588	.552	.860	.623	.098

Elem	Zn2138
Units	ug/L
Avg	**893.**
Stddev	5.
%RSD	.560

Int. Std.	Y_3600
Units	Cts/S
Avg	**36989.**
Stddev	173.
%RSD	.46805

Sample Name: mbw35700 Acquired: 12/21/2010 20:16:41 Type: Unk
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.12**	**-6.31**	**2.02**	**.476**	**.018**	**14.2**	**.106**	**.032**	**-1.03**	**-.684**	**-10.1**	**6.71**
Stddev	1.99	2.91	8.82	.109	.066	4.2	.145	.235	.69	.308	.8	2.07
%RSD	177.	46.2	438.	23.0	356.	29.4	136.	731.	66.7	45.0	7.70	30.8

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-1.71**	**-.200**	**.573**	**-1.85**	**2.80**	**-7.66**	**11.7**	**1.93**	**-2.72**
Stddev	.30	.280	.299	.66	1.05	12.4	2.9	5.03	.18
%RSD	17.7	140.	52.3	35.9	37.7	162.	25.0	260.	6.67

Int. Std.	Y_3600
Units	Cts/S
Avg	**40682.**
Stddev	312.
%RSD	.76592

Sample Name: 877664 Acquired: 12/21/2010 20:22:00 Type: Unk
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-2.32**	**84800.**	**131.**	**871.**	**7.43**	**159000.**	**6.94**	**82.8**	**599.**	**184.**
Stddev	1.84	138.	7.	1.	.12	381.	.09	.1	4.	.
%RSD	79.6	.162	5.12	.152	1.60	.240	1.34	.067	.684	.187

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**170000.**	**34700.**	**6690.**	**9.86**	**180.**	**563.**	**10.2**	**-2.18**	**-4.33**	**131.**
Stddev	341.	200.	14.	1.43	.	2.	1.6	5.85	12.4	1.
%RSD	.201	.577	.202	14.5	.201	.371	16.0	268.	287.	.803

Elem	Zn2138
Units	ug/L
Avg	**870.**
Stddev	4.
%RSD	.452

Int. Std.	Y_3600
Units	Cts/S
Avg	**39724.**
Stddev	94.
%RSD	.23757

Sample Name: ccv1 Acquired: 12/21/2010 20:27:28 Type: QC
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2265	Co2388	Cr2835	Cu2247	Fe2343	Mg2802
Avg	**452.**	**4860.**	**4760.**	**4890.**	**464.**	**4910.**	**466.**	**4710.**	**4580.**	**4900.**	**5030.**	**4860.**
Stddev	10.	37.	62.	42.	7.	69.	5.	60.	59.	60.	58.	60.
%RSD	2.19	.754	1.30	.861	1.59	1.40	1.15	1.28	1.28	1.23	1.16	1.24
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2175	Se2062	Tl1908	V_2908	Zn2062
Avg	**4690.**	**4690.**	**4870.**	**4710.**	**4630.**	**4840.**	**4760.**	**4720.**	**4650.**
Stddev	65.	63.	55.	65.	48.	116.	60.	56.	61.
%RSD	1.39	1.34	1.14	1.39	1.03	2.39	1.25	1.18	1.32
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**39816.**
Stddev	487.
%RSD	1.2238

Sample Name: ccv2 Acquired: 12/21/2010 20:32:39 Type: QC
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1890	Ba4934	Be3130	Ca3933	Cd2265	Co2388	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**48.7**	**510.**	**461.**	**478.**	**48.1**	**508.**	**49.2**	**478.**	**464.**	**509.**	**477.**	**498.**
Stddev	.9	3.	16.	5.	.3	3.	.3	2.	5.	4.	3.	1.
%RSD	1.93	.636	3.39	.974	.640	.515	.553	.506	1.04	.694	.710	.165
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**482.**	**473.**	**480.**	**483.**	**475.**	**496.**	**508.**	**482.**	**484.**
Stddev	2.	4.	3.	2.	8.	10.	15.	5.	3.
%RSD	.323	.871	.559	.363	1.61	2.05	2.98	1.03	.630
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**40283.**
Stddev	139.
%RSD	.34405

Sample Name: ccb Acquired: 12/21/2010 20:43:03 Type: QC
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**.170**	**-2.74**	**-2.92**	**1.07**	**.040**	**3.26**	**-.027**	**.478**	**-.332**	**-.907**	**-6.31**	**1.93**
Stddev	.687	.70	3.20	.05	.067	.03	.115	.038	.827	.205	2.04	.07
%RSD	405.	25.6	110.	4.85	168.	.943	428.	7.92	249.	22.6	32.4	3.85
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**-1.04**	**.784**	**.855**	**-2.77**	**2.04**	**-2.70**	**.321**	**-.678**	**-2.14**
Stddev	.43	.612	.262	.91	1.21	11.0	7.56	.562	.05
%RSD	41.6	78.1	30.6	32.7	59.1	407.	2350.	83.0	2.26
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**39878.**
Stddev	346.
%RSD	.86745

Sample Name: I877664 Acquired: 12/21/2010 20:48:23 Type: Unk
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2343
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-1.06**	**21800.**	**31.0**	**220.**	**1.92**	**42400.**	**.464**	**21.2**	**172.**	**48.1**	**47500.**
Stddev	.68	680.	3.4	7.	.02	1310.	.117	1.3	9.	3.3	1380.
%RSD	64.0	3.12	10.9	3.23	1.08	3.09	25.2	6.30	5.01	6.76	2.90

Elem	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**9370.**	**1740.**	**1.05**	**45.9**	**145.**	**2.48**	**-8.80**	**4.89**	**38.0**	**218.**
Stddev	190.	51.	.81	2.8	6.	2.72	2.25	3.68	3.4	11.
%RSD	2.03	2.89	77.5	6.04	4.46	109.	25.6	75.2	8.80	5.11

Int. Std.	Y_3600
Units	Cts/S
Avg	**40312.**
Stddev	246.
%RSD	.60953

Sample Name: dup877664 Acquired: 12/21/2010 20:53:47 Type: Unk
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3092	As1937	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.958**	**89200.**	**125.**	**936.**	**8.04**	**174000.**	**3.00**	**86.8**	**619.**	**199.**
Stddev	4.13	2200.	15.	24.	.20	4020.	.43	1.3	14.	3.
%RSD	430.	2.47	12.1	2.58	2.55	2.31	14.3	1.53	2.29	1.40

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**189000.**	**40200.**	**7380.**	**10.2**	**182.**	**571.**	**11.4**	**9.35**	**.319**	**144.**
Stddev	4560.	931.	174.	1.1	3.	6.	5.5	5.84	10.9	4.
%RSD	2.42	2.32	2.36	10.8	1.40	.991	48.2	62.5	3430.	3.09

Elem	Zn2138
Units	ug/L
Avg	**870.**
Stddev	12.
%RSD	1.32

Int. Std.	Y_3600
Units	Cts/S
Avg	**39353.**
Stddev	576.
%RSD	1.4638

Sample Name: mss877664 Acquired: 12/21/2010 20:59:15 Type: Unk
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**18.2**	**140000.**	**912.**	**1810.**	**28.5**	**216000.**	**21.5**	**245.**	**645.**	**287.**
Stddev	.5	976.	18.	9.	.2	2160.	.1	2.	7.	3.
%RSD	2.59	.698	1.94	.493	.537	1.00	.570	.630	1.09	1.10

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**223000.**	**59700.**	**11500.**	**347.**	**337.**	**699.**	**23.9**	**780.**	**621.**	**346.**
Stddev	2020.	490.	123.	3.	3.	4.	2.4	27.	11.	4.
%RSD	.905	.821	1.06	.755	.880	.625	10.1	3.48	1.69	1.10

Elem	Zn2062
Units	ug/L
Avg	**1040.**
Stddev	10.
%RSD	.998

Int. Std.	Y_3600
Units	Cts/S
Avg	**39033.**
Stddev	232.
%RSD	.59396

Sample Name: msds877664 Acquired: 12/21/2010 21:04:39 Type: Unk
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**24.9**	**167000.**	**1110.**	**2170.**	**35.4**	**255000.**	**28.6**	**294.**	**783.**	**330.**
Stddev	.7	1050.	30.	16.	.2	1660.	.3	2.	7.	2.
%RSD	2.65	.626	2.72	.745	.515	.649	.945	.757	.858	.738

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**259000.**	**68800.**	**14000.**	**430.**	**407.**	**866.**	**26.1**	**940.**	**763.**	**420.**
Stddev	1730.	395.	99.	3.	2.	7.	1.7	10.	21.	4.
%RSD	.666	.574	.703	.694	.606	.854	6.67	1.11	2.77	.895

Elem	Zn2062
Units	ug/L
Avg	**1200.**
Stddev	9.
%RSD	.771

Int. Std.	Y_3600
Units	Cts/S
Avg	**38548.**
Stddev	90.
%RSD	.23463

Sample Name: pdss877664 Acquired: 12/21/2010 21:10:03 Type: Unk
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**501.**	**203000.**	**2100.**	**2100.**	**2040.**	**394000.**	**1880.**	**1880.**	**2540.**	**2030.**
Stddev	4.	679.	20.	6.	7.	4730.	7.	17.	2.	11.
%RSD	.767	.335	.970	.298	.368	1.20	.352	.885	.088	.535

Elem	Fe2343	Mg2790	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl1908	V_2908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**292000.**	**140000.**	**9540.**	**1850.**	**1990.**	**2190.**	**1830.**	**1950.**	**1570.**	**2100.**
Stddev	680.	447.	15.	3.	15.	17.	14.	81.	8.	4.
%RSD	.233	.320	.153	.142	.748	.785	.777	4.16	.519	.180

Elem	Zn2062
Units	ug/L
Avg	**2570.**
Stddev	12.
%RSD	.470

Int. Std.	Y_3600
Units	Cts/S
Avg	**37811.**
Stddev	152.
%RSD	.40070

Sample Name: 877666 Acquired: 12/21/2010 21:15:23 Type: Unk
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion: 5
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.613**	**105000.**	**111.**	**1020.**	**9.57**	**203000.**	**5.93**	**78.1**	**254.**	**142.**
Stddev	3.23	918.	13.	6.	.09	1190.	.11	.4	5.	1.
%RSD	527.	.874	11.5	.596	.972	.586	1.79	.521	2.03	.555

Elem	Fe2343	Mg2790	Mn2593	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**166000.**	**40300.**	**10400.**	**8.23**	**167.**	**403.**	**6.84**	**16.9**	**8.37**	**145.**
Stddev	996.	290.	98.	1.09	1.	3.	.34	14.3	5.51	2.
%RSD	.602	.721	.934	13.3	.372	.681	5.03	84.8	65.8	1.24

Elem	Zn2138
Units	ug/L
Avg	**760.**
Stddev	2.
%RSD	.223

Int. Std.	Y_3600
Units	Cts/S
Avg	**39151.**
Stddev	44.
%RSD	.11116

Sample Name: ccv1 Acquired: 12/21/2010 21:26:05 Type: QC
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2265	Co2388	Cr2835	Cu2247	Fe2343	Mg2802
Avg	**450.**	**4790.**	**4710.**	**4860.**	**457.**	**4990.**	**471.**	**4750.**	**4600.**	**5010.**	**5160.**	**4920.**
Stddev	2.	9.	26.	15.	2.	6.	2.	14.	18.	21.	18.	4.
%RSD	.500	.180	.549	.311	.431	.126	.352	.287	.385	.421	.352	.074
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2175	Se2062	Tl1908	V_2908	Zn2062
Avg	**4800.**	**4630.**	**5110.**	**4720.**	**4850.**	**4810.**	**4830.**	**4820.**	**4730.**
Stddev	32.	14.	17.	12.	16.	72.	20.	22.	20.
%RSD	.667	.310	.325	.252	.337	1.49	.423	.457	.416
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**39416.**
Stddev	99.
%RSD	.25211

Sample Name: ccv2 Acquired: 12/21/2010 21:31:17 Type: QC
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4934	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**50.0**	**527.**	**476.**	**482.**	**48.2**	**507.**	**50.1**	**495.**	**483.**	**525.**	**462.**	**512.**
Stddev	1.5	2.	9.	2.	.2	.	.3	2.	3.	3.	4.	1.
%RSD	2.94	.339	1.87	.355	.334	.063	.648	.371	.639	.507	.924	.144
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**487.**	**473.**	**478.**	**485.**	**501.**	**510.**	**516.**	**485.**	**487.**
Stddev	1.	2.	1.	1.	3.	2.	14.	4.	2.
%RSD	.173	.327	.167	.275	.640	.463	2.62	.799	.457
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**39574.**
Stddev	188.
%RSD	.47566

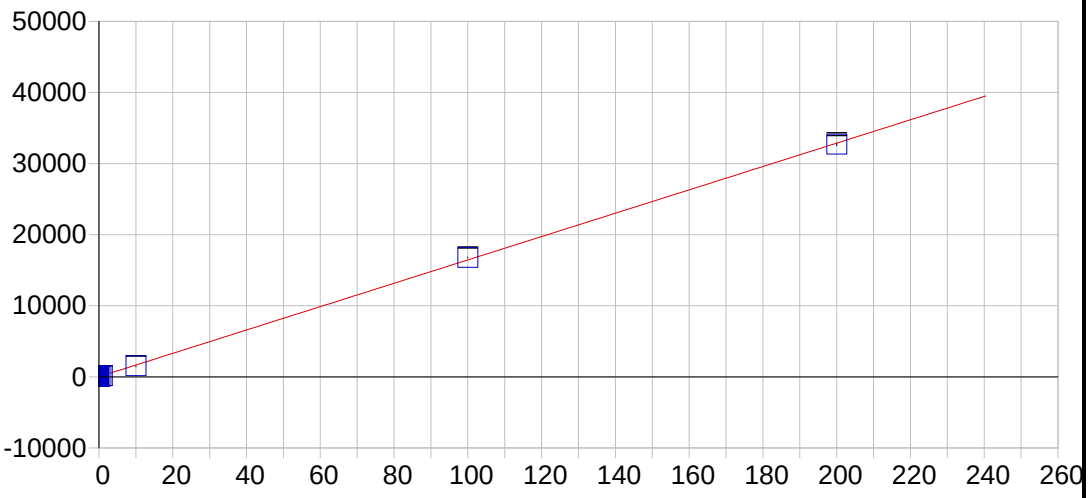
Sample Name: ccb Acquired: 12/21/2010 21:41:38 Type: QC
Method: DOD Calibration 1(v1333) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6000: Prep Batch: Post Digestion:
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**2.22**	**-2.26**	**-1.83**	**.882**	**.177**	**7.13**	**.062**	**.134**	**1.95**	**-.268**	**-6.34**	**3.75**
Stddev	1.99	3.03	5.74	.010	.040	.24	.054	.160	1.86	.809	.82	.34
%RSD	89.6	134.	314.	1.19	22.5	3.42	87.4	119.	95.6	302.	13.0	9.08
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2138
Avg	**-.534**	**.520**	**1.12**	**-1.81**	**-1.33**	**-2.52**	**-1.65**	**1.92**	**-2.10**
Stddev	.027	.291	.07	.41	2.02	3.78	2.99	.01	.07
%RSD	5.11	56.0	6.00	22.8	152.	150.	182.	.677	3.13
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**39687.**
Stddev	115.
%RSD	.28944

	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL
	K 766.490 { 44}	12/17/2010 08:31:45	12/16/2010 14:45:38	Linear	None	19.840349	164.275846	0.000000	1.000000	0.999917	195.508231	0.049243
	Na 330.237 {102}	12/17/2010 08:32:23	12/16/2010 14:45:38	Linear	None	-0.148460	1.460351	0.000000	1.000000	0.999936	1.563303	1.657397
	Na 589.592 { 57}	12/16/2010 14:40:45	12/16/2010 14:40:45	Linear	None	-43.332459	817.777935	0.000000	1.000000	0.999970	137.360070	0.008395
	Y 320.332 {105}*	12/16/2010 14:28:14	12/16/2010 14:28:14	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000
	Y 360.073 { 94}	12/16/2010 14:28:14	12/16/2010 14:28:14	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000
	Al 308.215 {109}	12/16/2010 14:48:19	12/16/2010 14:48:19	Linear	None	0.002815	0.022868	0.000000	1.000000	1.000000	0.000000	0.022227
	Al 396.152 { 85}	12/16/2010 14:48:19	12/16/2010 14:48:19	Linear	1/Conc	-1.816629	17.221145	0.000000	1.000000	1.000000	0.000000	0.194101
	Mg 279.553 {121}	12/16/2010 14:48:19	12/16/2010 14:48:19	Linear	1/Conc	5.348094	922.183040	0.000000	1.000000	1.000000	0.000000	0.001129
	Mg 285.213 {118}	12/16/2010 14:48:19	12/16/2010 14:48:19	Linear	None	1.859537	494.063632	0.000000	1.000000	1.000000	0.000000	0.002574
	Ca 317.933 {106}	12/16/2010 14:48:19	12/16/2010 14:48:19	Linear	None	18.985365	231.153944	0.000000	1.000000	1.000000	0.000000	0.006700
	Fe 234.349 {144}	12/16/2010 14:48:19	12/16/2010 14:48:19	Linear	None	-0.024809	21.007153	0.000000	1.000000	1.000000	0.000000	0.045255

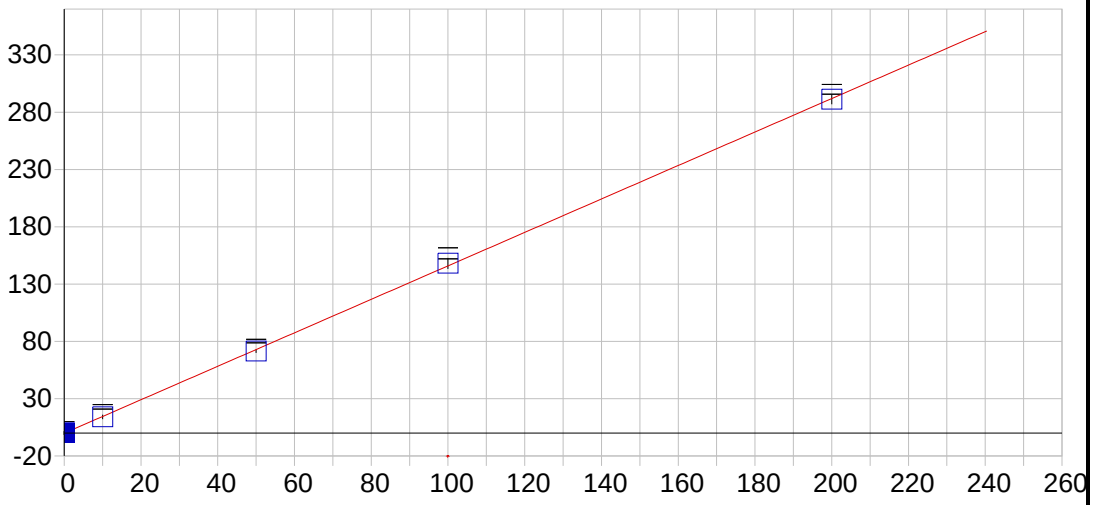


K 766.490 { 44}

Date of Fit:	12/17/2010 08:31:45	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	19.840349	Re-Slope:	1.000000
A1 (Gain):	164.275846	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999917	Status:	OK.
Std Error of Est:	195.508231		
Predicted MDL:	0.049243		
Predicted MQL:	0.164143		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.09621	-.096	.000	4.0360	4.70	1
CalibStd-1.0	1.0000	.85684	-.143	-14.3	160.60	8.21	1
CalibStd-10.0	10.000	9.2824	-.718	-7.18	1544.7	1.07	1
CalibStd-0.5	.50000	.40177	-.098	-19.6	85.841	12.1	1
CalibStd-100	100.00	102.04	2.04	2.04	16782.	65.3	1
CalibStd-200	200.00	199.02	-.981	-.491	32714.	202.	1

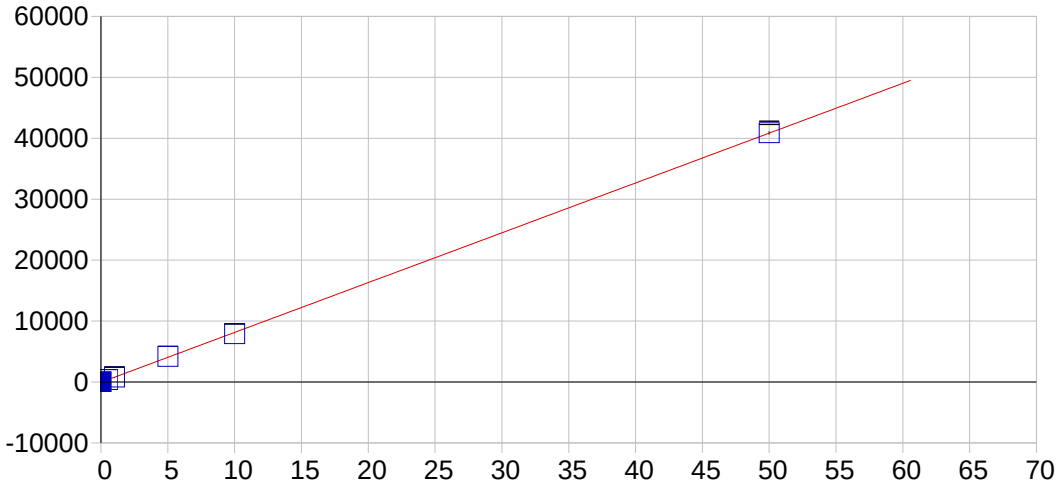


Na 330.237 {102}

Date of Fit:	12/17/2010 08:32:23	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.148460	Re-Slope:	1.000000
A1 (Gain):	1.460351	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999936	Status:	OK.
Std Error of Est:	1.563303		
Predicted MDL:	1.657397		
Predicted MQL:	5.524656		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.17298	.173	.000	.10415	1.61	1
CalibStd-200	200.00	199.50	-.505	-.252	291.18	4.23	1
CalibStd-10.0	10.000	9.7610	-.239	-2.39	14.106	1.94	1
CalibStd-50	50.000	49.074	-.926	-1.85	71.518	1.53	1
CalibStd-100	100.00	101.50	1.50	1.50	148.07	4.86	1

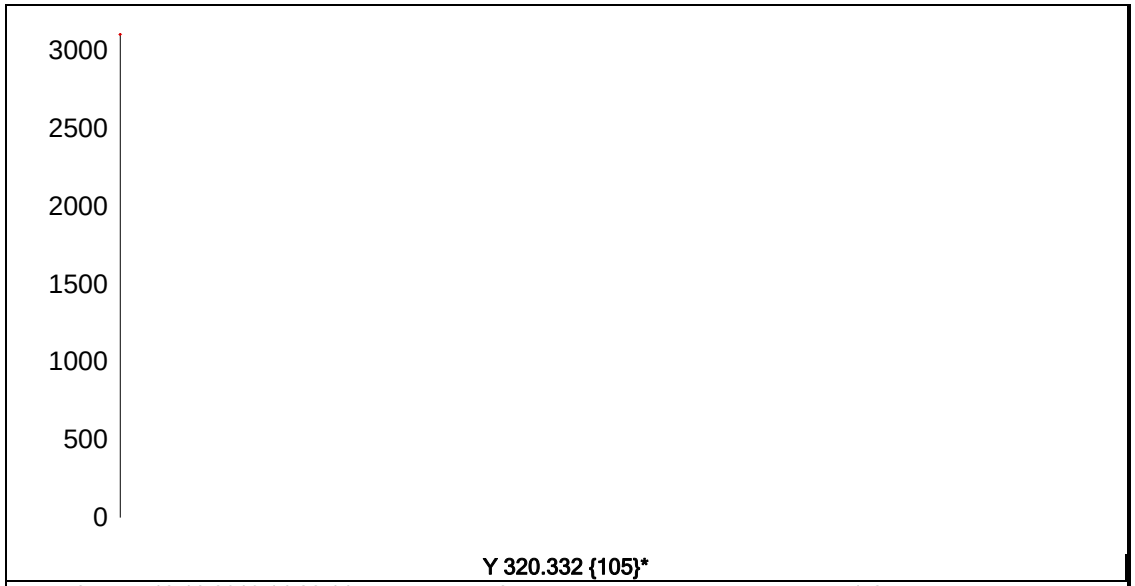


Na 589.592 { 57}

Date of Fit:	12/16/2010 14:40:45	Type of Fit:	Linear	Weighting:	None

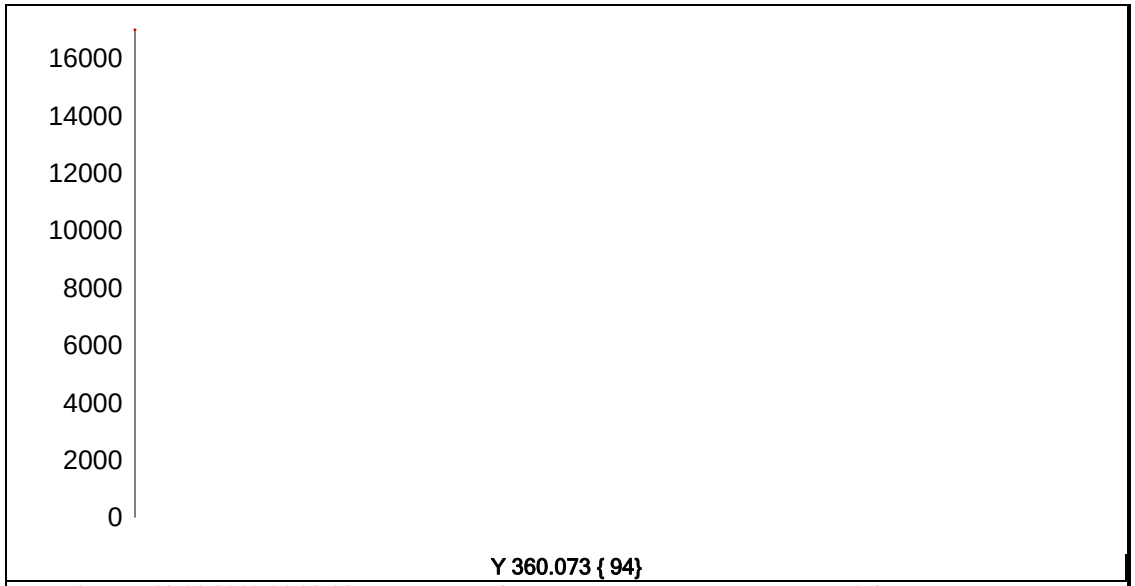
A0 (Offset):	-43.332459	Re-Slope:	1.000000
A1 (Gain):	817.777935	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999970	Status:	OK.
Std Error of Est:	137.360070		
Predicted MDL:	0.008395		
Predicted MQL:	0.027983		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.04217	.042	.000	-8.8429	4.64	1
CalibStd-0.5	.50000	.51367	.014	2.73	376.74	7.05	1
CalibStd-1.0	1.0000	1.0105	.011	1.05	783.05	2.21	1
CalibStd-5.0	5.0000	5.1756	.176	3.51	4189.2	18.1	1
CalibStd-10.0	10.000	9.7199	-.280	-2.80	7905.4	16.2	1
CalibStd-50	50.000	50.038	.038	.076	40877.	282.	1



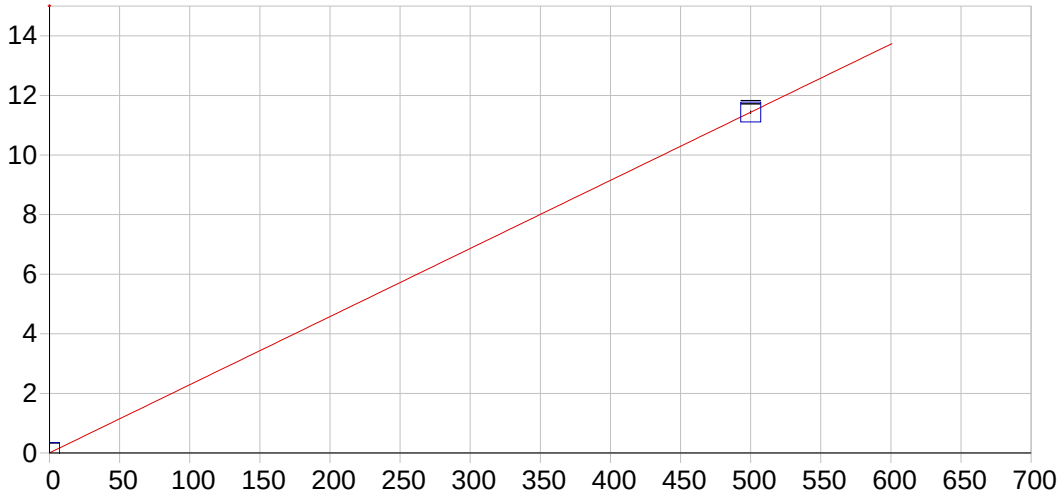
Date of Fit:	12/16/2010 14:28:14	Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	2827.2	122.	1



Date of Fit:	12/16/2010 14:28:14	Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	15150.	648.	1

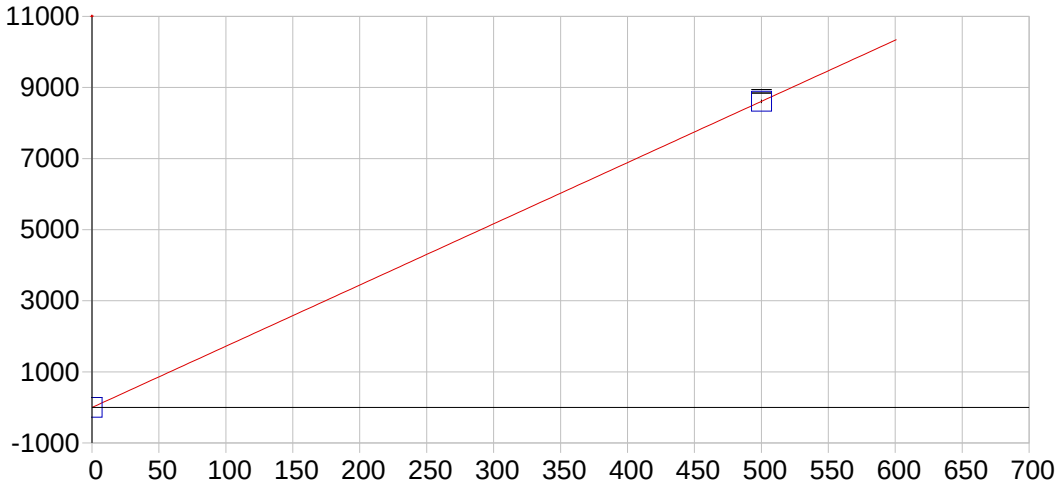


Al 308.215 {109}

Date of Fit:	12/16/2010 14:48:19	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.002815	Re-Slope:	1.000000
A1 (Gain):	0.022868	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.022227		
Predicted MQL:	0.074090		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00281	.000	1
CalibStd-500	500.00	500.00	.000	.000	11.437	.055	1

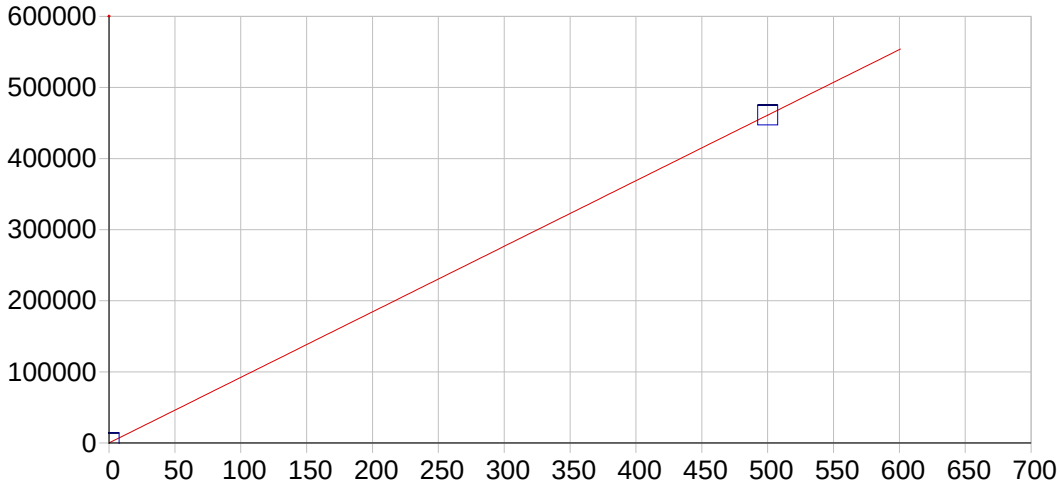


Al 396.152 { 85}

Date of Fit:	12/16/2010 14:48:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-1.816629	Re-Slope:	1.000000
A1 (Gain):	17.221145	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.194101		
Predicted MQL:	0.647003		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-1.8166	1.56	1
CalibStd-500	500.00	500.00	.000	.000	8608.8	49.3	1

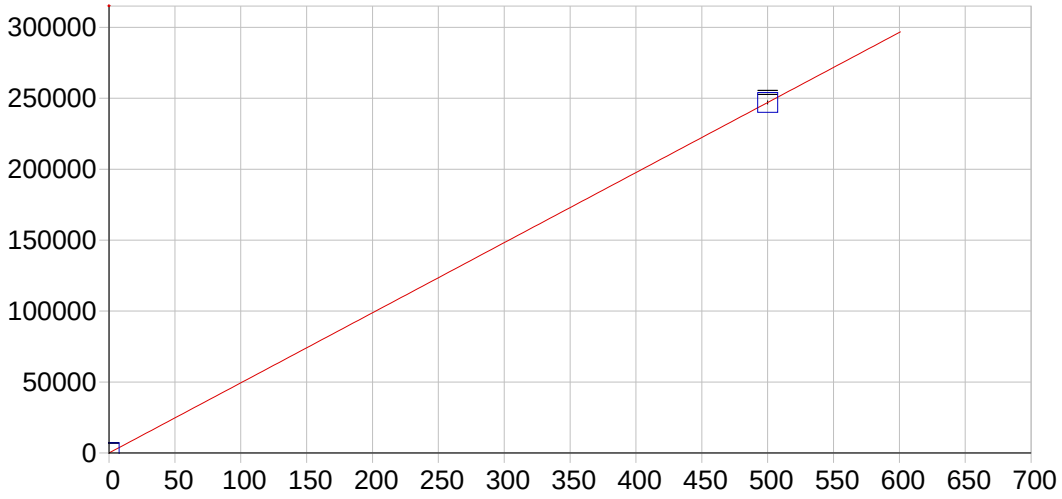


Mg 279.553 {121}

Date of Fit:	12/16/2010 14:48:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	5.348094	Re-Slope:	1.000000
A1 (Gain):	922.183040	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001129		
Predicted MQL:	0.003764		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	5.3481	.448	1
CalibStd-500	500.00	500.00	.000	.000	461100.	463.	1

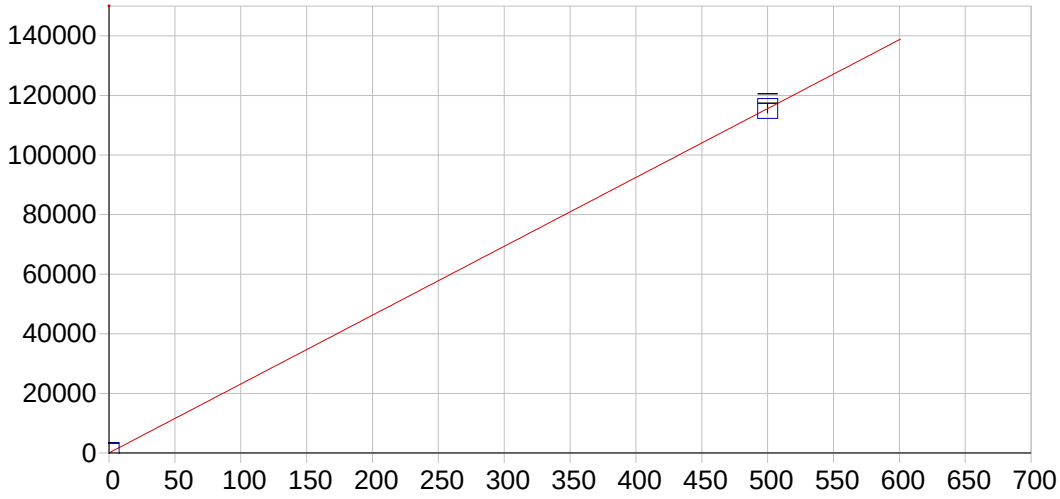


Mg 285.213 {118}

Date of Fit:	12/16/2010 14:48:19	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	1.859537	Re-Slope:	1.000000
A1 (Gain):	494.063632	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002574		
Predicted MQL:	0.008581		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	1.8595	.876	1
CalibStd-500	500.00	500.00	.000	.000	247030.	1450.	1

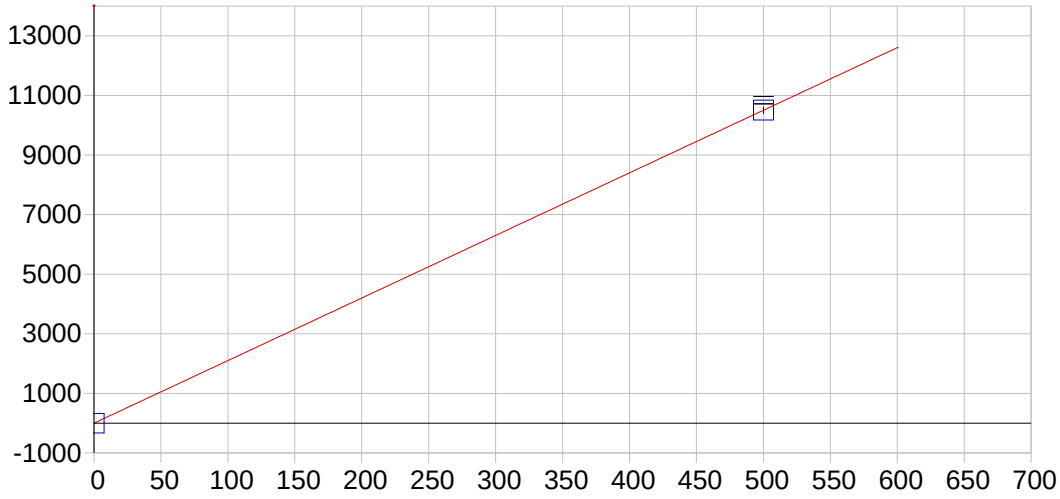


Ca 317.933 {106}

Date of Fit:	12/16/2010 14:48:19	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	18.985365	Re-Slope:	1.000000
A1 (Gain):	231.153944	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.006700		
Predicted MQL:	0.022332		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	18.985	.188	1
CalibStd-500	500.00	500.00	.000	.000	115600.	1570.	1



Fe 234.349 {144}

Date of Fit:	12/16/2010 14:48:19	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.024809	Re-Slope:	1.000000
A1 (Gain):	21.007153	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.045255		
Predicted MQL:	0.150849		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.02481	.591	1
CalibStd-500	500.00	500.00	.000	.000	10504.	122.	1

Sample Name: Blank Acquired: 12/16/2010 14:25:26 Type: Cal
Method: Sodium and Potassium 1(v122) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-4.66**	**.002**	**-8.84**	**-1.82**	**1.86**	**19.0**	**-.025**
Stddev	3.14	.731	4.64	1.56	.88	.2	.591
%RSD	67.3	40300.	52.5	85.9	47.1	.990	2380.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2827.2**
Stddev	121.7
%RSD	4.3032

Sample Name: CalibStd-0.5 Acquired: 12/16/2010 14:28:17 Type: Cal
Method: Sodium and Potassium 1(v122) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895
Units	Cts/S	Cts/S
Avg	**108.**	**377.**
Stddev	7.	7.
%RSD	6.74	1.87

Sample Name: CalibStd-1.0 Acquired: 12/16/2010 14:31:00 Type: Cal
Method: Sodium and Potassium 1(v122) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895
Units	Cts/S	Cts/S
Avg	**214.**	**783.**
Stddev	5.	2.
%RSD	2.40	.283

Sample Name: CalibStd-5.0 Acquired: 12/16/2010 14:33:27 Type: Cal
Method: Sodium and Potassium 1(v122) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	Na5895
Units	Cts/S
Avg	**4190.**
Stddev	18.
%RSD	.433

Sample Name: CalibStd-10.0 Acquired: 12/16/2010 14:35:54 Type: Cal
Method: Sodium and Potassium 1(v122) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Na5895
Units	Cts/S	Cts/S	Cts/S
Avg	**2160.**	**12.7**	**7910.**
Stddev	6.	1.0	16.
%RSD	.263	7.63	.205

Sample Name: CalibStd-50 Acquired: 12/16/2010 14:38:21 Type: Cal
Method: Sodium and Potassium 1(v122) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	Na3302	Na5895
Units	Cts/S	Cts/S
Avg	**71.5**	**40900.**
Stddev	1.5	282.
%RSD	2.14	.689

Sample Name: CalibStd-100 Acquired: 12/16/2010 14:40:49 Type: Cal
Method: Sodium and Potassium 1(v122) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302
Units	Cts/S	Cts/S
Avg	**23500.**	**136.**
Stddev	105.	3.
%RSD	.445	2.22

Sample Name: CalibStd-200 Acquired: 12/16/2010 14:43:16 Type: Cal
Method: Sodium and Potassium 1(v122) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302
Units	Cts/S	Cts/S
Avg	**46100.**	**265.**
Stddev	149.	2.
%RSD	.323	.595

Sample Name: CalibStd-500 Acquired: 12/16/2010 14:45:41 Type: Cal
Method: Sodium and Potassium 1(v122) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	Al3961	Mg2852	Ca3179	Fe2343
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**8610.**	**247000.**	**116000.**	**10500.**
Stddev	49.	1450.	1570.	122.
%RSD	.573	.586	1.36	1.16

Int. Std.	Y_3203
Units	Cts/S
Avg	**2566.6**
Stddev	30.2
%RSD	1.1752

Sample Name: icv Acquired: 12/16/2010 14:48:28 Type: QC
Method: Sodium and Potassium 1(v122) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**99.2**	**101.**	**.168**	**.199**	**.206**	**.332**
Stddev	.2	.	.040	.003	.007	.051
%RSD	.182	.200	23.9	1.39	3.62	15.3
#1	99.1	101.	.159	.197	.198	.381
#2	99.1	101.	.212	.198	.209	.337
#3	99.4	101.	.133	.202	.212	.279
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2841.7**
Stddev	3.5
%RSD	.12235
#1	2837.6
#2	2843.8
#3	2843.5

Sample Name: icb Acquired: 12/16/2010 14:50:55 Type: QC
Method: Sodium and Potassium 1(v122) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.156**	**.133**	**.150**	**.045**	**.059**	**.075**
Stddev	.013	.002	.083	.002	.001	.051
%RSD	8.52	1.44	55.0	4.15	.980	67.4
#1	.169	.134	.055	.047	.059	.070
#2	.157	.131	.208	.043	.060	.027
#3	.143	.135	.188	.046	.059	.129
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**3009.5**
Stddev	4.6
%RSD	.15357
#1	3011.7
#2	3012.6
#3	3004.2

Sample Name: mrl Acquired: 12/16/2010 14:53:23 Type: QC
Method: Sodium and Potassium 1(v122) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**5.24**	**1.28**	**.401**	**.694**	**.590**	**.409**
Stddev	.05	.01	.094	.002	.012	.067
%RSD	1.01	1.11	23.4	.302	2.00	16.4
#1	5.30	1.29	.351	.694	.604	.333
#2	5.22	1.29	.509	.693	.582	.441
#3	5.20	1.26	.342	.697	.585	.455
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**3014.9**
Stddev	8.9
%RSD	.29528
#1	3022.0
#2	3017.8
#3	3004.9

Sample Name: icsa Acquired: 12/16/2010 14:55:49 Type: QC
Method: Sodium and Potassium 1(v122) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.000**	**.000**	**504.**	**505.**	**506.**	**499.**
Stddev	.032	.004	5.	4.	6.	5.
%RSD	461e15	32e15	.909	.867	1.19	1.02
#1	-.036	-.003	508.	501.	501.	494.
#2	.011	.004	499.	505.	505.	498.
#3	.025	-.001	506.	510.	513.	505.
Check ?	Chk Pass	Chk Pass	None	None	None	None
High Limit						
Low Limit						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2583.3**
Stddev	23.3
%RSD	.90011
#1	2561.8
#2	2580.3
#3	2608.0

Sample Name: icsab Acquired: 12/16/2010 14:58:31 Type: QC
Method: Sodium and Potassium 1(v122) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**91.5**	**94.0**	**402.**	**435.**	**419.**	**419.**
Stddev	.4	.1	5.	3.	8.	7.
%RSD	.468	.142	1.24	.709	1.91	1.72
#1	91.1	93.9	397.	431.	410.	411.
#2	91.6	94.0	402.	437.	420.	420.
#3	91.9	94.1	407.	436.	426.	426.
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	2584.4
Stddev	17.5
%RSD	.67870
#1	[illegible]
#2	[illegible]
#3	[illegible]

Sample Name: ccv Acquired: 12/16/2010 16:24:21 Type: QC
Method: Sodium and Potassium 1(v122) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**97.7**	**98.4**	**.124**	**.136**	**.231**	**.600**
Stddev	.2	.3	.120	.003	.004	.058
%RSD	.165	.297	96.9	1.87	1.94	9.65
#1	97.9	98.3	.224	.134	.232	.659
#2	97.6	98.1	.156	.139	.235	.597
#3	97.6	98.7	-.009	.137	.226	.543
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2849.4**
Stddev	22.7
%RSD	.79836
#1	2826.8
#2	2849.1
#3	2872.3

Sample Name: ccb Acquired: 12/16/2010 16:26:48 Type: QC
Method: Sodium and Potassium 1(v122) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.220**	**.117**	**.047**	**.013**	**.031**	**.067**
Stddev	.012	.009	.125	.001	.007	.023
%RSD	5.49	7.99	266.	4.36	23.7	34.5
#1	.234	.108	-.033	.014	.026	.067
#2	.215	.117	-.017	.013	.027	.090
#3	.211	.127	.190	.013	.039	.044
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2971.8**
Stddev	68.9
%RSD	2.3198
#1	2892.3
#2	3015.4
#3	3007.6

Sample Name: lcss35793 Acquired: 12/16/2010 16:39:14 Type: Unk
Method: Sodium and Potassium 1(v122) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**79.5**	**80.6**	**2.73**	**93.1**	**155.**	**1.80**
Stddev	.0	.3	.06	1.1	4.	.00
%RSD	.001	.389	2.35	1.17	2.29	.186
#1	79.5	80.8	2.68	92.4	153.	1.80
#2	79.5	80.4	2.77	93.9	158.	1.79

Int. Std.	Y_3203
Units	Cts/S
Avg	**2741.6**
Stddev	19.0
%RSD	.69203
#1	2728.2
#2	2755.0

Sample Name: mbs35793 Acquired: 12/16/2010 16:41:43 Type: Unk
Method: Sodium and Potassium 1(v122) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.196**	**.130**	**.156**	**.023**	**.073**	**.083**
Stddev	.039	.005	.060	.002	.005	.018
%RSD	19.8	3.83	38.5	7.18	6.54	21.6
#1	.155	.134	.175	.025	.069	.097
#2	.232	.132	.089	.022	.071	.063
#3	.201	.125	.204	.023	.078	.088

Int. Std.	Y_3203
Units	Cts/S
Avg	**2993.8**
Stddev	16.9
%RSD	.56339
#1	2982.4
#2	2985.7
#3	3013.1

Sample Name: 877664 Acquired: 12/16/2010 16:44:13 Type: Unk
Method: Sodium and Potassium 1(v122) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**31.3**	**4.24**	**267.**	**149.**	**571.**	**620.**
Stddev	.2	.02	5.	1.	8.	8.
%RSD	.488	.392	1.90	.577	1.33	1.29
#1	31.2	4.22	262.	149.	564.	613.
#2	31.3	4.23	267.	149.	569.	618.
#3	31.5	4.26	272.	150.	579.	629.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2732.9**
Stddev	22.1
%RSD	.80937
#1	2713.7
#2	2728.0
#3	2757.1

Sample Name: I877664 Acquired: 12/16/2010 16:46:45 Type: Unk
Method: Sodium and Potassium 1(v122) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**10.2**	**1.36**	**67.4**	**49.3**	**197.**	**216.**
Stddev	.1	.00	1.0	.3	2.	1.
%RSD	.547	.192	1.52	.610	.767	.358
#1	10.3	1.36	67.1	49.6	196.	216.
#2	10.2	1.36	68.6	49.0	198.	216.
#3	10.2	1.36	66.6	49.4	195.	215.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2991.7**
Stddev	6.1
%RSD	.20285
#1	2997.8
#2	2991.8
#3	2985.6

Sample Name: dup877664 Acquired: 12/16/2010 16:49:09 Type: Unk
Method: Sodium and Potassium 1(v122) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**31.2**	**4.22**	**260.**	**149.**	**566.**	**600.**
Stddev	.2	.01	5.	1.	11.	11.
%RSD	.643	.352	1.83	.703	1.94	1.79
#1	30.9	4.20	255.	148.	553.	588.
#2	31.2	4.23	265.	149.	571.	604.
#3	31.3	4.21	260.	150.	574.	609.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2735.1**
Stddev	21.0
%RSD	.76812
#1	2710.9
#2	2745.4
#3	2748.9

Sample Name: mss877664 Acquired: 12/16/2010 16:51:42 Type: Unk
Method: Sodium and Potassium 1(v122) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**103.**	**75.4**	**441.**	**228.**	**673.**	**708.**
Stddev	.	1.7	4.	2.	9.	9.
%RSD	.462	2.19	.985	.933	1.28	1.27
#1	102.	76.8	437.	226.	665.	699.
#2	103.	73.6	446.	228.	674.	708.
#3	103.	75.9	439.	230.	682.	717.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2672.4**
Stddev	25.6
%RSD	.95735
#1	2644.9
#2	2677.0
#3	2695.4

Sample Name: ccv Acquired: 12/16/2010 16:54:14 Type: QC
Method: Sodium and Potassium 1(v122) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**93.4**	**93.0**	**.203**	**.139**	**.247**	**.741**
Stddev	.3	.6	.131	.003	.007	.153
%RSD	.317	.682	64.4	2.44	2.64	20.6
#1	93.1	93.2	.082	.135	.240	.895
#2	93.5	93.5	.187	.142	.252	.738
#3	93.7	92.3	.342	.141	.250	.589
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2999.0**
Stddev	7.7
%RSD	.25523
#1	2991.3
#2	2998.9
#3	3006.6

Sample Name: ccb Acquired: 12/16/2010 16:56:41 Type: QC
Method: Sodium and Potassium 1(v122) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.295**	**.127**	**-.032**	**.017**	**.041**	**.103**
Stddev	.008	.006	.062	.005	.007	.024
%RSD	2.87	4.41	193.	27.3	18.0	23.7
#1	.287	.123	-.079	.014	.043	.123
#2	.294	.133	.038	.015	.033	.110
#3	.304	.125	-.055	.023	.047	.076
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2900.9**
Stddev	423.4
%RSD	14.597
#1	3333.3
#2	2882.4
#3	2487.0

Sample Name: msds877664 Acquired: 12/16/2010 16:59:09 Type: Unk
Method: Sodium and Potassium 1(v122) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**103.**	**74.9**	**429.**	**222.**	**642.**	**673.**
Stddev	.	1.4	11.	2.	13.	12.
%RSD	.455	1.84	2.62	.776	1.97	1.76
#1	103.	74.6	433.	221.	634.	665.
#2	103.	73.7	417.	222.	636.	667.
#3	104.	76.4	438.	224.	657.	687.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2636.2**
Stddev	96.3
%RSD	3.6543
#1	2563.2
#2	2745.4
#3	2600.0

Sample Name: pdss877664 Acquired: 12/16/2010 17:01:41 Type: Unk
Method: Sodium and Potassium 1(v122) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na3302	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**110.**	**79.3**	**251.**	**145.**	**533.**	**584.**
Stddev	.	1.0	1.	1.	7.	7.
%RSD	.136	1.22	.285	.523	1.32	1.12
#1	110.	78.2	251.	144.	527.	578.
#2	110.	79.8	250.	145.	532.	582.
#3	110.	79.9	251.	145.	541.	591.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2689.1**
Stddev	10.2
%RSD	.38097
#1	2677.3
#2	2695.8
#3	2694.2

Sample Name: 877666 Acquired: 12/16/2010 17:04:13 Type: Unk
Method: Sodium and Potassium 1(v122) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**35.9**	**4.82**	**357.**	**175.**	**710.**	**594.**
Stddev	.2	.02	6.	1.	10.	7.
%RSD	.430	.387	1.72	.759	1.39	1.15
#1	35.8	4.80	351.	174.	698.	586.
#2	36.0	4.83	363.	175.	715.	597.
#3	36.0	4.84	358.	177.	716.	599.

Int. Std.	Y_3203
Units	Cts/S
Avg	**2676.0**
Stddev	15.3
%RSD	.57327
#1	2662.7
#2	2672.4
#3	2692.8

Sample Name: ccv Acquired: 12/16/2010 17:23:52 Type: QC
Method: Sodium and Potassium 1(v122) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**97.3**	**96.7**	**.222**	**.145**	**.284**	**.597**
Stddev	.1	.2	.136	.003	.003	.044
%RSD	.123	.221	61.3	1.94	.930	7.39
#1	97.3	96.6	.166	.147	.286	.562
#2	97.1	96.5	.377	.146	.284	.646
#3	97.4	96.9	.123	.142	.281	.581
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**2964.0**
Stddev	17.6
%RSD	.59310
#1	2948.1
#2	2961.0
#3	2982.9

Sample Name: ccb Acquired: 12/16/2010 17:26:18 Type: QC
Method: Sodium and Potassium 1(v122) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution:
Comment:

Elem	K_7664	Na5895	Al3961	Mg2852	Ca3179	Fe2343
Units	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Avg	**.155**	**.129**	**.073**	**.016**	**.043**	**.079**
Stddev	.045	.001	.156	.000	.002	.022
%RSD	28.8	1.11	213.	2.59	5.08	27.9
#1	.205	.130	-.011	.016	.044	.053
#2	.138	.128	.253	.017	.045	.091
#3	.121	.130	-.023	.017	.041	.092
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_3203
Units	Cts/S
Avg	**3119.1**
Stddev	2.5
%RSD	.07973
#1	3121.4
#2	3119.3
#3	3116.5

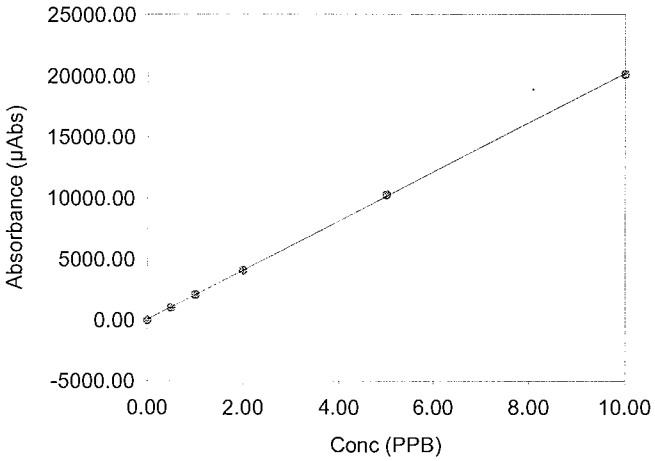
CETAC Hg Analysis Report - 10122100.DB - 12/21/2010, 11:28:45

Analyst
Date Started 12/21/2010, 09:16:40
Worksheet 7471 Soil (10ppb as high std)
Comment

* All concentrations are dilution corrected.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
Calibration Zero	21-Dec-2010, 09:16	0.00	6.58	-23.60	-24	-25	-23	-22	
Standard #1	21-Dec-2010, 09:18	0.50	1.27	1030.00	1016	1024	1036	1045	
Standard #2	21-Dec-2010, 09:20	1.00	1.53	2080.00	2035	2067	2091	2108	
Standard #3	21-Dec-2010, 09:22	2.00	2.01	4080.00	3975	4056	4119	4164	
Standard #4	21-Dec-2010, 09:24	5.00	3.37	10300.00	9833	10189	10414	10645	
Standard #5	21-Dec-2010, 09:26	10.00	2.88	20100.00	19412	19926	20415	20738	

Calibration Data



Int.	45.144
Slope	2015.280
Correlation	0.99994

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
ICV	21-Dec-2010, 09:30	2.95	2.87	5990.00	5763	5952	6091	6145	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
ICB	21-Dec-2010, 09:32	-0.03	6.64	-8.90	-7	-10	-5	-13	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
0.2 MRL	21-Dec-2010, 09:34	0.17	3.94	392.00	375	386	400	405	
874693 LOD (0.12)	21-Dec-2010, 09:36	0.10	2.84	237.00	229	236	241	241	
874694 LOQ (0.19)	21-Dec-2010, 09:38	0.16	1.48	373.00	368	377	370	377	
874694 2xLOQ (0.38)	21-Dec-2010, 09:40	0.35	3.02	760.00	737	749	769	786	
882743 LCSS35844	21-Dec-2010, 09:41	1.87	1.89	3820.00	3726	3798	3851	3891	
882742 MBS35844	21-Dec-2010, 09:43	-0.03	10.20	-8.89	-7	-2	-13	-13	
878551	21-Dec-2010, 09:45	0.53	3.75	1110.00	1057	1097	1140	1140	
MSS878551	21-Dec-2010, 09:47	2.21	2.12	4490.00	4352	4523	4565	4520	
MSDS878551	21-Dec-2010, 09:49	3.63	5.55	7360.00	6813	7285	7605	7719	
879718	21-Dec-2010, 09:51	1.19	5.20	2450.00	2282	2424	2527	2561	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV	21-Dec-2010, 09:53	2.94	6.42	5970.00	5438	5955	6212	6272	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB	21-Dec-2010, 09:55	-0.03	4.70	-9.94	-10	-10	-13	-7	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
882758 LCSS35847	21-Dec-2010, 09:56	1.95	1.49	3980.00	3905	3960	4003	4042	
882757 MBS35847	21-Dec-2010, 09:58	-0.03	8.21	-7.72	-11	-9	-9	-1	
881767	21-Dec-2010, 10:00	0.91	1.41	1880.00	1842	1879	1889	1902	
L881767	21-Dec-2010, 10:02	0.16	1.88	371.00	362	373	374	375	
DUP881767	21-Dec-2010, 10:04	0.78	1.67	1630.00	1593	1621	1638	1655	
MSS881767	21-Dec-2010, 10:06	3.10	2.22	6280.00	6092	6274	6358	6407	
MSDS881767	21-Dec-2010, 10:08	2.61	2.66	5310.00	5116	5294	5400	5422	
PDSS881767	21-Dec-2010, 10:09	2.89	1.86	5870.00	5733	5842	5928	5981	
881811	21-Dec-2010, 10:11	0.47	2.68	984.00	950	979	998	1008	

Analyst
Date Started 12/21/2010, 10:13:37
Worksheet 7471 Soil (10ppb as high std)
Comment

* All concentrations are dilution corrected.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
882748 LCSS35845	21-Dec-2010, 10:13	1.85	3.52	3780.00	3651	3699	3824	3943	
CCV	21-Dec-2010, 10:15	2.90	3.88	5880.00	5604	5813	5970	6135	
CCB	21-Dec-2010, 10:17	-0.03	10.00	-14.40	-6	-18	-18	-17	
882747 MBS35845	21-Dec-2010, 10:19	-0.03	3.69	-11.30	-11	-11	-14	-9	
877664	21-Dec-2010, 10:21	0.95	3.55	1970.00	1895	1936	1994	2051	
L877664	21-Dec-2010, 10:23	0.17	5.26	378.00	352	381	388	389	
DUP877664	21-Dec-2010, 10:25	1.36	1.43	2790.00	2735	2779	2799	2828	
MSS877664	21-Dec-2010, 10:26	2.62	6.79	5330.00	4841	5275	5538	5647	
MSDS877664	21-Dec-2010, 10:28	2.64	2.54	5370.00	5199	5353	5427	5519	
PDSS877664	21-Dec-2010, 10:30	2.65	4.12	5380.00	5145	5273	5452	5650	
877666	21-Dec-2010, 10:32	0.79	22.90	1640.00	1283	1401	1798	2078	
882753 LCSS35846	21-Dec-2010, 10:34	1.88	2.53	3820.00	3703	3795	3882	3917	
882752 MBS35846	21-Dec-2010, 10:36	-0.04	4.55	-35.20	-32	-32	-38	-38	
CCV	21-Dec-2010, 10:38	2.91	3.59	5910.00	5638	5867	6034	6115	
CCB	21-Dec-2010, 10:39	-0.03	4.53	-18.00	-14	-21	-17	-19	
879260	21-Dec-2010, 10:41	0.33	1.57	705.00	691	704	711	715	
879269	21-Dec-2010, 10:43	0.32	2.99	691.00	665	689	701	710	
879270	21-Dec-2010, 10:45	0.32	2.78	686.00	660	688	696	699	
879271	21-Dec-2010, 10:47	0.33	2.65	705.00	682	702	715	721	
879272	21-Dec-2010, 10:49	0.27	2.40	587.00	570	584	595	599	
879273	21-Dec-2010, 10:51	0.30	2.05	647.00	630	646	653	659	
879274	21-Dec-2010, 10:53	0.30	2.47	640.00	623	635	644	658	
879275	21-Dec-2010, 10:54	0.32	2.00	689.00	673	685	699	700	
L879275	21-Dec-2010, 10:56	0.05	5.65	144.00	136	145	148	147	
DUP879275	21-Dec-2010, 10:58	0.34	1.80	734.00	723	729	732	752	
CCV	21-Dec-2010, 11:00	2.92	2.59	5940.00	5740	5910	6011	6095	
CCB	21-Dec-2010, 11:02	-0.03	8.18	-10.10	-16	-10	-7	-7	
MSS879275	21-Dec-2010, 11:04	2.14	2.90	4350.00	4213	4289	4415	4492	
MSDS879275	21-Dec-2010, 11:06	2.11	3.09	4300.00	4118	4291	4370	4417	
PDSS879275	21-Dec-2010, 11:08	2.27	3.75	4610.00	4378	4600	4718	4760	
879276	21-Dec-2010, 11:10	0.28	2.48	619.00	602	613	625	635	
879277	21-Dec-2010, 11:11	0.30	4.01	656.00	622	654	670	677	
879278	21-Dec-2010, 11:13	0.30	3.74	647.00	617	643	658	669	
CCV	21-Dec-2010, 11:15	2.87	4.17	5830.00	5495	5831	5972	6037	

CETAC Hg Analysis Report - 10122100.DB - 12/21/2010, 11:28:46

Analyst
Date Started 12/21/2010, 11:17:38
Worksheet 7471 Soil (10ppb as high std)
Comment

* All concentrations are dilution corrected.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB	21-Dec-2010, 11:17	-0.03	4.36	-13.70	-12	-17	-11	-15	

METALS
LOGBOOK
DOCUMENTS

MICP SOIL QSM Analytical Run
72492 on 1/3/2011

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	883617							MICP SOIL QSM				
				ICV					0			
	883618							MICP SOIL QSM				
				ICB					0			
	883619							MICP SOIL QSM				
				MRL					0			
	883620							MICP SOIL QSM				
				ICSA					0			
	883621							MICP SOIL QSM				
				ICSAB					0			
	883628							MICP SOIL QSM				
				CCV1					0			
	883629							MICP SOIL QSM				
				CCV2					0			
	883630							MICP SOIL QSM				
				CCB					0			
	881108							ICP QSM				
				LCSS					35793			
	881107							ICP QSM				
				MBS					35793			
82743	877664		12/2/2010 1325			USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
		DAASS-041-0001-SO							35793			
	883655							ICP QSM				
				L	877664				0			
	881104		12/2/2010 1325					ICP QSM				
		DAASS-041-0001-SO		DUP	877664				35793			
	883656							MICP SOIL QSM				
				CCV1					0			
	883657							MICP SOIL QSM				
				CCV2					0			
	883658							MICP SOIL QSM				
				CCB					0			
	881105		12/2/2010 1325					ICP QSM				
		DAASS-041-0001-SO		MSS	877664				35793			
	881106		12/2/2010 1325					ICP QSM				
		DAASS-041-0001-SO		MSDS	881105				35793			
	883659							ICP QSM				
				PDSS	877664				0			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run
72492 on 1/3/2011

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82743	877666		12/2/2010 1355		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
		DAASS-040-0001-SO						35793			
	883661						MICP SOIL QSM				
				CCV2				0			
	883662						MICP SOIL QSM				
				CCB				0			
	884208						MICP SOIL QSM				
				ICV				0			
	884209						MICP SOIL QSM				
				ICB				0			
	884210						MICP SOIL QSM				
				MRL				0			
	884211						MICP SOIL QSM				
				ICSA				0			
	884212						MICP SOIL QSM				
				ICSAB				0			
	884216						MICP SOIL QSM				
				CCV1				0			
	884217						MICP SOIL QSM				
				CCV2				0			
	884215						MICP SOIL QSM				
				CCB				0			
	881108						ICP QSM				
RERUN				LCSS				35793			
	881107						ICP QSM				
RERUN				MBS				35793			
82743	877664		12/2/2010 1325		USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DAASS-041-0001-SO						35793			
RERUN		DAASS-041-0001-SO						35793			
RERUN		DAASS-041-0001-SO						35793			
RERUN		DAASS-041-0001-SO						35793			
RERUN		DAASS-041-0001-SO						35793			
	884218						MICP SOIL QSM				
				CCV1				0			
	884219						MICP SOIL QSM				
				CCV2				0			
	884220						MICP SOIL QSM				
				CCB				0			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run
72492 on 1/3/2011

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	884799							ICP QSM				
				L	877664							
	881104		12/2/2010 1325					ICP QSM				
RERUN		DAASS-041-0001-SO		DUP	877664				35793			
RERUN		DAASS-041-0001-SO		DUP	877664				35793			
RERUN		DAASS-041-0001-SO		DUP	877664				35793			
RERUN		DAASS-041-0001-SO		DUP	877664				35793			
	881105		12/2/2010 1325					ICP QSM				
RERUN		DAASS-041-0001-SO		MSS	877664				35793			
RERUN		DAASS-041-0001-SO		MSS	877664				35793			
RERUN		DAASS-041-0001-SO		MSS	877664				35793			
RERUN		DAASS-041-0001-SO		MSS	877664				35793			
RERUN		DAASS-041-0001-SO		MSS	877664				35793			
	881106		12/2/2010 1325					ICP QSM				
RERUN		DAASS-041-0001-SO		MSDS	881105				35793			
RERUN		DAASS-041-0001-SO		MSDS	881105				35793			
RERUN		DAASS-041-0001-SO		MSDS	881105				35793			
RERUN		DAASS-041-0001-SO		MSDS	881105				35793			
	884804							ICP QSM				
				PDSS	877664							
82743	877666		12/2/2010 1355			USACE - LOUISVILLE	RAVENNA	ICP QSM		S	**4**	
RERUN		DAASS-040-0001-SO							35793			
RERUN		DAASS-040-0001-SO							35793			
RERUN		DAASS-040-0001-SO							35793			
RERUN		DAASS-040-0001-SO							35793			
	884221							MICP SOIL QSM				
				CCV1					0			
	884222							MICP SOIL QSM				
				CCV2					0			
	884223							MICP SOIL QSM				
				CCB					0			

62 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run
72493 on 1/3/2011

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	882906							MICP SOIL QSM				
				ICV					0			
	882907							MICP SOIL QSM				
				ICB					0			
	882908							MICP SOIL QSM				
				MRL					0			
	882909							MICP SOIL QSM				
				ICSA					0			
	882910							MICP SOIL QSM				
				ICSAB					0			
	881108							ICP K QSM				
				LCSS					35793			
	881108							ICP NA QSM				
				LCSS					35793			
	882915							MICP SOIL QSM				
				CCV					0			
	882916							MICP SOIL QSM				
				CCB					0			
	881107							ICP K QSM				
				MBS					35793			
	881107							ICP NA QSM				
				MBS					35793			
82743	877664		12/2/2010 1325			USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DAASS-041-0001-SO							35793			
82743	877664		12/2/2010 1325			USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DAASS-041-0001-SO							35793			
	882917							ICP K QSM				
				L	877664				0			
	882917							ICP NA QSM				
				L	877664				0			
	881104		12/2/2010 1325					ICP K QSM				
		DAASS-041-0001-SO		DUP	877664				35793			
	881104		12/2/2010 1325					ICP NA QSM				
		DAASS-041-0001-SO		DUP	877664				35793			
	881105		12/2/2010 1325					ICP K QSM				
		DAASS-041-0001-SO		MSS	877664				35793			
	881105		12/2/2010 1325					ICP NA QSM				
		DAASS-041-0001-SO		MSS	877664				35793			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run
72493 on 1/3/2011

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	882918							MICP SOIL QSM				
				CCV					0			
	882919							MICP SOIL QSM				
				CCB					0			
	881106		12/2/2010 1325					ICP K QSM				
		DAASS-041-0001-SO		MSDS	881105				35793			
	881106		12/2/2010 1325					ICP NA QSM				
		DAASS-041-0001-SO		MSDS	881105				35793			
	882920							ICP K QSM				
				PDSS	877664				0			
	882920							ICP NA QSM				
				PDSS	877664				0			
82743	877666		12/2/2010 1355			USACE - LOUISVILLE	RAVENNA	ICP K QSM		S	**4**	
		DAASS-040-0001-SO							35793			
82743	877666		12/2/2010 1355			USACE - LOUISVILLE	RAVENNA	ICP NA QSM		S	**4**	
		DAASS-040-0001-SO							35793			
	882921							MICP SOIL QSM				
				CCV					0			
	882922							MICP SOIL QSM				
				CCB					0			
	882923							MICP SOIL QSM				
				CCV					0			
	882924							MICP SOIL QSM				
				CCB					0			

31 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MERCURY QSM SOIL Analytical Run
72621 on 1/3/2011

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	883507							MERCURY QSM SOIL				
				ICV					0			
	883508							MERCURY QSM SOIL				
				ICB					0			
	883509							MERCURY QSM SOIL				
				CCV					0			
	883510							MERCURY QSM SOIL				
				CCB					0			
	882748							MERCURY QSM				
				LCSS					35845			
	883511							MERCURY QSM SOIL				
				CCV					0			
	883512							MERCURY QSM SOIL				
				CCB					0			
	882747							MERCURY QSM				
				MBS					35845			
82743	877664		12/2/2010 1325			USACE - LOUISVILLE	RAVENNA	MERCURY QSM		S	**4**	
		DAASS-041-0001-SO							35845			
	883513							MERCURY QSM				
				L	877664				0			
	882749		12/2/2010 1325					MERCURY QSM				
		DAASS-041-0001-SO		DUP	877664				35845			
	882750		12/2/2010 1325					MERCURY QSM				
		DAASS-041-0001-SO		MSS	877664				35845			
	882751		12/2/2010 1325					MERCURY QSM				
		DAASS-041-0001-SO		MSDS	882750				35845			
	883514							MERCURY QSM				
				PDSS	877664				0			
82743	877666		12/2/2010 1355			USACE - LOUISVILLE	RAVENNA	MERCURY QSM		S	**4**	
		DAASS-040-0001-SO							35845			
	883515							MERCURY QSM SOIL				
				CCV					0			
	883516							MERCURY QSM SOIL				
				CCB					0			

17 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 1/3/2011

Prep Batch **35,793**

Prepped By:: GCE

Date Prepped: 12/14/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	881107	MBS		ICP QSM	SOLID	50	2.0			
	881107	MBS		ICP K QSM	SOLID	50	2.0			
	881107	MBS		ICP NA QSM	SOLID	50	2.0			
	881107	MBS		ICP QSM	SOLID	50	2.0			
	881108	LCSS		ICP QSM	SOLID	50	2.0			
	881108	LCSS		ICP QSM	SOLID	50	2.0			
	881108	LCSS		ICP K QSM	SOLID	50	2.0			
	881108	LCSS		ICP NA QSM	SOLID	50	2.0			
82743	877664			ICP K QSM	SOIL	50	2.0		N	
	877664			ICP NA QSM	SOIL	50	2.0		N	
	877664			ICP QSM	SOIL	50	2.0		Y	
	877664			ICP QSM	SOIL	50	2.0		Y	
	877664			ICP QSM	SOIL	50	2.0		Y	
	877664			ICP QSM	SOIL	50	2.0		Y	
	877664			ICP QSM	SOIL	50	2.0		Y	
	877664			ICP QSM	SOIL	50	2.0		Y	
	877666			ICP QSM	SOIL	50	2.0		Y	

Distibution:Metals

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PREP WORKSHEET
on 1/3/2011

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
82743	877666			ICP K QSM	SOIL	50	2.0		N	
	877666			ICP QSM	SOIL	50	2.0		Y	
	877666			ICP QSM	SOIL	50	2.0		Y	
	877666			ICP QSM	SOIL	50	2.0		Y	
	877666			ICP QSM	SOIL	50	2.0		Y	
	877666			ICP NA QSM	SOIL	50	2.0		N	
	881104	DUP	877664	ICP QSM	SOIL	50	2.0			
	881104	DUP	877664	ICP QSM	SOIL	50	2.0			
	881104	DUP	877664	ICP K QSM	SOIL	50	2.0			
	881104	DUP	877664	ICP NA QSM	SOIL	50	2.0			
	881104	DUP	877664	ICP QSM	SOIL	50	2.0			
	881104	DUP	877664	ICP QSM	SOIL	50	2.0			
	881104	DUP	877664	ICP QSM	SOIL	50	2.0			
	881105	MSS	877664	ICP QSM	SOIL	50	2.0			
	881105	MSS	877664	ICP QSM	SOIL	50	2.0			
	881105	MSS	877664	ICP K QSM	SOIL	50	2.0			
	881105	MSS	877664	ICP QSM	SOIL	50	2.0			
	881105	MSS	877664	ICP QSM	SOIL	50	2.0			
	881105	MSS	877664	ICP QSM	SOIL	50	2.0			

PREP WORKSHEET
on 1/3/2011

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	881105	MSS	877664	ICP NA QSM	SOIL	50	2.0			
	881105	MSS	877664	ICP QSM	SOIL	50	2.0			
	881106	MSDS	881105	ICP QSM	SOIL	50	2.0			
	881106	MSDS	881105	ICP K QSM	SOIL	50	2.0			
	881106	MSDS	881105	ICP NA QSM	SOIL	50	2.0			
	881106	MSDS	881105	ICP QSM	SOIL	50	2.0			
	881106	MSDS	881105	ICP QSM	SOIL	50	2.0			
	881106	MSDS	881105	ICP QSM	SOIL	50	2.0			
	881106	MSDS	881105	ICP QSM	SOIL	50	2.0			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____
Notes:_____

PREP WORKSHEET
on 1/3/2011

Prep Batch **35,845**

Prepped By:: AMA

Date Prepped: 12/20/2010

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	882747	MBS		MERCURY QSM	SOLID	25	0.60			
	882748	LCSS		MERCURY QSM	SOLID	25	0.60			
82743	877664			MERCURY QSM	SOIL	25	0.56		N	
	877666			MERCURY QSM	SOIL	25	0.60		N	
	882749	DUP	877664	MERCURY QSM	SOIL	25	0.56			
	882750	MSS	877664	MERCURY QSM	SOIL	25	0.58			
	882751	MSDS	882750	MERCURY QSM	SOIL	25	0.58			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

Distibution:

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Analyst: GLE

Metals Digestion Summary - CT Laboratories Baraboo, WI

Date: 12/14/10 Time: 14:00

Prep Batch#	Sample ID#	Matrix*	Prep Method**	Sample Amt (g or ml)	Final Vol. (ml)	Blk	Dup	MS	MSD	Spike/LCS /LFB info	Acid ID#
35792	LCSS	QC	3050	0.50g	50mL	X				1mL M9934, 0.1mL M9302 0.5mL M9753, M9863	AB 515514.507
	879718	SL		0.51g				0.57g X	0.53g X	1mL M9934 0.1mL M9302 0.5mL M9753, M9863	
	880240	SO		0.56g				0.56g X	0.53g X	1mL M9934, 0.1mL M9302 0.5mL M9753, M9863	
	880241			0.76g							
	881076			0.73g							
	881077			0.51g							
	881083			0.56g							
	881084			0.87g							
	881085			0.55g							
	881086			0.64g							
	881087			0.73g							
	881088			0.76g							
	881089			0.60g							
	881090			0.60g							
	881091			0.61g							
			12/14/10 GLE								
35793	LCSS	QC	3050 QSM	2.0g	50mL	X	2.0g X	2.0g X	2.0g X	1mL M9934 0.1mL M9302 0.5mL M9753, M9863 1mL M9934, M9864, M9866 0.5mL M9753, M9863, 0.1mL M9530, M9302	AB 515514.507
	877664	SO		2.0g							
	877666			2.0g							
					12/14/10 GLE						

Method Temperature Verification

*SO,SL,WW,GW,TCLP,SPLP,ASTM, other
**3005,3010,3020,3050,3060

Review Date/Initials:

Block Used:	B	Initial Block Temp (C):	94°C	Digestion Tube Lot #:	1008257
Cell #		Final Block Temp (C):	94°C	Comments:	

Prep Batch #: 35844, 35845, 35847

Method: 7470a / 7471a

Mercury Sample Digestion Bench Sheet

Date: 12/20/10
Time: 1545
Analyst: AMA

Sample #	Matrix	Sample Volume (ml)	Sample Weight (g)	Amt. DI H2O Added (ml)	Excess KMnO4 added (ml)	Amt. Aqua-Regia added (ml)	Spike (A or B)
0.5	QC	25mL	—	—	—	1.25mL	
1.0	↓	↓	↓	↓	↓	↓	
2.0							
4.0							
5.0							
10.0							
3.0 ICV							
3.0 CCV							
0.2 MBL							
CalCheck							
LCSS=2.0, 35844			0.60g	25mL			A
MBS, 35844	↓		0.60g	↓			
878551, MS, MSD	SL		0.60, 0.60, 0.60g				A
879718	↓	↓	0.57g	↓	↓	↓	
				12/20/10 AMA			
LCSS=2.0, 35845	QC	25mL	0.60g	25mL	—	1.25mL	A
MBS, 35845	↓	↓	0.60g	↓	↓	↓	
877664, Dup, MS, MSD	SO		0.56, 0.56, 0.58, 0.58g				A
877666	↓	↓	0.60g	↓	↓	↓	
				12/20/10 AMA			
LCSS=2.0, 35847	QC	25mL	0.60g	25mL	—	1.25mL	A
MBS, 35847	↓	↓	0.60g	↓	↓	↓	
881767, Dup, MS, MSD	SO		0.55, 0.58, 0.57, 0.59g				A
881811	↓	↓	0.58g	↓	↓	↓	
				12/20/10 AMA			

Notes:

Std./Reagent	Prep ID #
KMnO4	M9995
K2S2O8	M9893
NaCl/Hydrox. SO4	M9996
SnCl2	M9968
HNO3	AB-515
H2SO4	AB-510
Calibration Stds.	M9989
Aqua-Regia	M9994
Method Blank Sand ID#	M23481
Digestion Tube Lot ID#	193555

Water Bath Temperature (Start): 92°C
Water Bath Temperature (Finish): 91°C

A: Spike Volume (ml): 0.5mL
Spike Concentration: 100µg/L
Sample Volume (ml): 25mL
Spike Prep. ID #: M9990

B: Spike Volume (ml): _____
Spike Concentration: _____
Sample Volume (ml): _____
Spike Prep. ID #: _____

Reviewed By (Initials-Date): _____

ICAP 6000 / 6500 Data Review Checklist	Analysis Date: 12-15-10		Data File: D00Results	Date of review: 12-29-10	
Cal Std ID: MS17 LIMS #: 72492	Analyst: RT		Reviewer: GK	Approved? Yes No	
QC Parameters (6010 / 200.7 / QSM / Other)	**YES**	**NO**	**YES**	**NO**	**Comments:**
1) Calibration linearity: r ≥ 0.995 / r² > 0.998	✓				
2) ICV: 90-110% / 95-105%	✓				
3) ICB: < 3X IDL / <LOD / <LOQ	✓				
4) ICSA: < ABS LOD	✓				
5) ICSAB: 80-120%	✓				
6) MRL: 70-130% / 80-120%	✓				
7) MDL Check: >LOD					CCV fail Ag, Be
8) CCV1/CCB1 (CCV: 90-110%)	✓	✓			CCB fail Ba, Ca, Mn, Tl 02 >10x or <LOD
9) CCV2/CCB2 (CCB: < 3X IDL / <LOD / <LOQ)	✓	✓			
10) CCV3/CCB3	✓				
11) CCV4/CCB4	✓				
12) CCV5/CCB5					
13) CCV6/CCB6					
Preparation Batch Parameters	**YES**	**NO**	**YES**	**NO**	
Prep Batch ID#: 35493 Dig. Meth. 3050	✓				
LCS - generated limits or project specific limits	✓				
MB - <LOD or ≤ ½ RL	✓	✓			Al, Sb, Ba, Ca, Cr, Fe, Mg, Mn, V
Spiked samples in batch:					
a) 571464 matrix = S	✓	✓			Ltd fail As, Mo, Pb; Al, Be, Ca, Cd, Cu, Mg, Sb
b) _____ matrix = _____					Dup fail Mo, Se, Sb; N/A
c) _____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#: 571464	✓				MS, MSD fail Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Ni, V, Zn
Prep Batch ID#: _____ Dig. Meth. _____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					PDS fail Co, Fe, Mn, Ni, Pb, Zn "M"
Spiked samples in batch:					
a) _____ matrix = _____					
b) _____ matrix = _____					Be Dup fail "Y"
c) _____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#: _____					
Prep Batch ID#: _____ Dig. Meth. _____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					had to RR MS, MSD because Samples of features
a) _____ matrix = _____					had to RR for some because of Dilution matching
b) _____ matrix = _____					
c) _____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#: _____					
Prep Batch ID#: _____ Dig. Meth. _____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) _____ matrix = _____					
b) _____ matrix = _____					
c) _____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#: _____					

iCAP 6000 / 6500 Data Review Checklist	Analysis Date: 12-16-10		Data File: DAK Results		Date of review: 12/20/10
Cal Std ID: 100904 LIMS #: 72493	Analyst: DK		Reviewer: RD		Approved? (Yes) No
QC Parameters : 6010 / 200.7 / QSM / Other	**YES**	**NO**	**YES**	**NO**	**Comments:**
1) Calibration linearity: r ≥ 0.995 / r > 0.998	✓		✓		
2) ICV: 90-110% / 95-105%	✓		✓		
3) ICB: < 3X IDL / <LOD / <LOQ	✓		✓		
4) ICSA: < ABS LOD	✓		✓		
5) ICSAB: 80-120%	✓		✓		
6) MRL: 70-130% / 80-120%	✓		✓		
7) MDL Check: >LOD					
8) CCV1/CCB1 (CCV: 90-110%)	✓		✓		
9) CCV2/CCB2 (CCB: < 3X IDL / <LOD / <LOQ)	✓		✓		
10) CCV3/CCB3	✓		✓		
11) CCV4/CCB4					
12) CCV5/CCB5					
13) CCV6/CCB6					
Preparation Batch Parameters	**YES**	**NO**	**YES**	**NO**	
Prep Batch ID#: 35493 Dig. Meth. 3050	✓		✓		
LCS - generated limits or project specific limits	✓		✓		
MB - <LOD or ≤ ½ RL	✓		✓		
Spiked samples in batch:					
a) 877606 matrix = SO	✓	✓	✓	✓	L, MS, MSD for PDS pass no flag
b)_____ matrix =_____					
c)_____ matrix =_____					
PDS: ±15% / 20% / 25% Sample#:_____					
Prep Batch ID#:_____ Dig. Meth._____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a)_____ matrix =_____					
b)_____ matrix =_____					
c)_____ matrix =_____					
PDS: ±15% / 20% / 25% Sample#:_____					
Prep Batch ID#:_____ Dig. Meth._____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a)_____ matrix =_____					
b)_____ matrix =_____					
c)_____ matrix =_____					
PDS: ±15% / 20% / 25% Sample#:_____					
Prep Batch ID#:_____ Dig. Meth._____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a)_____ matrix =_____					
b)_____ matrix =_____					
c)_____ matrix =_____					
PDS: ±15% / 20% / 25% Sample#:_____					

GFAA / FLAA / CVAA Data Review checklist		Method: 200.9	7000 series AA	245.1	7470a / 7471a
Instrumentation:	THERMO M SERIES AA			CETAC Hg ANALYZER	
Analysis Date: 12-22-10	Data File: 10122100		Date Review: 12/23/10	Analyte: Hg	
Cal Std ID: M9989	LIMS # : 72621	Analyst: MM/BC	Reviewer: RJ	Approved? (Yes)	No

Calibration Parameters -	YES	NO	YES	NO	Comments:
1) Calibration linearity - r > 0.995	✓		/		
2) ICV: (90-110%) 95-105%	✓		/		
3) ICB: <IDL / (<LOD) <LOQ / <½ RL	✓		/		
6) MRL: 70-130%					
7) CCV1/CCB1- (CCV: 90-110% (80-120%)	✓		/		
8) CCV2/CCB2 (CCB: <IDL / (<LOD) / <LOQ / <½ RL)	✓		/		
9) CCV3/CCB3	✓		/		
10) CCV4/CCB4					
11) CCV5/CCB5					
12) CCV6/CCB6					

Preparation Batch Parameters	YES	NO	YES	NO	Comments:
Prep Batch ID#: 35815 Dig. Meth. 7470a	✓		/		
LCS - generated limits or project specific limits	✓		/		
MB - <LOD / <2.2X LOD / (≤ ½RL)	✓		/		
Spiked samples in batch:					
a) 877664 matrix = SO	✓	✓	–	–	1 failed - N/A - use PDs - OK
b) _____ matrix = _____					DUP failed - 'Y' flagged sample
c) _____ matrix = _____					MS's failed - MSD's PDs passed - OK
d) _____ matrix = _____					
e) _____ matrix = _____					
PDS: ±15% / (20%) / 25% Sample# 877664	✓		/		
MSA Performed? Yes No					
Prep Batch ID#: _____ Dig. Meth. _____					
LCS - generated limits or project specific limits					
MB - <LOD / <2.2X LOD / ≤ ½RL					
Spiked samples in batch:					
a) _____ matrix = _____					
b) _____ matrix = _____					
c) _____ matrix = _____					
d) _____ matrix = _____					
e) _____ matrix = _____					
PDS: ±15% / 20% / 25% Sample# _____					
MSA Performed? Yes No					
Prep Batch ID#: _____ Dig. Meth. _____					
LCS - generated limits or project specific limits					
MB - <LOD / <2.2X LOD / ≤ ½RL					
Spiked samples in batch:					
a) _____ matrix = _____					
b) _____ matrix = _____					
c) _____ matrix = _____					
d) _____ matrix = _____					
e) _____ matrix = _____					
PDS: ±15% / 20% / 25% Sample# _____					
MSA Performed? Yes No					

CT Laboratories Instrument Run Log

Instrument ID: ICP 6000

Date	Time Start/End	Analyst	Method	LIMS# or Sample #	Sequence I.D.	Nebulizer Pressure	Cal Std ID	Wavelenth Check	Comments
12-19-10	1348 / 0750	[redacted]	DOD Cal	72358, 72370, 72354, 72357, 72591, 72340	D121910	270	M9817	189041	V1328
12-20-10	1144 / 1550	[redacted]	DOD Cal	72233	D121910	270	M9817	189041	V1329
12-21-10	0956 / 2141	[redacted]	DOD Cal	72494, 72495, 72496, 72497, 72498, 72499, 72500, 72501, 72502, 72503, 72504, 72505, 72506, 72507, 72508, 72509, 72510, 72511, 72512, 72513, 72514, 72515, 72516, 72517, 72518, 72519, 72520, 72521, 72522, 72523, 72524, 72525, 72526, 72527, 72528, 72529, 72530, 72531, 72532, 72533, 72534, 72535, 72536, 72537, 72538, 72539, 72540, 72541, 72542, 72543, 72544, 72545, 72546, 72547, 72548, 72549, 72550, 72551, 72552, 72553, 72554, 72555, 72556, 72557, 72558, 72559, 72560, 72561, 72562, 72563, 72564, 72565, 72566, 72567, 72568, 72569, 72570, 72571, 72572, 72573, 72574, 72575, 72576, 72577, 72578, 72579, 72580, 72581, 72582, 72583, 72584, 72585, 72586, 72587, 72588, 72589, 72590, 72591, 72592, 72593, 72594, 72595, 72596, 72597, 72598, 72599, 72600, 72601, 72602, 72603, 72604, 72605, 72606, 72607, 72608, 72609, 72610, 72611, 72612, 72613, 72614, 72615, 72616, 72617, 72618, 72619, 72620, 72621, 72622, 72623, 72624, 72625, 72626, 72627, 72628, 72629, 72630, 72631, 72632, 72633, 72634, 72635, 72636, 72637, 72638, 72639, 72640, 72641, 72642, 72643, 72644, 72645, 72646, 72647, 72648, 72649, 72650, 72651, 72652, 72653, 72654, 72655, 72656, 72657, 72658, 72659, 72660, 72661, 72662, 72663, 72664, 72665, 72666, 72667, 72668, 72669, 72670, 72671, 72672, 72673, 72674, 72675, 72676, 72677, 72678, 72679, 72680, 72681, 72682, 72683, 72684, 72685, 72686, 72687, 72688, 72689, 72690, 72691, 72692, 72693, 72694, 72695, 72696, 72697, 72698, 72699, 72700, 72701, 72702, 72703, 72704, 72705, 72706, 72707, 72708, 72709, 72710, 72711, 72712, 72713, 72714, 72715, 72716, 72717, 72718, 72719, 72720, 72721, 72722, 72723, 72724, 72725, 72726, 72727, 72728, 72729, 72730, 72731, 72732, 72733, 72734, 72735, 72736, 72737, 72738, 72739, 72740, 72741, 72742, 72743, 72744, 72745, 72746, 72747, 72748, 72749, 72750, 72751, 72752, 72753, 72754, 72755, 72756, 72757, 72758, 72759, 72760, 72761, 72762, 72763, 72764, 72765, 72766, 72767, 72768, 72769, 72770, 72771, 72772, 72773, 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72917, 72918, 72919, 72920, 72921, 72922, 72923, 72924, 72925, 72926, 72927, 72928, 72929, 72930, 72931, 72932, 72933, 72934, 72935, 72936, 72937, 72938, 72939, 72940, 72941, 72942, 72943, 72944, 72945, 72946, 72947, 72948, 72949, 72950, 72951, 72952, 72953, 72954, 72955, 72956, 72957, 72958, 72959, 72960, 72961, 72962, 72963, 72964, 72965, 72966, 72967, 72968, 72969, 72970, 72971, 72972, 72973, 72974, 72975, 72976, 72977, 72978, 72979, 72980, 72981, 72982, 72983, 72984, 72985, 72986, 72987, 72988, 72989, 72990, 72991, 72992, 72993, 72994, 72995, 72996, 72997, 72998, 72999, 73000, 73001, 73002, 73003, 73004, 73005, 73006, 73007, 73008, 73009, 73010, 73011, 73012, 73013, 73014, 73015, 73016, 73017, 73018, 73019, 73020, 73021, 73022, 73023, 73024, 73025, 73026, 73027, 73028, 73029, 73030, 73031, 73032, 73033, 73034, 73035, 73036, 73037, 73038, 73039, 73040, 73041, 73042, 73043, 73044, 73045, 73046, 73047, 73048, 73049, 73050, 73051, 73052, 73053, 73054, 73055, 73056, 73057, 73058, 73059, 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73489, 73490, 73491, 73492, 73493, 73494, 73495, 73496, 73497, 73498, 73499, 73500, 73501, 73502, 73503, 73504, 73505, 73506, 73507, 73508, 73509, 73510, 73511, 73512, 73513, 73514, 73515, 73516, 73517, 73518, 73519, 73520, 73521, 73522, 73523, 73524, 73525, 73526, 73527, 73528, 73529, 73530, 73531, 73532, 73533, 73534, 73535, 73536, 73537, 73538, 73539, 73540, 73541, 73542, 73543, 73544, 73545, 73546, 73547, 73548, 73549, 73550, 73551, 73552, 73553, 73554, 73555, 73556, 73557, 73558, 73559, 73560, 73561, 73562, 73563, 73564, 73565, 73566, 73567, 73568, 73569, 73570, 73571, 73572, 73573, 73574, 73575, 73576, 73577, 73578, 73579, 73580, 73581, 73582, 73583, 73584, 73585, 73586, 73587, 73588, 73589, 73590, 73591, 73592, 73593, 73594, 73595, 73596, 73597, 73598, 73599, 73600, 73601, 73602, 73603, 73604, 73605, 73606, 73607, 73608, 73609, 73610, 73611, 73612, 73613, 73614, 73615, 73616, 73617, 73618, 73619, 73620, 73621, 73622, 73623, 73624, 73625, 73626, 73627, 73628, 73629, 73630, 73631, 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12-22-10	0943 / 2243	[redacted]	DOD Cal	72652, 72651, 72557, 72591, 72692, 72651, 72650, 72657, 72703, 72704, 72765	D122210	380	M9817	189041	V1334, V1335
12-23-10	1543 / 0737	[redacted]	DOD Cal		D122310a	380	M9817	189041	V1336
12-28-10	1356 / 0241	[redacted]	DOD Cal	72704, 72557, 72609, 72704, 72650, 72521, 72097, 72753, 72715, 72728, 72729, 72760, 72746, 72759	D122810	270	M9817	189041	V1338
12-29-10	1448 / 0055	[redacted]	DOD Cal		D122910	270	M9817	189041	V124
12-30-10	/	[redacted]	DOD Cal						

CT Laboratories Instrument Run Log

Instrument ID: ICP 6500

Date	Time Start/End	Analyst	Analytes	LIMS run or Samples Analyzed	Sequence ID	Cal Std ID	Neb Pressure	Comments
12-07-10	0833 / 1339	JA	NaK	72121, 72128, 72206	N120710	m9904	310	V117, V118
12-8-10	1306 / 1811	JA	NAK, B, Si	72096, 72093, 72336, 72333, 72339, 72092	N120810	m9904 m98167	310	✓, V113
12-9-10	/	JA	NaK	72336, 72335, 72092	N120810	m9904	310	V120
12-10-10	/	JA						
12-11-10	0951 / 1218	JA	NaK, B	72391, 72396, 72394, 72371	N121110	m9904 m98167	310	V121, V113
12-16-10	1455 / 1923	JA	NaK, List2	72096, 72490, 72491, 72494, 97, 93, 95	N121610	m9904 m98183	310	V122, V91
12-23-10	1055 / 1135	GE	Na, K	72490	N122310	m9904	320	V123
12-29-10	1451 / 1638	JA	NaK	72658, 72653, 72754	N122910	m9904 m98183	320	V124
12-30-10	1322 / 1639	JA	NaK, List2	72736, 72731	N123010	m9904 m98183	320	V125, V95

MERCURY ANALYZER INSTRUMENT RUN LOG

date analyzed	time start/end	analyst	Samples analyzed	worksheet(method) File Id	Cal Std Id	Comments
10/27/10	0911/0952	GLE	71300	10102700	M9885	LC: 10.2 Tube Lot No. 186786
10/27/10	1011/1209	GLE	71301, 71302, 71303	10102702	M9885	LC: 10.2 Tube Lot No. 186786
11/03/10	0835/1242	GLE	71470, 71471, 71472, 71473, 71474, 71475	10110300	M9896	LC: 10.2 Tube Lot No. 190047
11/03/10	1250/1456	GLE	71498, 71499, 71500	10110301	M9896	LC: 10.2 Tube Lot No. 190047
11/10/10	0833/0916	GLE	71645	10111000	M9907	LC: 10.2 Tube Lot No. 190047
11/10/10	0924/1108	GLE	71646, 71648	10111001	M9907	LC: 10.4 Tube Lot No. 190047
11/17/10	0912/1053	GLE	71832, 71833	10111700	M9916	LC: 10.2 Tube Lot No. 190047
11/17/10	1102/1244	GLE	71831, 71830 71837	10111701	M9916	LC: 10.2 Tube Lot No. 190047
11/24/10	0817/1401	GLE	72018, 72019, 72020, 72021	10112400, 01, 02	M9935	LC: 10.4 Tube Lot No. 190047
11/24/10	1417/1551	GLE	72024, 72023, 72022	10112403	M9935	LC: 10.4 Tube Lot No. 190047
11/30/10	0842/1058	GLE	72082, 72083	10113000	M9945	LC: 10.4 Tube Lot No. 190047
12/08/10	0855/1151	GLE	72325, 72330, 72343, 72331, 72332	10120800	M9962	LC: 10.4 Tube Lot No. 190047
12/08/10	1258/1640	GLE	72326, 72327, 72328, 72329, 72333	10120802	M9962	LC: 10.4 Tube Lot No. 190047
12/21/10	0916/1117	AMA	72614, 72620, 72621, 72622, 72623	10122100	M9989	LC: 10.4 Tube Lot No. 190047
12/21/10	1139/1526	AMA	72612, 72613, 72615, 72617, 72618, 72619	10122101	M9989	LC: 10.4 Tube Lot No. 190047

Type	Date/Time	Message	User name	Application	Sequence Name
	12/15/2010 10:09:09	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 10:09:28	Autosampler Run Started	NAH	Analyst	
	12/15/2010 10:09:28	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 10:10:12	D33534 - Debug:Wavelength check : x = 1.710, y =1.549	NAH	Analyst	
	12/15/2010 10:10:55	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 10:16:09	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 10:20:55	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 10:22:00	Autosampler Run Started	NAH	Analyst	
	12/15/2010 10:22:00	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 10:22:44	D33534 - Debug:Wavelength check : x = 1.710, y =1.501	NAH	Analyst	
	12/15/2010 10:23:08	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 10:28:25	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 10:28:57	Closing will close the method and all associated samples.	NAH	Analyst	
	12/15/2010 10:29:00	Closing will close the method and all associated samples.	NAH	Analyst	
	12/15/2010 10:33:44	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 10:39:04	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 10:44:21	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 10:49:41	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 10:55:01	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 11:00:19	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 11:05:33	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 11:10:46	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 11:15:44	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 11:16:20	Closing will close the method and all associated samples.	NAH	Analyst	
	12/15/2010 11:21:08	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 11:26:17	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 11:31:51	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 11:37:33	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 11:43:29	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 11:48:46	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 11:54:06	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 11:59:25	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 12:04:43	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 12:09:58	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 12:15:40	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 12:21:08	Running lcss35792 (1)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 12:26:31	Running mbw35792 (2)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 12:31:48	Running 879718 (3)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 12:37:23	Running mss881018 (4)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 12:42:56	Running msds881018 (5)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 12:48:31	Running 880240 (6)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 12:54:00	Running mss880240 (7)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 12:59:22	Running msds880240 (8)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 13:04:46	Running 880241 (9)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 13:10:27	Running 881076 (10)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 13:16:01	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 13:20:52	Closing will close the method and all associated samples.	NAH	Analyst	
	12/15/2010 13:21:10	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 13:26:15	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 13:31:33	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 13:36:54	Running 881077 (11)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/15/2010 13:42:32	Running 881083 (12)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 13:48:00	Running 881084 (13)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 13:53:37	Running 881085 (14)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 13:59:05	Running 881086 (15)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 14:04:39	Running 881087 (16)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 14:07:11	Closing will close the method and all associated samples.	NAH	Analyst	
	12/15/2010 14:10:13	Running 881088 (17)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 14:14:10	Closing will close the method and all associated samples.	NAH	Analyst	
	12/15/2010 14:15:48	Running 881089 (18)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 14:21:14	Running 881090 (19)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 14:26:48	Running 881091 (20)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 14:32:23	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 14:37:33	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 14:42:37	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 14:46:24	Closing will close the method and all associated samples.	NAH	Analyst	
	12/15/2010 14:47:55	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 14:53:15	Running lcsw35794/95 (21)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 14:58:43	Running mbw35794/95 (22)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 15:04:04	Running 879700 (23)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 15:09:44	Running msw879700 (24)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 15:15:14	Running msdw879700 (25)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 15:20:42	Running 878506 (26)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 15:26:16	Running msw878506 (27)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 15:31:51	Running tclp blk 2073 (28)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 15:37:09	Running 879454 (29)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 15:42:48	Running 879740 (30)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 15:48:24	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 15:53:34	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 15:58:38	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 16:03:56	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 16:09:16	Running msw879740 (31)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 16:14:41	Running msdw879740 (32)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 16:20:06	Running 879741 (33)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 16:25:42	Running lcsw35796 (34)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 16:31:10	Running mbw35796 (35)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 16:36:31	Running 880344 (36)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 16:42:06	Running msw880344 (37)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 16:47:32	Running msdw880344 (38)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 16:53:06	Running 880345 (39)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 16:58:24	Running 881023 (40)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 17:03:56	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 17:09:06	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 17:14:10	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 17:19:28	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 17:24:47	Running 881024 (41)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 17:30:19	Running 881025 (42)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 17:35:51	Running 881026 (43)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 17:41:22	Running 881027 (44)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 17:46:52	Running msw881027 (45)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 17:52:07	Running msdw881027 (46)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 17:57:21	Running lcsw35800 (47)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/15/2010 18:02:27	Running mbw35800 (48)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 18:07:45	Running 877875 (49)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 18:13:17	Running l877875 (50)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 18:18:45	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 18:23:56	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 18:29:01	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 18:34:19	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 18:39:37	Running dup877875 (51)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 18:45:13	Running msw877875 (52)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 18:50:40	Running msdw877875 (53)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 18:56:01	Running pdsw877875 (54)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 19:01:15	Running 877885 (55)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 19:06:45	Running 877893 (56)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 19:12:12	Running 879258 (57)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 19:17:50	Running lcsw35797 (58)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 19:23:19	Running mbw65797 (59)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 19:28:40	Running 880553 (60)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 19:34:20	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 19:39:31	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 19:44:36	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 19:49:53	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 19:55:12	Running l880553 (61)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 20:00:44	Running dup880553 (62)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 20:06:23	Running msw880553 (63)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 20:11:40	Running msdw880553 (64)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 20:17:08	Running pdsw880553 (65)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 20:22:36	Running lcsw35798 (66)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 20:28:06	Running mbw35798 (67)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 20:33:27	Running 880540 (68)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 20:39:07	Running 880547 (69)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 20:44:46	Running 880559 (70)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 20:50:25	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 20:55:38	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 21:00:42	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 21:05:59	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 21:11:18	Running 880560 (71)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 21:16:58	Running 880561 (72)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 21:22:38	Running 880563 (73)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 21:28:18	Running 880564 (74)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 21:33:58	Running 880565 (75)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 21:39:41	Running 880600 (76)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 21:45:25	Running l880600 (77)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 21:50:57	Running dup880600 (78)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 21:56:33	Running msw880600 (79)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 22:02:02	Running msdw880600 (80)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 22:07:31	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 22:12:40	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 22:17:44	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 22:23:02	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 22:28:21	Running pdsw880600 (81)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 22:33:37	Running 881054 (82)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/15/2010 22:39:16	Running 881055 (83)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 22:44:54	Running 881057 (84)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 22:50:32	Running 881058 (85)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 22:56:13	Running lcss35793 (86)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 23:01:38	Running mbs35793 (87)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 23:06:58	Running 877664 (88)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 23:12:22	Running l877664 (89)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 23:17:41	Running dup877664 (90)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 23:23:03	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 23:28:14	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 23:33:18	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 23:38:36	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 23:43:55	Running mss877664 (91)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 23:49:23	Running msds877664 (92)	NAH	Analyst	S_DOD Calibration 1
	12/15/2010 23:54:50	Running pdss877664 (93)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 00:00:12	Running 877666 (94)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 00:05:45	Running 877718 (95)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 00:11:08	Running 877720 (96)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 00:16:47	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 00:22:04	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 00:27:24	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 00:32:29	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 00:37:46	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 00:43:06	Plasma off	NAH	iTEVA Control Center	
	12/16/2010 00:43:06	Plasma extinguished successfully	NAH	Analyst	
	12/16/2010 00:43:08	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 06:44:57	Plasma On	NAH	iTEVA Control Center	
	12/16/2010 06:45:02	Plasma ignition successful	NAH	Analyst	
	12/16/2010 06:45:49	D33534 - Debug:Wavelength check : x = 1.723, y =1.592	NAH	Analyst	
	12/16/2010 13:40:24	Autosampler Run Started	NAH	Analyst	
	12/16/2010 13:40:24	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 13:41:09	D33534 - Debug:Wavelength check : x = 1.710, y =1.503	NAH	Analyst	
	12/16/2010 13:41:31	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 13:46:48	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 13:51:48	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 13:51:53	Autosampler Run Started	NAH	Analyst	
	12/16/2010 13:51:53	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 13:52:38	D33534 - Debug:Wavelength check : x = 1.710, y =1.547	NAH	Analyst	
	12/16/2010 13:53:01	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 13:58:18	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 13:59:19	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 13:59:30	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 13:59:30	Autosampler Run Started	NAH	Analyst	
	12/16/2010 14:00:16	D33534 - Debug:Wavelength check : x = 1.710, y =1.551	NAH	Analyst	
	12/16/2010 14:00:40	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 14:05:58	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 14:11:15	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 14:16:34	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 14:21:54	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 14:27:13	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 14:28:53	Closing will close the method and all associated samples.	NAH	Analyst	

Type	Date/Time	Message	User name	Application	Sequence Name
	12/16/2010 14:28:56	Closing will close the method and all associated samples.	NAH	Analyst	
	12/16/2010 14:29:02	Closing will close the method and all associated samples.	NAH	Analyst	
	12/16/2010 14:29:05	Closing will close the method and all associated samples.	NAH	Analyst	
	12/16/2010 14:32:38	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 14:37:55	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 14:43:07	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 14:48:18	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 14:53:16	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 14:58:39	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 15:04:06	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 15:09:40	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 15:15:39	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 15:21:41	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 15:26:55	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 15:30:55	Closing will close the method and all associated samples.	NAH	Analyst	
	12/16/2010 15:32:13	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 15:37:30	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 15:38:37	Starting time can not be greater than ending time.	NAH	Analyst	
	12/16/2010 15:40:21	Closing will close the method and all associated samples.	NAH	Analyst	
	12/16/2010 15:42:02	Closing will close the method and all associated samples.	NAH	Analyst	
	12/16/2010 15:42:47	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 15:48:02	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 15:54:02	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 15:54:12	Closing will close the method and all associated samples.	NAH	Analyst	
	12/16/2010 15:59:46	Running loq 3010 x4 (1)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 16:05:03	Running loq 3010 x8 (2)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 16:05:18	Closing will close the method and all associated samples.	NAH	Analyst	
	12/16/2010 16:10:18	Running 875124 (3)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 16:11:29	Closing will close the method and all associated samples.	NAH	Analyst	
	12/16/2010 16:15:49	Running 875126 (4)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 16:21:29	Running 875128 (5)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 16:26:57	Running 875130 (6)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 16:32:42	Running 875132 (7)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 16:38:24	Running 875134 (8)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 16:44:06	Running 875136 (9)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 16:49:49	Running 875138 (10)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 16:55:30	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 17:00:36	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 17:05:39	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 17:10:56	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 17:16:16	Running 875140 (11)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 17:22:01	Running 875142 (12)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 17:27:43	Running 875144 (13)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 17:33:26	Running 875146 (14)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 17:39:05	Running 875147 (15)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 17:44:44	Running 875148 (16)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 17:50:27	Running 875150 (17)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 17:56:05	Running 875152 (18)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 18:01:49	Running 875154 (19)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 18:07:25	Running 875156 (20)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 18:13:04	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/16/2010 18:18:09	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 18:23:12	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 18:28:31	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 18:33:50	Running 875158 (21)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 18:39:30	Running lcsw35646 (22)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 18:44:34	Running mbw35646 (23)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 18:49:54	Running 875176 (24)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 18:55:20	Running l875176 (25)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 19:00:47	Running msw875176 (26)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 19:06:06	Running msdw875176 (27)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 19:11:20	Running pdsw875176 (28)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 19:16:35	Running 875177 (29)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 19:21:39	Running 875178 (30)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 19:27:04	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 19:32:12	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 19:37:15	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 19:42:34	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 19:47:52	Running 875179 (31)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 19:53:18	Running 875180 (32)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 19:58:44	Running 875181 (33)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 20:04:08	Running 875182 (34)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 20:09:28	Running 875183 (35)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 20:15:06	Running 875184 (36)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 20:20:44	Running 875185 (37)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 20:26:11	Running 875186 (38)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 20:31:29	Running 875187 (39)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 20:36:53	Running 875188 (40)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 20:42:11	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 20:47:20	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 20:52:23	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 20:57:42	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 21:03:01	Running 875189 (41)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 21:08:39	Running 875190 (42)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 21:14:04	Running 875191 (43)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 21:19:32	Running 875197 (44)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 21:24:59	Running 875198 (45)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 21:30:28	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 21:35:43	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 21:40:51	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 21:45:54	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 21:51:09	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/16/2010 21:56:25	Plasma off	NAH	iTEVA Control Center	
	12/16/2010 21:56:25	Plasma extinguished successfully	NAH	Analyst	
	12/16/2010 21:56:27	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	12/17/2010 06:54:36	Plasma On	NAH	iTEVA Control Center	
	12/17/2010 06:54:40	Plasma ignition successful	NAH	Analyst	
	12/17/2010 06:55:26	D33534 - Debug:Wavelength check : x = 1.710, y =1.615	NAH	Analyst	
	12/17/2010 13:17:35	Plasma extinguished successfully	NAH	Analyst	
	12/17/2010 13:17:36	Plasma off	NAH	iTEVA Control Center	
	12/19/2010 13:14:56	Plasma On	NAH	iTEVA Control Center	
	12/19/2010 13:15:01	Plasma ignition successful	NAH	Analyst	

Type	Date/Time	Message	User name	Application	Sequence Name
	12/19/2010 13:15:48	D33534 - Debug:Wavelength check : x = 1.662, y =1.695	NAH	Analyst	
	12/19/2010 13:36:35	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 13:36:35	Autosampler Run Started	NAH	Analyst	
	12/19/2010 13:37:19	D33534 - Debug:Wavelength check : x = 1.609, y =1.618	NAH	Analyst	
	12/19/2010 13:37:42	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 13:42:29	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 13:47:25	Autosampler Run Started	NAH	Analyst	
	12/19/2010 13:47:25	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 13:48:10	D33534 - Debug:Wavelength check : x = 1.634, y =1.575	NAH	Analyst	
	12/19/2010 13:48:53	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 13:54:11	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 13:59:29	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 14:04:48	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 14:10:07	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 14:15:27	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 14:20:47	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 14:26:04	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 14:31:19	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 14:36:32	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 14:41:31	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 14:46:56	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 14:52:23	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 14:58:02	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 15:03:43	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 15:09:40	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 15:14:55	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 15:20:15	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 15:25:32	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 15:30:50	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 15:36:05	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 15:41:47	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 15:47:15	Running 877718 (1)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 15:52:49	Running lcss35700 (2)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 15:58:03	Running mbs35700 (3)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 16:03:21	Running 878077 (4)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 16:08:51	Running mss878077 (5)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 16:14:17	Running msds878077 (6)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 16:19:44	Running 878551 (7)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 16:25:22	Running lcss35723 (8)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 16:30:51	Running mbs35723 (9)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 16:36:11	Running 879260 (10)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 16:42:10	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 16:47:20	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 16:52:24	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 16:57:44	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 17:03:02	Running 879269 (11)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 17:08:35	Running 879270 (12)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 17:14:14	Running 879271 (13)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 17:19:51	Running 879272 (14)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 17:25:44	Running 879273 (15)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 17:31:13	Running 879274 (16)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/19/2010 17:36:43	Running 879275 (17)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 17:42:21	Running l879275 (18)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 17:47:43	Running dup879275 (19)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 17:53:13	Running mss879275 (20)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 17:58:41	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 18:03:52	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 18:08:56	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 18:14:15	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 18:19:33	Running msds879275 (21)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 18:24:57	Running pdss879275 (22)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 18:30:18	Running 879276 (23)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 18:35:58	Running 879277 (24)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 18:41:33	Running 879278 (25)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 18:47:11	Running lcss35701 (26)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 18:52:39	Running mbs35701 (27)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 18:57:57	Running 877680 (28)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 19:03:35	Running 877681 (29)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 19:09:05	Running 877682 (30)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 19:14:43	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 19:19:52	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 19:24:56	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 19:30:15	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 19:35:33	Running 877683 (31)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 19:41:10	Running 877684 (32)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 19:46:41	Running 877685 (33)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 19:52:12	Running 877686 (34)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 19:57:47	Running 877687 (35)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 20:03:25	Running l877687 (36)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 20:08:48	Running dup877687 (37)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 20:14:19	Running mss877687 (38)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 20:19:53	Running msds877687 (39)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 20:25:23	Running pdss877687 (40)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 20:30:33	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 20:35:43	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 20:40:47	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 20:46:07	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 20:51:25	Running 877688 (41)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 20:56:55	Running 877689 (42)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 21:02:24	Running 877690 (43)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 21:07:57	Running lcsw35814 (44)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 21:13:25	Running mbw35814 (45)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 21:18:44	Running 880128 (46)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 21:24:31	Running msw880128 (47)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 21:30:09	Running 880611 (48)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 21:35:44	Running 880612 (49)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 21:41:25	Running 881681 (50)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 21:47:13	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 21:52:24	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 21:57:28	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 22:02:47	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 22:08:06	Running msw881681 (51)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/19/2010 22:13:34	Running msdw881681 (52)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 22:19:03	Running 881736 (53)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 22:24:34	Running 881737 (54)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 22:30:13	Running 881740 (55)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 22:35:54	Running 881754 (56)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 22:41:18	Running 881839 (57)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 22:47:05	Running 882207 (58)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 22:52:43	Running tclp blk 2036 1 (59)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 22:58:04	Running tclp blk 2036 2 (60)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 23:03:23	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 23:08:35	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 23:13:39	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 23:18:56	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 23:24:15	Running tclp blk 2036 2 sol1 (61)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 23:29:36	Running 879975 (62)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 23:35:18	Running msw879975 (63)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 23:40:37	Running msdw879975 (64)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 23:45:56	Running 880891 (65)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 23:51:37	Running 880892 (66)	NAH	Analyst	S_DOD Calibration 1
	12/19/2010 23:57:19	Running 880893 (67)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 00:03:00	Running 880894 (68)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 00:08:42	Running 880895 (69)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 00:14:24	Running 881671 (70)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 00:19:39	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 00:24:50	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 00:29:55	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 00:35:12	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 00:40:31	Running 881672 (71)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 00:45:48	Running 881673 (72)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 00:51:06	Running 881674 (73)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 00:56:24	Running 881675 (74)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 01:01:41	Running 881676 (75)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 01:07:15	Running 881677 (76)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 01:13:04	Running 881678 (77)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 01:18:54	Running 881679 (78)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 01:24:43	Running 881680 (79)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 01:30:33	Running msw881680 (80)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 01:36:00	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 01:41:10	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 01:46:15	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 01:51:32	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 01:56:51	Running msdw881680 (81)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 02:02:21	Running 881841 (82)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 02:08:08	Running 881842 (83)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 02:13:52	Running 881843 (84)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 02:19:39	Running 881844 (85)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 02:25:19	Running 881845 (86)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 02:31:03	Running 881846 (87)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 02:36:48	Running 881847 (88)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 02:42:33	Running 881848 (89)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 02:48:15	Running 881849 (90)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/20/2010 02:54:01	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 02:59:11	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 03:04:15	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 03:09:33	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 03:14:52	Running 881850 (91)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 03:20:29	Running 882114 (92)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 03:26:17	Running 882115 (93)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 03:32:06	Running 882116 (94)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 03:37:55	Running 882117 (95)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 03:43:44	Running 882118 (96)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 03:49:33	Running msw882118 (97)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 03:55:00	Running msdw882118 (98)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 04:00:29	Running 878506 (99)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 04:06:06	Running 879700 (100)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 04:11:47	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 04:17:07	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 04:22:13	Running cal blk (29)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 04:27:24	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 04:32:45	Running 880237 (101)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 04:38:34	Running 881478 (102)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 04:44:15	Running 881479 (103)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 04:49:56	Running 881480 (104)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 04:55:35	Running 881481 (105)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 05:01:20	Running 881482 (106)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 05:07:06	Running 881483 (107)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 05:12:44	Running mbw881591 (108)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 05:18:06	Running 882483 (109)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 05:23:37	Running 882485 (110)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 05:29:12	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 05:34:32	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 05:39:39	Running cal blk (29)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 05:44:51	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 05:50:12	Running 882487 (111)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 05:55:48	Running 882488 (112)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 06:01:27	Running 882490 (113)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 06:07:02	Running 882491 (114)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 06:12:51	Running 882492 (115)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 06:18:38	Running 882493 (116)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 06:24:11	Running 882494 (117)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 06:29:57	Running 882495 (118)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 06:35:17	Running 882628 (119)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 06:40:37	Running 882629 (120)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 06:46:15	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 06:51:35	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 06:55:15	Closing will close the method and all associated samples.	NAH	Analyst	
	12/20/2010 06:56:41	Running cal blk (29)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 07:01:52	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 07:07:13	Running 882630 (121)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 07:12:52	Running 882631 (122)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 07:18:31	Running msw882631 (123)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 07:23:53	Running msdw882631 (124)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/20/2010 07:29:08	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 07:34:24	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 07:39:44	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 07:44:48	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 07:50:05	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 07:55:22	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 09:38:47	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 09:38:47	Autosampler Run Started	NAH	Analyst	
	12/20/2010 09:39:33	D33534 - Debug:Wavelength check : x = 1.710, y =1.501	NAH	Analyst	
	12/20/2010 09:40:53	E33450 - Cetac Autosampler error - No response to command	NAH	Analyst	
	12/20/2010 09:42:02	E33450 - Cetac Autosampler error - No response to command	NAH	Analyst	
	12/20/2010 09:42:12	Plasma off	NAH	iTEVA Control Center	
	12/20/2010 09:42:12	Plasma extinguished successfully	NAH	Analyst	
	12/20/2010 09:43:13	E33450 - Cetac Autosampler error - No response to command	NAH	Analyst	
	12/20/2010 09:43:19	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 09:52:22	iTEVA loaded	NAH	iTEVA Control Center	
	12/20/2010 09:52:40	Connected to instrument 20070314	NAH	iTEVA Control Center	
	12/20/2010 09:53:41	Plasma On	NAH	iTEVA Control Center	
	12/20/2010 09:53:46	Plasma ignition successful	NAH	iTEVA Control Center	
	12/20/2010 09:54:33	D33534 - Debug:Wavelength check : x = 1.747, y =1.500	NAH	iTEVA Control Center	
	12/20/2010 10:57:21	Autosampler Run Started	NAH	Analyst	
	12/20/2010 10:57:21	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 10:58:06	D33534 - Debug:Wavelength check : x = 1.710, y =1.562	NAH	Analyst	
	12/20/2010 10:58:35	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 11:04:03	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 11:09:35	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 11:14:54	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 11:20:15	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 11:25:35	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 11:30:55	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 11:36:14	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 11:40:01	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 11:42:53	Autosampler Run Started	NAH	Analyst	
	12/20/2010 11:42:53	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 11:43:38	D33534 - Debug:Wavelength check : x = 1.710, y =1.489	NAH	Analyst	
	12/20/2010 11:44:01	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 11:49:17	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 11:54:35	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 11:57:31	Closing will close the method and all associated samples.	NAH	Analyst	
	12/20/2010 11:58:24	Closing will close the method and all associated samples.	NAH	Analyst	
	12/20/2010 11:58:30	Closing will close the method and all associated samples.	NAH	Analyst	
	12/20/2010 11:59:59	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 12:05:18	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 12:10:38	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 12:15:57	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 12:21:15	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 12:26:30	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 12:31:44	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 12:36:43	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 12:42:08	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 12:47:25	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/20/2010 12:53:03	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 12:58:45	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 13:03:09	Closing will close the method and all associated samples.	NAH	Analyst	
	12/20/2010 13:04:48	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 13:10:03	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 13:15:22	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 13:20:39	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 13:25:57	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 13:31:12	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 13:36:55	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 13:40:45	Closing will close the method and all associated samples.	NAH	Analyst	
	12/20/2010 13:42:24	Running 875179 (1)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 13:47:41	Running 875180 (2)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 13:52:59	Running 875181 (3)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 13:58:16	Running 875182 (4)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 14:03:46	Running 875183 (5)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 14:09:15	Running 875184 (6)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 14:14:42	Running 875185 (7)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 14:20:01	Running 875186 (8)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 14:25:28	Running 875187 (9)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 14:30:48	Running 875188 (10)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 14:36:17	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 14:41:15	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 14:46:19	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 14:51:37	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 14:56:57	Running 875189 (11)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 15:02:23	Running 875190 (12)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 15:07:43	Running 875191 (13)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 15:13:10	Running 875197 (14)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 15:18:39	Running 875198 (15)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 15:24:06	Running 875178 (16)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 15:29:24	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 15:34:39	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 15:39:42	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 15:44:47	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 15:50:02	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/20/2010 15:51:22	Closing will close the method and all associated samples.	NAH	Analyst	
	12/20/2010 16:42:59	iTEVA loaded	NAH	iTEVA Control Center	
	12/20/2010 16:43:17	Connected to instrument 20070314	NAH	iTEVA Control Center	
	12/20/2010 16:43:54	Plasma On	NAH	iTEVA Control Center	
	12/20/2010 16:48:02	Plasma off	NAH	iTEVA Control Center	
	12/20/2010 16:48:03	Plasma extinguished successfully	NAH	Analyst	
	12/21/2010 06:52:37	Plasma On	NAH	iTEVA Control Center	
	12/21/2010 06:52:40	Plasma ignition successful	NAH	Analyst	
	12/21/2010 06:53:19	D33534 - Debug:Wavelength check : x = 1.697, y =1.616	NAH	Analyst	
	12/21/2010 09:36:24	iTEVA loaded	NAH	iTEVA Control Center	
	12/21/2010 09:36:42	Connected to instrument 20070314	NAH	iTEVA Control Center	
	12/21/2010 09:37:18	Plasma On	NAH	iTEVA Control Center	
	12/21/2010 09:55:23	Autosampler Run Started	NAH	Analyst	
	12/21/2010 09:55:23	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 09:56:00	D33534 - Debug:Wavelength check : x = 1.619, y =1.495	NAH	Analyst	

Type	Date/Time	Message	User name	Application	Sequence Name
	12/21/2010 09:56:23	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 10:01:53	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 10:07:24	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 10:12:44	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 10:18:03	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 10:23:23	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 10:28:43	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 10:34:00	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 10:39:15	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 10:44:29	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 10:46:11	Closing will close the method and all associated samples.	NAH	Analyst	
	12/21/2010 10:46:13	Closing will close the method and all associated samples.	NAH	Analyst	
	12/21/2010 10:49:27	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 10:54:53	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 11:00:18	Running CalibStd=100000 (13)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 11:05:57	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 11:11:39	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 11:17:43	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 11:22:58	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 11:28:18	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 11:33:36	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 11:38:54	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 11:44:10	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 11:49:52	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 11:55:20	Running lcss35700 (1)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 12:00:44	Running mbs35700 (2)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 12:06:02	Running 878077 (3)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 12:07:44	Closing will close the method and all associated samples.	NAH	Analyst	
	12/21/2010 12:11:31	Running mss878077 (4)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 12:16:47	Running msds878077 (5)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 12:22:04	Running 878551 (6)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 12:27:42	Running lcss35701 (7)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 12:33:10	Running 877688 (8)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 12:38:48	Running 877689 (9)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 12:39:06	Closing will close the method and all associated samples.	NAH	Analyst	
	12/21/2010 12:44:26	Running 877690 (10)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 12:50:03	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 12:55:15	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 13:00:19	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 13:05:38	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 13:10:59	Running lcsw35735 (11)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 13:16:30	Running mbw35735 (12)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 13:21:50	Running 879705 (13)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 13:27:24	Running l879705 (14)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 13:32:55	Running dup879705 (15)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 13:38:27	Running msw879705 (16)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 13:40:36	Closing will close the method and all associated samples.	NAH	Analyst	
	12/21/2010 13:40:42	Closing will close the method and all associated samples.	NAH	Analyst	
	12/21/2010 13:42:24	Closing will close the method and all associated samples.	NAH	Analyst	
	12/21/2010 13:43:49	Running msdw879705 (17)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 13:49:12	Running pdsw879705 (18)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/21/2010 13:54:24	Running 879706 (19)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 13:59:59	Running 879708 (20)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 14:05:35	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 14:10:46	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 14:13:49	Closing will close the method and all associated samples.	NAH	Analyst	
	12/21/2010 14:15:49	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 14:21:08	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 14:26:29	Running 879709 (21)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 14:32:07	Running 879710 (22)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 14:37:51	Running 879711 (23)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 14:39:47	Closing will close the method and all associated samples.	NAH	Analyst	
	12/21/2010 14:43:31	Running lcsw35798 (24)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 14:49:00	Running mbw35798 (25)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 14:50:04	Closing will close the method and all associated samples.	NAH	Analyst	
	12/21/2010 14:54:20	Running 880540 (26)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 14:59:58	Running 880547 (27)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 15:05:36	Running 880559 (28)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 15:11:14	Running 880560 (29)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 15:16:52	Running 880561 (30)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 15:22:30	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 15:27:41	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 15:32:45	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 15:38:04	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 15:43:24	Running 880563 (31)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 15:49:03	Running 880564 (32)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 15:54:42	Running 880565 (33)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 16:00:25	Running 880600 (34)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 16:06:09	Running l880600 (35)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 16:11:41	Running dup880600 (36)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 16:17:24	Running msw880600 (37)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 16:22:51	Running msdw880600 (38)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 16:28:19	Running pdsw880600 (39)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 16:33:47	Running 881054 (40)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 16:39:24	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 16:44:35	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 16:49:40	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 16:54:59	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 17:00:19	Running 881055 (41)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 17:05:55	Running 881057 (42)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 17:11:31	Running 881058 (43)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 17:17:15	Running lcsw35797 (44)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 17:22:44	Running mbw35797 (45)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 17:28:04	Running 880553 (46)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 17:33:43	Running l880553 (47)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 17:39:15	Running dup880553 (48)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 17:44:54	Running msw880553 (49)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 17:50:23	Running msdw880553 (50)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 17:55:50	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 18:01:02	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 18:06:06	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 18:11:26	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/21/2010 18:16:46	Running pdsw880553 (51)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 18:22:00	Running lcss35723 (52)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 18:27:29	Running 879260 (53)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 18:33:06	Running lcsw35814 (54)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 18:38:35	Running mbw35814 (55)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 18:43:54	Running 880128 (56)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 18:49:40	Running msw880128 (57)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 18:55:05	Running pdsw880128 (58)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 19:00:42	Running pdsw881681 (59)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 19:06:06	Running 881754 (60)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 19:11:30	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 19:16:41	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 19:21:45	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 19:27:05	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 19:32:25	Running 881839 (61)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 19:38:10	Running 880611 (62)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 19:43:44	Running 880612 (63)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 19:49:27	Running 878506 (64)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 19:55:03	Running 879700 (65)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 20:00:43	Running msw882631 (66)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 20:05:59	Running msdw882631 (67)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 20:11:14	Running lcsw35700 (68)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 20:16:41	Running mbw35700 (69)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 20:22:00	Running 877664 (70)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 20:27:28	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 20:32:39	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 20:37:44	Running cal blk (24)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 20:43:03	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 20:48:23	Running l877664 (71)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 20:53:47	Running dup877664 (72)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 20:59:15	Running mss877664 (73)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 21:04:39	Running msds877664 (74)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 21:10:03	Running pdss877664 (75)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 21:15:23	Running 877666 (76)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 21:20:51	Running MRL (23)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 21:26:05	Running ccv1 (25)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 21:31:17	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 21:36:21	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 21:41:38	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	12/21/2010 21:46:56	Plasma extinguished successfully	NAH	Analyst	
	12/21/2010 21:46:56	Plasma off	NAH	iTEVA Control Center	
	12/21/2010 21:46:58	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	12/22/2010 08:43:13	Plasma On	NAH	iTEVA Control Center	
	12/22/2010 08:43:17	Plasma ignition successful	NAH	Analyst	
	12/22/2010 08:43:56	D33534 - Debug:Wavelength check : x = 1.549, y =1.695	NAH	Analyst	
	12/22/2010 09:42:26	Autosampler Run Started	NAH	Analyst	
	12/22/2010 09:42:26	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	12/22/2010 09:43:03	D33534 - Debug:Wavelength check : x = 1.416, y =1.550	NAH	Analyst	
	12/22/2010 09:43:25	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	12/22/2010 09:48:43	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	12/22/2010 09:54:02	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	12/14/2010 13:48:50	Plasma extinguished successfully	NAH	Analyst	
	12/16/2010 08:45:11	iTEVA loaded	NAH	iTEVA Control Center	
	12/16/2010 08:45:29	Connected to instrument 20082101	NAH	iTEVA Control Center	
	12/16/2010 09:08:13	Plasma On	NAH	iTEVA Control Center	
	12/16/2010 09:08:17	Plasma ignition successful	NAH	iTEVA Control Center	
	12/16/2010 09:08:56	D33534 - Debug:Wavelength check : x = -1.794, y =0.857	NAH	iTEVA Control Center	
	12/16/2010 14:23:54	Autosampler Run Started	NAH	Analyst	
	12/16/2010 14:23:54	Sequence Started	NAH	Analyst	S_Sodium and Pota
	12/16/2010 14:24:44	D33534 - Debug:Wavelength check : x = -1.793, y =0.754	NAH	Analyst	
	12/16/2010 14:25:26	Running Blank (1)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 14:28:17	Running CalibStd-0.5 (2)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 14:31:00	Running CalibStd-1.0 (3)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 14:33:27	Running CalibStd-5.0 (4)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 14:35:54	Running CalibStd-10.0 (5)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 14:38:21	Running CalibStd-50 (6)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 14:40:49	Running CalibStd-100 (7)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 14:43:16	Running CalibStd-200 (8)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 14:45:41	Running CalibStd-500 (9)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 14:48:28	Running icv (10)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 14:50:55	Running icb (11)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 14:53:23	Running mrl (16)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 14:55:49	Running icsa (12)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 14:58:31	Running icsab (13)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:01:11	Running loq 3010 x2 (1)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:03:39	Running loq 3010 x4 (2)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:06:06	Running loq 3050 x2 (3)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:08:32	Running loq 3050 x4 (4)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:10:58	Running lcss35723 (5)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:13:24	Running pdsw878489 (6)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:15:54	Running lcss35798 (7)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:18:20	Running mbw35798 (8)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:20:48	Running 880540 (9)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:23:14	Running 880547 (10)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:25:40	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:28:07	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:30:35	Running 880559 (11)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:33:01	Running 880560 (12)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:35:27	Running 880561 (13)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:37:52	Running 880563 (14)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:40:18	Running 880564 (15)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:42:43	Running 880565 (16)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:45:08	Running 880600 (17)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:47:33	Running l880600 (18)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:49:59	Running dup880600 (19)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:52:24	Running msw880600 (20)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:54:59	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:57:26	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 15:59:53	Running msdw880600 (21)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 16:02:28	Running pdsw880600 (22)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 16:04:54	Running 881054 (23)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 16:07:20	Running 881055 (24)	NAH	Analyst	S_Sodium and Pota

Type	Date/Time	Message	User name	Application	Sequence Name
	12/16/2010 16:09:46	Running 881057 (25)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 16:12:12	Running 881058 (26)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 16:14:37	Running lcsw35797 (27)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 16:17:02	Running mbw35797 (28)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 16:19:30	Running 880553 (29)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 16:21:55	Running l880553 (30)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 16:24:21	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 16:26:48	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 16:29:15	Running dup880553 (31)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 16:31:41	Running msw880553 (32)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 16:34:14	Running msdw880553 (33)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 16:36:49	Running pdsw880553 (34)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 16:39:14	Running lcss35793 (35)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 16:41:43	Running mbs35793 (36)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 16:44:13	Running 877664 (37)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 16:46:45	Running l877664 (38)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 16:49:09	Running dup877664 (39)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 16:51:42	Running mss877664 (40)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 16:54:14	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 16:56:41	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 16:59:09	Running msds877664 (41)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 17:01:41	Running pdss877664 (42)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 17:04:13	Running 877666 (43)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 17:06:45	Running lcss35795 (44)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 17:09:10	Running mbs35795 (45)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 17:11:39	Running 879700 (46)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 17:14:05	Running msw879700 (47)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 17:16:31	Running msdw879700 (48)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 17:18:57	Running lcss35792 (49)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 17:21:22	Running mbs35792 (50)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 17:23:52	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 17:26:18	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 17:28:46	Running 879718 (51)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 17:31:12	Running mss879718 (52)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 17:33:46	Running msds879718 (53)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 17:36:20	Running 881086 (54)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 17:38:44	Running 881087 (55)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 17:41:17	Running 881088 (56)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 17:43:51	Running 881089 (57)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 17:46:15	Running 881090 (58)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 17:48:40	Running 881091 (59)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 17:51:13	Running ccv (14)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 17:53:40	Running ccb (15)	NAH	Analyst	S_Sodium and Pota
	12/16/2010 17:56:04	Sequence Started	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v9
	12/16/2010 17:56:51	D33534 - Debug:Wavelength check : x = -1.865, y =0.761	NAH	Analyst	
	12/16/2010 17:57:15	Running Blank (17)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v9
	12/16/2010 18:02:02	Running 1 (18)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v9
	12/16/2010 18:06:50	Running 10 (19)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v9
	12/16/2010 18:11:39	Running 100 (20)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v9
	12/16/2010 18:16:27	Running 1000 (21)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v9
	12/16/2010 18:21:10	Running 10000 (22)	NAH	Analyst	S_Ti,Sn,W,Sr,Li 3(v9

M9989 12/20/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
M9990 12/20/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
M9991 12/20/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9990) into 100ml = 3.0ug/L Hg
M9992 12/20/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
M9993 12/20/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9990) into 100ml = 0.2ug/L Hg
M9994 12/20/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 514) with 1part HNO3 (AB: 515)

M9995 12/20/10 AMA — Potassium Permanganate soln: 50g Potassium Permanganate (#M8949) dissolved into 1000mL D.I. H_2O. Exp. 06/20/11

M9996 12/20/10 AMA — NaCl Hydroxylamine Sulfate Reagent: Dissolve 40g NaCl (M9574(A)) and 40g Hydroxylamine sulfate (M9931) in 500mL Milli-Q H_2O. Exp. 06/20/11

M9997 12/20/10 AMA — LOD/LOQ Spiking Soln: 1.0mL of 1000mg/L Hg (#M9954) into 100mL = 10mg/L Hg
(0.2% HNO_3, HCl) 1.0mL of 10mg/L Hg into 100mL = 100µg/L Hg
1.0mL of 100µg/L Hg into 100mL = 1.0µg/L Hg

#M9982 12/15/10 TCLP Extraction Fluid #1: Fill a 20L Carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB·516) and 128.6mL NaOH 10N (#M9744). Dilute to 20L w/ D.I. H_2O & mix. pH = 4.93 ± 0.05 GAE Exp. 12-15-11

#M9989 AM

#M9990 1 AMA

#M9991 1 AMA

#M9992 AMA

#M9993 1 AMA

*M9994 1: AMA

#M9995 AMA

#M9996 1 AMA

#M9997 1 AMA

#M9983. 12-16-10 Working stds Cat 2 INTO 50L Liter Vol flasks pipet
5% HNO3 from #M9816
5% HCl of #M9933
1ug/L → .01mls #M9816, .001mls #M9933
10ug/L → .1mls #M9816, .01mls #M9933
100ug/L → 1.0mls #M9816, .1mls #M9933
1000ug/L → 10mls #M9816, 1.0mls #M9933
10,000ug/L → 100mls #9816, 10mls #M9933
Bring up to mark w/ DI H_2O ex 8/11

#M9984 ICV Cat Std 2 into 1 Liter Vol flasks pipet
5% HCl 12-16-10 0.5mls of #M9929, #M9924, #M9926, #M9923, #M9925
5% HNO3 Bring up to mark with DI H_2O. ex NOV 2011

#M9985 LOD 3010
12-16-10
5% HCl, HNO3

3010 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
li	0.5	m9929	1000	0.025
sn	0.9	m9925	1000	0.045
sr	1	m9926	1000	0.05
ti	0.5	m9923	1000	0.025
w	4	m9924	1000	0.2

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9986 LOQ 3010
12-16-10
5% HNO3, HCl

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
li	4.2	m9929	1000	0.21
sn	6.2	m9925	1000	0.31
sr	3	m9926	1000	0.15
ti	1.8	m9923	1000	0.09
w	28	m9924	1000	1.4

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9987 LOD 3050
12-16-10
5% HCl, HNO3

3050 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
li	1	m9929	1000	0.05
sn	1	m9925	1000	0.05
sr	0.24	m9926	1000	0.012
ti	0.8	m9923	1000	0.04
w	4	m9924	1000	0.2

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9988 LOQ 3050
12-16-10
5% HCl, HNO3

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
li	4	m9929	1000	0.2
sn	3.2	m9925	1000	0.16

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a

#M9979 GdE
12/08/10

GFAA Soil LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOD (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.12	M9608	1000	0.006
Pb	0.8	M9521	**10000**	0.004
Sb	1.2	M9610	1000	0.06
As	3.2	M9609	1000	0.16
Se	3.2	M9611	1000	0.16
Tl	1	M9922	1000	0.05

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES: 04-30-11

#M9980 GdE
12/08/10

GFAA Soil LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.42	M9608	1000	0.021
Pb	1.3	M9521	**10000**	0.0065
Sb	1.9	M9610	1000	0.095
As	5.4	M9609	1000	0.27
Se	5.2	M9611	1000	0.26
Tl	1.6	M9922	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES: 04-30-11

#M9981 TCLP Extraction Fluid #1: Fill a 20L carboy w 11.9L D.I. H2O. Add 11.4ml Glacial Acetic Acid (AB-5146) and 128.6ml 10N NaOH (#M9636) Dilute to 20L w DI. H2O and mix pH = 4.93 ± 0.05
12/09/10 15:15
Exp: 12/09/11

#M9977 GvE 12/08/10

GFAA Water LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.04	M9608	1000	0.002
Pb	0.8	M9521	**10000**	0.004
Sb	1.8	M9610	1000	0.09
As	1.2	M9609	1000	0.06
Se	3.2	M9611	1000	0.16
Tl	0.8	M9922	1000	0.04

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES: 04-30-11

#M9978 GvE 12/08/10

GFAA Water LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

LOQ 12/09/10 GvE

Analyte	~~MDL~~ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.26	M9608	1000	0.013
Pb	1.3	M9521	**10000**	0.0065
Sb	3.1	M9610	1000	0.155
As	1.8	M9609	1000	0.09
Se	5.2	M9611	1000	0.26
Tl	1.6	M9922	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES: 04-30-11

M9975 LOD 3050
12-8-10

3050 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.68	M9608	1000	0.034
Al	1.6	M9866	**10000**	0.008
Ba	0.32	M9518	1000	0.016
Be	0.16	M9930	1000	0.008
Cd	0.24	M9620	1000	0.012
Co	0.6	M9928	1000	0.03
Cr	0.76	M9519	**10000**	0.0038
Cu	2.4	M9522	**10000**	0.012
Mg	4.8	M9719	**10000**	0.024
Mn	0.8	M9520	**10000**	0.004
Mo	0.56	M9931	1000	0.028
Ni	0.72	M9927	1000	0.036
Pb	1.6	M9521	**10000**	0.008
Sb	3.2	M9610	1000	0.16
V	0.44	M9612	1000	0.022
Zn	1.6	M9718	**10000**	0.008
K	440	M9863	**10000**	2.2
Na	160	M9932	**10000**	0.8
As	5.2	M9609	1000	0.26
Ca	6	M9865	**10000**	0.03
Fe	12	M9864	**10000**	0.06
Se	2.8	M9611	1000	0.14
Tl	1.6	M9922	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

M9976 LOQ 3050
12-8-10

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	2.24	M9608	1000	0.112
Al	4.8	M9866	**10000**	0.024
Ba	1.08	M9518	1000	0.054
Be	0.48	M9930	1000	0.024
Cd	0.84	M9620	1000	0.042
Co	1.96	M9928	1000	0.098
Cr	2.52	M9519	**10000**	0.0126
Cu	8	M9522	**10000**	0.04
Mg	16	M9719	**10000**	0.08
Mn	2	M9520	**10000**	0.01
Mo	1.92	M9931	1000	0.096
Ni	2.44	M9927	1000	0.122
Pb	5.6	M9521	**10000**	0.028
Sb	10.8	M9610	1000	0.54
V	1.36	M9612	1000	0.068
Zn	4.8	M9718	**10000**	0.024
K	1440	M9863	**10000**	7.2
Na	520	M9932	**10000**	2.6
As	18	M9609	1000	0.9
Ca	20	M9865	**10000**	0.1
Fe	40	M9864	**10000**	0.2
Se	16.8	M9611	1000	0.84
Tl	5.6	M9922	1000	0.28

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

184
#m9971
12/8/10 LOD3050 B,Si

3050 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	18	m9915	1000	0.9
Si	16	m9628	1000	0.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES

#M9972 LOQ 3050 B,Si
12/8/10

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	26	m9915	1000	1.3
Si	56	m9628	1000	2.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES

#M9973
12-8-10
LOD 3010

3010 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	1	M9608	1000	0.05
Al	4	M9866	10000	0.02
Ba	0.26	M9518	1000	0.013
Be	0.13	M9930	1000	0.0065
Cd	0.11	M9620	1000	0.0055
Co	1.3	M9928	1000	0.065
Cr	0.7	M9519	10000	0.0035
Cu	1.2	M9522	10000	0.006
Mg	3	M9719	10000	0.015
Mn	0.7	M9520	10000	0.0035
Mo	0.4	M9931	1000	0.02
Ni	0.6	M9927	1000	0.03
Pb	1.5	M9521	10000	0.0075
Sb	4	M9610	1000	0.2
V	0.5	M9612	1000	0.025
Zn	1.8	M9718	10000	0.009
K	300	M9863	10000	1.5
Na	100	M9932	10000	0.5
As	4	M9609	1000	0.2
Ca	15	M9865	10000	0.075
Fe	9	M9864	10000	0.045
Se	2.3	M9611	1000	0.115
Tl	1.6	M9922	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9974
12-8-10
LOQ 3010

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	2	M9608	1000	0.1
Al	26	M9866	10000	0.13
Ba	1.8	M9518	1000	0.09
Be	0.86	M9930	1000	0.043
Cd	0.4	M9620	1000	0.02
Co	4.3	M9928	1000	0.215
Cr	2	M9519	10000	0.01
Cu	3.8	M9522	10000	0.019
Mg	11	M9719	10000	0.055
Mn	2	M9520	10000	0.01
Mo	1.2	M9931	1000	0.06
Ni	4.2	M9927	1000	0.21
Pb	4.9	M9521	10000	0.0245
Sb	16	M9610	1000	0.8
V	1.7	M9612	1000	0.085
Zn	5.9	M9718	10000	0.0295
K	900	M9863	10000	4.5
Na	340	M9932	10000	1.7
As	13	M9609	1000	0.65
Ca	100	M9865	10000	0.5
Fe	29	M9864	10000	0.145
Se	14	M9611	1000	0.7
Tl	5	M9922	1000	0.25

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9962 12/07/10 AmA — Hg Working Stds: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9963 12/07/10 AmA — Hg Alt Source Working Std: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9964 12/07/10 AmA — Hg ICV / LCSW (0.2% HNO3, HCl)
- 3.0ml of 100ug/L Hg (#M9963) into 100ml = 3.0ug/L Hg

#M9965 12/07/10 AmA — Hg CCV (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

H2O, fume

#M9966 12/07/10 AmA — Hg MRL: (0.2% HNO3, HCl)
- 0.2ml of 100ug/L Hg (#M 9963) into 100ml = 0.2ug/L Hg

14ml

#M9967 12/07/10 AmA — Hg Aqua Regia Reagent:
- "Carefully" in hood, mix 3 parts HCl (AB: 514) with 1part HNO3 (AB: 515)

1

2. H2O

#M9968 12/08/10 GG — Stannous Chloride Reagent: Into a 1000 mL vol. flask, dissolve 100g Stannous Chloride (#M9785F) in 70 mL HCL (AB-514). Bring up to volume with D.I. H2O. Exp. 12-08-11

14ml

L

O

#M9969 12-8-10 3010 LOD B, Si

3010 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	10	m9915	1000	0.5
Si	36	m9628	1000	18

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard. EXPIRES

cial

#M9970 12-8-10 3010 LOQ B, Si

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	18	m9915	1000	0.9
Si	118	m9628	1000	5.9

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard. EXPIRES

#M9954 12/02/10 Hg 1000 mg/L Spex CertiPrep Lot No. CL5-49Hg
GVE Expires 11-30-11

#M9955 12/02/10 Interferents A Spex CertiPrep Lot No. 42-6AS
GVE Expires: 11-30-11

#M9956 12/02/10 Si 1000 mg/L Spex CertiPrep Lot No. 15-172S1
GVE Expires: 11-30-11

#M9957 12/02/10 Magnesium Nitrate Matrix Modifier Solution (20,000 mg/L Mg)
GVE Spex CertiPrep Lot No. I-169MG2, Expires 11-30-11

#M9958 12/02/10 1N HCl for TCLP: Into a 1L vol. flask, partially filled with Milli-Q H_2O, add 83mL of conc. HCl (AB.) and bring up to volume with milli-Q H_2O.
GVE
Exp: 12/02/11

#M9959 12/02/10 TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB. 468) and 128.6mL 10N NaOH (#M96316) Dilute to 20L w/ D.I. H_2O and mix. pH = 4.93 ± 0.05
GVE
Exp: 12/02/11

#M9960 12/02/10 TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB. 516) and 128.6mL 10N NaOH (#M96316) Dilute to 20L w/ D.I. H_2O and mix pH = 4.93 ± 0.05
GVE
Exp: 12/02/11

#M9961 12/03/10 TCLP Extraction Fluid #2: ~~Fill~~ 12/03/10 GVE Into a 20L carboy, pipet 114mL Glacial Acetic Acid (~~#M~~ 12/03/10 GVE AB·516). Bring up to 20L with D.I. H_2O. pH = 2.88 ± 0.05
GVE Exp. 12-03-11

#M9943 11/29/10 TCLP Extraction Fluid #2: Into a 20L Carboy, pipet 114mL of Glacial Acetic Acid (AB·499). Bring up to 20L with D.I. H_2O. pH = 2.88 ± 0.05
Exp. 11-29-11

#M9944 11/29/10 Potassium Permanganate Sol'n: 50g Potassium Permanganate (#M8969) dissolved into 1000mL D.I. H_2O.
GJE Exp. 05/29/11

#M9945 11/29/10 GJE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9946 11/29/10 GJE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9947 11/29/10 GJE	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9946) into 100ml = 3.0ug/L Hg
#M9948 11/29/10 GJE	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9949 11/29/10 GJE	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9946) into 100ml = 0.2ug/L Hg
#M9950 GJE 11/30/10 11/29/10 GJE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 514) with 1part HNO3 (AB: 515)

#M9951 Tclp Extraction fluid #1 - Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB·499) and 128.6mL 10N NaOH (#M9744). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05.

#M9952 Tclp Extraction fluid #2 - Into a 20L carboy, pipet 114mL of Glacial Acetic Acid (AB·499). Bring up to 20L with D.I. H_2O. pH = 2.88 ± 0.05.

#M9953 TCLP Extraction Fluid #2: Into a 20L Carboy, pipet 114mL Glacial Acetic Acid (AB·499). Bring up to 20L with D.I. H_2O. pH = 2.88 ± 0.05
12/01/10 GJE Exp. 12/01/11

#M9930 11/23/10 Be 1000 mg/L Spex CertiPrep Lot No. 15-127BE Exp. 11-15-11
GvE

#M9931 11/23/10 Mo 1000 mg/L Spex CertiPrep Lot No. 15-110MO Exp. 11-15-11
GvE

#M9932 11/23/10 Na 10,000 mg/L Spex CertiPrep Lot No. AE12-119NA Exp. 11-15-11
GvE

#M9933 11/23/10 W 1000 µg/mL SCP Science Lot No. SC0301406 Exp. 08/2012
GvE

#M9934 11/28/10 Spike Sample Standard 1 Lot No. 42-80As Exp. 11-15-11
GvE

#M9935 11/23/10 AmA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9936 11/23/10 AmA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9937 11/23/10 AmA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9936) into 100ml = 3.0ug/L Hg
#M9938 11/23/10 AmA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9939 11/23/10 AmA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9936) into 100ml = 0.2ug/L Hg
#M9940 11/23/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 514) with 1part HNO3 (AB: 515)

#M9941 11/23/10 AmA Nacl Hydroxylamine Sulfate Reagent: Dissolve 60g Nacl (#M9574(1)) and 60g Hydroxylamine Sulfate (#M9831) in 500mL Milli-Q H_2O. Exp. 05/23/11

#9942 11/24/10 GvE Stannous Chloride Reagent: Into a 1000mL vol. flask, dissolve 100g Stannous Chloride (#M9785b) in 70mL HCL (AB.514). Bring up to volume with DI H_2O. Exp. 11-24-11

#M9943

#M9944 Gv

#M9945 11 GvE

#M9946 GvE

#M9947 GvE

#M9948 11 GvE

#M9949 11 GvE

#M9950 GvE 11/23/10 GvE

#M9951 Tc

#M9952 TCl

#M9953 TCl 01/01/10 GvE

#M9916 11/16/10 AmA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9917 11/16/10 AmA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9918 11/16/10 AmA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9917) into 100ml = 3.0ug/L Hg
#M9919 11/16/10 AmA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9920 11/16/10 AmA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9917) into 100ml = 0.2ug/L Hg
#M9921 11/16/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO3 (AB: 511)

#M9922 11/23/10 Tl 1000 mg/L Spex Certiprep Lot No. 16-113TL Exp. 11-15-11
GvE

Stannous
38).
11-10-11

#M9923 11/23/10 Ti 1000 mg/L Spex CertiPrep Lot No. 16-128TI Exp. 11-15-11
GvE

2 (200 NTU)

#M9924 11/23/10 GvE 11-23-10 W 1000 mg/L Spex CertiPrep Lot No. 16-117W Exp. 11-15-11
GvE

NTU

NTU

#M9925 11/23/10 Sn 1000 mg/L Spex CertiPrep Lot No. CL5-45SN Exp. 11-15-11
GvE

#M9926 11/23/10 Sr 1000 mg/L Spex CertiPrep Lot No. 16-71SR Exp. 11-15-11
GvE

#M9927 11/23/10 Ni 1000 mg/L Spex CertiPrep Lot No. 15-121NI Exp. 11-15-11
GvE

#M9928 11/23/10 Co 1000 mg/L Spex CertiPrep Lot No. CL5-52CO Exp. 11-15-11
GvE

#M9929 11/23/10 Li 1000 mg/L Spex CertiPrep Lot No. 16-61LI Exp. 11-15-11
GvE

#M9906 11/09/10 AMA — Potassium Permanganate Sol'n: 50g Potassium Permanganate (#M8969) dissolved into 1000mL D.I. H_2O. Exp. 05/09/11

M9907 11/09/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
M9908 11/09/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
M9909 11/09/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9908) into 100ml = 3.0ug/L Hg
M9910 11/09/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
M9911 11/09/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9908) into 100ml = 0.2ug/L Hg
M9912 11/09/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO3 (AB: 511)

#M9913 11/10/10 GJE — Stannous Chloride Reagent: Into a 1000 mL vol. flask, dissolve 100g Stannous Chloride (#M97856) in 70mL HCl (AB-508). Bring up to volume with D.I. H_2O. Exp. 11-10-11

#M9914 11/12/10 GJE — Turbidity Working Stds: Into 20 mLs pipet from #M8730 (200 NTU)
Gel Ex Stds:
4.95 — 2.0mL into 18mL D.I H_2O = 20 NTU
58.3 — 10mL into 10mL D.I. H_2O = 100 NTU
539 — 20mL into 0mL D.I H_2O = 200 NTU
(Exp. 12/10)

#M9915 11/12/10 GJE — Silicon Standard 1000-ppm Fisher Chemical Lot No. 102251
Expires 04/12

#M9916 11/16/10 AMA — Hg Wo (0.2% H

#M9917 11/16/10 AMA — Hg Alt S (0.2% H

#M9918 11/16/10 AMA — Hg ICV (0.2% H

#M9919 11/16/10 AMA — Hg CCV (0.2% H

#M9920 11/16/10 AMA — Hg MRL (0.2% H

#M9921 11/16/10 AMA — Hg Aqu

#M9922 11/23/10 GJE — Tl

#M9923 11/23/10 GJE — Ti

#M9924 11/23/10 GJE — W (GJE 11-23-10)

#M9925 11/23/10 GJE — Sn

#M9926 11/23/10 GJE — Sr

#M9927 11/23/10 GJE — Ni

#M9928 11/23/10 — Co

#M9896 11/02/10 AmA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9897 11/02/10 AmA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9898 11/02/10 AmA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9897) into 100ml = 3.0ug/L Hg
#M9899 11/02/10 AmA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9900 11/02/10 AmA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9897) into 100ml = 0.2ug/L Hg
#M9901 11/02/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO3 (AB: 511)

#M9902 11/07/10 CEL TCLP Extraction Fluid#1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114ml Glacial Acetic Acid (AB: 968) and 128.6ml 10N NaOH (#M9636) Dilute to 20L w/ D.I. H_2O and mix. pH = 4.93 ± 0.05 11/07/10 AmA

EXP: 11/07/11

#M9903 11/08/10 GE Potassium Permanganate: ~~50g~~ 11-08-10 ONE Fisher Scientific Lot No. 102677

#M9904 11/8/10 JA

Working Standards for Sodium and Potassium; into seven, 250 ml volumetric flasks pipette from #M9661 and #M9660.

For the 0.5 mg/L std– 0.1 mls each
1.0 mg/L std – 0.2 mls each
5.0 mg/L std – 1.0 mls each
10.0 mg/L std – 2.0 mls each
50.0 mg/L std - 10.0 mls each
100 mg/L std -20.0 mls each also used for Continuing Calibration Standard (CCV)
200 mg/L std -40.0 mls each
Bring up to mark with DI H2O. expires June 2011.

#M9905 11-8-10 JA

Initial Calibration Standard (ICV) Into 500 ml volumetric pipette 5 mls of #M9863 and #M9280 and bring up to mark with DI H2O. expires Dec 2010

#M9884 10/19/10 AMA Potassium Permanganate Soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL D.I. H_2O. Exp. 04/19/11

#M9885 10/26/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9886 10/26/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9887 10/26/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9886) into 100ml = 3.0ug/L Hg
#M9888 10/26/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9889 10/26/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9886) into 100ml = 0.2ug/L Hg
#M9890 10/26/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO3 (AB: 511)

#M9891 10/27/10 GAE Stannous Chloride Reagent - Into a 1000 mL Vol. Flask, dissolve 100g Stannous Chloride (#M9785L) in 70mL HCl (AB-508). Bring up to volume with D.I. H_2O. Exp. 10-27-11

#M9892 11/02/10 TSV TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:4168) and 128.6mL 10N NaOH (#M9836) Exp: 11/02/11 Dilute to 20L w/D.I. H_2O and mix. pH = 4.93 ± 0.05 11/02/10 GSF

#M9893 11/02/10 AMA Potassium Persulfate: 50g Potassium Persulfate (#M9814) dissolved into 1000mL D.I. H_2O. Exp. 05/02/11

#M9894 11/02/10 AMA Potassium Permanganate Soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL D.I. H_2O. Exp. 05/02/11

#M9895 11/02/10 AMA Nacl Hydroxylamine Sulfate Reagent: Dissolve 60g Nacl (#M9574(A)) and 60g Hydroxylamine sulfate (#M9831) in 500mL Milli-Q H_2O. Exp 05/02/11

#M9870 10/12/10 AmA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9871 10/12/10 AmA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9872 10/12/10 AmA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9871) into 100ml = 3.0ug/L Hg
#M9873 10/12/10 AmA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9874 10/12/10 AmA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9871) into 100ml = 0.2ug/L Hg
#M9875 10/12/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO3 (AB: 511)

#M9876 10/12/10 AmA — NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9082(b)) and 60g Hydroxylamine Sulfate (#M9831) in 500mL Milli-Q H_2O. Exp. 04/12/11

#M9877 10/19/10 GtE — TCLP Extraction Fluid #1: Fill a 20L Carboy w/19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB-499) and 128.6mL 10N NaOH (#M9743). Dilute to 20L w/D.I. H_2O and mix. pH. 4.93 ± 0.05.

#M9878 10/19/10 AmA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9879 10/19/10 AmA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9880 10/19/10 AmA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9879) into 100ml = 3.0ug/L Hg
#M9881 10/19/10 AmA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9882 10/19/10 AmA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9879) into 100ml = 0.2ug/L Hg
#M9883 10/19/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO3 (AB: 511)

#M9860 10/05/10 AMA Potassium Permanganate Soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL ~~Milli-Q~~ D.I H_2O. Exp. 04/05/11 10/05/10 AMA

#M9861 10/05/10 AMA ~~NaCl~~ Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9083(6)) and 60g Hydroxylamine Sulfate (#M9831) in 500mL Milli-Q H_2O. Exp. 04/05/11 10/05/10 AMA

#M9862 10/06/10 CAE Stannous Chloride Reagent: Into a 1000mL vol flask, dissolve 100g Stannous Chloride (#M9785a) in 70mL HCl (AB-508). Bring up to volume with D.I. H_2O. Exp. 10-06-11

#M9863 10-11-10 AA Potassium 10,000 mg/L Spex Certiprep (lot # ~~AB~~12-99K

#M9864 10-11-10 AA Iron 10,000 mg/L ~~Spex Certiprep~~ lot # PLFe2-3X

#M9865 10-11-10 AA Calcium 10,000 mg/L Spex Certiprep lot # PLCa2-3X

#M9866 10-11-10 AA Aluminum 10,000mg/L Spex Certiprep Lot # AB12-122AL

#M9867 10-11-10 AA Boron working Stds into 5, 200 mL Vol flasks & Silicon pipet from Stds #M9628 & M9545

~~5% HNO3~~ ~~5% HCl~~ 10-11-10 Bring up to mark with DI H_2O ex 6/11

10 ug/L → .002 mls M9628 & M9545
50 ug/L → .01 mls M9628 & M9545 10-11-10
200 ug/L → .04 mls M9628 & M9545
1000 ug/L → .2 mls M9628 & M9545
2000 ug/L → .4 mls M9628 & M9545
10,000 ug/L → 2.0 mls M9628 & M9545

Al, Fe, Mg, Ca ~~Mixed~~ — 500,000 ug/L use #M9817 500,000 ug/L Std.

#M9868 10-11-10 AA 10-11-10 ~~5% HNO3~~ ex 1/11 Boron & Silicon ICV/LCSW into 200mL Vol flask pipet 2mls M9816 & .2mls M9448 Bring up to ~~10-11-10~~ mark with DI H_2O.

#M9869 10-11-10 AA Boron & Silicon CCV into 200 mL Vol. flask pipet 0.1mls M9545 & M9628. Bring up to mark with DI H_2O ex 6/11.

#M9848 09/28/10 Potassium Permanganate soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL D.I. H_2O. Exp. 03/29/11
AmA

#M9849 09/29/10 Stannous Chloride Reagent: Into a 1000mL vol. flask, dissolve 100g Stannous Chloride (#M9785a) in 70mL HCl (AB508). Bring up to mark with D.I. H_2O. Exp. 09/29/11
GVE

#M9850 9-30-10 ICSAB Into 500 ml vol flask pipet 50mls #M9807, 2.5mls of M9816 & M9815 Bring up to Mark with DI H_2O. ~~exp~~ 10/11.
2% HNO_3
5% HCl

#M9851 10/04/10 TCLP Extraction Fluid #1: Fill a 20L Carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB.499) and 128.6mL 10N NaOH (#M9743). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05
GVE

#M9852 10/05/10 TCLP Extraction Fluid #1: Fill a 20L Carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB.499) and 128.6mL 10N NaOH (#M9743). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05.
JSP

#M9853 10/05/10 Nickel Nitrate Matrix Modifier Solution Specpure Lot No. 03-16909J Expires Sept. 2011
GVE

#M9854 10/05/10 AmA	Hg Working Stds: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9855 10/05/10 AmA	Hg Alt Source Working Std: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9856 10/05/10 AmA	Hg ICV / LCSW (0.2% HNO_3, HCl)	3.0ml of 100ug/L Hg (#M9855) into 100ml = 3.0ug/L Hg
#M9857 10/05/10 AmA	Hg CCV (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9858 10/05/10 AmA	Hg MRL: (0.2% HNO_3, HCl)	0.2ml of 100ug/L Hg (#M9855) into 100ml = 0.2ug/L Hg
#M9859 10/05/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO_3 (AB: 509)

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#M9834 09/21/10 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9835 09/21/10 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9836 09/21/10 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9835) into 100ml = 3.0ug/L Hg
#M9837 09/21/10 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9838 09/21/10 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9835) into 100ml = 0.2ug/L Hg
#M9839 09/21/10 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 503) with 1part HNO3 (AB: 505)

#M9840 9-23-10 LL Environmental Express Yttrium 10,000ug/L. Lot# 1018805

#M9841 09/23/10 TCLP Extraction Fluid#1: Fill a 20L Carboy w/19L D.I. H2O. Add 114ml Glacial Acetic Acid (AB.468) and 128.6ml 10N NaOH (#M9636). Dilute to 20L w/D.I. H2O and mix. pH = 4.93 ± 0.05
LSF
EXP: 09/23/11

#M9842 09/28/10 AmA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9843 09/28/10 AmA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9844 09/28/10 AmA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9843) into 100ml = 3.0ug/L Hg
#M9845 09/28/10 AmA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9846 09/28/10 AmA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9843) into 100ml = 0.2ug/L Hg
#M9847 09/28/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 508) with 1part HNO3 (AB: 509)

#M9822 09/14/10 3051 Spilling Solution into a 500ml Vol. Flask pipet the following and bring
LSF (1% HNO_3) up to volume with D.I. H_2O.
(Exp: 06-15-11)
2.5ml of 1,000mg/L Ag (#M9608)
2.5ml of 1,000mg/L Cd (#M9620)
0.5ml of 1,000mg/L Sb (#M9610)

s #M9521 (Pb)(ex 4/11)

mls #M9374 (AL)(ex 1/11)

mls #M9374 (AL)(ex 1/11)

#M9823 09/14/10 Potassium Persulfate: 50g Potassium Persulfate (#M9010) dissolved
AmA into 1000ml D.I. H_2O. Exp. 03/14/11

100 mls #M9374 (AL)(ex 1/11)

#M9824 09/14/10 AmA	Hg Working Stds: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9825 09/14/10 AmA	Hg Alt Source Working Std: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9826 09/14/10 AmA	Hg ICV / LCSW (0.2% HNO_3, HCl)	3.0ml of 100ug/L Hg (#M9825) into 100ml = 3.0ug/L Hg
#M9827 09/14/10 AmA	Hg CCV (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9828 09/14/10 AmA	Hg MRL: (0.2% HNO_3, HCl)	0.2ml of 100ug/L Hg (#M9825) into 100ml = 0.2ug/L Hg
#M9829 09/14/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 503) with 1part HNO_3 (AB: 505)

#M9816,
l
l1

pipet the following
th D.I. H_2O.

M9609)
19611)

using and bring up

#M9830 TCLP Soln #2 into 20 liter Carboy pipet 114 mls of Glacial
9-15-10 Acetic Acid. Bring upto 20 liters. ph=2.88
A #AB-499

et the following
h D.I. H_2O.

#M9831 09/16/10 Hydroxylamine Sulfate Fisher Scientific Lot No. 103492 500g
GDE

#M9832 09/21/10 Potassium Permanganate Soln: 50g Potassium permanganate (#M8969)
LSF dissolve into 1,000 mL D.I. H_2O.
Exp: 03/21/11

#M9833 09/21/10 NaCl Hydroxlamine Sulfate Reagent: Dissolve 60g NaCl (#M9082a) and 6og
LSF Hydroxylamine Sulfate (#M9249) in
Exp: 03/21/10 500ml Milli-Q H_2O.

#M9817 9-14-10 ~~JA~~
JA cont...

5000	50 mls #M9816 (ex 8/11) ~~5mls~~ ~~M9620(Cd)~~ ~~Emls M9334(Be)~~ ex 4/11 ox 6-11
10,000	100 mls #M9816 (ex 8/11)
100k	10 mls of #M9522 (Cu) (ex 4/11) , 10 mls of #M9520 (Mn)(ex 4/11) , 10 mls of #M9519 (Cr)(ex 4/11), 10 mls #M9521 (Pb)(ex 4/11) 100 mls #M9276 (Zn)(ex 12/10) = 100,000 ug/L
100,000	10 mls of #M9218 (Mg) (ex 10/10) , 10 mls of #M9659 (Fe) (ex 06/11) ,10 mls of #M9373 (Ca)(ex 1/11),10 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M9218 (Mg) (ex 10/10) , 50 mls of #M9659 (Fe) (ex 06/11) ,50 mls of #M9373 (Ca)(ex 1/11),50 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M9218 (Mg) (ex 10/10) , 100 mls of #M9659 (Fe) (ex 6-11) ,100 mls of #M9373 (Ca)(ex 1/11),100 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 1,000,000 ug/l std

Bring the 1000 ml volumetric up to mark with DI H2O

* JA 9-15-10

#M9818 Continuing calibration Verification.
JA 9-14-10
5% HNO3
5% HCL

Continuing Calibration Standard (CCV)

Into a one liter volmetric flask pipet 2.5 mls of # M9815 and #M9816, and 1 ml of M9373, #M9719, #M9374, and ~~#M9659~~ add 0.5ml #M9659, 1ml M9815.
Bring up to mark with DI H2O ex Jan 2011

#M9819 GFAA spiking Solution (9.5min.) Into a 200ml Vol. Flask, pipet the following and bring up to volume with D.I. H2O.
09/14/10 CSF (1% HNO3)
(Exp: 06-15-11)
1.0mL of 1000mg/L As (#M9609)
0.2 ml of 1000mg/L Se (#M9611)

#M9820 ICP spiking Solution (7min) Into a 200ml vol. Flask pipet the following and bring up
09/14/10 CSF (1% HNO3) to volume with D.I. H2O.
(Exp: 12-15-10)
4.0mL of 1000mg/L Cr (#M9273)
1mL of 10,000mg/L Pb (#M9521)
10mL of 1,000 mg/L V (#M9612)

#M9821 09/14/10 ICP spiking solution (24min. hold) Into a 25ml Vol. Flask pipet the following
CSF (1% HNO3) and bring up to volume with D.I. H2O.
(Exp: 12-15-10)
0.5mL of 1,000mg/L Be (#M9334)
10.1mL of 10,000mg/L Cu (#M9522)
5mL of 1,000 mg/L Ni (#M9274)
10.0mL of 10,000 mg/L Zn (#M9718)

#M9809 ICV/LCSW Na, K, ent to 500mL vol flask pipet 50mL #M9616e1 + 50 mL M9616e0. Bring up to mark with DI H_2O. exp 6/30/11
9-7-10 JA

#M9810 GLE Stannous Chloride Reagent: Into a 1000 mL vol. flask, dissolve 100g Stannous Chloride (#M9785a) in 70 mL HCL (AB:503). Bring up to mark with D.I. H_2O. Exp. 09/08/11
09/08/10

#M9811 GLE GFAA Base Std (25µg/L) 1% HNO_3 Pipet 25mL of #M9482 into a 1L Vol. flask and bring up to volume with Mi.li.Q H_2O. Exp. 04-01-11
09/09/10

#M9812 GLE GFAA Alt. Source Std (10µg/L) 1% HNO_3 Pipet 50mL of #M9483 into a 1L Vol flask and bring up to volume with Mi.li.Q H_2O. Exp. 04-01-11
09/09/10

#M9813 GLE GFAA CCV Std. (10µg/L) 1% HNO_3 Pipet 10 mL of #M9482 into a 1L Vol. flask and bring up to volume with Mi.li.Q H_2O, Exp. 04-01-11
09/09/10

#M9814 GLE Potassium Persulfate Fisher Scientific Lot No. 095982 500g
09/09/10

#M9815 JA Custom Assurance Standard Ag, Be, Cd 100 µg/L Lot # 25-77JB ex August 30, 2011. (Spex Certiprep)
9-13-10 JA 9-14-10

#M9816 JA Custom Assurance Std Al, As, B, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn 100mg/L Lot #25-76JB ex August 30, 2011. (Spex Certiprep)
9-14-10

#M9817 ICAP Working Standards
9-14-10 5% HNO_3 5%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M9815(ex 8/11) and 1.0 mls of #M9816 (ex 8/11) into 1000 ml volumectric flask= 100 ug/L std
500	5.0 mls of #M9815(ex 8/11) and 5.0 mls of #M9816 (ex 8/11) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M9815(ex 8/11) and 10.0 mls of #M9816 (ex 8/11) into 1000 ml volumetric flask= 1000 ug/L std

#M9817 cont...

#M9796 08/24/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9797 08/24/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9798 08/24/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9797) into 100ml = 3.0ug/L Hg
#M9799 08/24/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9800 08/24/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9797) into 100ml = 0.2ug/L Hg
#M9801 08/24/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 503) with 1part HNO3 (AB: 505)

#M9802 08/31/10 Nacl Hydroxylamine Sulfate Reagent - Dissolve 40g NaCl (#M9082(b)) and 40g Hydroxylamine Sulfate (#M9249) in 500mL Milli-Q H_2O. Exp. 02/31/11
AMA

#M9803 09/07/10 GLE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9804 09/07/10 GLE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9805 09/07/10 GLE	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9804) into 100ml = 3.0ug/L Hg
#M9806 09/07/10 GLE	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9807 09/07/10 GLE	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9804) into 100ml = 0.2ug/L Hg
#M9808 09/07/10 GLE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 503) with 1part HNO3 (AB: 505)

#M9785 08/20/10 Tin(II) Chloride Dihydrate Fisher Lot No. 096665
GE

#M9786 08/20/10 Spike Sample Standard 1 Spex CertiPrep Lot No. 41-10AS
GE Exp. 08-15-11

#M9787 08/21/10 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114 mL
AmA Glacial Acetic Acid (AB: ~~408~~ 499 08/21/10 AmA) and 128.6 mL
10N NaOH (# ~~M9736~~ M9744 08/21/10 AmA). Dilute to 20L with D.I. H_2O
and mix. The pH = 4.93 ± 0.05. Exp. 08/21/11

#M9788 08/23/10 Potassium Permanganate Sol'n: 50g Potassium Permanganate (#M8969)
GE dissolved into 1000 mL D.I. H_2O.
Exp. 02/23/11 08/23/10 GE

#M9789 08/23/10 GE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9790 08/23/10 GE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9791 08/23/10 GE	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9790) into 100ml = 3.0ug/L Hg
#M9792 08/23/10 GE	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9793 08/23/10 GE	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9790) into 100ml = 0.2ug/L Hg
#M9794 08/23/10 GE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 503) with 1part HNO3 (AB: 504)

#M9795 08/24/10 Stannous Chloride Reagent: Into a 1000 mL Vol. flask, dissolve 100g
GE Stannous Chloride (#M9405d) in 70 mL
HCL (AB: 503). Bring up to mark with
D.I. H_2O. Exp. 08/24/11.

#M9796 08/31/10 TCLP Extraction Fluid #1: Fill a 20L carboy w 19L D.I. H_2O. Add 114mL Glacial
1SF Exp: 08/31/11 Acetic Acid (AB. 499) and 128.6mL 10N NaOH (#M9745). Dilute
to 20L with D.I. H_2O and mix. pH: 4.93 ± 0.05. 08/31/10 1SF

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~~# M9780~~ ~~# M9779~~ 8-18-10-A

2 8/18/10 LOQ QSM 3050

5% HNO_3 List 2

5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	4	M9278	1000	0.2
Sn	3.2	M9279	1000	0.16
Sr	1.52	M9300	1000	0.076
Ti	4.8	M9277	1000	0.24
W	28	M9275	1000	1.4

Expires 12/15/2010

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9781 08/19/10 GFAA LOD Soil Working Std.: Into a partially filled 100 mL vol. flask of D.I. H_2O, pipet the following amounts and then bring up to volume with D.I. H_2O. Expires 01-15-11.
GVE (1% HNO_3)
0.03mL Ag 1,000 mg/L (#M9608) = 300 µg/L Ag
0.8mL As 1,000 mg/L (#M9609) = 8000 µg/L As
0.02mL Pb 10,000 mg/L (#M9521) = 2000 µg/L Pb
0.25mL Tl 1,000 mg/L (#M9333) = 2500 µg/L Tl
0.8mL Se 1,000 mg/L (#M9611) = 8000 µg/L Se
0.3mL Sb 1,000 mg/L (#M9610) = 3000 µg/L Sb

#M9782 08/19/10 GFAA LOD Soil Spike Solution: Into a partially filled 100 mL vol. flask of D.I. H_2O, pipet 1.0mL of #M9781 and then bring up to volume with D.I. H_2O. Expires 01-15-11
GVE (1% HNO_3)

#M9783 08/19/10 GFAA LOQ Soil Working Std.: Into a 100 mL vol. flask, partially filled with D.I. H_2O, pipet the following amounts and then bring up to volume with D.I. H_2O.
GVE (1% HNO_3)
0.205mL Ag 1000 mg/L (#M9608) = 2,050 µg/L Ag
2.7mL As 1000 mg/L (#M9609) = 27,000 µg/L As
0.065mL Pb 10000 mg/L (#M9521) = 6500 µg/L Pb
0.8mL Tl 1000 mg/L (#M9333) = 8000 µg/L Tl
2.6mL Se 1000 mg/L (#M9611) = 26,000 µg/L Se
0.95mL Sb 1000 mg/L (#M9610) = 9500 µg/L Sb

#M9784 08/19/10 GFAA LOQ Soil Spike Solution: Into a 100 mL vol. flask, partially filled with D.I. H_2O, pipet ~~the~~ 08/19/10 GVE 1.0mL of #M9783 and then bring up to volume with D.I. H_2O. Expires 01-15-11
GVE (1% HNO_3)

M9776 8-18-10 A
3050 LOD QSM B, Si
5% HNO3, 5% ~~HNO3~~ HCL
CL

3050 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	18	M9628	1000	0.9
Si	16	M9545	1000	0.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

M9777 8-18-10 A
3010 LOD QSM
List 2
5% HNO3, 5% ~~HNO3~~ HCL
A 8-18-10

3010 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	0.5	M9278	1000	0.025
Sn	0.9	M9279	1000	0.045
Sr	1	M9300	1000	0.05
Ti	0.5	M9277	1000	0.025
W	4	M9275	1000	0.2

Expires 12/15/2010

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

M9778 8-18-10 A
3010 LOQ QSM
List 2
5% HNO3, 5% HCL

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	4.2	M9278	1000	0.21
Sn	6.2	M9279	1000	0.31
Sr	3	M9300	1000	0.15
Ti	1.8	M9277	1000	0.09
W	28	M9275	1000	1.4

Expires 12/15/2010

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

M9779 8-18-10 A
3050 LOD QSM
List 2
5% HNO3, 5% HCL

3050 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	1	M9278	1000	0.05
Sn	1	M9279	1000	0.05
Sr	0.24	M9300	1000	0.012
Ti	0.8	M9277	1000	0.04
W	4	M9275	1000	0.2

Expires 12/15/2010

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9772 8-18-10
LOD QSM 3050
5% HNO3
5% HCl

3050 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.68	M9608	1000	0.034
Al	1.6	M9374	**10000**	0.008
Ba	0.32	M9518	1000	0.016
Be	0.16	M9334	1000	0.008
Cd	0.24	M9620	1000	0.012
Co	0.6	M9299	1000	0.03
Cr	0.76	M9273	1000	0.038
Cu	2.4	M9522	**10000**	0.012
Mg	4.8	M9719	**10000**	0.024
Mn	0.8	M9520	**10000**	0.004
Mo	0.56	M9302	1000	0.028
Ni	0.72	M9274	1000	0.036
Pb	1.6	M9521	**10000**	0.008
Sb	3.2	M9610	1000	0.16
V	0.44	M9612	1000	0.022
Zn	1.6	M9276	1000	0.08
K	440	M9222	**10000**	2.2
Na	160	M9280	**10000**	0.8
As	5.2	M9609	1000	0.26
Ca	6	M9373	**10000**	0.03
Fe	12	M9659	**10000**	0.06
Se	2.8	M9611	1000	0.14
Tl	1.6	M9333	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

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#M9773 8-18-10
LOD 3010 B, Si
QSM 5A
5% HNO3, HCl

3010 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	10	M9628	1000	0.5
Si	36	M9545	**1000**	1.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

M9774 8-18-10A
LOQ 3010 B, Si QSM
5% HNO3, 5% HCl

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	18	M9628	1000	0.9
Si	118	M9545	**1000**	5.9

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9775 8-18-10A
LOQ 3050 B, Si QSM
5% HNO3, 5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	26	M9628	1000	1.3
Si	56	M9545	**1000**	2.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

M9770 8-18-10 JA

LOQ QSM Spiking Soln. 3010
5% HCL, 5% HNO3

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	2	M9608	1000	0.1
Al	26	M9374	**10000**	0.13
Ba	1.8	M9518	1000	0.09
Be	0.86	M9334	1000	0.043
Cd	0.4	M9620	1000	0.02
Co	4.3	M9299	1000	0.215
Cr	2	M9273	1000	0.1
Cu	3.8	M9522	**10000**	0.019
Mg	11	M9719	**10000**	0.055
Mn	2	M9520	**10000**	0.01
Mo	1.2	M9302	1000	0.06
Ni	4.2	M9274	1000	0.21
Pb	4.9	M9521	**10000**	0.0245
Sb	16	M9610	1000	0.8
V	1.7	M9612	1000	0.085
Zn	5.9	M9276	1000	0.295
K	900	M9222	**10000**	4.5
Na	340	M9280	**10000**	1.7
As	13	M9609	1000	0.65
Ca	100	M9373	**10000**	0.5
Fe	29	M9659	**10000**	0.145
Se	14	M9611	1000	0.7
Tl	5	M9333	1000	0.25

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

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#M9771 8-18-10 JA
LOQ QSM 3050
5% HNO3
5% HCL

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	2.24	M9608	1000	0.112
Al	4.8	M9374	**10000**	0.024
Ba	1.08	M9518	1000	0.054
Be	0.48	M9334	1000	0.024
Cd	0.84	M9620	1000	0.042
Co	1.96	M9299	1000	0.098
Cr	2.52	M9273	1000	0.126
Cu	8	M9522	**10000**	0.04
Mg	16	M9719	**10000**	0.08
Mn	2	M9520	**10000**	0.01
Mo	1.92	M9302	1000	0.096
Ni	2.44	M9274	1000	0.122
Pb	5.6	M9521	**10000**	0.028
Sb	10.8	M9610	1000	0.54
V	1.36	M9612	1000	0.068
Zn	4.8	M9276	1000	0.24
K	1440	M9222	**10000**	7.2
Na	520	M9280	**10000**	2.6
As	18	M9609	1000	0.9
Ca	20	M9373	**10000**	0.1
Fe	40	M9659	**10000**	0.2
Se	16.8	M9611	1000	0.84
Tl	5.6	M9333	1000	0.28

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES 12/15/2010

#M9765 08/17/10 GFAA LOD Working Std. (1% HNO_3) Expires: 01-15-11 GE

Into a 100 mL vol. flask, partially filled with D.I. H_2O, pipet the following amounts and then bring up to volume with D.I. H_2O.
0.3 mL As 1,000 mg/L (#M9609) = 3000 µg/L As
0.45 mL Sb 1,000 mg/L (#M9610) = 4500 µg/L Sb
0.40 mL Tl 1,000 mg/L (#M9333) = 4000 µg/L Tl
0.80 mL Se 1,000 mg/L (#M9611) = 8000 µg/L Se
0.02 mL Pb 10,000 mg/L (#M9521) = 2000 µg/L Pb
0.04 mL Ag 1,000 mg/L (#M9608) = 400 µg/L Ag

#M9766 08/17/10 GFAA LOD Water Spike Solution (1% HNO_3) GE

Pipet 1.0 mL of #M9765 into a 100 mL vol. flask and then bring up to volume with D.I. H_2O. Exp. 01-15-11

#M9767 08/17/10 GFAA LOQ Working Std. (1% HNO_3) Expires: 01-15-11 GE

Into a 100 mL vol. flask, partially filled with D.I. H_2O, pipet the following amounts and then bring up to volume with D.I. H_2O.
0.9 mL As 1000 mg/L (#M9609) = 9000 µg/L As
1.55 mL Sb 1000 mg/L (#M9610) = 15,500 µg/L Sb
0.8 mL Tl 1000 mg/L (#M9333) = 8,000 µg/L Tl
2.6 mL Se 1000 mg/L (#M9611) = 26,000 µg/L Se
0.065 mL Pb 10,000 mg/L (#9521) = 6,500 µg/L Pb
0.13 mL Ag 1,000 mg/L (#M9608) = 1300 µg/L Ag

#M9768 08/17/10 GFAA LOQ Water Spike Solution (1% HNO_3) GE

Pipet 1 mL of #M9767 into a 100 mL vol. flask and then bring up to volume with D.I. H_2O. Exp. 01-15-11

#M9769 8-18-10
LOD QSM 3010 Spiking Stdn.
5% HNO_3
5% HCl

3010 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	1	M9608	1000	0.05
Al	4	M9374	10000	0.02
Ba	0.26	M9518	1000	0.013
Be	0.13	M9334	1000	0.0065
Cd	0.11	M9620	1000	0.0055
Co	1.3	M9299	1000	0.065
Cr	0.7	M9273	1000	0.035
Cu	1.2	M9522	10000	0.006
Mg	3	M9719	10000	0.015
Mn	0.7	M9520	10000	0.0035
Mo	0.4	M9302	1000	0.02
Ni	0.6	M9274	1000	0.03
Pb	1.5	M9521	10000	0.0075
Sb	4	M9610	1000	0.2
V	0.5	M9612	1000	0.025
Zn	1.8	M9276	1000	0.09
K	300	M9222	10000	1.5
Na	100	M9280	10000	0.5
As	4	M9609	1000	0.2
Ca	15	M9373	10000	0.075
Fe	9	M9659	10000	0.045
Se	2.3	M9611	1000	0.115
Tl	1.6	M9333	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working | EXPIRES 12/15/2010

L Hg

g/L Hg

g/L Hg

'L Hg

g/L Hg

1part HNO3 (AB: 490)

to 200 mL DI Water

g: ~~5~~

int (mL) to t into 1 L
1
2
0.5
0.2
0.25
0.5
0.5
0.05
2.5
0.5
0.5
0.5
0.05
1
0.5
0.5
25
5
0.5
2.5
1.5
0.5
1
2.5
1
1
2.5
0.5

#M9753 08/12/10 Custom Assurance Standard. Spex CertiPrep Lot No. 25-06JB
GAE 20,000 mg/L Ca, 10,000 mg/L Mg, Na Exp. 08-15-11

#M9754 08/13/10 AmA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9755 08/13/10 AmA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9756 08/13/10 AmA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9755) into 100ml = 3.0ug/L Hg
#M9757 08/13/10 AmA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9758 08/13/10 AmA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9755) into 100ml = 0.2ug/L Hg
#M9759 08/13/10 AmA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 503) with 1part HNO3 (AB: 504)

#M9760 08/13/10 GAE — Cr Spiking Solution (1% HNO_3)
Pipet 1.0mL of 10,000 mg/L Cr (#M9519) → 100 mL = 100,000 µg/L Cr
Pipet 1.0mL of 100,000 µg/L Cr → 1000mL = 100 µg/L Cr (Exp 04-30-11)

#M9761 08/13/10 GAE — Be Spiking Solution (1% HNO_3)
Pipet 1.0mL of 1000 mg/L Be (#M9334) → 100mL = 10,000 µg/L Be
Pipet 1.0mL of 10,000 µg/L Be → 200mL = 50 µg/L Be (Exp. 01-15-11)

#M9762 08/16/10 GAE — GFAA MDL Spike Solution: (1%) HNO_3)
Pipet 2mL of #M9472 → 100mL = 200 µg/L As, Se, Sb
Expires 04-01-11

#M9763 08/16/10 AmA — LOD ✓/LOQ ✓ Hg Spiking Solution (0.2% HNO_3, HCl) — 1.0mL of 1000mg/L Hg (#M9257) into 100mL = 10mg/L Hg
1.0mL of 10mg/L Hg into 100mL = 100µg/L Hg
10.0mL of 100µg/L Hg into 100mL = 10.0µg/L Hg

#M9764 08/17/10 AmA — Stannous chloride Reagent: Into a 1000mL vol. flask, dissolve 100g Stannous chloride (#M9405(d)) in 70mL HCL (AB-503)
Bring up to mark with D.I. H_2O. Exp. 08/17/11

160

M9745 08/06/10 LSF — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

M9746 08/06/10 LSF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

M9747 08/06/10 LSF — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M9746) into 100ml = 3.0ug/L Hg

9748 08/06/10 LSF — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

M9749 08/06/10 LSF — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M9746) into 100ml = 0.2ug/L Hg

19750 08/06/10 LSF — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)

M9751 08/06/10 LSF — Potassium Persulfate
Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

MRL Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following: *

Analyte	MRL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	20	M9608	1000	1
Al	400	M9374	**10000**	2
Ba	10	M9518	1000	0.5
Be	4	M9334	1000	0.2
Cd	5	M9620	1000	0.25
Co	10	M9299	1000	0.5
Cr	10	M9273	1000	0.5
Cu	10	M9522	**10000**	0.05
Mg	500	M9218	**10000**	2.5
Mn	10	M9332	1000	0.5
Mo	10	M9302	1000	0.5
Ni	10	M9274	1000	0.5
Pb	10	M9521	**10000**	0.05
Sb	20	M9610	1000	1
V	10	M9612	1000	0.5
Zn	10	M9276	1000	0.5
K	5000	M9222	**10000**	25
Na	1000	M9280	**10000**	5
As	10	M9609	1000	0.5
Ca	500	M9373	**10000**	2.5
Fe	300	M9659	**10000**	1.5
Se	10	M9611	1000	0.5
Tl	20	M9333	1000	1
Si	50	M9448	1000	2.5
B	20	M9628	1000	1
Li	20	M9278	1000	1
W	50	M9275	1000	2.5
Ti	10	M9277	1000	0.5
Sr	10	M9300	1000	0.5
Sn	10	M9279	1000	0.5

#M9752 "A" MRL Icp. 8-9-10
5% HCL
5% HNO3

* of this Base Std pipet 10mls into 500 ml Vol flask to create a working std or 1ml into a 50ml digestion tube for a diggested WORKing std.
dx 12/10

#M9753 08/12/10 Cust... GeE 20,0...
#M9754 08/13/10 AmA — Hg Working Stds (0.2% HNO3, HC...
#M9755 08/13/10 AmA — Hg Alt Source W... (0.2% HNO3, H...
#M9756 08/13/10 AmA — Hg ICV / LCSW (0.2% HNO3, H...
#M9757 08/13/10 AmA — Hg CCV (0.2% HNO3, H...
#M9758 08/13/10 AmA — Hg MRL: (0.2% HNO3, H...
#M9759 08/13/10 AmA — Hg Aqua Regia...
#M9760 08/13/10 GeE — Cr Sp... (1%...
#M9761 08/13/10 GeE — Be Sp... (1%...
#M9762 08/16/10 GeE — GFAA... (1%...
#M9763 08/16/10 AmA — LOD's/LC... (0.2% H...
#M9764 08/17/10 AmA — Stanno...

191 D.I. H2O.
(Acetic (AB-468) and
(36) Dilute to 20L
pH = 4.93 ± 0.05
07/26/10 SF

08/03/10 SF

#M9733 08/03/10 Potassium Permanganate soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL Milli-Q H2O
Exp: 02/03/11

#M9734 08/03/10 NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9082a) and 60g Hydroxylamine Sulfate (#M9249) in 500mL Milli-Q H2O.
LSF
Exp: 02/03/10

#M9735 08/03/10 TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H2O, Add 114mL Glacial Acetic Acid (AB-468) and 128.6mL 10N NaOH (#M9636) Dilute to 20L w/ D.I. H2O and mix. pH = 4.93 ± 0.05
LSF
Exp: 08/03/11

#M9736 08/03/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9737 08/03/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9738 08/03/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9737) into 100ml = 3.0ug/L Hg
#M9739 08/03/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9740 08/03/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9737) into 100ml = 0.2ug/L Hg
#M9741 08/03/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
#M9742 08/03/10 AMA	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

(AB: 490)
l Water
cd
35744
HCl (AB-496).
07/28/11
H2O. Add 114mL
and 128.6mL
10L w/ D.I. H2O and mix.

#M9743 08/04/10 10N NaOH: Into a 1L vol. flask add 400g NaOH (#W72703) and bring up to volume with D.I. H2O.
LSF
Exp: 08/04/11

#M9744 08/05/10 10N NaOH: Into a 1L vol. flask add 400g NaOH (#M9497) and bring up to volume with D.I. H2O.
LSF
Exp: 08/05/11

07/27/10 GvE

#M9722 TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB: 468) and 128.6mL 10N NaOH (#M9636) Dilute to 20L w/ D.I. H_2O and mix. pH = 4.93 ± 0.05
07/26/10 LSF
Exp: 07/26/11

#M9722 07/27/10 AMA	Hg Working Stds: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9723 07/27/10 AMA	Hg Alt Source Working Std: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9724 07/27/10 AMA	Hg ICV / LCSW (0.2% HNO_3, HCl)	3.0ml of 100ug/L Hg (#M9723) into 100ml = 3.0ug/L Hg
#M9725 07/27/10 AMA	Hg CCV (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9726 07/27/10 AMA	Hg MRL: (0.2% HNO_3, HCl)	0.2ml of 100ug/L Hg (#M9723) into 100ml = 0.2ug/L Hg
#M9727 07/27/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO_3 (AB: 490)
#M9728 07/27/10 AMA	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9729 07/27/10 AMA — Potassium Persulfate: 50g Potassium Persulfate (#M9010) dissolved into 1000mL D.I. H_2O. Exp 01/27/11

#M9730 07/27/10 GvE — Amco Clear Turbidity Standard 2.0 NTU Lot No. C035744 Expires 07/11

#M9731 07/28/10 AMA — Stannous chloride Reagent: Into a 1000mL vol. flask, dissolve 100g stannous chloride (#M9405(c)) in 70mL HCl (AB: 496). Bring up to mark with D.I. H_2O. Exp. 07/28/11

M9732 07/29/10 LSF — TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114ml Glacial Acetic Acid (AB. 468) and 128.6ml 10N NaOH (#M9636) Dilute to 20L w/ D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp: 07/29/11

#M9733 08/03/10 LSF Exp:

#M9734 08/03/10 LSF NaCl

#M9735 08/03/10 LSF E

#M9736 08/03/10 AMA Hg Working S (0.2% HNO3,

#M9737 08/03/10 AMA Hg Alt Source (0.2% HNO3,

#M9738 08/03/10 AMA Hg ICV / LCS (0.2% HNO3

#M9739 08/03/10 AMA Hg CCV (0.2% HNO3

#M9740 08/03/10 AMA Hg MRL: (0.2% HNO3

#M9741 08/03/10 AMA Hg Aqua Reg

#M9742 08/03/10 AMA Potassium P

#M9743 08/04/10 LSF 10N Exp: 08/0

#M9744 08/05/10 LSF 10N Exp: 08/0

#M9712 07/19/10 NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9082(6)) and
AMA 60g Hydroxylamine Sulfate (#M9249) in
500mL Milli-Q H_2O. Exp 01/19/11

D.I. H_2O. Add 114mL
468) and 188.6mL
to 20L w/D.I. H_2O

#M9713 07/21/10 Stannous chloride Reagent: Into a 1000mL vol. flask, dissolve 100g
AMA Stannous chloride (#M9405(a)) in 70mL HCl (AB-496).
Bring up to mark with D.I. H_2O. Exp 07/21/11

7-19-10
pipet into
bring up to mark

#M9714 07/21/10 Potassium Permanganate Soln: 50g Potassium Permanganate (#M8969)
AMA dissolved into 1000mL Milli-Q H_2O. Exp 01/21/11

+ 2.2mL of
f 10,000 mg/L Pb
Se (#M9611),
610), and 0.6mL
). Bring up to

#M9715 07/23/10 ICP MDL Spiking Soln: 1mL of 1000 mg/L Cr (#M9773) → 100mL = 10,000 µg/L Cr
GCE (1% HNO_3) 25mL of 10,000 mg/L Cr → 1000mL = 2.50 µg/L Cr
Exp. 12-15-10

#M9716
~~#M9715~~ 07/23/10 ICP ~~LOD~~ LOQ Spiking Soln: Into a 1L vol. flask, pipet the following: ~~into~~
07/23/10 GCE GCE (1% HNO_3) ~~a partially~~ 07/23/10 GCE
Exp. 04/30/11 0.0035mL of 10,000 mg/L Pb (#M9521) = 35 µg/L Pb
0.05mL of 1000 mg/L As (#M9609) = 50 µg/L As
Bring up to volume with D.I. H_2O.

f 10mL of
me with D.I.

07/23/10 GCE
#M9717 07/23/10 ICP LOQ Spiking Soln: Into a 1L Vol. flask, pipet the following:
GCE (1% HNO_3) 0.012mL of 10,000 mg/L Pb (#M9521) = 120 µg/L Pb
Exp. 04/30/10 0.25mL of 1,000 mg/L As (#M9609) = 2.50 µg/L As

#M9718 07/23/10 Zinc 10,000 mg/L Spex CertiPrep Lot No. AB12-68ZN
GCE Expires: 07/15/11

07/23/10 GCE
#M9719 07/23/10 Magnesium 10,000 mg/L Spex CertiPrep Lot No. AB12-64MG
GCE Expires: 07/15/11

07/23/10 GCE
#M9720 7-26-10

ICAP Working Standards
5% HNO3 5%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M9658(ex 6/11) and 1.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 100 ug/L std
500	5.0 mls of #M9658(ex 6/11) and 5.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M9658(ex 6/11) and 10.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 1000 ug/L std
10,000	10.0 mls of #M9658(ex 6/11), 1.0 mls of #M9518 Ba (ex 4/11) 1.0 mls #M9528 B (ex 6/11), 0.10 mls #M9374 Al (ex 1/11) into 1000 ml volumtric flask= 10000 ug/L std
100k	10 mls of #M9522 (Cu) (ex 4/11), 10 mls of #M9520 (Mn)(ex 4/11), 10 mls of #M9519 (Cr)(ex 4/11), 10 mls #M9717 (Zn)(ex 7/11), 10 mls #M9521 (Pb)(ex 4/11) into 1000 ml vol flask = 100K ug/l std
100,000	10 mls of #M9718 (Mg) (ex 7/11), 10 mls of #M9659 (Fe) (ex 6/11), 10 mls of #M9373 (Ca)(ex 1/11), 10 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M9718 (Mg) (ex 7/11), 50 mls of #M9659 (Fe) (ex 6/11), 50 mls of #M9373 (Ca)(ex 1/11), 50 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M9718 (Mg) (ex 7/11), 100 mls of #M9659 (Fe) (ex 6/11), 100 mls of #M9373 (Ca)(ex 1/11), 100 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 1000K ug/l std

Bring 1000 ml volumetrics up to mark with DI H2O

ex 9/11

AB: 490)

Water

#M9701 07/19/10 CSF TCLP Extraction Fluid #1: Fill a 20L carboy w/ 11.9L D.I. H2O. Add 114mL Glacial Acetic Acid (CAB. 468) and 128.6mL 10N NaOH (#M9636). Dilute to 20L w/ D.I. H2O and mix. pH = 4.93 ± 0.05
Exp. 07/19/11

#M9702 7-19-10 ICV, (NaK) LCSW onto 500 mL vol flask pipet ~~onto~~ 7-19-10
2% 5% HNO3 5% HCl 50mL of #M9616O & #M9616I Bring up to mark with DI H2O. ox 6/30/2011.

#M9703 07/19/10 GFAA Stability Working Standard: Into a 1L Vol. flask, pipet 2.2mL of 1000mg/L As (#M9609), 0.18mL of 10,000mg/L Pb (#M9621), 4.4mL of 1,000mg/L Se (#M9611), 1.2mL of 1,000mg/L Sb (#M9610), and 0.6mL of 1000mg/L Tl (#M9333). Bring up to volume with D.I. H2O.
GJE (1% HNO3) Exp. 01-15-11

#M9704 07/19/10 GFAA Instrument Stability Standard: Into a 1L vol. flask, pipet 10mL of #M9703 and bring up to volume with D.I. H2O.
GJE (1% HNO3) Exp. 01-15-11

M9705 07/19/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
M9706 07/19/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
M9707 07/19/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9706) into 100ml = 3.0ug/L Hg
M9708 07/19/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
M9709 07/19/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9706) into 100ml = 0.2ug/L Hg
M9710 07/19/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
M9711 07/19/10 AMA	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9712 07/19/10 NaCl AMA

#M9713 07/21/10 Stanno AMA

#M9714 07/21/10 Potass AMA

#M9715 07/23/10 ICP M GJE (1% Exp.

#M9716 ~~#M9716~~ 07/23/10 ICP GJE (1% Exp

#M9717 07/23/10 ICP GJE (1% Exp

#M9718 07/23/10 Z GJE E

#M9719 07/23/10 M GJE E

#M9720 7-26-10

ICAP Working Standards
5% HNO3 5%HCL

Standard name	Pipet the f
	0.25
	0.5
	1
	5
	10
	20
	50
	100
	500
	1000
	10,000
	100k
	100,000
	500,000
	1000k

'0 mls. M9534, 20 mls #M9689 LSF 07/13/10
ing cup to mark w/
= H_2O.

D.I. H_2O. Add 114 mL
B.468) and 128.6 mL
to 20L w/D.I. H_2O #M9690 LSF 07/13/10

Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9690) into 100ml = 3.0ug/L Hg
Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9690) into 100ml = 0.2ug/L Hg
Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9691 LSF 07/13/10
#M9692 LSF 07/13/10
#M9693 LSF 07/13/10
#M9694 LSF 07/13/10
#M9695 LSF 07/13/10

#M9696 LSF 07/14/10. TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114 mL Glacial Acetic Acid (AB. 499) and 128.6mL 10N NaOH (#M9636). Dilute to 20L w/ D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp: 07/14/11

3: 490)
ater

#M9697 AMA 07/14/10 Stannous chloride Reagent: into a 1000mL vol. flask, dissolve 10g stannous chloride (#M9405(a)) in 70mL HCl (AB·496). Bring up to mark with D.I. H_2O. Exp 07/14/11

state
.2 Milli-Q H_2O.

#M9698 7-19-10 ICSAB NAK into 250 ml vol flask Pipet 25mls #M9607
5% HNO_3 7-19-10 7.5mls of M9659, 25mls of M9660 + M9661. Bring up to
5% HNO_3 Mark with DI H_2O. ex June 15, 2011

#M9699 CCV (Dorcal) Into 1 Liter vol flask Pipet 10mls M9455
5% HCl 7-19-10 1mls of M9373, M9218, M9374 & 0.5mls M9659.
5% HNO_3 Bring up to mark with DI H_2O. ex 10/15/10.

#M9700. ICV/LCSW (Dorcal Icp) Onto 1 liter Vol flask pipet 10 mls #M9530,
5% HCl 7.19.10 2.0 mls #M9607, 0.5mls M9628 & 0.5mls #M9302
5% HNO_3 Bring up to mark with DI H_2O. ex Dec 2010.

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#M9679 ICV Icp Onto 1000 ml vol flask pipet 10 mls M9534, 20 mls M9607, 0.5 mls M9140 & 0.5 mls M9302. Bring up to mark w. 0.07 mls. M9608. DI H_2O.
7-1-10 JA

#M968007/06/10 TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114 mL Glacial Acetic Acid (AB: 468) and 128.6 mL 10N NaOH (#M9636). Dilute to 20L w/ D.I. H_2O and mix. pH = 4.93 ± 0.05
LSF
Exp. 07/06/11

#M9681 AMA 07/06/10	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9682 AMA 07/06/10	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9683 AMA 07/06/10	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9682) into 100ml = 3.0ug/L Hg
#M9684 AMA 07/06/10	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9685 AMA 07/06/10	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9682) into 100ml = 0.2ug/L Hg
#M9686 AMA 07/06/10	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
#M9687 AMA 07/06/10	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9688 LSF 07/13/10 Potassium Permanganate soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL Milli-Q H_2O.

Exp: 01/13/11

#M9668 GLE 06/29/10 — GFAA Base Std (25µg/L) (18% HNO_3, 6% HCL) Exp. 04/01/11 — Pipet 5.0 mL of #M9482 into a 200 mL vol. flask. Bring up to volume with D.I. H_2O.

2).

#M9669 GLE 06/29/10 — GFAA CCV (10µg/L) (18% HNO_3, 6% HCL) Exp. 04/01/11 — Pipet 2.0 mL of #M9482 into a 200 mL vol. flask. Bring up to volume with D.I. H_2O.

#M9670 GLE 06/29/10 — GFAA Alt. Source (10µg/L) (18% HNO_3, 6% HCL) Exp. 04/01/11 — Pipet 10.0 mL of #M9483 into a 200 mL vol. flask. Bring up to volume with D.I. H_2O.

#M9671 GLE 06/29/10 — GFAA Base Std (25µg/L) (20% HNO_3) Exp. 04/01/11 — Pipet 5.0 mL of #M9482 into a 200 mL vol. flask. Bring up to volume with D.I. H_2O.

#M9672 GLE 06/29/10 — GFAA CCV (10µg/L) (20% HNO_3) Exp. 04/01/11 — Pipet 2.0 mL of #M9482 into a 200 mL vol. flask. Bring up to volume with D.I. H_2O.

#M9673 GLE 06/29/10 — GFAA Alt. Source (10µg/L) (20% HNO_3) Exp. 04/01/11 — Pipet 10.0 mL of #M9483 into a 200 mL vol flask. Bring up to volume with D.I. H_2O.

#M9674 GLE 06/29/10 — GFAA Base Std. (100µg/L) (20% HNO_3) Exp. 04/01/11 — Pipet 10.0 mL of #M9482 into a 100 mL vol. flask. Bring up to volume with D.I. H_2O.

#M9675 GLE 06/29/10 — GFAA CCV (50µg/L) (20% HNO_3) Exp. 04/01/11 — Pipet 5.0 mL of #M9482 into a 100 mL vol. flask. Bring up to volume with D.I. H_2O.

#M9676 GLE 06/29/10 — GFAA Alt. Source (50µg/L) (20% HNO_3) Exp. 04/01/11 — Pipet 25.0 mL of #M9483 into a 100 mL vol. flask. Bring up to volume with D.I. H_2O.

#M9677 AMA 07/01/10 — Tclp Extraction fluid #1: fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB-4168) and 128.6mL 10N NaOH (#M9636). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 07/01/11

#M9678 7-1-10 A — ICV ICP into 1000ml Vol flask Pipet 10mls of #M9534 2.0mls #M9607 0.5mls #M8802 & 0.5mls #M9140 Bring up to mark with DI H_2O.

#M9665 AmA Stannous Chloride Reagent: Into a 1000ml Vol. flask, dissolve 100g
6/29/10 Stannous chloride (#M9129(a)) in 70ml HCl (AB-492)
Bring up to mark with D.I. H_2O. Exp 6/29/11

M9666 A ICP Working Stds 4.5 min method.

6-29-10 ICAP Working Standards
18% HNO3 6%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M9298(ex 12-10) and 1.0 mls of #M9188 (ex 9/10) into 1000 ml volumectric flask= 100 ug/L std
500	5.0 mls of #M9298(ex 12/10) and 5.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M9288(ex 12/10) and 10.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 1000 ug/L std
10,000	10.0 mls of #M9298(ex 12/10), 10.0 mls of #M9188 (ex 9/10) into 1000 ml=10,000 ug/L std
100k	10 mls of #M9522 (Cu) (ex 4/11) , 10 mls of #M9520 (Mn)(ex 4/11) , 10 mls of #M9519 (Cr)(ex 4/11), 10 mls #M9521 (Pb)(ex 4/11) 100 mls #M9276 (Zn)(ex 12/10) = 100,000 ug/L
100,000	10 mls of #M9218 (Mg) (ex 10/10) , 10 mls of #M9659 (Fe) (ex 06/11) ,10 mls of #M9373 (Ca)(ex 1/11),10 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M9218 (Mg) (ex 10/10) , 50 mls of #M9659 (Fe) (ex 06/11) ,50 mls of #M9373 (Ca)(ex 1/11),50 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M9218 (Mg) (ex 10/10) , 100 mls of #M9659 (Fe) (ex 6-11) ,100 mls of #M9373 (Ca)(ex 1/11),100 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 1,000,000 ug/l std
	Bring the 1000 ml volumetric up to mark with DI H2O

M9667 A

6-29-10 ICAP Working Standards 7+24 min
20% HNO3

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M9298(ex 12-10) and 1.0 mls of #M9188 (ex 9/10) into 1000 ml volumectric flask= 100 ug/L std
500	5.0 mls of #M9298(ex 12/10) and 5.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M9288(ex 12/10) and 10.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 1000 ug/L std
10,000	10.0 mls of #M9298(ex 12/10), 10.0 mls of #M9188 (ex 9/10) into 1000 ml=10,000 ug/L std
100k	10 mls of #M9522 (Cu) (ex 4/11) , 10 mls of #M9520 (Mn)(ex 4/11) , 10 mls of #M9519 (Cr)(ex 4/11), 10 mls #M9521 (Pb)(ex 4/11) 100 mls #M9276 (Zn)(ex 12/10) = 100,000 ug/L
100,000	10 mls of #M9218 (Mg) (ex 10/10) , 10 mls of #M9659 (Fe) (ex 06/11) ,10 mls of #M9373 (Ca)(ex 1/11),10 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M9218 (Mg) (ex 10/10) , 50 mls of #M9659 (Fe) (ex 06/11) ,50 mls of #M9373 (Ca)(ex 1/11),50 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M9218 (Mg) (ex 10/10) , 100 mls of #M9659 (Fe) (ex 6-11) ,100 mls of #M9373 (Ca)(ex 1/11),100 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 1,000,000 ug/l std
	Bring the 1000 ml volumetric up to mark with DI H2O

#M9662 7A
6-29-10

MRL Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MRL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	20	M9608	1000	1
Al	400	M9374	**10000**	2
Ba	10	M9518	1000	0.5
Be	4	M9334	1000	0.2
Cd	5	M9620	1000	0.25
Co	10	M9299	1000	0.5
Cr	10	M9273	1000	0.5
Cu	10	M9522	**10000**	0.05
Mg	500	M9218	**10000**	2.5
Mn	100	M9332	1000	0.5
Mo	10	M9302	1000	0.5
Ni	10	M9274	1000	0.5
Pb	10	M9521	**10000**	0.05
Sb	20	M9610	1000	1
V	10	M9612	1000	0.5
Zn	10	M9276	1000	0.5
K	5000	M9222	**10000**	25
Na	1000	M9280	**10000**	5
As	10	M9609	1000	0.5
Ca	500	M9373	**10000**	2.5
Fe	300	M9219	**10000**	1.5
Se	10	M9611	1000	0.5
Tl	20	M9333	1000	1
Si	50	M9448	1000	2.5
B	20	M9628	1000	1
Li	20	M9278	1000	1
W	50	M9275	1000	2.5
Ti	10	M9277	1000	0.5
Sr	10	M9300	1000	0.5
Sn	10	M9279	1000	0.5

ex Dec 2010

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9663 7A
MRL 6-29-10 Into 500 ml volumetric pipt 10mls of #M9662. Bring up to mark with DI H_2O. ex Dec 2010.

#M9664-7A 6-29-10 MRL Ca, Fe, Mg, Al, Mn into 500 ml vol flask pipet 1ml of #M9662. Bring up to mark with DI H_2O ex Dec 2010.

150

#M9648 6/24/10 AMA	3050 Icp MDL Spiking Solution (1% HNO_3, HCl)	Into a 1L vol. flask, pipet the following and bring up to volume with D.I. H_2O. Exp. 4/30/11 1mL AS 1000mg/L (#M9609) 0.025mL Pb 10,000 mg/L (#M9521)
#M9649 6-28-10 A 5% HCl 5% HNO_3	Continuing Calibration Verification (CCV)	into 1 Liter volumetric flask prep 10 mls #M9455, 1ml M9218, M9373, M9374 & 0.5mls M9219. Bring up to mark with DI H_2O. ex 10/10.

#M9650 AMA 6/28/10	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9651 AMA 6/28/10	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9652 AMA 6/28/10	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9651) into 100ml = 3.0ug/L Hg
#M9653 AMA 6/28/10	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9654 AMA 6/28/10	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9651) into 100ml = 0.2ug/L Hg
#M9655 AMA 6/28/10	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
#M9656 AMA 6/28/10	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9657 AMA 6/28/10 NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9082(b)) and 60g Hydroxylamine Sulfate (#M9249) in 500mL Milli-Q H_2O. Exp 12/28/10

#M9658 A 6-29-10 Quality Control Std #21 Spex Certiprep lot# 19-50JB. exp 6/30/11.

#M9659 A 6-29-10 Fe 10,000mg/L Spex Certiprep lot # AB12-31FE.

M9660 A 6-29-10 1000 mg/L Potassium Spex Certiprep lot # 16-26K. ex 6/30/11.

#M9661 6-29-10 1000 mg/L Cadmium Spex Certiprep lot # 15-97Cd ex 6/30/11

6/11 #M9637 AMA 6/21/10 — Potassium Permanganate soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL Milli-Q H_2O. Exp. 12/21/10

1ml #M9638 AMA 6/21/10	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
3188 #M9639 AMA 6/21/10	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9640 AMA 6/21/10	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9639) into 100ml = 3.0ug/L Hg
#M9641 AMA 6/21/10	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9642 AMA 6/21/10	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9639) into 100ml = 0.2ug/L Hg
#M9643 AMA 6/21/10	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
#M9644 AMA 6/21/10	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9645 GLE 06/23/10 — Tungsten Working Standards: Expires: 10/10 — Into (5) 1L Vol. flasks pipet:
1 µg/L = 0.001 mL of #M9105
10 µg/L = 0.01 mL of #M9105
100 µg/L = 0.1 mL of #M9105
1,000 µg/L = 1.0 mL of #M9105
10,000 µg/L = 10 mL of #M9105
Bring up to mark with D.I. H_2O

#M9646 GLE 06/23/10 — W ICV/LCSW: Expires: 12-15-10 — Into a 1L Vol. flask, pipet the following: 0.5mL of #M9275. Bring up to mark with D.I. H_2O.

4ml #M9647 GLE 06/23/10 — W CCV: Expires: 10/10 — Into a 1L Vol. flask, pipet the following 0.5mL of #M9105. Bring up to mark with D.I. H_2O.

#M9628 6-14-10 Boron 1000mg/L Spex Certoprep Lot # 16-52B ex 6/11

#M9629 6-14-10 Boron & Silicon 1000µg/L ICV Into 1000 ml Vol flask pipet 1ml of #M9628 & M9545 bring up to mark with DI H_2O Dex 6/11.

#M9630 6-14-10 Boron & Si CCV Into 200ml Vol flask pipet 2mls #M9188 Bring up to mark with DI H_2 ex 9/10.

#M9631 6/17/10 LSF Potassium Persulfate: 50g Potassium persulfate (#M9010) dissolved into 1000ml D.I. H_2O. Exp: 12/17/10

#M9632 GLE 06/21/10 List 2 Standards (Working) 5% HNO_3, HCl Expires: 12-15-10

Into (5) 1 Liter Vol. Flasks pipet:

1 µg/L = 0.01mL #M9298 + 0.001mL M9275 + 0.01mL #M9279

10 µg/L = 0.1mL #M9298 + 0.01mL #M9275 + 0.01mL #M9279

100 µg/L = 1.0mL #M9298 + 0.10mL #M9275 + 0.10mL #M9279

1,000 µg/L = 10.0mL #M9298 + 1.0mL #M9275 + 1.0mL #M9279

10,000 µg/L = 100.0mL #M9298 + 10mL #M9275 + 10mL #M9279

Bring up to mark with D.I. H_2O.

#M9633 GLE 06/21/10 List 2 ICV/LCSW 5% HNO_3, HCl Expires: Oct. 2010

Into a 1L Vol. Flask, pipet the following

0.5mL of #M9281

0.5mL of #M9105

0.5mL of #M9278

0.5mL of #M9277

0.5mL of #M9300

Bring up to mark with D.I. H_2O

#M9634 GLE 06/21/10 List 2 CCV 5% HNO_3, HCl Expires: 12-15-10

Into a 1L Vol. Flask, pipet the following:

5mL of #M9298

0.5mL of #M9275

0.5mL of #M9279

Bring up to mark with D.I. H_2O.

#M9635 LSF 06/21/10 TCLP Extraction Fluid #1: Fill a 7oL carboy w/ 11.9L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB.4687) and 128.6mL 10N NaOH (#M9636). Dilute to 7oL w/ D.I. H_2O and mix. pH: 4.93 ± 0.05

Exp. 06/21/11

#M9636 LSF 06/21/10 10N NaOH: Into a 1L Vol. flask add 400g NaOH (#W22703) and bring up to volume with D.I. H_2O. Exp: 06/21/11

#M9613 06/08/10 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9614 06/08/10 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9615 06/08/10 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9614) into 100ml = 3.0ug/L Hg
#M9616 06/08/10 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9617 06/08/10 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9614) into 100ml = 0.2ug/L Hg
#M9618 06/08/10 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
#M9619 06/08/10 LSF	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9620 06/11/10 Cadmium 1,000 mg/L Spex CertiPrep Lot No. 15-119CD Exp. 06-15-11
AMA

#M9621 06/14/10 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9622 06/14/10 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9623 06/14/10 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M) into 100ml = 3.0ug/L Hg
#M9624 06/14/10 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9625 06/14/10 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M) into 100ml = 0.2ug/L Hg
#M9626 06/14/10 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
06/14/10 LSF #M9624 06/14/10 LSF	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

M9604 cont...

Sr	10	m9300	1000	0.5
Ti	10	m9277	1000	0.5
Li	20	m9278	1000	1
Sn	10	m9279	1000	0.5
B	10	m9140	1000	0.5
Si	30	m9448	1000	1.5

Bring up to mark with DI H_2O.

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

ex6-30-2010

#M9613 06/08/10 LSF

#M9614 06/08/10 LSF

#M9615 06/08/10 LSF

#M9616 06/08/10 LSF

#M9617 06/08

#M9618 06/08

#M9619 06/08

M9605 6-1-10 A — MRL working std into 500ml vol flask pipet 10 mls of #M9604 Bring up to mark with DI H_2O ex 6-30-10.

M9606 06/05/10 LSF — TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB.4682) and 128.6mL 10N NaOH (#M9495). Dilute to 20L w/ D.I. H_2O and mix. pH: 4.93 ± 0.05

Exp. 06/05/11

#M9607 06/07/10 GLE — Interferents A Spex CertiPrep Lot No. 8-79GS Exp. 06-15-11
5,000 mg/L Al, Ca, Mg 2000 mg/L Fe

#M9608 06/07/10 GLE — Silver 1,000 mg/L Spex CertiPrep Lot No. 15-162AG Exp. 06-15-11

#M9609 06/07/10 GLE — Arsenic 1,000 mg/L Spex CertiPrep Lot No. 15-64AS Exp. 06-15-11

#M9610 06/07/10 GLE — Antimony 1,000 mg/L Spex CertiPrep Lot No. 15-174SB Exp. 06-15-11

#M9611 06/07/10 GLE — Selenium 1,000 mg/L Spex CertiPrep Lot No. 15-188SE Exp. 06-15-11

#M9612 06/07/10 GLE — Vanadium 1,000 mg/L Spex CertiPrep Lot No. 16-11V Exp. 06-15-11

#M9598 06/04/10 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9599 06/04/10 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9600 06/02/10 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9599) into 100ml = 3.0ug/L Hg
#M9601 06/02/10 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9602 06/02/10 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9599) into 100ml = 0.2ug/L Hg
#M9603 06/02/10 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
#M9604 06/02/10 SF	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9605 Hg Spiking Solution: 1.0ml of 1000mg/L Hg (#M9257) ~~into~~ 06/02/10 SF
1.0ml of 10mg/L Hg into 100ml
1.0ml of 100ug/L Hg into 100ml

#M9604 ~~#~~ 6-1-10
~~6-2-10~~ 5% HNO3
5% HCl

MRL Std
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

a Class pipet

Analyte	MRL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	20	m9052	1000	1
Al	400	M9374	**10000**	2
Ba	10	M9518	1000	0.5
Be	4	M9334	1000	0.2
Cd	5	M9055	1000	0.25
Co	10	M9299	1000	0.5
Cr	10	M9273	1000	0.5
Cu	10	M9522	**10000**	0.05
Mg	500	M9218	**10000**	2.5
Mn	10	m9520	10000	0.05
Mo	10	M9302	1000	0.5
Ni	10	M9274	1000	0.5
Pb	10	M9521	**10000**	0.05
Sb	20	M9053	1000	1
V	10	M9056	1000	0.5
Zn	10	M9276	1000	0.5
K	5000	M9222	**10000**	25
Na	1000	M9280	**10000**	5
As	10	M9058	1000	0.5
Ca	500	M9373	**10000**	2.5
Fe	300	M9219	**10000**	1.5
Se	10	M9054	1000	0.5
Tl	20	M9333	1000	1

MRLM9604 cont...

#M9594 5/28/10
AmA
5% HNO_3
5% HCl

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	18	M9140	1000	0.9
Si	118	M9448	1000	5.9

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Exp 8/30/10

#M9595 5/28/10
AmA
5% HNO_3
5% HCl

3010 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	10	M9140	1000	0.5
Si	36	M9448	1000	1.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Exp 8/30/10

#M9596 5/28/10
AmA
5% HNO_3
5% HCl

3010 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	0.5	M9278	1000	0.025
Sn	0.9	M9279	1000	0.045
Sr	1	M9300	1000	0.05
Ti	0.5	M9277	1000	0.025
W	4	M9275	1000	0.2

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Exp 12/15/10

#M9597 5/28/10
AmA
5% HNO_3
5% HCl

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	4.2	M9278	1000	0.21
Sn	6.2	M9279	1000	0.31
Sr	3	M9300	1000	0.15
Ti	1.8	M9277	1000	0.09
W	28	M9275	1000	1.4

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working

Exp 12/15/10

#M9591 05/27/10
GFE 1% HNO3

GFAA LOQ Soil Spiking Solution
Base SPIKE PREPARATION 50x

Exp. 06-30-10

Into a 1000 mL Volumetric Flask, pipet the following:

LOQ 05/10 GFE

Analyte	~~MDL~~ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.42	M9052	1000	0.021
Sb	1.9	M9053	1000	0.095
Se	5.2	M9054	1000	0.26
Tl	1.6	M9333	1000	0.08
Pb	1.3	M9521	**10000**	0.0065
As	5.4	M9058	1000	0.27

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9592 5/28/10
AMA 5% HNO_3
5% HCl

3050 LOD Spiking Soluion
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

LOD

Analyte	~~MDL~~ 5/28/10 AMA (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	1	M9278	1000	0.05
Sn	1	M9279	1000	0.05
Sr	0.24	M9300	1000	0.012
Ti	0.8	M9277	1000	0.04
W	4	M9275	1000	0.2

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Exp. 12/15/10

a 10mls

9455,
ring up

#M9593 5/28/10
AMA 5% HNO_3
5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

LOQ

Analyte	~~MDL~~ 5/28/10 AMA (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	4	M9278	1000	0.2
Sn	3.2	M9279	1000	0.16
Sr	1.52	M9300	1000	0.076
Ti	4.8	M9277	1000	0.24
W	28	M9275	1000	1.4

Exp 12/15/10

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

2 & 15mls
2010.

M9580 05/25/10 05/25/10 CSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
M9581 05/25/10 CSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
M9582 05/25/10 CSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9581) into 100ml = 3.0ug/L Hg
M9583 05/25/10 CSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
M9584 05/25/10 CSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M~~9581~~ 05/25/10 CSF 9581) into 100ml = 0.2ug/L Hg
M9585 05/25/10 CSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
M9586 05/25/10 CSF	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9591
GAE 1

#M9592
AMA

M9587 5-25-10 ICSA onto 500 ml vol flask pipet 500mls #M9212 & 10mls
2A 5% HNO3 #M9219 Bring up to mark with DI H_2O.
5% HCL.

M9588 5-26-10 CCV onto 1 Liter vol flask pipet 10mls #M9455,
2A 5% HNO3 1ml #M9374, #M9218 and #M9373, 0.5mls #M9219 Bring up
5% HCL to mark with DI H_2O. exp Oct 15, 2010.

#M9593
AMA

#M9589 5-23-10 ICSA onto 500 ml vol flask pipet 500 mls #M9212 & 15mls
2A 5% HNO3 #M9219 Bring up to mark with DI H_2O exp Oct 15 2010.
5% HCL

#M9590 05/27/10
GAE 1% HNO_3

GFAA LOD Soil Spiking Solution
Base SPIKE PREPARATION 50x Exp. 06-30-10

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.06	M9052	1000	0.003
Sb	0.6	M9053	1000	0.03
Se	1.6	M9054	1000	0.08
Tl	0.5	M9333	1000	0.025
Pb	0.4	M9521	**10000**	0.002
As	1.6	M9058	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9577 5/25/10
AMA
5% HNO_3
5% HCl

3050 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	~~MDL~~ LOD (ug/L) 5/25/10 AMA	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.68	M9052	1000	0.034
Al	1.6	M9374	**10000**	0.008
Ba	0.32	M9518	1000	0.016
Be	0.16	M9334	1000	0.008
Cd	0.24	M9055	1000	0.012
Co	0.6	M9299	1000	0.03
Cr	0.76	M9273	1000	0.038
Cu	2.4	M9522	**10000**	0.012
Mg	4.8	M9218	**10000**	0.024
Mn	0.8	M9332	1000	0.04
Mo	0.56	M9302	1000	0.028
Ni	0.72	M9274	1000	0.036
Pb	1.6	M9521	**10000**	0.008
Sb	3.2	M9053	1000	0.16
V	0.44	M9056	1000	0.022
Zn	1.6	M9276	1000	0.08
K	440	M9222	**10000**	2.2
Na	160	M9280	**10000**	0.8
As	5.2	M9058	1000	0.26
Ca	6	M9373	**10000**	0.03
Fe	12	M9219	**10000**	0.06
Se	2.8	M9054	1000	0.14
Tl	1.6	M9333	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Exp 6/30/10

#M9578 5/25/10
AMA
5% HNO_3
5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	~~MDL~~ LOQ (ug/L) 5/25/10 AMA	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	28	M9140	1000	1.4
Si	56	M9448	1000	2.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Exp 8/30/10

#M9579 5/25/10 AMA
5/25/10
AMA
5% HNO_3
5% HCl

3050 LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	~~MDL~~ LOD (ug/L) 5/25/10 AMA	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	18	M9140	1000	0.9
Si	16	M9448	1000	0.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard

Exp. 8/30/10

#M9576 05/24/10 AMA

5% HNO_3

5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	~~MDL~~ LOQ 5/24/10 AMA (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	2.24	M9052	1000	0.112
Al	4.8	M9374	**10000**	0.024
Ba	1.08	M9518	1000	0.054
Be	0.48	M9334	1000	0.024
Cd	0.84	M9055	1000	0.042
Co	1.96	M9299	1000	0.098
Cr	2.52	M9273	1000	0.126
Cu	8	M9522	**10000**	0.04
Mg	16	M9218	**10000**	0.08
Mn	2	M9332	1000	0.1
Mo	1.92	M9302	1000	0.096
Ni	2.44	M9274	1000	0.122
Pb	5.6	M9521	**10000**	0.028
Sb	10.8	M9053	1000	0.54
V	1.36	M9056	1000	0.068
Zn	4.8	M9276	1000	0.24
K	1440	M9222	**10000**	7.2
Na	520	M9280	**10000**	2.6
As	18	M9058	1000	0.9
Ca	20	M9373	**10000**	0.1
Fe	40	M9219	**10000**	0.2
Se	16.8	M9054	1000	0.84
Tl	5.6	M9333	1000	0.28

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Exp 6/30/10

#M9577 AMA

#M9578 AMA

5/24/10 AMA

#M9579 5/2 AMA

#M9575 5/20/10

AMA

5% HNO_3

5% HCL

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	2	M9052	1000	0.1
Al	26	M9374	**10000**	0.13
Ba	1.8	M9518	1000	0.09
Be	0.86	M9334	1000	0.043
Cd	0.4	M9055	1000	0.02
Co	4.3	M9299	1000	0.215
Cr	2	M9273	1000	0.1
Cu	3.8	M9522	10000	~~0.19~~ 0.019
Mg	11	M9218	**10000**	0.055
Mn	2	M9332	1000	0.1
Mo	1.2	M9302	1000	0.06
Ni	4.2	M9274	1000	0.21
Pb	4.9	M9521	**10000**	0.0245
Sb	16	M9053	1000	0.8
V	1.7	M9056	1000	0.085
Zn	5.9	M9276	1000	0.295
K	900	M9222	**10000**	4.5
Na	340	M9280	**10000**	1.7
As	13	M9058	1000	0.65
Ca	100	M9373	**10000**	0.5
Fe	29	M9219	10000	~~1.45~~ 0.145
Se	14	M9054	1000	0.7
Tl	5	M9333	1000	0.25

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9572 05/20/10
GAE
1% HNO_3

GFAA LOD Spiking Solution
Base SPIKE PREPARATION 50x

Exp. 06-30-10

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.04	M9052	1000	0.002
Pb	0.4	M9521	**10000**	0.002
Sb	0.9	M9053	1000	0.045
As	0.6	M9058	1000	0.03
Se	1.6	M9054	1000	0.08
Tl	0.8	M9333	1000	0.04

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9573 05/20/10
GAE
1% HNO_3

GFAA LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Exp. 06-30-10

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	0.13	M9052	1000	0.0065
Pb	1.3	M9521	**10000**	0.0065
Sb	3.1	M9053	1000	0.155
As	1.8	M9058	1000	0.09
Se	5.2	M9054	1000	0.26
Tl	1.3		1000	0.065

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9574 05/20/10 Sodium Chloride Fisher Lot No. 097125 f.w. 58.44
GAE

M9575 5/20/10
AMA
5% HNO_3
5% HCL

d 114mL
mL 10N NaOH
mix.

#M9564 05/20/10 CSF — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

flask pipet
rinse up

#M9565 05/20/10 CSF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9566 05/20/10 CSF — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M9565) into 100ml = 3.0ug/L Hg

mL

#M9567 05/20/10 CSF — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M9568 05/20/10 CSF — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M9565) into 100ml = 0.2ug/L Hg

#M9568 05/20/10 CSF — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)

#M9569 5/20/10 CSF — Potassium Persulfate
Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9571 5/20/10
AMA
5% HNO_3
5% HCl

LOD Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	1	M9052	1000	0.05
Al	4	M9374	10000	0.02
Ba	0.26	M9518	1000	0.013
Be	0.13	M9334	1000	0.0065
Cd	0.11	M9055	1000	0.0055
Co	1.3	M9299	1000	0.065
Cr	0.7	M9273	1000	0.035
Cu	1.2	M9522	10000	~~0.06~~ 0.006
Mg	3	M9218	10000	0.015
Mn	0.7	M9332	1000	0.035
Mo	0.4	M9302	1000	0.02
Ni	0.6	M9274	1000	0.03
Pb	1.5	M9521	10000	0.0075
Sb	4	M9053	1000	0.2
V	0.5	M9056	1000	0.025
Zn	1.8	M9276	1000	0.09
K	300	M9222	10000	1.5
Na	100	M9280	10000	0.5
As	4	M9058	1000	0.2
Ca	15	M9373	10000	0.075
Fe	9	M9219	10000	~~0.45~~ 0.045
Se	2.3	M9054	1000	0.115
Tl	1.6	M9333	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9553 05/12/10 CSF — TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB. 4687 and 128.6mL 10N NaOH (#M9495). Dilute to 20L w/ D.I. H_2O and mix. pH: 4.93 ± 0.05.

Exp 05/12/11

#M9554 5-14-10 JA — Borosilicon "MRL" Low level std. Into 500 ml Vol flask pipet .015 mls of #M9448 (5:) or .005 mls #M9140 (CB) Bring up to mark with DI H_2O ox 8/10.

M9555 5/14/10 AMA — NaCl Hydroxylamine sulfate Reagent: Dissolve 60g NaCl (#M9082a) and 60g Hydroxylamine Sulfate (#M9249) in 500mL Milli-Q H_2O. Exp. 11/14/10

M9556 05/14/10 CSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
M9557 05/14/10 CSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
M9558 05/14/10 CSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9557) into 100ml = 3.0ug/L Hg
M9559 05/14/10 CSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
M9560 05/14/10 CSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9557) into 100ml = 0.2ug/L Hg
M9561 05/14/10 CSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)
M9562 05/14/10 CSF	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

9563 05/17/10 CSF — TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB 4687 and 128.6mL 10N NaOH (#M9495). Dilute to 20L w/ D.I. H_2O and mix. pH: 4.93 ± 0.05.

Exp. 05/17/11

#M9564 05/20/10

#M9565 05/20/1

#M9566 05/

#M9567 05/

#M9568 05/

#M9568 05

#M9569

#M9571 5

AMA

Vol. with

Vol. th

6l. 2

#M9537 05/05/10GSF — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9538 05/05/10GSF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9539 05/05/10GSF — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M 9538) into 100ml = 3.0ug/L Hg

#M9540 05/05/10GSF — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

05/05/10GSF
#M9541 05/05/10GSF — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M 9538) into 100ml = 0.2ug/L Hg

#M9542 05/05/10GSF — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 484) with 1part HNO3 (AB: 486)

#M9543 05/05/10GSF — Potassium Persulfate
Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9544 05/05/10 GSF — Hg Spiking Solution: Pipet 1.0mL of 1000 mg/L Hg (#M9063) → 100mL = 10mg/L Hg
10mL of 10mg/L Hg → 100mL = 1000µg/L Hg

#M9545 05/07/10 GSF — Silicon 1000 ppm Fisher Lot No. 102251 Exp. 04/2012

#M9546 05/10/10 GSF — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9547 05/10/10 GSF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9548 05/10/10 GSF — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M 9547) into 100ml = 3.0ug/L Hg

0 5/03/10GSF 5)

#M9549 05/10/10 GSF — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

D
illi-QH2O

#M9550 05/10/10 GSF — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M 9547) into 100ml = 0.2ug/L Hg

5-M-10

#M9551 05/10/10 GSF — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 489) with 1part HNO3 (AB: 490)

#M9552 05/10/10 GSF — Potassium Persulfate
Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9524 04/27/10 GFAA Base Std (25µg/L) (5% HCl, 2% HNO_3) Pipet 25mL of #M9482 into a 1L Vol. flask and bring it up to volume with Milli-Q H_2O. Exp. 04-01-11
GJE

#M9525 04/27/10 GFAA Alt. Source Std (10µg/L) (5% HCl, 2% HNO_3) Pipet 50mL of #M9483 into a 1L Vol. flask and bring it up to volume with Milli-Q H_2O. Exp. 04-01-11
GJE

#M9526 04/27/10 GFAA CCV Std (10µg/L) (5% HCl, 2% HNO_3) Pipet 10mL of #M9482 into a 1L Vol. flask and bring it up to volume with Milli-Q H_2O. Exp. 04-01-11
GJE

#M9527 4/27/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9528 4/27/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
M9529 4/27/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9528) into 100ml = 3.0ug/L Hg
M9530 4/27/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
M9531 4/27/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9528) into 100ml = 0.2ug/L Hg
M9532 4/27/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 484) with 1part HNO3 (AB: 486)
M9533 4/27/10 AMA	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

M9534 05/03/10 Spike Sample Standard 1 Spex CertiPrep Lot No. 41-10AS
GJE Exp. 04-30-11

M9535 05/03/10 TCLP Extraction Fluid #1: Fill a 20L carboy w/ 11.4L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB: 468) and 128.6mL 10N NaOH (#M9485). Dilute to 20L w/ D.I. H_2O and mix. The pH = 4.93 ± 0.05.
LSF Exp. 05/03/11 05/03/10 LSF

#M9511 4/20/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9512 4/20/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9513 4/20/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9512) into 100ml = 3.0ug/L Hg
#M9514 4/20/10	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9515 4/20/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9512) into 100ml = 0.2ug/L Hg
#M9516 4/20/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 484) with 1part HNO3 (AB: 486)
#M9517 4/20/10 AMA	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9518 4/22/10 AMA — Barium Standard 1,000 mg/L spex certiprep Lot NO. 15-160 BA
Expires 4/30/11

Stannous (84)

#M9519 4/22/10 AMA — Chromium standard 10,000 mg/L spex certiprep Lot NO. Y11-222CR
Expires 4/30/11

acial (#M9485) 0.05.

#M9520 4/22/10 AMA — Manganese Standard 10,000 mg/L spex certiprep Lot NO. Z12-05MN
Expires 4/30/11

#M9521 4/22/10 AMA — Lead standard 10,000 mg/L spex certiprep Lot NO. AA12-28PB
Expires 4/30/11

#M9522 4/22/10 AMA — Copper Standard 10,000 mg/L spex certiprep Lot NO AC12-16CU
Expires 4/30/11

#M9523 04/27/10 15F — TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H2O. Add 11.4mL Glacial Acetic Acid (AB.468) and 128.6mL 10N NaOH (#M9485). Dilute to 20L w/D.I. H2O and mix. The pH = 4.92 ± 0.05.

Exp: 04/27/11

#M9502 4/13/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9503 4/13/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9504 4/13/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9503) into 100ml = 3.0ug/L Hg
#M9505 4/13/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9506 4/13/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9503) into 100ml = 0.2ug/L Hg
#M9507 4/13/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 484) with 1part HNO3 (AB: 486)
#M9508 4/13/10 AMA	Potassium Persulfate	Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9509 04/14/10 Stannous Chloride Reagent: Into a 1000mL Vol. flask, dissolve 100g Stannous Chloride (#M94056) in 70mL HCL (AB:484) Bring up to mark with D.I. Exp. 04/14/11
GVF

#9510 04/14/10 TCLP Extraction Fluid #1: fill a 20L carboy w/ ~~20L~~ 19 L D.I. H2O. Add 114.6mL Glacial Acetic Aced (AB:4687) and 128.6mL 10N NaOH (#M9485) Dilute to 20L w/ D.I. H2O and mix. The pH = 4.93 ± 0.05.
25F 04/14/10 15F
Exp. 04/14/11

#M9511 4/20/10 AMA
#M9512 4/20/10 AMA
#M9513 4/20/10 AMA
#M9514 4/20/10
#M9515 4/20/10 AMA
#M9516 4/20/10 AMA
#M9517 4/20/10 AMA
#M9518 4/22/1 AMA
#M9519 4/22/10 AMA
#M9520 4/22/10 AMA
#M9521 4/22/10 AMA
#M9522 4/22/10 AMA

#M9495 04/07/10 GE 10N NaOH: Into a 1L Vol. Flask add 400g NaOH (#W22703) and bring up to volume with D.I. H_2O. Exp. 04-07-11

#M9496 04/07/10 GF TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB.468) and 128.6mL 10N NaOH (#M9495). Dilute to 20L w/D.I. H_2O and mix. The PH = 4.93 ± 0.05. Exp. 04/07/11

~~#M9497 04/07/10 Sand Blank - J.F.~~ 04/07/10 GE

GE

#M9497 04/12/10 Sodium Hydroxide: Fisher Lot No. 096813 GE

#M9498 ICSA ICP Into 500ml volumetric flask piped 50mls #M9212 & 15mls #M9219 Brings up to mark with DI H_2O ex 10/10. 4-13-10 5% HCL 5% HNO3

#M9499 ICSAB ICP Into 500 ml volumetric flask piped 50mls #M9212 & 15mls #M9219 20mls #M9298 & 2.0 mls #M9188 brings up to mark with DI H_2O. ex 09/10. 4-13-10 5% HCL 5% HNO3

#M9500 AMA 4/13/10 Potassium Permanganate soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL Milli-Q H_2O. Exp: 10/13/10

#M9501 4/13/10 AMA NaCl Hydroxylamine sulfate Reagent: Dissolve 60g NaCl (#M9082a) and 60g Hydroxylamine sulfate (#M9249) in 500mL Milli-Q H_2O. Exp: 10/13/10

#M9502 04/14/10 GE Stannous Chloride Reagent: Into a 1000 mL Vol. flask, dissolve 100g Stannous Chloride (#) in 70mL HCl (AB.)

04/14/10 GE

#M9482 03/30/10 GFAA Working Base Std (1000µg/L) (1% HNO_3) — Pipet 10mL of #M9471 into 1L Vol. Flask & bring up to volume with Milli-Q H_2O. Exp 04-01-11 — GUE

#M9483 03/30/10 GFAA Alt. Source Working Std (1% HNO_3) (200µg/L) — Pipet 20mL of #M9472 into 1L Vol Flask & bring up to volume with Milli-Q H_2O. Exp. 04-01-11 — GUE

#M9484 03/30/10 GFAA Base Std. (25µg/L) (1% HNO_3) — Pipet 25mL of #M9482 into a 1L Vol flask and bring up to volume with Milli-Q H_2O. Exp. 04-01-11 — GUE

#M9485 03/30/10 GFAA Alt. Source Std (10µg/L) (1% HNO_3) — Pipet 50mL of #M9483 into a 1L Vol. Flask and bring up to volume with Milli-Q H_2O. Exp. 04-01-11 — GUE

#M9486 03/30/10 GFAA CCV Std (10µg/L) (1% HNO_3) — Pipet 10mL of #M9482 into a 1L Vol. Flask and bring up to volume with Milli-Q H_2O. Exp. 04-01-11 — GUE

#M9487 04/01/10 TCLP Extraction fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL (Glacial Acetic Acid (AB: 468) and 128.6mL 10N NaOH (#M9265). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 4/01/11 — AMA

#M9488 04/06/10 Hg Working Stds: (0.2% HNO3, HCl) — GUE/LSF
- 1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9489 04/06/10 Hg Alt Source Working Std: (0.2% HNO3, HCl) — LSF
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9490 04/06/10 Hg ICV / LCSW (0.2% HNO3, HCl) — LSF
- 3.0ml of 100ug/L Hg (#M9489) into 100ml = 3.0ug/L Hg

#M9491 04/06/10 Hg CCV (0.2% HNO3, HCl) — LSF
- 1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M9492 04/06/10 Hg MRL: (0.2% HNO3, HCl) — LSF
- 0.2ml of 100ug/L Hg (#M9489) into 100ml = 0.2ug/L Hg

#M9493 04/06/10 Hg Aqua Regia Reagent: — LSF
- "Carefully" in hood, mix 3 parts HCl (AB: 484) with 1part HNO3 (AB: 486)

#M9494 04/06/10 Potassium Persulfate — LSF
- Dissolve 10 g of Potassium Persulfate (#M9010) into 200 mL DI Water

#M9471 3-26-10 Inorganic Ventures, CTISPK-1 lot# D2-MEB324063
ex April-1-2011.

#M9472 3-26-10 Inorganic Ventures, CTI-6FCAl-1 lot# D2-MEB324062
ex April-1-2011.

#M9473 03/29/10 Potassium Persulfate: 50g Potassium Persulfate (#M9010) dissolved into 1000mL D.I. H_2O Exp. 09/29/10
GAE

#M9474 03/29/10 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9475 03/29/10 LSF	Hg.. Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9476 03/29/10 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9475) into 100ml = 3.0ug/L Hg
#M9477 03/29/10 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9478 03/29/10 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9475) into 100ml = 0.2ug/L Hg
#M9479 03/29/10 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 484) with 1part HNO3 (AB: 486)

#M9480 03/29/10 Potassium Permanganate Soln: 50g Potassium Permanganate (#8969)
LSF dissolved into 1000mL milli Q H_2O Exp. 09/29/10

#M9481 3-30-10 ICV/LCSW Into 1 Liter Vol flask pipet 10mls of #M9316
5% HNO_3 (AB: 484) 2.0mls M9212, 0.07mls #M9052. 0.5mls #M9803
5% HCL (AB. 486) Bring up to mark with DI H_2O. ex 6/10.

#M9464 03/22/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9465 03/22/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9466 03/22/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9465) into 100ml = 3.0ug/L Hg
#M9467 03/22/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9468 03/22/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9465) into 100ml = 0.2ug/L Hg
#M9469 03/22/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 484) with 1part HNO3 (AB: 486)

#M9470 3/8-10
AA

ICAP Working Standards

5% HNO3 5%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M9298(ex 12-10) and 1.0 mls of #M9188 (ex 9/10) into 1000 ml volumectric flask= 100 ug/L std
500	5.0 mls of #M9298(ex 12/10) and 5.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M9288(ex 12/10) and 10.0 mls of #M9188 (ex 9/10) into 1000 ml volumetric flask= 1000 ug/L std
10,000	10.0 mls of #M9298(ex 12/10), 10.0 mls of #M9188 (ex 9/10) into 1000 ml=10,000 ug/L std
100k	10 mls of #M8961 (Cu) (ex 5/10) , 10 mls of #M8966 (Mn)(ex 5/10) , 10 mls of #M9057 (Cr)(ex 6/10), 10 mls #M8965 (Pb)(ex 5/10) 100 mls #M9276 (Zn)(ex 12/10) = 100,000 ug/L
100,000	10 mls of #M9218 (Mg) (ex 10/10) , 10 mls of #M9219 (Fe) (ex 10/10) ,10 mls of #M9373 (Ca)(ex 1/11),10 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M9218 (Mg) (ex 10/10) , 50 mls of #M9219 (Fe) (ex 10/10) ,50 mls of #M9373 (Ca)(ex 1/11).50 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M9218 (Mg) (ex 10/10) , 100 mls of #M9219 (Fe) (ex 10/10) ,100 mls of #M9373 (Ca)(ex 1/11),100 mls #M9374 (AL)(ex 1/11) into 1000 ml vol flask = 1,000,000 ug/l std
	Bring the 1000 ml volumetric up to mark with DI H2O ax 5/10

#M9471
2% HNO3 AA
2% HCL (AA

#M9473 GE
#M9474 CSF
#M9475 CSF
#M9476 CSF
#M9477 CSF
#M9478 CSF
#M9479 CSF
#M9480 CSF
#M9481

#M9455 3-15-10 LFS Spex Certiprep Lot # 15-114JB.
2A

#M9456 03/17/10 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9457 03/17/10 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9458 03/17/10 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9450) into 100ml = 3.0ug/L Hg
#M9459 03/17/10 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M9460 03/17/10 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9450) into 100ml = 0.2ug/L Hg
#M9461 03/17/10 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 475) with 1part HNO3 (AB: 483)

#M9462 3-18-10 CCV std for ICAP. Auto 1 Liter volumetric
2A 2A pipet 10mls of #M9455, 1ml of #M9218 #M9164,
5% HNO3 #M8967 and ~~#0.5mls~~ 0.5mls of #M9219 Bring up to mark
5% HCL w. the DI H_2O. ~~3-23-10~~ ex 5/10.

#M9463 3-18-10 ICV/LCSW ICP auto 1 Liter Vol flask pipet
2A 5% HNO3 10mls of #M9220, 0.05mls #M9052 0.5mls M9278,
5% HCL 0.5mls M9140. ~~3-23-10 #M9441 pipet~~ Bring up to mark with
DI H_2O. ex 5/10.
* 1ml. of M8964, M8967, M9218, M9219.

#M9447 03/05/10
AMA 5% HNO_3
5% HCl

LOD Check Base SPIKE PREPARATION 3010 Diss. **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	1.2	M9052	1000	0.06
Al	2.4	M8967	**10000**	0.012
Ba	0.8	M8959	1000	0.04
Be	0.22	M9334	1000	0.011
Cd	0.42	M9055	1000	0.021
Co	0.54	M9299	1000	0.027
Cr	1.4	M9273	1000	0.07
Cu	2.6	M8961	**10000**	0.013
Mg	3.6	M9218	**10000**	0.018
Mn	1.2	M9332	1000	0.06
Mo	0.6	M9302	1000	0.03
Ni	1.8	M9274	1000	0.09
Pb	3.6	M8965	**10000**	0.018
Sb	6	M9053	1000	0.3
V	0.8	M9056	1000	0.04
Zn	1.4	M9276	1000	0.07
K	560	M9222	**10000**	2.8
Na	140	M9280	**10000**	0.7
B	6	M9140	1000	0.3
Si	12	M9121	1000	0.6
As	16	M9058	1000	0.8
Ca	10	M8964	**10000**	0.05
Fe	4	M9219	**10000**	0.02
Se	4.6	M9054	1000	0.23
Tl	5.4	M9333	1000	0.27

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9455 3-15-10
2A

#M9456 03/17/10
LSF

#M9457 03/17/10
LSF

#M9458 03/17/10
LSF

#M9459 03/17/10
LSF

#M9460 03/17/10
LSF

#M9461 03/17/10
LSF

#M9462 3-18
2A
5% HNO_3
5% HCL

#M9463 3-18-10
2A 5% HNO_3
5% HCL

#M9448 3-8-10 Silicon 1000mg/L Fisher Lot # 090135 ex 1/2011
2A

#M9449 3/11/10
AMA

Hg Working Stds: (0.2% HNO_3, HCl)
- 1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9450 3/11/10
AMA

Hg Alt Source Working Std: (0.2% HNO_3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9451 3/11/10
AMA

Hg ICV / LCSW (0.2% HNO_3, HCl)
- 3.0ml of 100ug/L Hg (#M9450) into 100ml = 3.0ug/L Hg

#M9452 3/11/10
AMA

Hg CCV (0.2% HNO_3, HCl)
- 1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M9453 3/11/10
AMA

Hg MRL: (0.2% HNO_3, HCl)
- 0.2ml of 100ug/L Hg (#M9450) into 100ml = 0.2ug/L Hg

#M9454 3/11/10 AMA

Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 475) with 1part HNO_3 (AB: 483)

#M9444 03/04/10
AMA 5% HNO_3

MDL Check Base SPIKE PREPARATION Diss **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	1	M9278	1000	0.05
Sn	1.6	M9281	**1000**	0.08
Sr	0.6	M9300	1000	0.03
Ti	1.2	M9277	1000	0.06
W	10	M9275	1000	0.5

of This base standard, pipet 10mls into 500 mL Volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp 12/15/10

#M9445 03/04/10
AMA 5% HNO_3

LOQ Check Base SPIKE PREPARATION diss **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	3.2	M9278	1000	0.16
Sn	5	M9281	**1000**	0.25
Sr	2.2	M9300	1000	0.11
Ti	4	M9277	1000	0.2
W	30	M9275	1000	1.5

of This base standard, pipet 10mls into 500mL Volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp 12/15/10

#M9446 03/05/10
AMA 5% HNO_3
5% HCl

LOQ Check Base SPIKE PREPARATION 3010 Diss. **2x**
Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	4	M9052	1000	0.2
Al	8.2	M8967	**10000**	0.041
Ba	2.4	M8959	1000	0.12
Be	0.72	M9334	1000	0.036
Cd	1.42	M9055	1000	0.071
Co	1.8	M9299	1000	0.09
Cr	4.2	M9273	1000	0.21
Cu	8.8	M8961	**10000**	0.044
Mg	12.2	M9218	**10000**	0.061
Mn	4.2	M9332	1000	0.21
Mo	2.2	M9302	1000	0.11
Ni	5.6	M9274	1000	0.28
Pb	11.6	M8965	**10000**	0.058
Sb	19.8	M9053	1000	0.99
V	2.8	M9056	1000	0.14
Zn	4.8	M9276	1000	0.24
K	1860	M9222	**10000**	9.3
Na	460	M9280	**10000**	2.3
B	22	M9140	1000	1.1
Si	38	M9121	1000	1.9
As	50	M9058	1000	2.5
Ca	34	M8964	**10000**	0.17
Fe	13	M9219	**10000**	0.065
Se	15.6	M9054	1000	0.78
Tl	18	M9333	1000	0.9

of This base standard, pipet 10mls into 500 mL Volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp

#M9441 03/04/10
AMA 5% HNO_3

LOQ Check Base SPIKE PREPARATION 3050 0.5 **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	5.2	M9278	1000	0.26
Sn	6.8	M9281	**1000**	0.34
Sr	11	M9300	1000	0.55
Ti	3.8	M9277	1000	0.19
W	30	M9275	1000	1.5

of This base standard, pipet 10mls into 500mL volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp 12/15/10

#M9444 03/04/10
AMA 5% HNO_3

#M9442 03/04/10
AMA 5% HNO_3

MDL Check Base SPIKE PREPARATION 3010 **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	1	M9278	1000	0.05
Sn	0.81	M9281	**1000**	0.0405
Sr	2	M9300	1000	0.1
Ti	1	M9277	1000	0.05
W	4	M9275	1000	0.2

of This base standard, pipet 10mls into 500mL volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp 12/15/10

#M9445 03/04/10
AMA 5% HNO_3

#M9443 03/04/10
AMA 5% HNO_3

LOQ Check Base SPIKE PREPARATION 3010 **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	3.6	M9278	1000	0.18
Sn	6	M9281	**1000**	0.3
Sr	6.8	M9300	1000	0.34
Ti	3.6	M9277	1000	0.18
W	28	M9275	1000	1.4

of This base standard, pipet 10mls into 500mL volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp. 12/15/10

#M9446 03/05/10
AMA 5% HNO_3
5% HCl

LOC

#M9438 03/04/10
AMA 5% HNO_3

LOQ Check Base SPIKE PREPARATION 3050 2.0 2x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	3.6	m9278	1000	0.18
Sn	6.2	m9281	**1000**	0.31
Sr	1.48	m9300	1000	0.074
Ti	5.2	m9277	1000	0.26
W	28	m9275	1000	1.4

of This base standard, pipet 10mls into 500mL volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp 12/15/10

#M9439 03/04/10
AMA 5% HNO_3

LOD Check Base SPIKE PREPARATION 3050 2.0 2x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	1	m9278	1000	0.05
Sn	2	m9281	**1000**	0.1
Sr	0.44	m9300	1000	0.022
Ti	1.6	m9277	1000	0.08
W	8	m9275	1000	0.4

of This base standard, pipet 10mls into 500mL volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp 12/15/10

#M9440 3/4/10
AMA 5% HNO_3

MDL Check Base SPIKE PREPARATION 3050 0.5 2x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	1.6	M9278	1000	0.08
Sn	2	M9281	**1000**	0.1
Sr	3.2	M9300	1000	0.16
Ti	1.2	M9277	1000	0.06
W	8	M9275	1000	0.4

of This base standard, pipet 10mls into 500mL volumetric to create a working standard or 1mL into 50mL digestion tube for a digested working standard. Exp 12/15/10

#M9431 03/02/10 AMA — 1% conc HNO3 + 1% conc HCL 3/2/10 AMA

LOQ Check Base SPIKE PREPARATION 3050 0.5 **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	4.8	M9052	1000	0.24
Al	10	M8967	**10000**	0.05
Ba	3.34	M8959	1000	0.167
Be	1.1	M9334	1000	0.055
Cd	0.8	M9055	1000	0.04
Co	2	M9299	1000	0.1
Cr	5.2	M9273	1000	0.26
Cu	10.6	M8961	**10000**	0.053
Mg	114	M9218	**10000**	0.57
Mn	9.4	M9332	1000	0.47
Mo	4.2	M9302	1000	0.21
Ni	3.6	M9274	1000	0.18
Pb	8.2	M8965	**10000**	0.041
Sb	22	M9053	1000	1.1
V	3.4	M9056	1000	0.17
Zn	4	M9276	1000	0.2
K	460	M9222	**10000**	2.3
Na	340	M9280	**10000**	1.7
B	40	M9140	1000	2
~~Si~~	~~620~~	~~M9121~~	~~1000~~	~~31~~ 03/02/10 AMA
As	24	M9058	1000	1.2
Ca	48	M8964	**10000**	0.24
Fe	52	M9219	**10000**	0.26
Se	20	M9054	1000	1
Tl	14	M9333	1000	0.7

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9438 03/04/10 AMA 5% HNO_3

#M9439 03/04/10 AMA 5% HNO_3

#M9440 3/4/10 AMA 5% HNO_3

#M9432 03/04/10 CAE — Hg Working Stds: (0.2% HNO_3, HCl)
- 1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9433 03/04/10 CAE — Hg Alt Source Working Std: (0.2% HNO_3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9434 03/04/10 CAE — Hg ICV / LCSW (0.2% HNO_3, HCl)
- 3.0ml of 100ug/L Hg (#M9433) into 100ml = 3.0ug/L Hg

#M9435 03/04/10 CAE — Hg CCV (0.2% HNO_3, HCl)
- 1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M9436 03/04/10 CAE — Hg MRL: (0.2% HNO_3, HCl)
- 0.2ml of 100ug/L Hg (#M9433) into 100ml = 0.2ug/L Hg

#M9437 03/04/10 CAE — Hg Aqua Regia Reagent:
- "Carefully" in hood, mix 3 parts HCl (AB: 475) with 1part HNO_3 (AB: 483)

#M9426 03/02/10 Be working std. Pipet 1.0mL of 1,000mg/L Be (#M9334) into a 100mL vol. flask.
AMA (1% HNO_3, HCl) Bring up to volume with D.I. H_2O. Exp. 01/15/2011

#M9427 03/02/10 Cd working std. Pipet 1.0mL of 1,000mg/L Cd (#M9055) into a 100mL vol. flask.
AMA (1% HNO_3, HCl) Bring up to volume with D.I. H_2O. Exp. 6/30/10

#M9428 03/02/10 Cu working std. Pipet 1.0mL of 10,000mg/L Cu (#M8941) into a 100mL vol. flask.
AMA (1% HNO_3, HCl) Bring up to volume with D.I. H_2O. Exp. 5/15/10

#M9429 03/02/10 Mg working std. Pipet 1.0mL of 10,000 mg/L Mg (#M9218) into a 100mL vol. flask.
AMA (1% HNO_3, HCl) Bring up to volume with D.I. H_2O. Exp. 10/15/10

#M9430 03/02/10
AMA 1% 10% HNO_3
1% 10% HCl
3/2/10 AMA

MDL Check Base SPIKE PREPARATION 305 0.5 **2x**

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	1.4	M9052	1000	0.07
Al	4	M8967	**10000**	0.02
Ba	1	M8959	1000	0.05
Be	0.34	M9334	1000	0.017
Cd	0.2	M9055	1000	0.01
Co	0.6	M9299	1000	0.03
Cr	1.6	M9273	1000	0.08
Cu	3.2	M8961	**10000**	0.016
Mg	34	M9218	**10000**	0.17
Mn	2.8	M9332	1000	0.14
Mo	1.2	M9302	1000	0.06
Ni	1.2	M9274	1000	0.06
Pb	2.4	M8965	**10000**	0.012
Sb	6	M9053	1000	0.3
V	1	M9056	1000	0.05
Zn	2	M9276	1000	0.1
K	140	M9222	**10000**	0.7
Na	100	M9280	**10000**	0.5
B	12	M9140	1000	0.6
Si	186	M9121	1000	9.3
As	8	M9058	1000	0.4
Ca	14	M8964	**10000**	0.07
Fe	16	M9219	**10000**	0.08
Se	6	M9054	1000	0.3
Tl	4	M9333	1000	0.2

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M9415 03/01/10 GJE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg	#M9426 03/02/ AMA #M9427 03/02/ AMA
#M9416 03/01/10 GJE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg	#M9428 03/02/ AMA
#M9417 03/01/10 GJE	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9416) into 100ml = 3.0ug/L Hg	#M9429 03/02/1 AMA
#M9418 03/01/10 GJE	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg	#M9430 03/02/1 AMA 1% 1030 HNO 1% 1070 HCL 3/2/10 AMA
#M9419 03/01/10 GJE	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 9416) into 100ml = 0.2ug/L Hg	
#M9420 03/01/10 GJE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 475) with 1part HNO3 (AB: 482)	

#M9421 03/01/10 GJE Potassium Permanganate Soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL Milli-Q H_2O Exp. 09/01/10

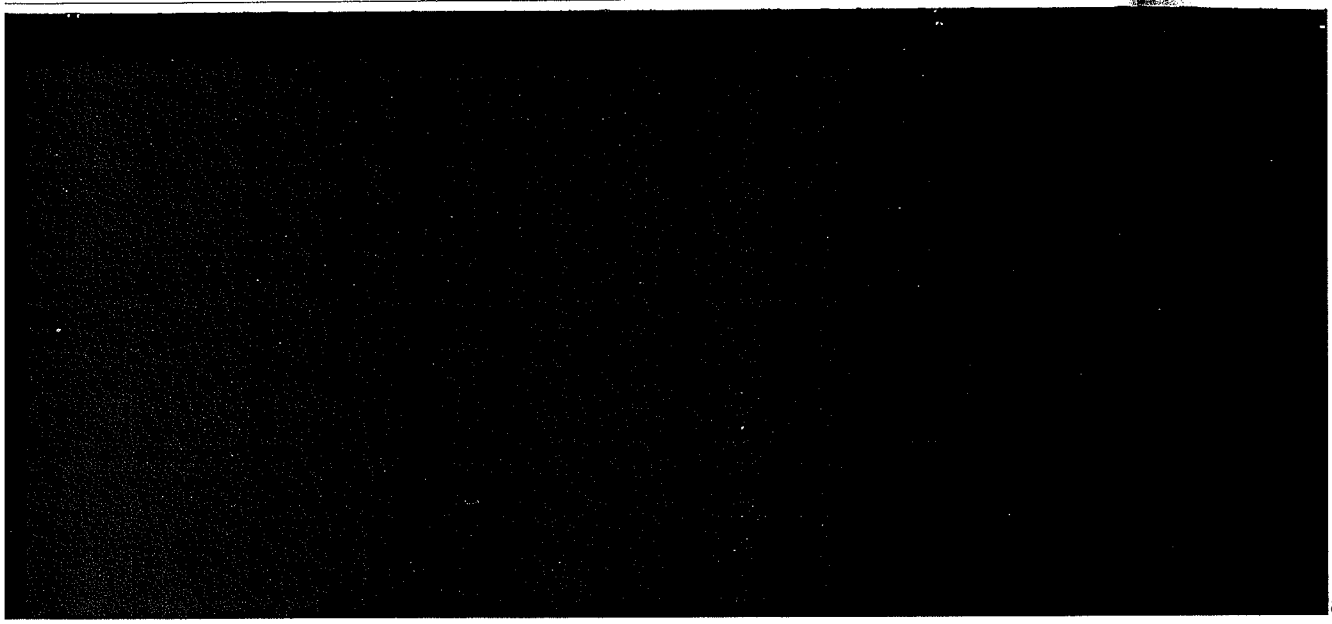
#M9422 03/01/10 GJE, GEM CCV Std (1% HNO_3) Pipet 80mL of #M9236 into a 200mL Vol. flask and bring up to volume with Milli-Q H_2O. Exp. 04-01-10

9423 03/01/10 ISF NaCl Hydroxylamine Sulfate Reagent - Dissolve 60g NaCl (#M8080Z a) 03/01/10 ISF and 60g ~~Hydroxylamine~~ Hydroxylamine Sulfate 03/01/10 ISF (#M9424) in 500mL Milli-Q H_2O. Exp 09/01/10

19424 03/01/10 ISF ICP Spiking Solution (24 mins.) (1% HNO_3) Expires: 05/15/2010 Into a 250mL Vol. Flask pipet the following and bring up to volume w/ DI H_2O
0.5mL of 1,000 mg/L Be (#M9334)
10 mL of 10,000 mg/L Cu (#M8961)
5mL of 1,000 mg/L Ni (#M9274)
10mL of 10,000 mg/L Zn (#M9963)

19425 03/02/10 AMA AL Working Std. (1% HNO_3, HCl) Pipet 1.0mL of 10,000 mg/L AL (#M8967) into a 100mL vol. flask. Bring up to volume with D.I. H_2O. Exp. 5/15/10

3/10



#M9404 ICSA. Dump 500mL Vol flask pipet 25mls #M9212 7.5mls of #M9219 Bring up to mark with DI H_2O. SK 10/10
5% HCl
5% HNO_3

#M9405 02/18/10 GE Tin (II) Chloride Dihydrate Fisher Lot No. 093481 500g
f.w. 225.65

#M9406 02/21/10 AmA TCLP Extraction Fluid #1 - Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB: 468) and 128.6mL 10N NaOH (#M9033). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 02/21/11

#M9407 02/22/10 GE Potassium Persulfate: 50g Potassium Persulfate (#M9010) dissolved into 1000mL D.I. H_2O. Exp. 08/22/10

#M9408 02/22/10 GE	Hg Working Stds: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9409 02/22/10 GE	Hg Alt Source Working Std: (0.2% HNO_3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9410 02/22/10 GE	Hg ICV/CCV/LCSW: (0.2% HNO_3, HCl)	3.0ml of 100ug/L Hg (#M9409) into 100ml = 3.0ug/L Hg
#M9411 02/22/10 GE	Hg MRL:	0.2ml of 100ug/L Hg (#M9409) into 100ml = 0.2ug/L Hg
#M9412 02/22/10 GE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 475) with 1part HNO_3 (AB: 482)

#M9413 02/22/10 GE Hg Soil MDL/LOQ Spiking Solution: Pipet 10mL of 100 µg/L Hg (#M9409) into a 100mL Vol. flask = 10 µg/L Hg
(0.2% HNO_3, HCl)

#M9414 2-23-10 ICSA (ICP) Dump 500ml Vol flask pipet 50mls of M9219. 7.5mls of #M9219 Bring up to mark with DI H_2O.
5% HNO_3
5% HCl.

M9399 2-9-10
5% HNO3
5% HCl
LOQ Base std
3050

LOQ Check Base SPIKE PREPARATION 3050 2X calculated LOQ

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOQ (ug/L)	Std Concmount (mL) to (mg/L)	pipet into 1 L	
Ag	M9052	4.4	1000	0.22	
Al	M8967	10	10000	0.05	
As	M9058	36	1000	1.8	
Ba	M8959	2.2	1000	0.11	
Be	M9334	0.98	1000	0.049	
Ca	M8964	38	10000	0.19	
Cd	M9055	1.6	1000	0.08	
Co	M9299	4	1000	0.2	
Cr	M9273	6	1000	0.3	
Cu	M8961	16	10000	0.08	
Fe	M9219	82	10000	0.41	
Mg	M9218	32	10000	0.16	
Mn	M9332	4.2	1000	0.21	
Mo	M9302	3.8	1000	0.19	
Ni	M9274	4.8	1000	0.24	
Pb	M8965	12	10000	0.06	
Sb	M9053	22	1000	1.1	
Se	M9054	16	1000	0.8	
Tl	M9333	12	1000	0.6	
V	M9056	2	1000	0.1	
Zn	M9276	10	1000	0.5	
Na	M9280	1000	10000	5	
K	M9222	2800	10000	14	
B	M9140	58	1000	2.9	
Si	M9121	108	1000	5.4	10 mls into 500 or 1ml into 50mls

Exp.4/1/2010

M9400 2-9-10
5% HNO3
5% HCl
MDL (working) Check Std 3050 into 500 ml Vol flask pipet 10mls #M9398. Brings up to mark with DI H_2O. ok 4/10

#M9401 2-9-10
5% HNO3
5% HCl
LOQ (working) Check Std 3050 into 500 ml Vol flask pipet 10mls #M9399 Brings up to mark with DI H_2O. ok 4/10

#M9402 2-18-10
5% HNO3
5% HCl
ICSAB Na, K into ~~500~~ 250 ml Vol flask Pipet ~~25~~ 50 mls of ~~#M9219~~ #M9212, ~~25~~ 75 mls of #M9219 + 25 mls of #M9058 #M9060 brings up to mark with DI H_2O. ok 6/10

#M9403 2-18-10
5% HNO3
5% HCl
MRL (working) ICP DOD Dil 500 ml Vol flask pipet 10mls of #M9338 ~~of~~ then Brings up to Volume ok 5/10

#M9404 ICSA
5% HCl
5% HNO3

#M9405 02/18/10 Tin C
GE f.w.

#M9406 02/21/10 ICP E
ANA

#M9407 02/22/10 Potas
GE

#M9408 02/22/10 Hg
GE (0.

#M9409 02/22/10 Hg
GE (0.

#M9410 02/22/10 Hg
GE (0.

#M9411 02/22/10 Hg
GE

#M9412 02/22/10 Hg
GE

#M9413 02/22/10 Hg Sa
GE Lo

#M9414 2-23-10
5% HNO3
5% HCl.

ipet the
ne with D.I.

= 40 µg/L Tl
) = 40 µg/L Pb
) = 2 µg/L Ag

pipet the
volume with
-10
#M9333) = 130 µg/L Tl
#M9377) = 130 µg/L Pb
M9376) = 6.3 µg/L Ag

10mls of
DI H2O
ex 4/10

Base

#M9396 LOQ Check
5% HCL 2-8-10
5% HNO3

LOQ Check Base SPIKE PREPARATION 3010 2X

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOQ (ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L	
Ag	M9052	4	1000	0.2	
Al	M8967	26	10000	0.13	
As	M9058	26	1000	1.3	
Ba	M8959	1.8	1000	0.09	
Be	M9334	0.86	1000	0.043	
Ca	M8964	100	10000	0.5	
Cd	M9055	0.8	1000	0.04	
Co	M9299	8.6	1000	0.43	
Cr	M9273	4	1000	0.2	
Cu	M8961	7.6	10000	0.038	
Fe	M9219	58	10000	0.29	
Mg	M9218	22	10000	0.11	
Mn	M9332	4	1000	0.2	
Mo	M9302	2.4	1000	0.12	
Ni	M9274	4.2	1000	0.21	
Pb	M8965	9.8	10000	0.049	
Sb	M9053	28	1000	1.4	
Se	M9054	16	1000	0.8	
Tl	M9333	10	1000	0.5	
V	M9056	3.4	1000	0.17	
Zn	M9276	11.8	1000	0.59	
Na	M9280	680	10000	3.4	
K	M9222	1800	10000	9	
B	M9140	36	1000	1.8	
Si	M9121	118	1000	5.9	10 mls into 500

Exp.4/1/2010

#M9397 LOQ Check Into 500ml vol flask pipet 10 mls of #M9396.
2-9-10 Bring up to mark w. DI H2O.
5% HCL
5% HNO3

#M9398 MDL V 3050. Base std
5% HCL
5% HNO3 2-9-10

MDL Check Base SPIKE PREPARATION for 3050 2X

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log Book Number & Expire Date	MDL (ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L	
Ag	M9052, 6/30/10	1.4	1000	0.07	
Al	M8967, 5/15/10	2	10000	0.01	
As	M9058, 6/30/10	10	1000	0.5	
Ba	M8959, 5/15/10	0.6	1000	0.03	
Be	M9334, 1/15/11	0.3	1000	0.015	
Ca	M8964, 5/15/10	12	10000	0.06	
Cd	M9055, 6/30/10	0.6	1000	0.03	
Co	M9299, 12/30/10	1.2	1000	0.06	
Cr	M9273, 12/15/10	2	1000	0.1	
Cu	M8961, 5/15/10	4.8	10000	0.024	
Fe	M9219, 10/15/10	24	10000	0.12	
Mg	M9218, 10/15/10	10	10000	0.05	
Mn	M9332, 1/15/11	1.2	1000	0.06	
Mo	M9302, 12/30/10	1.2	1000	0.06	
Ni	M9274, 12/15/10	1.4	1000	0.07	
Pb	M8965, 5/15/10	4	10000	0.02	
Sb	M9053, 6/30/10	6	1000	0.3	
Se	M9054, 6/30/10	6	1000	0.3	
Tl	M9333, 1/15/11	4	1000	0.2	
V	M9056, 6/30/10	0.8	1000	0.04	
Zn	M9276, 12/15/10	2	1000	0.1	
Na	M9280, 12/15/10	400	10000	2	
K	M9222, 10/30/10	800	10000	4	
B	M9140, 8/30/10	18	1000	0.9	10mls into 500 of 1 ml into 50
Si	M9121, 4/1/10	32	1000	1.6	of 1ml into 50

Expires 4/1/2010

U:\5700\15F

KAT #M9392 02/17/10 3020 GFAA LOQ Spiking Solution (1% HNO3) Into a 500 mL Vol. Flask, pipet the following and bring up to volume with D.I. H2O. Exp. 05-05-10
GVE
0.02 mL of 1,000 mg/L Tl (#M9333) = 40 µg/L Tl
0.2 mL of 100 mg/L Pb (#M9377) = 40 µg/L Pb
0.1 mL of 10 mg/L Ag (#M9376) = 2 µg/L Ag

#M9393 02/17/10 3020 GFAA LOQ Spiking Solution: Into a 500 mL Vol. Flask, pipet the following and bring up to volume with D.I. H2O. Exp. 05-05-10
GVE (1% HNO3)
0.065 mL of 1000 mg/L Tl (#M9333) = 130 µg/L Tl
0.65 mL of 100 mg/L Pb (#M9377) = 130 µg/L Pb
0.315 mL of 10 mg/L Ag (#M9376) = 6.3 µg/L Ag

#M9394 MDL Check 3010 Base 2-08-10
5% HNO3
5% HCl

MDL Check Base SPIKE PREPARATION for 3010 2X calced mdl

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log Book Number & Expire Date	MDL (ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	M9052, 6/30/10	2	1000	0.1
Al	M8967, 5/15/10	8	10000	0.04
As	M9058, 6/30/10	8	1000	0.4
Ba	M8959, 5/15/10	0.6	1000	0.03
Be	M9334, 1/15/11	0.26	1000	0.013
Ca	M8964, 5/15/10	30	10000	0.15
Cd	M9055, 6/30/10	0.2	1000	0.01
Co	M9299, 12/30/10	2.6	1000	0.13
Cr	M9273, 12/15/10	2	1000	0.1
Cu	M8961, 5/15/10	2.4	10000	0.012
Fe	M9219, 10/15/10	18	10000	0.09
Mg	M9218, 10/15/10	6	10000	0.03
Mn	M9332, 1/15/11	2	1000	0.1
Mo	M9302, 12/30/10	0.8	1000	0.04
Ni	M9274, 12/15/10	1.2	1000	0.06
Pb	M8965, 5/15/10	3	10000	0.015
Sb	M9053, 6/30/10	8	1000	0.4
Se	M9054, 6/30/10	4	1000	0.2
Tl	M9333, 1/15/11	4	1000	0.2
V	M9056, 6/30/10	1	1000	0.05
Zn	M9276, 12/15/10	3.6	1000	0.18
Na	M9280, 12/15/10	200	10000	1
K	M9222, 10/30/10	600	10000	3
B	M9140, 8/30/10	10	1000	0.5
Si	M9121, 4/1/10	36	1000	1.8

ex 4/10

10 ml into 500 ml

#M9395 MDL Check Std
5% HNO3 2-9-10
5% ~~HNO3~~ HCl
2-8-10

Into 500 mL Vol flask pipet 10mls of #M9394 Brng up to mark with DI H2O
ex 4/10

#M9396 LOQ Ch
5% HCl 2-8
5% HNO3

#M9397 LOQ Ch
2-9-10
5% HCl
5% HNO3

#M9398 MDL
5% HCl
5% HNO3 2-

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M9381 02/10/10 GFAA DOD LOQ Spiking Soln: Into a 1L Vol. Flask, pipet the following and then
GVE (1% HNO3) bring up to volume with D.I. H2O.
Exp. 05-15-10 2.1mL of 10mg/L Ag (#M9376) = 21µg/L Ag
0.19mL of 1000mg/L Sb (#M9053) = 190µg/L Sb
0.52mL of 1000mg/L Se (#M9054) = 520µg/L Se
0.16mL of 1000mg/L Tl (#M9333) = 160µg/L Tl
1.3mL of 100mg/L Pb (#M9377) = 130µg/L Pb
0.54mL of 1000mg/L As (#M9058) = 540µg/L As

M9382 02/15/10 Potassium Permanganate Soln: 50g Potassium Permanganate (#M9869) dissolved
GVE into 1000mL Mi.Li.Q H2O. Exp. 08-15-10

M9383 02/15/10 GVE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
M9384 02/15/10 GVE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
M9385 02/15/10 GVE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9384) into 100ml = 3.0ug/L Hg
M9386 02/15/10 GVE	Hg MRL:	0.2ml of 100ug/L Hg (#M9384) into 100ml = 0.2ug/L Hg
M9387 02/15/10 GVE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 471) with 1part HNO3 (AB: 476)

M9388 02/15/10 MDL ✓ Water Hg - Into a 100mL Vol. flask, pipet 0.04mL of 100µg/L Hg
GVE (0.2% HNO3, HCl) (#M9384) and bring up to volume with D.I. H2O. Exp 02-15-11

M9389 02/15/10 LOQ ✓ Water Hg - Into a 100mL Vol. Flask, pipet 0.14mL of 100µg/L Hg
GVE (0.2% HNO3, HCl) (#M9384) and bring up to volume with D.I. H2O.

M9390 02/15/10 Hg Soil MDL Spiking Soln: Pipet 10mL of 100µg/L (#M9384 #M9767) into a 100mL
GVE (0.2% HNO3, HCl) Vol. Flask = 10µg/L Hg 02/15/10 GVE

M9391 02/15/10 TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H2O. Add 114mL Glacial
GVE Acetic Acid (AB. 468) and 128.6mL 10N NaOH (#M9033).
Dilute to 20L with D.I. H2O and mix. The pH = 4.93 ± 0.05.

3-3-10

3-3-10

olve 100g Stannous
HCL (AB·471).
Exp. 02/04/11

19052) into a 100 mL
ith D.I. H2O.

(#M8965) into a 100mL
with D.I. H2O.

the following
e with D.I. H2O.:
µg/L Ag
µg/L Sb
60µg/L Se
50µg/L Tl
10µg/L Pb
140µg/L As

llowing and then
):
/L Ag
g/L Sb
µg/L Se
µg/L Tl
µg/L Pb
0µg/L As

he following and then
I. H2O:
/L Ag
µg/L Sb
0µg/L Se
50µg/L Tl
10µg/L Pb
160µg/L As

3-3-10

#M9373 02/03/10 Calcium 10,000 mg/L Spex CertiPrep Lot No. AC 11-223CA
GUE Expires: 01-30-11

#M9374 02/03/10 Aluminum 10,000 mg/L Spex CertiPrep Lot No. Z-11-219AL
GUE Expires: 01-30-11

#M9375 02/04/10 Stannous Chloride Reagent: Into a 1000 mL Vol. Flask, dissolve 100g Stannous Chloride (#M9130a) in 70 mL HCL (AB-471). Bring up to mark with D.I. H_2O. Exp. 02/04/11
GUE

#M9376 02/10/10 GFAA Ag Working Std. (1% HNO_3) Pipet 1.0mL of 1000 mg/L Ag (#M9052) into a 100 mL Vol. flask. Bring up to volume with D.I. H_2O. Exp. 06-30-10
GUE

#M9377 02/10/10 GFAA Pb Working Std. (1% HNO_3) Pipet 1.0mL of 10,000 mg/L ~~Ag~~ Pb (#M8965) into a 100 mL Vol. flask. Bring up to volume with D.I. H_2O. Exp. 05-15-10
GUE (2/10/10 GUE)

#M9378 02/10/10 GFAA MDL✓ Spiking Soln: Into a 1L Vol. flask, pipet the following and then bring up to volume with D.I H_2O.:
GUE (1% HNO_3) Exp. 05-15-10
0.7mL of 10mg/L Ag (#M9376) = 7 µg/L Ag
0.04mL of 1000 mg/L Sb (#M9053) = 40 µg/L Sb
0.16mL of 1000 mg/L Se (#M9054) = 160 µg/L Se
0.05mL of 1000 mg/L Tl (#M9333) = 50 µg/L Tl
0.6mL of 100 mg/L Pb (#~~M9965~~ M9377) = 60 µg/L Pb (2/10/10 GUE)
0.14mL of 1000 mg/L As (#M9058) = 140 µg/L As

#M9379 02/10/10 GFAA LOQ Spiking Soln: Into a 1L Vol. flask, pipet the following and then bring up to volume with D.I. H_2O:
GUE (1% HNO_3) Exp. 05-15-10
2.3mL of 10mg/L Ag (#M9376) = 23 µg/L Ag
0.14mL of 1000 mg/L Sb (#M9053) = 140 µg/L Sb
0.55mL of 1000 mg/L Se (#M9054) = 550 µg/L Se
0.18mL of 1000 mg/L Tl (#M9333) = 180 µg/L Tl
2.0mL of 100 mg/L Pb (#M9377) = 200 µg/L Pb
0.47mL of 1000 mg/L As (#M9058) = 470 µg/L As

#M9380 02/10/10 GFAA DOD MDL✓ Spiking Soln: Into a 1L Vol. flask, pipet the following and then bring up to volume with D.I. H_2O:
GUE (1% HNO_3) Exp. 05-15-10
0.6mL of 10mg/L Ag (#M9376) = 6 µg/L Ag
.06mL of 1000 mg/L Sb (#M9053) = 60 µg/L Sb
0.16mL of 1000 mg/L Se (#M9054) = 160 µg/L Se
0.05mL of 1000 mg/L Tl (#M9333) = 50 µg/L Tl
0.4mL of 100 mg/L Pb (#M9377) = 40 µg/L Pb
0.16mL of 1000 mg/L As (#M9058) = 160 µg/L As

#M9381 02
GUE

#M9361 01/27/10 GVE — NaCl Hydroxylamine Sulfate Reagent - Dissolve 60g NaCl (#M9282a) and 60g Hydroxylamine Sulfate (#M9574) in 500mL Milli-Q H_2O. Exp. 07/27/10

#M9362 01/28/10 GVE — Pd/Mg Matrix Modifier: Into a 50 mL Vol. flask, pipet 15mL #M9346 and 5mL of #M9301. Bring up to volume with Milli-Q H_2O. Exp. 12-30-10

#M9363 01/29/10 GVE — Fisherbrand 101-1000µL Redi-Tip Pipet Tips Fisher Scientific Lot No. 09411558

#M9364 02/02/10 AMA — SPLP Extraction Fluid #1 - Into a 20L carboy, add D.I. H_2O to mark, and adjust pH to 4.20 ± 0.05 with M8367. Exp. 02/02/11

#M9365 02/02/10 AMA — TCLP Extraction Fluid #1 - Fill a 20L carboy with 19L D.I. H_2O. Add 11.4mL Glacial Acetic Acid (AB: 408) and 128.6mL 10N NaOH (#M9033). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 02/02/11

#M9366 02/02/10 GVE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9367 02/03/10 GVE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9368 02/03/10 GVE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9367) into 100ml = 3.0ug/L Hg
#M9369 02/03/10 GVE	Hg MRL:	0.2ml of 100ug/L Hg (#M 9367) into 100ml = 0.2ug/L Hg
#M9370 02/03/10 GVE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 471) with 1part HNO3 (AB: 476)

#M9371 02/03/10 GVE — Hg Soil MDL Spiking Solution: 0.2% HNO_3, HCl — Pipet 10mL of 100µg/L (#M9361) into a 100 mL Vol. Flask = 10µg/L Hg

#M9372 02/03/10 GVE — Hg Water MDL Study: 0.2% HNO_3, HCl — Pipet 5mL of (#M9371) 10µg/L Hg into a 500 mL Vol. Flask = 0.1µg/L Hg

#M9349 1/18/10 AmA — Hg Working Stds: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9350 1/18/10 AmA — Hg Alt Source Working Std: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9351 1/18/10 AmA — Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)
- 3.0ml of 100ug/L Hg (#M 9350) into 100ml = 3.0ug/L Hg

#M9352 1/18/10 AmA — Hg MRL:
- 0.2ml of 100ug/L Hg (#M 9350) into 100ml = 0.2ug/L Hg

#M9353 3 1/18/10 AmA 1/18/10 AmA — Hg Aqua Regia Reagent:
- "Carefully" in hood, mix 3 parts HCl (AB: 471) with 1part HNO3 (AB: 476)

#M9354 01/18/10 GvE — Potassium Permanganate Sol'n: 50g Potassium Permanganate (#M8169) dissolved into 1000mL Milli-Q H_2O. Exp. 07/18/10

#M9355 01/21/10 AmA — Tclp Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB-418) and 128.6mL 10N NaOH (#M9033). Dilute to 20L with D.I. H_2O and mix. The pH= 4.93 ± 0.05

#M9356 01/27/10 GvE — Hg Working Stds: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9357 01/27/10 GvE — Hg Alt Source Working Std: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9358 01/27/10 GvE — Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)
- 3.0ml of 100ug/L Hg (#M9357) into 100ml = 3.0ug/L Hg

#M9359 01/27/10 GvE — Hg MRL:
- 0.2ml of 100ug/L Hg (#M9357) into 100ml = 0.2ug/L Hg

#M9360 01/27/10 GvE — Hg Aqua Regia Reagent:
- "Carefully" in hood, mix 3 parts HCl (AB: 471) with 1part HNO3 (AB: 476)

#M9361
#M9362
#M9363
#M9364
#M9365 AM
#M9366 GvE
#M9367 GvE
#M9368 GvE
#M9369 GvE
#M9370 GvE
#M9371 GvE
#M9372

pipet
up to volume
-10

#M9340 1/11/2010 AMA

Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9341 1/11/2010 AMA

Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

-2)
olume with DI
ug/L Pb H2O.

#M9342 1/11/2010 AMA

Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M9341) into 100ml = 3.0ug/L Hg

up to
Ag and

#M9343 1/11/2010 AMA

Hg MRL:
0.2ml of 100ug/L Hg (#M9341) into 100ml = 0.2ug/L Hg

#M9344 1/11/2010 AMA

Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 471) with 1part HNO3 (AB: 474)

#M9345 1/12/2010 Tclp Extraction Fluid #2: Into a 20L carboy, pipet 114mL Glacial Acetic Acid (AB:468) and dilute to 20L with D.I. H_2O. The pH= 2.88 ± 0.05 Exp. 1/12/2011
AMA

#M9346 01/8/10 (14 01/14/10 GJE) Matrix Modifier 1% Pd in 8% (wt/wt) HNO_3 + Tr HCl
GJE Env. Express Lot No. 091705 Exp. 01-08-11

#M9347 01/14/10 Pd/Mg Matrix Modifier: Into a 50mL Vol. Flask, pipet 15mL #M9346 and 5mL of #M9301. Bring up to volume with Milli. Q H_2O. Exp. 12-30-10
GJE

#M9348 01/15/10 GFAA Dissolved MDL Study: Into a 1L Vol. Flask, pipet 0.1mL of #M8880 & bring up to volume with D.I. H_2O. Exp 04-01-10
GJE

orking std.

#M9349 02/02/10 Sb GFAA Dissolved Study: Into a 50mL Vol. Flask, pipet 0.01mL of #M8880 and bring up to volume with D.I. H_2O. Exp 04-01-10
GJE

#M9336 01/07/10 3050 ICP MDL spiking Solution (D) - put into a 1,000mL flask, pipet the following and bring up to volume w/ D7 H_2O Exp: 02-15-10
LSt

0.01 Be 1,000 mg/L (#M8840)
0.04 Ba 1,000 mg/L (#M8959)
0.02 Cu 10,000 mg/L (#M8961)
0.1 Ni 1,000 mg/L (#M9274)
0.2 Zn 1,000 mg/L (#M9276)

#M9337 01/07/10 3020 GFAA MDL Study: Pipet 0.1mL of 10,000 mg/L Pb (#M8965), 0.1mL of 1,000 mg/L Ag (#M9052) and 1mL of 1,000 mg/L Tl (#M8344) into a 100mL vol. Flask. Bring up to volume with DI H_2O = 10,000 µg/L Pb, 1,000 µg/L Ag and 10,000 µg/L Tl. Pipet 0.1mL of 10,000 µg/L Pb, 1,000 µg/L Ag and 10,000 µg/L Tl into a 1000mL vol. flask. Bring up to volume with D.I. H_2O. Final concentration = 1 µg/L Pb, 0.1 µg/L Ag and 1 µg/L Tl.
AMA (1% HNO_3)

#M9338 1-8-10
2% HNO_3
5% HCl

MRL Check Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Log#	Analyte	(ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
M9052	Ag	20	1000	1
M8967	Al	400	10000	2
M9058	As	10	1000	0.5
M8959	Ba	10	1000	0.5
M9334	Be	4	1000	0.2
M8964	Ca	500	10000	2.5
M9055	Cd	5	1000	0.25
M9299	Co	10	1000	0.5
M9273	Cr	10	1000	0.5
M8961	Cu	10	10000	0.05
M9219	Fe	300	10000	1.5
M9218	Mg	500	10000	2.5
M9332	Mn	10	1000	0.5
M9302	Mo	10	1000	0.5
M9624	Ni	10	1000	0.5
M8965	Pb	10	10000	0.05
M9053	Sb	20	1000	1
M9054	Se	10	1000	0.5
M9333	Tl	20	1000	1
M9056	V	10	1000	0.5
M9276	Zn	10	1000	0.5
M9140	B	10	1000	0.5
M9121	Si	10	1000	0.5
M9278	Li	20	1000	1
M9281	Sn	10	1000	0.5
M9300	Sr	10	1000	0.5
M9277	Ti	10	1000	0.5
M9105	W	10	1000	0.5
M9280	Na	1000	10000	5
M9060	K	5000	10000	25

Bring up to mark with DI H2O.

Of this Base standard pipet 10 mls into 500 ml volumetric to create working std.

Expires 5-10

#M9339 - 1-8-2010 Chemware Ultra pure PTFE Boiling Stones
RA Batch A1675-9L007

#M9340

#M9341 1/1
AMA

#M9342 1/1
AMA

#M9343 1/1
AMA

#M9344 1/1
AMA

#M9345 1/1
AMA

#M9346 0
Ga

#M9347
GA

#M9348
G

#M9329 ICSA (ICP) Into 500 ml vol flask pipet 50mls of #M9212 Bring up to mark w/ DI H_2O.
1-5-10 — ox 10/10.
5% HNO_3
5% HCL

#M9330 3050 ICP MDL Spiking solution (A) - put into a 1000mL Flask, pipet the following and
01/06/10 (1% HNO_3) bring up to volume w/DI H_2O. Exp. 06/30/10

0.04mL As 1,000 mg/L (#M9058)
0.04mL Se 1,000 mg/L (#M9054)

#M9331 3050 ICP MDL Spiking Solution (B) - put into a 1,000mL flask, pipet the following and
01/06/10 (1% HNO_3) bring up to volume w/DI H_2O. Exp. 02/15/10

0.4mL B 1,000 mg/L (#M9140)
0.02mL Cd 1,000 mg/L (#M9055)
0.05mL Co 1,000 mg/L (#M9272)
0.1mL Mn 1,000 mg/L (#M8842)
0.05mL Mo 1,000 mg/L (#M9302)
0.05mL Ag 1,000 mg/L (#M9057)
0.04mL Sb 1,000 mg/L (#M9053)

#M9332 01/06/10 Manganese Standard 1,000 mg/L Spex CertiPrep Lot No. 15-91MN
GE Expires 01-15-11

#M9333 01/06/10 Thallium Standard 1,000 mg/L Spex Certiprep Lot No. 15-95TL
GE Expires 01-15-11

#M9334 01/06/10 Beryllium Standard 1,000 mg/L Spex CertiPrep Lot No. 15-127BE
GE Expires 01-15-11

#M9335 01/07/10 3050 ICP MDL Spiking solution (C) - put into a 1,000mL flask, pipet the
(1% HNO_3) following and bring up to volume w/DI H_2O.
Exp. 05/15/10

0.02 Al 10,000 mg/L (#M8967)
0.1 Cr 1,000 mg/L (#M9273)
0.01 Pb 10,000 mg/L (#M8965)
0.1 V 1,000 mg/L (#M9056)

#M9323 12/30/09
AMA

3050 QSM ICP MDL Spiking Solution: Into a 1L vol. flask, pipet the following and bring up to volume with D.I. H2O.
(1% HNO3,HCl) Exp: 4/2010

0.25ml Ag 1000mg/L (#M9052)
0.05ml Al 10,000mg/L (#M8967)
1ml As 1000mg/L (#M9058)
0.1ml Ba 1000mg/L (#M8959)
0.05ml Be 1000mg/L (#M8840)
0.25ml Ca 10,000mg/L (#M8964)
0.05ml Cd 1000mg/L (#M9055)
0.25ml Co 1000mg/L (#M9272)
0.25ml Cr 1000mg/L (#M9273)
0.05ml Cu 10,000mg/L (#M8961)
0.1ml Fe 10,000mg/L (#M9219)
0.25ml Mg 10,000mg/L (#M9218)
0.25ml Mn 1000mg/L (#M8842)
0.25ml Mo 1000mg/L (#M8843)
0.25ml Ni 1000mg/L (#M9274)
0.025ml Pb 10,000mg/L (#M8965)
1ml Sb 1000mg/L (#M9053)
1ml Se 1000mg/L (#M9054)
1ml Tl 1000mg/L (#M8844)
0.25ml V 1000mg/L (#M9056)
0.5ml Zn 1000mg/L (#M9276)
1ml B 1000mg/L (#M9140)
5ml Si 1000mg/L (#M9121)
10ml K 10,000mg/L (#M9222)
5ml Na 10,000mg/L (#M9280)

#M9324 12/30/09
AMA

3050 QSM ICP MDL Spiking Solution: Into a 1 L vol.flask, pipet the following and bring up to volume with D.I. H2O.
(1% HNO3, HCl) Exp: 4/2010

1ml Li 1000mg/L (#M9278)
0.5ml Sn 1000mg/L (#M9279)
0.0125ml Sr 1000mg/L (#M9300)
1ml Ti 1000mg/L (#M9277)
0.5ml W 1000mg/L (#M9275)

#M9325 12/30/09 Pd/Mg Matrix Modifier = Into a 50mL Vol. Flask, pipet 15mL # M8846 and 5mL of #M9301. Bring up to volume with MilliQ H_2O. Exp. 2-13-10
GAE

#M9326 1/4/2010 TCLP Extraction fluid #2 : Into a 20L carboy, pipet 114mL Glacial Acetic Acid (AB-4018) and dilute to 20L with D.I. H_2O. The pH= 2.88 ± 0.05
AMA Exp. 1/4/2011

#M9327 01/04/10 GFAA Base Std (25µg/L) (1% HNO_3, 6% HCl). Exp. 04/01/10 — Pipet 10mL of 100 µg/mL (#M8881) → 200mL = 5000 µg/L; 10mL of 5000 µg/L → 200mL = 250µg/L; 20mL of 250 µg/L → 200mL = 25µg/L
GAE

#M9328 01/04/10 GFAA Alt. Source Std (10µg/L) (1% HNO_3, 6% HCl) Exp. 04/01/10 — Pipet 10mL of 10 µg/mL (#M8880) → 100mL = 1000 µg/L; 10mL of 1000 µg/L Sb → 100mL = 100 µg/L Sb; 20mL of 100 µg/L Sb → 200mL = 10µg/L
GAE

#M9329
1-5-10
5% HN
5% HC

#M9330
01/06/10

#M9331
01/06/10

#M9332
GAE

#M9333
GAE

#M9334
GAE

#M9335

#M9316 12/29/09 Spike Sample Standard 1 Spex CertiPrep Lot No. 41-10 AS
Grk Expires 12-30-10

#M9317 12-29-09 List 2 stds (working) 2nd into (5) 1 Liter Vol flask pipet
5% HNO3
5% HCL
1 -> .01mls #M9298 & .001 mls #M9275, .001mls #M9279.
10 -> .1mls #M9298 & .01mls #M9275, .01mls #M9279.
100 -> 1.0mls #M9298 & .10mls #M9275, .10mls #M9279.
1000 -> 10.0mls #M9298 + 1.0mls #M9275, 1.0mls #M9279.
10,000 100mls #M9298 & 10mls #M9275, 10mls #M9279.
Bring up to mark with DI H_2O Ex Dec 15, 2010

#M9318 12-29-09 List 2 ICV/CCV/LCSW
5% HNO3
5% HCL
Into a Liter Volumetric flask pipet 0.5mls of #M9281, #M9105, #M9278, #M9277, #M9300 bring up to mark with DI H_2O. Ex Oct 2010.

#M9319 12-29-09 Boron + Silicon working stds into (6) 250ml
5% HNO3
5% HCL
Volumetric flasks pipet the following Respectfully.
10(B) -> .025mls of #M9188.
50(B) -> .125mls of #M9188.
100(Si), 200(B) -> 0.5mls of #M9188.
500(Si), 1000(B) -> 2.50mls of #M9188.
1000(Si), 2000(B) -> 5.0mls of #M9188.
5000(Si), 10,000(B) -> 25.0mls of #M9188
Bring up to mark with DI H_2O ex 9/2010

#M9320 12-29-09 Boron + Silicon ICV/CCV/LCSW into 1 Liter 12-29-09
250 ml Vol flask pipet 0.25mls #M9121, #M9140 Bring up to mark with DI H_2O ex 4/2010.

#M9321 12-15-09 ICV/LCSW/CCV DOD into 1 Liter Vol flask 5mls #M9220, 0.5mls M9121, #M9300, #M9278, 12-29-09 and #M9302, and M9140, #0.07mls #M9052, 2.0mls M9212 Bring up to mark with DI H_2O ex 4/2010.
5% HNO3
5% HCL

#M9322 ICV/LCSW/CCV DOD into 1 Liter vol flask Pipet 10mls #M9220
5% HNO3
5% HCL
2.0mls #M9212 and 0.5mls #M9302 #M9278 #M9121, #M9300 and #M9140 and .07mls #M9052 Bring up to mark with DI H_2O

04 4/2010

#M9308 12/29/09 LSF — 3051 Spiking Solution (1% HNO_3) Expires: ~~04/30/10~~ 12/29/09 LSF 05/15/10 — Into a 500mL Flask Pipet the following and ~~bring~~ 12/29/09 bring up to volume w/DI H_2O.
2.5mL Ag (#M9057) 1000 mg/L
50mL B (#M9140) 1000 mg/L
25mL Co (#M9299) 1000 mg/L
2.5mL Cd (#M9055) 1000 mg/L
0.5mL Sb (#M9053) 1000 mg/L
50mL Mo (#M9302) 1000 mg/L
50mL Mn (#M8966) 10,000 mg/L

#M9309 12/29/09 LSF — ICP spiking Solution (7min) (1% HNO_3) Expires: 05/15/10 — Into a 200mL Vol. Flask, pipet the following and bring up to volume w/DI H_2O
4.0mL of 1000 mg/L Cr (#M9273)
1mL of 10,000 mg/L Pb (#M8965)
10mL of 1,000 mg/L V (#M9056)

#M9310 12/29/09 LSF — ICP spiking solution (24min.) Expires 02/15/10 (1% HNO_3) — Into a ~~250~~ 12/29/09 LSF 250mL Vol. Flask pipet the following and bring up to volume w/DI H_2O
10mL of 1000 mg/L Ba (#M8959)
0.5mL of 1000mg/L Be (#M8840)
10mL of 10,000 mg/L Cu (#M8961)
5mL of 1000 mg/L Ni (#M9274)
10mL of 10,000 mg/L Zn (#M8963)

#M9311 12/29/09 AMA — Hg Working Stds: (0.2% HNO_3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9312 12/29/09 AMA — Hg Alt Source Working Std: (0.2% HNO_3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9313 12/29/09 AMA — Hg ICV/CCV/LCSW: (0.2% HNO_3, HCl)
3.0ml of 100ug/L Hg (#M9312) into 100ml = 3.0ug/L Hg

#M9314 12/29/09 AMA — Hg MRL:
0.2ml of 100ug/L Hg (#M9312) into 100ml = 0.2ug/L Hg

#M9315 12/29/09 AMA — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO_3 (AB: 467)

#M9316
#M9317
5% H
5% H
M9315
5% HNO_3
5% HCl
M931
5% HN
5% HCl
M93
M932
12-15
5% HNO_3
5% HCL
M9327
5% HNO_3
5% HCL

#M9304 12/28/09
AMA

3010 ICP MDL Spiking Solution: Into a 1000ml vol. flask, partially filled with D.I. H2O,
(1% HNO3, HCl) pipet the following then bring up to volume with D.I. H2O.
Exp: 4/2010

0.005ml Ag 1000mg/L (#M9052)
0.001ml Al 10,000mg/L (#M8967)
0.01ml As 1000mg/L (#M9058)
0.002ml Ba 1000mg/L (#M8959)
0.001ml Be 1000mg/L (#M8840)
0.005ml Ca 10,000mg/L (#M8964)
0.001ml Cd 1000mg/L (#M9055)
0.005ml Co 1000mg/L (#M9272)
0.005ml Cr 1000mg/L (#M9273)
0.0005ml Cu 10,000mg/L (#M8961)
0.002ml Fe 10,000mg/L (#M9219)
0.005ml Mg 10,000mg/L (#M9218)
0.005ml Mn 1000mg/L (#M8842)
0.005ml Mo 1000mg/L (#M8843)
0.005ml Ni 1000mg/L (#M9274)
0.001ml Pb 10,000mg/L (#M8965)
0.01ml Sb 1000mg/L (#M9053)
0.01ml Se 1000mg/L (#M9054)
0.01ml Tl 1000mg/L (#M8844)
0.005ml V 1000mg/L (#M9056)
0.0025ml Zn 1000mg/L (#M9276)
0.02ml B 1000mg/L (#M9140)
0.1ml Si 1000mg/L (#M9121)
0.1ml K 10,000mg/L (#M9222)
0.1ml Na 10,000mg/L (#M9280)

1/26AS

#M9305 12/28/09
AMA

3010 ICP MDL Spiking Solution: Into a 1000ml vol. flask, partially filled with D.I. H2O,
(1% HNO3, HCl) pipet the following then bring up to volume with D.I. H2O.
Exp: 4/2010

0.005ml Li 1000mg/L (#M9278)
0.02ml Sn 1000mg/L (#M9279)
0.01ml Sr 1000mg/L (#M9300)
0.02ml Ti 1000mg/L (#M9277)
0.01ml W 1000mg/L (#M9275)

1/30/10

#M9306 12/28/09
AMA

3050 ICP MDL Spiking Solution: Into a 1L vol. flask, pipet the following and bring up to volume with D.I. H2O.
(1% HNO3, HCl) Exp: 4/2010

1x Centipro
1/10

0.25ml Ag 1000mg/L (#M9052)
0.05ml Al 10,000mg/L (#M8967)
1ml As 1000mg/L (#M9058)
0.1ml Ba 1000mg/L (#M8959)
0.05ml Be 1000mg/L (#M8840)
0.25ml Ca 10,000mg/L (#M8964)
0.05ml Cd 1000mg/L (#M9055)
0.25ml Co 1000mg/L (#M9272)
0.25ml Cr 1000mg/L (#M9273)
0.025ml Cu 10,000mg/L (#M8961)
0.1ml Fe 10,000mg/L (#M9219)
0.25ml Mg 10,000mg/L (#M9218)
0.25ml Mn 1000mg/L (#M8842)
0.25ml Mo 1000mg/L (#M8843)
0.25ml Ni 1000mg/L (#M9274)
0.025ml Pb 10,000mg/L (#M8965)
1ml Sb 1000mg/L (#M9053)
1ml Se 1000mg/L (#M9054)
0.5ml Tl 1000mg/L (#M8844)
0.25ml V 1000mg/L (#M9056)
0.5ml Zn 1000mg/L (#M9276)
1ml B 1000mg/L (#M9140)
5ml Si 1000mg/L (#M9121)
5ml K 10,000mg/L (#M9222)
5ml Na 10,000mg/L (#M9280)

#M9307 12/28/09
AMA

3050 ICP MDL Spiking Solution: Into a 1L vol. flask, pipet the following and bring up to volume with D.I. H2O.
(1% HNO3,HCl) Exp: 4/2010

0.5ml Li 1000mg/L (#M9278)
0.5ml Sn 1000mg/L (#M9279)
0.125ml Sr 1000mg/L (#M9300)
1ml Ti 1000mg/L (#M9277)
0.5ml W 1000mg/L (#M9275)

~~#M9297 12/24/09~~ ANA

~~3010 ICP Dissolved MDL Spiking Solution: Into a 1000ml volumetric flask, partially filled with D.I. H2O,~~
(1% HNO3, HCl) pipet the following then bring up to volume with D.I. H2O.
Exp: 4/2010 12/28/09 ANA

0.005ml Li 1000mg/L (#M9278)
0.005ml Sn 1000mg/L (#M9279)
0.01ml Sr 1000mg/L (#M8736)
0.02ml Ti 1000mg/L (#M9277)
0.01ml W 1000mg/L (#M9275)

#M9304 12 ANA

#M9298 12-28-09 Quality Control Std 21 ~~Spex~~ #12-28-09 Spex Certiprep Lot# 4/1-26AS
12/30/10

#M9305 12/ ANA

#M9299 12-28-09 Cobalt 1000mg/L Spex Certiprep Lot# CL4-112CO
12-30-10

#M9300 12-28-09 Strontium 1000mg/L Spex Certiprep Lot# 15-92MO
~~#M9~~ ex 12/30/10

#M9301 12-28-09 Magnesium Nitrite Modifier Spex Certiprep Lot # 1-163MG2
ex 12/30/10

#M9306 12/2 ANA

#M9302 12-28-09 Molybdenum 1000mg/L Lot# ~~RLMO9~~ #12-28-09 15-92MO Spex Certiprep
ex 12/30/10

~~12/28/09~~ ANA
~~#M9~~ #M9303 12/28/09 ANA

3010 ICP Dissolved MDL Spiking Solution: Into a 1000ml volumetric flask, partially filled with D.I. H2O,
(1% HNO3, HCl) pipet the following then bring up to volume with D.I. H2O.
Exp: 4/2010

0.005ml Li 1000mg/L (#M9278)
0.005ml Sn 1000mg/L (#M9279)
0.01ml Sr 1000mg/L (#M9300)
0.02ml Ti 1000mg/L (#M9277)
0.01ml W 1000mg/L (#M9275)

#M9307 12/ ANA

#M9287 12/21/09 GAE — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9288 12/21/09 GAE — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9289 12/21/09 GAE — Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M 9288) into 100ml = 3.0ug/L Hg

#M9290 12/21/09 GAE — Hg MRL:
0.2ml of 100ug/L Hg (#M 9288) into 100ml = 0.2ug/L Hg

#M9291 12/21/09 GAE — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 467)

#M9292 12/21/09 LSF — TCLP Extraction Fluid #1: Fill a 20L Carboy w/ 11.9L DI H2O. Add 114mL Glacial Acetic Acid (AB.468) and 128.6mL 10N NaOH (#M9033) Dilute to 20mL w/ DI H2O and mix. The pH = 4.93 ± 0.05.

#M9293 12/21/09 GAE — NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9082(a)) & 60g Hydroxylamine Sulfate (#M9174) in 500mL Milli Q H2O. Exp. 6-21-10

#M9294 12/21/09 GAE — Potassium Permanganate Soln: 50g Potassium Permanganate (#M8869) dissolved into 1000mL Milli Q H2O. Exp. 06-21-10

#M9295 12/22/09 LSF — TCLP Extraction Fluid #1: Fill a 20L Carboy w/ 11.9L DI H2O. Add 114mL Glacial Acetic Acid (AB.468) and 128.6mL 10N NaOH (#M9033). Dilute to 20mL w/ DI H2O and mix. The pH = 4.93 ± 0.05.

#M9296 12/28/09 AMG — 3010 ICP Dissolved MDL Spiking Solution: (1% HNO3, HCl)
Into a 1000ml volumetric flask, partially filled with D.I. H2O, pipet the following then bring up to volume with D.I. H2O.
Exp: 4/2010

0.005ml Ag 1000mg/L (#M9052)	0.005ml Mo 1000mg/L (#M8843)
0.002ml Al 10,000mg/L (#M8967)	0.005ml Ni 1000mg/L (#M9274)
0.02ml As 1000mg/L (#M9058)	0.001ml Pb 10,000mg/L (#M8965)
0.002ml Ba 1000mg/L (#M8959)	0.02ml Sb 1000mg/L (#M9053)
0.001ml Be 1000mg/L (#M8840)	0.02ml Se 1000mg/L (#M9054)
0.002ml Ca 10,000mg/L (#M8964)	0.02ml Tl 1000mg/L (#M8844)
0.001ml Cd 1000mg/L (#M9055)	0.005ml V 1000mg/L (#M9056)
0.005ml Co 1000mg/L (#M9272)	0.0025ml Zn 1000mg/L (#M9276)
0.005ml Cr 1000mg/L (#M9273)	0.02ml B 1000mg/L (#M9140)
0.001ml Cu 10,000mg/L (#M8961)	0.1ml Si 1000mg/L (#M9121)
0.002ml Fe 10,000mg/L (#M9219)	0.1ml K 10,000mg/L (#M9222)
0.005ml Mg 10,000mg/L (#M9218)	0.1ml Na 10,000mg/L (#M9280)
0.005ml Mn 1000mg/L (#M8842)	

#M9284 AB-468, AB 953

12-15-09

ICAP Working Standards

DOD Cal

5% HNO3,5%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M8924(ex 4/10) and 1.0 mls of #M8739 (ex 4/10) into 1000 ml volumectric flask= 100 ug/L std
500	5.0 mls of #M8924(ex 4/10) and 5.0 mls of #M8739 (ex 4/10) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M8924(ex 4/10) and 10.0 mls of #M8739 (ex 4/10) into 1000 ml volumetric flask= 1000 ug/L std
10,000	100 ~~10.0~~ mls of #M8924(ex 4/10), 1.0 mls of #M8959 Ba (ex 5/10) 1.0 mls #M8841 B (ex 2/10), 0.10 mls #M8967 Al (ex 5/10) 12-15-09 into 1000 ml volumtric flask= 10000 ug/L std
100k	10 mls of #M8961 (Cu) (ex 2/10) , 10 mls of #M8966 (Mn)(ex 2/10) , 10 mls of #M8960 (Cr)(ex 2/10) , 10 mls #M8963 (Zn)(ex 2/10), 10 mls #M8965 (Pb)(ex 2/10) , 100 mls of #M8726 (Co)(ex 12/15/2010) into 1000 ml vol flask = 100K ug/l std
100,000	10 mls of #M8845 (Mg) (ex 2/10) , 10 mls of #M8962 (Fe) (ex 2/10) ,10 mls of #M8964 (Ca)(ex 2/10),10 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M8845 (Mg) (ex 2/10), 50 mls of #M8962 (Fe) (ex 2/10) ,50 mls of #M8964 (Ca)(ex 2/10), 50 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M8845 (Mg) (ex 2/10), 100 mls of #M8962 (Fe) (ex 2/10), 100 mls of #M8964 (Ca)(ex 2/10), 100 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 1000K ug/l std
	Bring 1000 ml volumetrics up to mark with DI H2O

ex 2110

#M9285

12-21-09

ICAP Working Standards for Sodium and Potassium method

5% HNO3, 5% HNO3

Standard name	Pipet the following respectively:
0.5	0.05 mls of #M9280 and #M9222 into 1000 ml volumetric flask = 0.50 ug/L std
1	0.1 mls of #M9280 and #M9222 into 1000 ml volumetric flask = 1.0 ug/L std
5	0.5 mls of #M9280 and #M9222 into 1000 ml volumetric flask = 5.0 ug/L std
10	1.0 mls of #M9280 and #M9222 into 1000 ml volumetric flask = 10 ug/L std
50	5.0 mls of #M9280 and #M9222 into 1000 ml volumetric flask = 50 ug/L std
100	10.0 mls of #M9280 and #M9222 into 1000 ml volumetric flask = 100 ug/L std
200	20 mls of #M9280 and #M9222 into 1000 ml volumetric flask = 200 ug/L std
500	5.0 mls of #M8924(ex 4/10) and 5.0 mls of #M8739 (ex 4/10) into 1000 ml volumetric flask= 500 ug/L std
	Bring 1000 ml volumetrics up to mark with DI H2O

#M9286

12-21-09

ICAP ICV/CCV/LCSW Standards for Sodium and Potassium method

5% HNO3, 5% HNO3

Standard name	Pipet the following into a 1000 ml volumetric flask
	100 mls of M9059 and 100 mls of M9060
	Bring 1000 ml volumetric up to mark with DI H2O

#M9287 1:
GE

#M9288 1:
GE

#M9289 1:
GE

#M9290 1:
GE

#M9291 1:
GE

#M9292
LSF

#M9293 1:
GE

#M9294 1:
GE

#M9295
LSF

#M9296 1:
AMS

- 6/04/11, #M9282 21 12-15-09 HCL AB-453 HNO3 AB-468

ICAP Working Standards

18% HNO3 + 6% HCL

4.5 min Kre 3051

Standard name	Pipet the following respectively: Into literal
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M8924(ex 4/10) and 1.0 mls of #M8739 (ex 4/10) into 1000 ml volumectric flask= 100 ug/L std
500	5.0 mls of #M8924(ex 4/10) and 5.0 mls of #M8739 (ex 4/10) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M8924(ex 4/10) and 10.0 mls of #M8739 (ex 4/10) into 1000 ml volumetric flask= 1000 ug/L std
10,000	100 ~~10.0~~ mls of #M8924(ex 4/10), 1.0 mls of #M8959 Ba (ex 5/10) 1.0 mls #M8841 B (ex 2/10), 0.10 mls #M8967 Al (ex 5/10) into 1000 ml volumtric flask= 10000 ug/L std
100k	10 mls of #M8961 (Cu) (ex 2/10) , 10 mls of #M8966 (Mn)(ex 2/10) , 10 mls of #M8960 (Cr)(ex 2/10) , 10 mls #M8963 (Zn)(ex 2/10), 10 mls #M8965 (Pb)(ex 2/10) , 100 mls of #M8726 (Co)(ex 12/15/2010) into 1000 ml vol flask = 100K ug/l std
100,000	10 mls of #M8845 (Mg) (ex 2/10) , 10 mls of #M8962 (Fe) (ex 2/10) ,10 mls of #M8964 (Ca)(ex 2/10),10 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M8845 (Mg) (ex 2/10), 50 mls of #M8962 (Fe) (ex 2/10) ,50 mls of #M8964 (Ca)(ex 2/10), 50 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M8845 (Mg) (ex 2/10), 100 mls of #M8962 (Fe) (ex 2/10), 100 mls of #M8964 (Ca)(ex 2/10), 100 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 1000K ug/l std

Bring 1000 ml volumetrics up to mark with DI H2O

ex 2110

#M2283 21 12-15-09 ~~HCL AB-453~~ HNO3 AB-468

/200, 5-2010, 2010, 010, 010, 2010, -2010, 2-15-2010 ONA ex 12-15-2010

ICAP Working Standards

20% HNO3

7+24 Kre 3051

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M8924(ex 4/10) and 1.0 mls of #M8739 (ex 4/10) into 1000 ml volumectric flask= 100 ug/L std
500	5.0 mls of #M8924(ex 4/10) and 5.0 mls of #M8739 (ex 4/10) into 1000 ml volumetric flask= 500 ug/L std
1000	10.0 mls of #M8924(ex 4/10) and 10.0 mls of #M8739 (ex 4/10) into 1000 ml volumetric flask= 1000 ug/L std
10,000	100 ~~10.0~~ mls of #M8924(ex 4/10), 1.0 mls of #M8959 Ba (ex 5/10) 1.0 mls #M8841 B (ex 2/10), 0.10 mls #M8967 Al (ex 5/10) into 1000 ml volumtric flask= 10000 ug/L std
100k	10 ~~10~~ mls of #M8961 (Cu) (ex 2/10) , 10 mls of #M8966 (Mn)(ex 2/10) , 10 mls of #M8960 (Cr)(ex 2/10) , 10 mls #M8963 (Zn)(ex 2/10), 10 mls #M8965 (Pb)(ex 2/10) , 100 mls of #M8726 (Co)(ex 12/15/2010) into 1000 ml vol flask = 100K ug/l std
100,000	10 mls of #M8845 (Mg) (ex 2/10) , 10 mls of #M8962 (Fe) (ex 2/10) ,10 mls of #M8964 (Ca)(ex 2/10),10 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M8845 (Mg) (ex 2/10), 50 mls of #M8962 (Fe) (ex 2/10) ,50 mls of #M8964 (Ca)(ex 2/10), 50 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M8845 (Mg) (ex 2/10), 100 mls of #M8962 (Fe) (ex 2/10), 100 mls of #M8964 (Ca)(ex 2/10), 100 mls #M8967 (AL)(ex 2/10) into 1000 ml vol flask = 1000K ug/l std

Bring 1000 ml volumetrics up to mark with DI H2O

ex 2/10

#M9266 12-11-09 Yttrium 10mg/ml Env Ex lot # 0931001 ex 6/04/11 #M9282 12-15-09 HCL AB-453 HNO3 AB-468

#M9267 12/14/09 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9268 12/14/09 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9269 12/14/09 AMA	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9268) into 100ml = 3.0ug/L Hg
#M9270 12/14/09 AMA	Hg MRL:	0.2ml of 100ug/L Hg (#M9268) into 100ml = 0.2ug/L Hg
#M9271 12/14/09 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 468)

#M9272 12-14-09 Co 1000 mg/L Spex Certiprep lot # CL4-112CO ex 12/15/2010.

#M9273 12-14-09 Cr 1000 mg/L Spex Certiprep lot # ~~CL4~~ CL4-135CR ex 12-15-2010.

#M9274 12-14-09 Ni 1000mg/L Spex Certiprep lot # 15-125NI ex 12-15-2010.

#M9275 12-14-09 W 1000mg/L Spex Certiprep lot # 15-112W ex 12-15-2010.

#M9276 12-14-09 Zn 1000mg/L Spex Certiprep lot # 15-992n ex 12-15-2010.

#M9277 12-14-09 Ti 1000 mg/L Spex Certiprep lot # 15-987T ex 12-15-2010.

#M9278 12-14-09 Li 1000 mg/L Spex Certiprep lot # 15-31LI ex 12-15-2010.

#M9279 12-14-09 Sn 1000 mg/L Spex Certiprep lot # CL4-127SN ex 12-15-2010

#M9280 12-14-09 Sodium 10,000 mg/L Spex Certiprep lot # AC11-190NA ex 12-15-2011

#M9281 12-14-09 Tin 1000 mg/L Fisher lot # 091695 ex 04/2011

#M9283 12-15-09 ~~HCL AB-453~~ HNO3 AB-468

#9256 11/30/09 NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (M9082(a)) and 60g
AMA Hydroxylamine sulfate (M9174) in 500mL
Milli-Q H_2O. Exp. 5/30/10

M9257 12/02/09 Mercury 1000 mg/L Spex CertiPrep Lot No. CL4-96HG
GE Exp. 11-30-10

#M9258 12-3-09 ICSAB Into 500 ml vol pipet 50mls of M9212 +
JA 2.5mls of M9188 & M8924 Bring up to mark with DI H_2O
20% HNO_3 ex April 30, 200.
20% HCl

#9259 12/4/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I.H_2O. Add 114mL Glacial
AMA Exp. 12/4/10 Acetic Acid (AB-468) and 128.6mL 10N NaOH (M9033).
Dilute to 20L with D.I.H_2O and mix. The pH = 4.93 ± 0.05.

#M9260 12-8-09 JA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg	
#M9261 JA 12-8-09	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg	
#M9262 JA 12-8-09	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9261) into 100ml = 3.0ug/L Hg	
#M9263 JA 12-8-09	Hg MRL:	0.2ml of 100ug/L Hg (#M9261) into 100ml = 0.2ug/L Hg	

#M9264 12/10/09 TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H_2O. Add 114ml Glacial Acetic Acid
JA (AB-468) and 128.6ml 10N NaOH (#M9033). Dilute to 20L w/D.I. H_2O
and mix. The pH = 4.93 ± 0.05.

#M9265 12-10-09 10N NaOH Into 1 Liter Vol/flask weigh 400g. NaOH
JA (#W22703) Bring up to mark with DI H_2O ex 12-10-10.

#M9244 11-18-09 GLE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9245 11-18-09 GLE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9246 11-18-09 GLE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9245) into 100ml = 3.0ug/L Hg
#M9247 11-18-09 GLE	Hg MRL:	0.2ml of 100ug/L Hg (#M 9245) into 100ml = 0.2ug/L Hg
#M9248 11-18-09 GLE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 467)
#M9249 11-18-09 GLE	Hydroxylamine Sulfate Fisher Scientific Lot No. 086451 f.w. 164.14 500g	
#M9250 11/24/09 TSF	TCLP Extraction Fluid #1: Fill a 20L carboy w/19L DI H_2O. Add 114mL Glacial Acetic Acid (AB. 468) and 128.6mL 10N NaOH (#M9033) Dilute to 20mL w/DI H_2O and mix. The pH = 4.93 ± 0.05.	
#M9251 11/30/09 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9252 11/30/09 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9253 11/30/09 AMA	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9252) into 100ml = 3.0ug/L Hg
#M9254 11/30/09 AMA	Hg MRL:	0.2ml of 100ug/L Hg (#M9252) into 100ml = 0.2ug/L Hg
#M9255 11/30/09 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 467)

#M9256 AMA

#M9257 GLE

#M92[illegible] D 20% 20%

#M9232 11/02/09 7470 LOQ ✓: Into a 25mL Vol. flask, pipet 16.25mL #M9226 & bring up to volume with Milli-Q water.
GLE

#M9233 11/03/09 TCLP Extraction Fluid #1: Fill a 20L carboy w/19L DI H_2O. Add 114mL Glacial Acetic Acid (AB.446) and 128.6mL 10N NaOH (#M9033) Dilute to 20mL w/DI H_2O and mix. The pH = 4.93 ± 0.05.
LSF

#M9234 11/06/09 GFAA Working Base Std (1000µg/L) (1% HNO_3) Pipet 10mL of #M8881 into 1L Vol. Flask & bring up to volume with Milli-Q H_2O. Exp 4-1-10
GLE

#M9235 11/06/09 GFAA Alt. Source Working Std (200µg/L) (1% HNO_3) Pipet 20mL of #M8880 into a 1L Vol. Flask & bring up to volume with Milli-Q H_2O Exp. 4-1-10
GLE

#M9236 11/06/09 GFAA Base Std (25µg/L) (1% HNO_3) Pipet 25mL of #M9234 into a 1L Vol. Flask and bring up to volume with Milli-Q H_2O. Exp 04-01-10
GLE

#M9237 11/06/09 GFAA Alt. Source Std (10µg/L) (1% HNO_3) Pipet 50mL of #M9235 into a 1L Vol. Flask and bring up to volume with Milli-Q H_2O. Exp. 04-01-10
GLE

#M9238 11/09/09 Hg Working Stds: (0.2% HNO_3, HCl)
GLE
1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9239 11/09/09 Hg Alt Source Working Std: (0.2% HNO_3, HCl)
GLE
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9240 11/09/09 Hg ICV/CCV/LCSW: (0.2% HNO_3, HCl)
GLE
3.0ml of 100ug/L Hg (#M9239) into 100ml = 3.0ug/L Hg

#M9241 11/09/09 Hg MRL:
GLE
0.2ml of 100ug/L Hg (#M9239) into 100ml = 0.2ug/L Hg

#M9242 11/09/09 NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9082a) and 60g Hydroxylamine Sulfate (#M9174) in 500mL Milli-Q H_2O. (Exp. 06-09-10)
GLE

M9243 11/11/09 TCLP Extraction Fluid #1: Fill a 20L carboy w/19L DI H_2O. Add 114mL Glacial Acetic Acid (AB.446) and 128.6mL 10N NaOH (#M9033) Dilute to 20mL w/DI H_2O and mix. The pH = 4.93 ± 0.05.
LJF

#M9218 10/28/09 GLE — Magnesium 10,000 mg/L Spex CertiPrep Assurance Lot No. Z11-158 MG Expires: 10-15-10

#M9219 10/28/09 GLE — Iron 10,000 mg/L Spex CertiPrep Assurance Lot No. A12-11FE Expires: 10-15-10

#M9220 10/28/09 GLE — Spike Sample Standard 1 Spex CertiPrep Lot No. 41-10AS Expires: 10-15-10

#M9221 10/28/09 GLE — Hafnium 1000 mg/L Spex Certiprep Lot No. 14-159HF Expires: 10-15-10

#M9222 10/28/09 GLE — Potassium 10,000 mg/L Spex CertiPrep Lot No. AC11-228K Exp. 10-30-10

#M9223 11/02/09 GLE — Hg Working Stds: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9224 11/02/09 GLE — Hg Alt Source Working Std: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9225 11/02/09 GLE — Hg ICV/CCV/LCSW: (0.2% HNO3, HCl) — 3.0ml of 100ug/L Hg (#M 9224) into 100ml = 3.0ug/L Hg

#M9226 11/02/09 GLE — Hg MRL: — 0.2ml of 100ug/L Hg (#M9224) into 100ml = 0.2ug/L Hg

#M9227 11/02/09 GLE — Hg Aqua Regia Reagent: — "Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 467)

#M9228 11/02/09 GLE — Potassium Permanganate Soln: 50g Potassium Permanganate (#M8962) dissolved into 1000mL Milli-Q H2O.

#M9229 11/02/09 GLE — 7471 LOD ✓: (0.2% HNO3, HCl) Into a 25mL Vol. flask, pipet 3.75mL of #M9226 & bring up to volume with Milli-Q water

#M9230 11/02/09 GLE — 7471 LOQ ✓: (0.2% HNO3, HCl) Into a 25mL Vol. flask, pipet 11.25mL of #M9226 & bring up to volume with Milli-Q water.

#M9231 11/02/09 GLE — 7470 LOD ✓: (0.2% HNO3, HCl) Into a 25mL Vol. flask, pipet 5.0mL of #M9226 & bring up to volume with Milli-Q water

#M9232 11/02 GLE

M9233 11/0 LSF

#M9234 11/0 GLE

#M9235 11/ GLE

#M9236 11/ GLE

#M9237 11/ GLE

#M9238 11/ GLE

#M9239 11/09 GLE

#M9240 11/09 GLE

#M9241 11/0 GLE

#M9242 11/0 GLE

#M9205 10/19/09 GJE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9206 10/19/09 GJE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9207 10/19/09 GJE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9206) into 100ml = 3.0ug/L Hg
#M9208 10/19/09 GJE	Hg MRL:	0.2ml of 100ug/L Hg (#M 9206) into 100ml = 0.2ug/L Hg
#M9209 10/19/09 GJE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 467)

#M9210 10/19/09 NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (M9032(A)) and 60g Hydroxylamine Sulfate (M9174) in 500mL Milli-Q-H_2O
AMA
Exp. 4/19/10

#M9211 10/21/09 TCLP Extraction Fluid: Fill a 2L carboy w/ 19L D.I H_2O. Add 114mL Glacial Acetic Acid (AB. 446) and 128.6mL 10N NaOH (M9195). Dilute to 20L w/ DI H_2O and mix.
The pH = 4.93 ± 0.05

#M9212 10-21-09 ICL-500-L Spex Env. Express lot # 09-2031 ex 10/10
2

#M9213 10/26/09 GJE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9214 10/26/09 GJE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9215 10/26/09 GJE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9214) into 100ml = 3.0ug/L Hg
#M9216 10/26/09 GJE	Hg MRL:	0.2ml of 100ug/L Hg (#M 9214) into 100ml = 0.2ug/L Hg
#M9217 10/26/09 GJE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 467)

#M9195 10/07/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL (Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (M9185). Dilute to 20L with D.I. H_2O and mix. The pH= 4.93 ± 0.05
AMA

#M9196 10/09/09 Turbidity Working Stds: Into 20mLs pipet from #M8730 (200 NTU)
GAE
Gel Ex Stds:
4.85 — 2.0mL into 18mL D.I. H_2O = 20 NTU
57.6 — 10mL into 10mL D.I. H_2O = 100 NTU
542 — 20mL into 0mL D.I H_2O: 200 NTU
(Exp 12/10)

#M9197 10/13/09 1N HCl for TCLP: Into a 1L Vol. flask, partially filled w/ milli-Q H_2O, add 83mL of conc. HCL (AB:460) and bring up to volume with milliQ H_2O.
LSF

#M9198 10/14/09 Potassium Persulfate: 50g Potassium Persulfate (#M9010) dissolved into 1000mL D.I. H_2O. Exp. 04/14/10
GAE

#M9199 10/14/09 Hg Working Stds: (0.2% HNO3, HCl)
GAE
1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9200 10/14/09 Hg Alt Source Working Std: (0.2% HNO3, HCl)
GAE
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9201 10/14/09 Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)
GAE
3.0ml of 100ug/L Hg (#M) into 100ml = 3.0ug/L Hg

#M9202 10/14/09 Hg MRL:
GAE
0.2ml of 100ug/L Hg (#M) into 100ml = 0.2ug/L Hg

#M9203 10/14/09 Hg Aqua Regia Reagent:
GAE
"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 460)

#M9204 10/14/09 TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (M9185). Dilute to 20L w/ D.I. H_2O and mix. The pH = 4.93 ± 0.05
LSF

#M9205 10/1
GAE

#M9206 10/19
GAE

#M9207 10/1
GAE

#M9208 10/19
GAE

#M9209 10/19
GAE

#M9210 10/1
AMA

#M9211 10

#M9212

#M9213
GAE

#M9214 10
GAE

#M9215 10/
GAE

#M9216 10/
GAE

#M9217 10/2

#M9185 GE 10N NaOH: Into a 1L Vol. Flask, partially filled with D.I. H_2O, dissolve 400g NaOH (#W22141) and bring up to volume with D.I. H_2O. Exp. 09/23/10
09/23/09

M9184 Working stds Ag Dnto 3 1000 ml Vol flasks pipet respectively
9.24.09
5% HNO_3
5% HCL
1ug/L => 0.001 mls of M9052
10ug/L => 0.01 mls of M9052
100ug/L => 0.1 mls of M9052
Bring up to mark with $DI H_2O$ ex 6/2010

#M9187 9-24-09 ICV/CCV Std Ag Dnto 500 ml Vol flask pipet 5.0 mls of #M9116
5% HNO_3 Bring up to mark with DI H_2O. ex 8/2010.
5% HCL

#M9188 Spex Certiprep QC-7 Lot# 6-123-QS ex 9/2010.
9-25-09

#M9189 GE GFAA LDR Study Standard Into a 200mL Vol. flask, pipet 0.6mL of #M8581
09/29/09 1% HNO_3 and bring up to volume. Exp. 04-01-10

#M9190 GE 10/05/09	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9191 GE 10/05/09	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9192 GE 10/05/09	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9191) into 100ml = 3.0ug/L Hg
#M9193 GE 10/05/09	Hg MRL:	0.2ml of 100ug/L Hg (#M 9191) into 100ml = 0.2ug/L Hg
#M9194 GE 10/05/09	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 453) with 1part HNO3 (AB: 460)

#M9183 3051 LOD
9-23-09

M9183

3051LOD Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOD (ug/L)	Std Conc (mg/L)	mount (mL) to pipet into 1 L
Ag	M9052	1.1	1000	0.055
Al	M8967	8	10000	0.04
Ba	M8959	0.5	1000	0.025
Be	M8840	0.2	1000	0.01
Cd	M9055	0.12	1000	0.006
Co	M8726	1.1	1000	0.055
Cr	M8725	1.4	1000	0.07
Cu	M8961	1.4	10000	0.007
Mn	M8842	0.4	1000	0.02
Mo	M8843	0.7	1000	0.035
Ni	M8728	2.9	1000	0.145
Pb	M8734	1.2	1000	0.06
V	M8056	0.9	1000	0.045
Zn	M8731	0.5	1000	0.025
B	M9140	6	1000	0.3

Of this Base standard pipet 10 mls into 500 ml volumetric.

12/09
~~EX 01 2010~~ 9-23-09

#M9185
09/23/09

#M918
9-24-09
5
5

#M918
5% HNO
5% HCL

#M9184 3051 LOQ
9-23-09

M9184

3051LOQ Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOD (ug/L)	Std Conc (mg/L)	mount (mL) to pipet into 1 L
Ag	M9052	3.6	1000	0.18
Al	M8967	28	10000	0.14
Ba	M8959	1.7	1000	0.085
Be	M8840	0.66	1000	0.033
Cd	M9055	0.39	1000	0.0195
Co	M8726	3.8	1000	0.19
Cr	M8725	4.8	1000	0.24
Cu	M8961	4.8	10000	0.024
Mn	M8842	2.2	1000	0.11
Mo	M8843	2.5	1000	0.125
Ni	M8728	9.6	1000	0.48
Pb	M8734	4.1	1000	0.205
V	M8056	12	1000	0.6
Zn	M8731	21	1000	1.05
B	M9140	18	1000	0.9

Of this Base standard pipet 10 mls into 500 ml volumetric

EY 12-09
~~EX 01 2010~~ 9-23-09

#M9173 09/17/09 GJE — ICP Spiking Solution (24 mos hold) (1% HNO_3) — Into a 250mL Vol. Flask, pipet the following and bring up to volume with D.I. H_2O (Exp 12/15/09)
20.0mL of 1000mg/L Ba (#M8859)
0.5mL of 1000mg/L Be (#M8840)
10.0mL of 10000mg/L Cu (#M8961)
5.0mL of 1000mg/L Ni (#M8728)
10.0mL of 10000mg/L Zn (#M8963)

#M9174 09/17/09 GJE — Hydroxylamine Sulfate Fisher Lot No. 086451 f.w. 164.14

#M9175 09/21/09 GJE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9176 09/21/09 GJE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9177 09/21/09 GJE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9176) into 100ml = 3.0ug/L Hg
#M9178 09/21/09 GJE	Hg MRL:	0.2ml of 100ug/L Hg (#M 9176) into 100ml = 0.2ug/L Hg
#M9179 09/21/09 GJE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 445) with 1part HNO3 (AB: 454)

#M9180 09/24/09 GJE — NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M8577(A)) and 60g Hydroxylamine Sulfate (#M9174) in 500mL Milli-Q H_2O. (Exp 3-21-10)

#M9181 09/22/09 GJE — Nickel Nitrate (1% Ni in 2% HNO_3) Alfa-Aesar Lot No. 93-096500T

#M9182 09/23/09 GJE — TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (A.B446) and 128.6mL 10N NaOH (#M9033) Dilute to 20mL w/ DI H_2O and Mix. The pH = 4.93 ± 0.05

#M9170 9/14/09 LOQ
AMA Base Std.
5% HNO_3 (water)
5% HCl

#M9170

LOQ Check Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOQ (ug/L)	Std Concmount (mg/L)	(mL) to pipet into 1 L	
Ag	M9052	3.2	1000	0.16	
Al	M8967	24	10000	0.12	
As	M9058	9.9	1000	0.495	
Ba	M8959	1.6	1000	0.08	
Be	M8840 2/10	0.41	1000	0.0205	
Ca	M8964	29	10000	0.145	
Cd	M9055	0.53	1000	0.0265	
Co	M8726 12/09	1.1	1000	0.055	
Cr	M8725 12/09	3	1000	0.15	
Cu	M8961	6.3	10000	0.0315	
Fe	M8962	25	10000	0.125	
Mg	M8845	22	10000	0.11	
Mn	M8842 2/10	6.5	1000	0.325	
Mo	M8843 2/10	1	1000	0.05	
Ni	M8728 12/09	3.5	1000	0.175	
Pb	M8734 12/09	4.9	1000	0.245	
Sb	M9053	11	1000	0.55	
Se	M9054	7.7	1000	0.385	
Tl	M8844 2/10	5.1	1000	0.255	
V	M9056	3	1000	0.15	
Zn	M8731 12/09	1.6	1000	0.08	
Na	M8738 12/09	640	10000	3.2	
K	M8737 12/09	470	10000	2.35	
B	M9140	20	1000	1	
Si	M9121	51	1000	2.55	
Li	M8727 12/09	7.6	1000	0.38	Of this Base standard pipet 10 mls into 500 ml volumetric.
Sn	M8732 12/09	7.3	1000	0.365	
Sr	M8736 12/09	12	1000	0.6	
Ti	M8735 12/09	22	1000	1.1	
W	M8733 12/09	32	1000	1.6	EX 01-2010

#M9171 09/14/09 LOQ Base Std
AMA (water)
5% HNO_3
5% HCl

#M9171

LOQ Check Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOQ (ug/L)	Std Concmount (mg/L)	(mL) to pipet into 1 L	
Ag	M9052	1	1000	0.05	
Al	M8967	7	10000	0.035	
As	M9058	3.1	1000	0.155	
Ba	M8959	0.5	1000	0.025	
Be	M8840 2/10	0.12	1000	0.006	
Ca	M8964	9	10000	0.045	
Cd	M9055	0.16	1000	0.008	
Co	M8726 12/09	0.3	1000	0.015	
Cr	M8725 12/09	1	1000	0.05	
Cu	M8961	1.9	10000	0.0095	
Fe	M8962	8	10000	0.04	
Mg	M8845	7	10000	0.035	
Mn	M8842 2/10	1.9	1000	0.095	
Mo	M8843 2/10	0.3	1000	0.015	
Ni	M8728 12/09	1	1000	0.05	
Pb	M8734 12/09	1.5	1000	0.075	
Sb	M9053	3	1000	0.15	
Se	M9054	2.3	1000	0.115	
Tl	M8844 2/10	1.5	1000	0.075	
V	M9056	0.9	1000	0.045	
Zn	M8731 12/09	0.5	1000	0.025	
Na	M8738 12/09	190	10000	0.95	
K	M8737 12/09	140	10000	0.7	
B	M9140	6	1000	0.3	
Si	M9121	15	1000	0.75	
Li	M8727 12/09	2.3	1000	0.115	Of this Base standard pipet 10 mls into 500 ml volumetric.
Sn	M8732 12/09	2.2	1000	0.11	
Sr	M8736 12/09	4	1000	0.2	
Ti	M8735 12/09	7	1000	0.35	
W	M8733 12/09	9	1000	0.45	EX 01-2010

#M9172 9/16/09 TCLP Extraction Fluid #2: Into a 20L carboy, pipet 11.4mL Glacial Acetic Acid (AB-446) and dilute to 20L with D.I. H_2O. The pH = 2.88 ± 0.05. Exp. 9/16/10
AMA

#M9170
#M9174 G
#M9175 G
#M9176 G
#M9177 GvE
#M9178 GvE
#M9179 GvE
#M9180 09/21/09 GvE
#M9181 09/22/09 Gv
#M9182 09/23/09 JF

#M9163 LOD Base Std. (Soil)
9/11/09 hma

5% HNO_3 / HCL

#M9162

LOQ Check Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOD (ug/L)	Std Concmount (mg/L)	(mL) to pipet into 1 L	
Ag	M9052	0.9	1000	0.045	
Al	M8967	3	10000	0.015	
As	M9058	3	1000	0.15	
Ba	M8959	0.7	1000	0.035	
Be	M8840 2/10	0.2	1000	0.01	
Ca	M8964	14	10000	0.07	
Cd	M9055	0.2	1000	0.01	
Co	M8726 12/09	0.4	1000	0.02	
Cr	M8725 12/09	1	1000	0.05	
Cu	M8961	2.3	10000	0.0115	
Fe	M8962	15	10000	0.075	
Mg	M8845	4	10000	0.02	
Mn	M8842 2/10	1.3	1000	0.065	
Mo	M8843 2/10	0.4	1000	0.02	
Ni	M8728 12/09	0.5	1000	0.025	
Pb	M8734 12/09	1	1000	0.05	
Sb	M9053	2	1000	0.1	
Se	M9054	3	1000	0.15	
Tl	M8844 2/10	2	1000	0.1	
V	M9056	1	1000	0.05	
Zn	M8731 12/09	1	1000	0.05	
Na	M8738 12/09	100	10000	0.5	
K	M8737 12/09	200	10000	1	
B	M9140	6	1000	0.3	
Si	M9121	21	1000	1.05	
Li	M8727 12/09	3	1000	0.15	Of this Base standard pipet 10 mls into 500 ml volumetric.
Sn	M8732 12/09	3	1000	0.15	
Sr	M8736 12/09	0.7	1000	0.035	
Ti	M8735 12/09	3	1000	0.15	
W	M8733 12/09	5	1000	0.25	EX 01-2010

#M9164 GLE 9/14/09 — Hg Working Stds: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9165 GLE 09/14/09 — Hg Alt Source Working Std: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9166 GLE 09/14/09 — Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)

3.0ml of 100ug/L Hg (#M9165) into 100ml = 3.0ug/L Hg

#M9167 GLE 09/14/09 — Hg MRL:

0.2ml of 100ug/L Hg (#M9165) into 100ml = 0.2ug/L Hg

#M9168 GLE 09/14/09 — Hg Aqua Regia Reagent:

"Carefully" in hood, mix 3 parts HCl (AB: 445) with 1part HNO3 (AB: 454)

#M9169 GLE 09/14/09 — Potassium Permanganate Soln: 50g Potassium Permanganate (#M8969) dissolved into 1000 mL Milli-Q H_2O Exp. 3/14/10

#M9159 09/09/09 Potassium and Sodium Icp working stds. using a 200mL vol. flask for each std.

AM pipet:

5% HNO_3

5% HCL

Bring up to mark with D.I. H_2O

0.5mg/L → 0.01 mLs of M8737 and M8738
1.0 mg/L → 0.02 mLs of M8737 and M8738
5.0 mg/L → 0.1mLs of M8737 and M8738
10.0 mg/L → 0.2mLs of M8737 and M8738
50.0 mg/L → 1.0mLs of M8737 and M8738
100.0 mg/L → 2.0 mLs of M8737 and M8738
200.0 mg/L → 4.0 mLs of M8737 and M8738 JX 12/09

#M9160 9-10-09 Potassium & Sodium ICV/CCV/LCSW into 500 ml Vol. flask
AM pipet 100mLs from M9060 & M9059 Bring up to mark
5% HNO_3 with DI H_2O. JX 6.0010.
5% HCL

M9161 09-11-09 TCLP Extraction Fluid #1: Fill a 2L Carboy w/1gL D.I. H_2O. Add 11.4mL Glacial Acetic
ISF Acid (A·6446) and 128.6mL 1ow NaOH (#M9033). Dilute to 20L w/DI H_2O and mix. The pH = 4.93 ± 0.05

#M9162 09/11/09 LOQ Base Std. (Soil)

5% HNO_3/HCL

#M9162

LOQ Check Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOQ (ug/L)	Std Conc (mg/L)	mount (mL) to pipet into 1 L
Ag	M9052	2.9	1000	0.145
Al	M8967	9	10000	0.045
As	M9058	11	1000	0.55
Ba	M8959	2.2	1000	0.11
Be	M8840 2/10	0.67	1000	0.0335
Ca	M8964	43	10000	0.215
Cd	M9055	0.6	1000	0.03
Co	M8726 12/09	1.2	1000	0.06
Cr	M8725 12/09	2	1000	0.1
Cu	M8961	7.6	10000	0.038
Fe	M8962	48	10000	0.24
Mg	M8845	14	10000	0.07
Mn	M8842 2/10	4.5	1000	0.225
Mo	M8843 2/10	1.4	1000	0.07
Ni	M8728 12/09	1.8	1000	0.09
Pb	M8734 12/09	5	1000	0.25
Sb	M9053	7	1000	0.35
Se	M9054	9	1000	0.45
Tl	M8844 2/10	7	1000	0.35
V	M9056	2	1000	0.1
Zn	M8731 12/09	4	1000	0.2
Na	M8738 12/09	300	10000	1.5
K	M8737 12/09	500	10000	2.5
B	M9140	19	1000	0.95
Si	M9121	71	1000	3.55
Li	M8727 12/09	11	1000	0.55
Sn	M8732 12/09	8	1000	0.4
Sr	M8736 12/09	2.33	1000	0.1165
Ti	M8735 12/09	11	1000	0.55
W	M8733 12/09	15	1000	0.75

Of this Base standard pipet 10 mls into 500 ml volumetric.

EX 01-2010

#M9148 09/02/09 GE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9149 09/02/09 GE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9150 09/02/09 GE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9149) into 100ml = 3.0ug/L Hg
#M9151 09/02/09 GE	Hg MRL:	0.2ml of 100ug/L Hg (#M 9149) into 100ml = 0.2ug/L Hg
#M9152 09/02/09 GE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 445) with 1part HNO3 (AB: 454)

#M9153 ICSAB Na, K into 500 ml Vol flask pipet. ~~25ml~~ 23-09 50mls #M8747 DI 9-3-09 15mls #M8462, 50mls M9060, 50mls #M9059 Bring up to mark with DI H_2O. ex 1/10

#M9154 09/08/09 GE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9155 09/08/09 GE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9156 09/08/09 GE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M) into 100ml = 3.0ug/L Hg
#M9157 09/08/09 GE	Hg MRL:	0.2ml of 100ug/L Hg (#M) into 100ml = 0.2ug/L Hg
#M9158 09/08/09 GE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 445) with 1part HNO3 (AB: 454)

#M9142 8/27/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB-446) and 128.6mL 10N NaOH (#M9033). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05
AMA Exp. 8/27/10

#M9143 09/01/09 GFAA 3020 MDL ✓ Soln (1% HNO_3) 1.0 mL of 1000mg/L Ag (#9052), 1000mg/L Pb (#M8734), 1000mg/L Tl (#M8844) → 100 mL = 10,000 µg/L Ag, Pb, Tl
10 mL of 10,000 µg/L Ag, Pb, Tl → 100mL = 1000 µg/L Ag, Pb.
09/01/09 GAE
09/01/09 GAE

#M9143 09/01/09 GFAA 3020 MDL ✓ Soln (1% HNO_3) Exp. 12-15-09 0.04mL of 1000mg/L Pb (#M8734); 0.04mL of 1000mg/L Tl (#M8844); 0.0029mL Ag (#M9052) → 100 mL = 400 µg/L Pb, 400 µg/L Tl, ; 29 µg/L Ag
1mL of 400µg/L Pb, Tl ; 29µg/L Ag → 1000mL = 0.4µg/L Pb, Tl ; 0.029µg/L Ag
GAE

#M9144 09/01/09 GFAA MDL ✓ Soil Spiking Solution (1% HNO_3) Pipet the following into a 1L Vol. flask and bring up to volume with D.I. H_2O. Exp. 12/15/09
0.002mL of 1000mg/L Ag (#M9052)
0.04mL of 1000mg/L Pb (#M8734)
0.05mL of 1000 mg/L Sb (#M9053)
0.07mL of 1000 mg/L As (#M9058)
0.075mL of 1000 mg/L Se (#M9054)
0.035mL of 1000 mg/L Tl (#M8844)
GAE

#M9145 09/01/09 GFAA LOQ ✓ Soil Spiking Solution (1% HNO_3) Into a 1L Vol. Flask, pipet the following and bring up to volume with D.I. H_2O. Exp. 12/15/09
0.0075mL of 1000 mg/L Ag (#M9052)
0.135mL of 1000 mg/L Pb (#M8734)
0.165mL of 1000 mg/L Sb (#M9053)
0.24mL of 1000 mg/L As (#M9058)
0.25mL of 1000 mg/L Se (#M9054)
0.125mL of 1000 mg/L Tl (#M8844)
GAE

#M9146 09/01/09 GFAA 3020 LOQ ✓ Soln (1% HNO_3) Exp. 12-15-09 Pipet 0.096mL Ag (#M9052), 1.4mL Tl (#M8844) & 1.3mL Pb 1000mg/L (#M8734) → 100mL = 960µg/L Ag, 14000 Tl, & 13,000µg/L Pb
09/01/09 GAE
Pipet 10mL of 960µg/L Ag, 14000 Tl, & 13000µg/L Pb → 100mL = 1400µg/L Tl, 1300µg/L Pb, 96µg/L
Pipet 1mL of 1400µg/L Tl, 1300µg/L Pb, 96µg/L Ag → 1000mL = 1.4µg/L Tl, 1.3µg/L Pb, 0.096µg/L
GAE

#M9147 09/01/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB-446) and 128.6mL 10N NaOH (#M9033). Dilute to 20L w/ D.I. H_2O and mix. The pH = 4.93 ± 0.05
GAE

#M9148 09/
GAE

M9149 09/02/
GAE

M9150 09/02/
GAE

#M9151 09/
GAE

#M9152 09
GAE

M9153
GAE

#M9154 09
GAE

M9155 09/
GAE

#M9156 09/0
GAE

M9157 09/
GAE

M9158 09/
GAE

#M9129 08/24/09 Tin (II) Chloride Dihydrate Fisher Lot No. 091749 500g f.w. 225.65
GLE

#M9130 08/24/09 Tin (II) Chloride Dihydrate Fisher Lot No. 086821 500g f.w. 225.65
GLE

#M9131 08/24/09 Turbidity Standard 2.0 NTU AMCO Clear Lot No. P997117
GLE Expires August 2010

#M9132 8/24/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL
AMG Glacial Acetic Acid (AB:4446) and 128.6 mL 10N NaOH
(#M9033). Dilute to 20L with D.I. H_2O and mix.
The pH = 4.93 ± 0.05. Exp. 8/24/10

#M9133 8/26/09 GLE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9134 08/26/09 GLE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9135 08/26/09 GLE	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9134) into 100ml = 3.0ug/L Hg
#M9136 08/26/09 GLE	Hg MRL:	0.2ml of 100ug/L Hg (#M9134) into 100ml = 0.2ug/L Hg
#M9137 08/26/09 GLE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 445) with 1part HNO3 (AB: 454)

#M9138 08/26/09 Stannous Chloride Reagent - Into a 1000mL Vol. Flask, dissolve 100g Stannous
GLE Chloride (#M8811(6)) in 70 mL HCL (AB. 445).
Bring up to mark with D.I. H_2O. Exp. 8/26/10

#M9139 08/26/09 NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#9577(A)) and 60g
AMG Hydroxylamine Sulfate (#M9810) in 500mL
Milli-Q H_2O. Exp. 2/26/10

#M9140 ✓ 8-27-09 Boron 1000 mg/L Spex Certiprep Lot# 15-68B ex Aug 2009

#M9141 ✓ 8-27-09 Custom Assurance Std Spex Certiprep Lot # ~~XETWI-500~~ 19-60IB

#M9118 3051 Spiking Solution (1% HNO_3) Expires: 12/15/09 — Into a 500mL Vol. Flask, pipet the following and bring up to volume with D.I. H_2O.
- 2.5mL Ag (#M9052) 1000 mg/L
- 50mL B (#M8841) 1000 mg/L
- 25 ~~2.5~~mL Co (#M8726) 1000 mg/L — 08/14/09 GLE
- 2.5mL Cd (#~~M8553~~ M9055) 1000 mg/L — 08/14/09 GLE
- 0.5mL Sb (#M9053) 1000 mg/L
- 50mL Mo (#M8843) 1000 mg/L
- 50mL Mn (#M8966) 10,000 mg/L

08/14/09 GLE

#M9119 GLE GFAA Base Std (25µg/L) (1% HNO_3) 08/14/09 — Pipet 10mL of 100 µg/mL (#M8881) → 200mL = 5000µg/L; 10mL of 5000µg/L → 200mL = 250µg/L; 20mL of 250µg/L → 200mL = 25µg/L (Exp. 04/01/10)

#M9120 GLE GFAA Alt. Source Std (10µg/L) (1% HNO_3) 08/14/09 — Pipet 10mL of 10µg/mL (#M8880) → 08/14/09 GLE 100mL = 1000µg/L; 10mL of 1000µg/L → 100mL = 100µg/L; 20mL of 100µg/L → 200mL = 10µg/L

#M9121 Silicon 1000mg/L Fisher Lot # 081816 ex 4/10 8-17-09

#M9122 AMA Potassium Persulfate: 50g Potassium Persulfate (#8228) dissolved into 1000mL D.I. H_2O. Exp. 2/19/10 — 8/19/09

#M9123 AMA Potassium Permanganate soln: 50g Potassium Permanganate (#M8969) dissolved into 1000mL Milli-Q H_2O. Exp. 2/19/10 — 8/19/09

#M9124 AMA — 8/19/09 — Hg Working Stds: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9125 AMA — 8/19/09 — Hg Alt Source Working Std: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9126 AMA — 8/19/09 — Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)
- 3.0ml of 100ug/L Hg (#M 9125) into 100ml = 3.0ug/L Hg

#M9127 AMA — 8/19/09 — Hg MRL:
- 0.2ml of 100ug/L Hg (#M9125) into 100ml = 0.2ug/L Hg

#M9128 AMA 8/19/09 — Hg Aqua Regia Reagent:
- "Carefully" in hood, mix 3 parts HCl (AB: 444) with 1part HNO3 (AB: 448)

#M9129 G
#M913 G
#M9131 G
#M9132 AM
#M9133 GLE
#M9134 GLE
#M9135 GLE
#M9136 GLE
#M9137 GLE
#M9138 GLE
#M9139

mb
H_2O

#M9108 AMA 8/11/09 AMA — NaCl ~~Hydroxylamine~~ Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#8577(A)) and 60g Hydroxylamine Sulfate (#M8810) in 500mL Milli-Q H_2O. Exp 2/11/10
8/11/09

1mL
N
H_2O

#M9109 AMA 8/11/09	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9110 AMA 8/11/09	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9111 AMA 08/11/09	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M) into 100ml = 3.0ug/L Hg
#M9112 AMA 8/11/09	Hg MRL:	0.2ml of 100ug/L Hg (#M) into 100ml = 0.2ug/L Hg
#M9113 AMA 8/11/09	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 444) with 1part HNO3 (AB: 448)

#M9114 GvE 08/12/09 — GFAA Spiking Solution (4.5min) (1% HNO_3) — Into a 200mL Vol. Flask, pipet the following and bring up to volume with D.I. H_2O. (Exp. 6-30-10)
1.0mL of 1000mg/L As (#M9058)
0.2mL of 1000mg/L Se (#M8555) 9054 08/12/09 GvE

#M9115 GvE 08/13/09 — ICP Spiking Solution (7min) (1% HNO_3) — Into a 200mL Vol. Flask, pipet the following and bring up to volume with D.I. H_2O (Exp. 12-15-09)
4.0mL of 1000mg/L Cr (#M8775)
10.0mL of 1000mg/L Pb (#M9056) 8734 } 08/13/09 GvE
10.0mL of 1000mg/L V (#M8734) 9056 }

#M9116 GvE 08/13/09 — Spike Sample Standard 1 — Spex Certiprep Lot No. 41-10AS Exp. 08-15-10

#M9117 GvE 08/14/09 — Turbidity Working Stds: Into 20mLs pipet from #M8730 (200 NTU)
Cal Ex Stds: 4.25 — 2.0mL into 18mLs D.I. H_2O = 20 NTU
55.4 — 10mLs into 10mLs D.I. H_2O = 100 NTU
557 — 20mLs into 0mLs D.I. H_2O = 200 NTU
(Exp. 12/10)

Na, K, ICV, CCV, LCSW

M9097 Into 500 ml vol flask pipet from #M9059(Na) 50mL & 50mL from #M9060(K) bring up to mark with DI H_2O
8-2-09 ex 7/10.
JA

#M9098 08/04/09 TCLP Extraction Fluid #1: Fill a 20L Carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB-446) and 128.6 mL 10N NaOH (#M9033). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05.
GLE

#M9099 08/05/09 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9100 08/05/09 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9101 08/05/09 AMA	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M) into 100ml = 3.0ug/L Hg
#M9102 08/05/09 AMA	Hg MRL:	0.2ml of 100ug/L Hg (#M) into 100ml = 0.2ug/L Hg
#M9103 08/05/09 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 444) with 1part HNO3 (AB: 448)

#M9104 AMA 08/05/09 Potassium Permanganate Soln: 50g Potassium Permanganate (#7841) dissolved into 1000mL Milli-Q H_2O. Exp. 2/5/10

#M9105 JA 8-10-09 Tungsten 1000mg/L SPC Science Plasma cal Lot # SC900766e1 ex 10/10

#M9106 AMA 8/10/09 SPLP Extraction Fluid #1: Into a 20L carboy, add D.I. H_2O to mark and adjust pH to 4.20 ± 0.05 with M8367. Exp. 8/10/10

#M9107 AMA 08/10/09 TCLP Extraction Fluid #2: Into a 20L carboy, pipet 114mL Glacial Acetic Acid (AB-446) and dilute to 20L with D.I. H_2O. The pH = 2.88 ± 0.05 Exp. 08/10/10

M9095 MDL ~~LOQ~~ Check 3010 Base Std.
8-2-09

#M9095

MDL Check Base SPIKE PREPARATION for 3010

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log Book Number & Expire Date	MDL (ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	M9052	1.8	1000	0.09
Al	M8967	6	10000	0.03
As	M9058	6	1000	0.3
Ba	M8959	1	1000	0.05
Be	M8840 2/10	0.24	1000	0.012
Ca	M8964	8	10000	0.04
Cd	M9055	0.4	1000	0.02
Co	M8726 12/09	0.6	1000	0.03
Cr	M8725 12/09	1	1000	0.05
Cu	M8961	3.8	10000	0.019
Fe	M8962	16	10000	0.08
Mg	M8845	14	10000	0.07
Mn	M8842 2/10	4	1000	0.2
Mo	M8843 2/10	0.6	1000	0.03
Ni	M8728 12/09	1.2	1000	0.06
Pb	M8734 12/09	2.6	1000	0.13
Sb	M9053	4	1000	0.2
Se	M9054	4	1000	0.2
Tl	M8844 2/10	2	1000	0.1
V	M9056	1.2	1000	0.06
Zn	M8731 12/09	1.6	1000	0.08
Na	M8737 12/09	200	10000	1
K	M8738 12/09	200	10000	1
B	M8841 2/10	12	1000	0.6
Si	M8565 8/09	30	1000	1.5
Li	M8727 12/09	2.6	1000	0.13
Sn	M8732 12/09	2	1000	0.1
Sr	M8736 12/09	2.2	1000	0.11
Tl	M8735 12/09	10	1000	0.5
W	M8733 12/09	6	1000	0.3

Of this Base standard pipet 10 mls into 500 ml volumetric to create working std or 1 ml into 50 ml digestion tube for digested working standard.
Bring up to mark with DI H2O Expires .12/09

M9096 MDL Check 3050 Base Std
8-2-09

#M9096

MDL Check Base SPIKE PREPARATION for 3050

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log Book Number & Expire Date	MDL (ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	M9052	1.8	1000	0.09
Al	M8967	4	10000	0.02
As	M9058	6	1000	0.3
Ba	M8959	1.04	1000	0.052
Be	M8840 2/10	0.28	1000	0.014
Ca	M8964	16	10000	0.08
Cd	M9055	0.4	1000	0.02
Co	M8726 12/09	0.8	1000	0.04
Cr	M8725 12/09	1.4	1000	0.07
Cu	M8961	3.2	1000	0.16
Fe	M8962	22	10000	0.11
Mg	M8845	8	10000	0.04
Mn	M8842 2/10	1.6	1000	0.08
Mo	M8843 2/10	0.6	1000	0.03
Ni	M8728 12/09	1	1000	0.05
Pb	M8734 12/09	2	1000	0.1
Sb	M9053	4	1000	0.2
Se	M9054	6	1000	0.3
Tl	M8844 2/10	4	1000	0.2
V	M9056	2	1000	0.1
Zn	M8731 12/09	2	1000	0.1
Na	M8737 12/09	200	10000	1
K	M8738 12/09	400	10000	2
B	M8841 2/10	12	1000	0.6
Si	M8565 8/09	42	1000	2.1
Li	M8727 12/09	6	1000	0.3
Sn	M8732 12/09	6	1000	0.3
Sr	M8736 12/09	1.4	1000	0.07
Tl	M8735 12/09	6	1000	0.3
W	M8733 12/09	10	1000	0.5

Of this Base standard pipet 10 mls into 500 ml volumetric to create working std or 1 ml into 50 ml digestion tube for digested working standard.

#M9088 GE 07/28/09 — Hg Working Stds: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M9089 GE 07/28/09 — Hg Alt Source Working Std: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M9090 GE 07/28/09 — Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)

3.0ml of 100ug/L Hg (#M 9089) into 100ml = 3.0ug/L Hg

#M9091 GE 07/28/09 — Hg MRL:

0.2ml of 100ug/L Hg (#M 9089) into 100ml = 0.2ug/L Hg

#M9092 GE 07/28/09 — Hg Aqua Regia Reagent:

"Carefully" in hood, mix 3 parts HCl (AB: 444) with 1part HNO3 (AB: 448)

#M9093 MRL Base 8-2-09

MRL Check Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Log#	Analyte	(ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
M9052	Ag	20	1000	1
M8967	Al	400	10000	2
M9058	As	10	1000	0.5
M8959	Ba	10	1000	0.5
M8840	Be	4	1000	0.2
M8964	Ca	500	10000	2.5
M9055	Cd	5	1000	0.25
M8726	Co	10	1000	0.5
M8725	Cr	10	1000	0.5
M8961	Cu	10	10000	0.05
M8962	Fe	300	10000	1.5
M8845	Mg	500	10000	2.5
M8842	Mn	10	1000	0.5
M8843	Mo	10	1000	0.5
M8728	Ni	10	1000	0.5
M8734	Pb	10	1000	0.5
M9053	Sb	20	1000	1
M9054	Se	10	1000	0.5
M8844	Tl	20	1000	1
M9056	V	10	1000	0.5
M8731	Zn	10	1000	0.5
M8841	B	10	1000	0.5
M8565	Si	10	1000	0.5
M8727	Li	20	1000	1
M8732	Sn	10	1000	0.5
M8736	Sr	10	1000	0.5
M8735	Ti	110	1000	5.5
M8733	W	10	1000	0.5
M8738	Na	1000	10000	5
M8737	K	5000	10000	25

Bring up to mark with DI H2O. Expires 12-09

Of this Base standard pipet 10 mls into 500 ml volumetric to create working std.

#M9094 LOQ Base std 8-2-09

#M9094

LOQ Check Base SPIKE PREPARATION

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	Log #	LOQ (ug/L)	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	M9052	3	1000	0.15
Al	M8967	2	10000	0.01
As	M9058	10	1000	0.5
Ba	M8959	1	1000	0.05
Be	M8840 2/10	0.4	1000	0.02
Ca	M8964	20	10000	0.1
Cd	M9055	0.5	1000	0.025
Co	M8726 12/09	1	1000	0.05
Cr	M8725 12/09	2	1000	0.1
Cu	M8961	5	10000	0.025
Fe	M8962	300	10000	1.5
Mg	M8845	10	10000	0.05
Mn	M8842 2/10	5	1000	0.25
Mo	M8843 2/10	1	1000	0.05
Ni	M8728 12/09	1	1000	0.05
Pb	M8734 12/09	5	1000	0.25
Sb	M9053	5	1000	0.25
Se	M9054	5	1000	0.25
Tl	M8844 2/10	5	1000	0.25
V	M9056	2	1000	0.1
Zn	M8731 12/09	2	1000	0.1
Na	M8737 12/09	20	1000	1
K	M8738 12/09	20	1000	1
B	M8841 2/10	5	1000	0.25
Si	M8565 8/09	5	1000	0.25
Li	M8727 12/09	2	1000	0.1
Sn	M8732 12/09	10	1000	0.5
Sr	M8736 12/09	10	1000	0.5
Ti	M8735 12/09	1000	10000	5
W	M8733 12/09	5000	10000	25

Of this Base standard pipet 10 mls into 500 ml volumetric.

EX 12-09

#M9075 GvE Soil Hg LOQ ✓ 0.09mL of 100ng/L Hg (#M9068) into 100mL = 0.09ng/L Hg
07/14/09

#M9076 AMA 07/20/09	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M9077 AMA 07/20/09	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8564) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M9078 AMA 7/20/09	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9077) into 100ml = 3.0ug/L Hg
#M9079 AMA 7/20/09	Hg MRL:	0.2ml of 100ug/L Hg (#M9077) into 100ml = 0.2ug/L Hg
#M9080 AMA 7/20/09	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 439) with 1part HNO3 (AB: 440)

#M9081 AMA 7/20/09 NaCl Hydroxylamine Sulfate Reagent - Dissolve 60g NaCl (#8577(A)) and 60g Hydroxylamine Sulfate (#M8810) in 500mL Milli-Q water. Exp. 1/20/10

#M9082 GvE 07/20/09 Sodium Chloride Fisher Chemical Lot No. 091363 f.w. 58.44

#M9083 GvE 07/20/09 Tin (II) Chloride Dihydrate Fisher Chemical Lot No. 085968 f.w. 225.65

#M9084 AMA 07/21/09 Potassium Permanganate Soln: 50g Potassium Permanganate (#7841) dissolved into 1000mL Milli-Q H_2O. Exp 01-21-10

#M9085 AMA 7/21/09 TCLP Extraction Fluid #1: Exp. 7/21/10 Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (#M9086). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05

#M9086 AMA 7/21/09 10N NaOH: Into a 1L vol. flask, partially filled with D.I. H_2O, dissolve 400g NaOH (W21448) and bring up to vol. with D.I. H_2O. Exp. 7/21/10

#M9087 AMA 7/21/09 TCLP Extraction Fluid #1: Exp. 7/21/10 Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (#M9086). Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05.

#M9062 GLE 07/11/09 TCLP Extraction Fluid #1: Fill a 20L Carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (#M9033) Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 7-12 ~~Portland Cal~~

#M9063 GLE Mercury Standard (1mg/mL) in 10% HNO_3. ACROS Organics Lot No. A0254552 Exp. 07/28/14

190064 AMA 07/13/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (#M9033) Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 7/13/10

190065 AMA 07/13/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (#M9033) Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 7/13/10

#M9066 GLE 07/14/09 Potassium Persulfate: 50g Potassium Persulfate (#8228) dissolved into 1000mL D.I. H_2O. Exp. 01/14/10

M9067 GLE 07/14/09	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
M9068 GLE 07/14/09	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M8564) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
M9069 GLE 07/14/09	Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 9068) into 100ml = 3.0ug/L Hg
M9070 GLE 07/14/09	Hg MRL:	0.2ml of 100ug/L Hg (#M 9068) into 100ml = 0.2ug/L Hg
M9071 GLE 7/14/09	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 439) with 1part HNO3 (AB: 440)
M9072 GLE 07/14/09	Hg Water MDL ✓ (0.2% HNO_3, HCl)	0.04mL of 100 µg/L Hg (#M9068) into 100mL = 0.04 µg/L Hg
M9073 GLE 07/14/09	Hg LOQ ✓ Water (0.2% HNO_3, HCl)	0.13mL of 100 µg/L Hg (#M9068) into 100mL = 0.13 µg/L Hg
#M9074 GLE 07/14/09	Soil Hg MDL ✓	0.03mL of 100 µg/L Hg (#M9068) into 100mL = 0.03 µg/L Hg

#M9075 GLE Soil Hg 07/14/09

#M9076 AMA 07/20/09 Hg (0.

#M9077 AMA 07/20/09 Hg (0.2

#M9078 AMA 7/20/09 Hg (0.2

#M9079 AMA 7/20/09 Hg

#M9080 AMA 7/20/09 Hg

#M9081 AMA 7/20/09 NaCl Hyd

#M9082 GLE 07/20/09 Sodium C

#M9083 GLE 07/20/09 Tin (II) Ch

#M9084 AMA 07/21/09 Potassium

#M9085 AMA 7/21/09 TCLP Extrac Exp. 7

#M9086 AMA 7/21/09 10N NaOH

#M9087 AMA 7/21/09 TCLP Extra Exp. 7/21

#M8722 12-22-08 : Custom Assurance Std Spex Certiprep lot# 14-56JB. ex Nov 15 2009

#M8723 12-22-08: Spike Sample Std 1 Spex certiprep lot# 6-1116S ex Nov 15 2009

#M8724 12-22-08 Mercury 1000mg/L Spex Certiprep lot# CL4-93H6 ex Dec 15 2009

#M8725 12-22-08 Chromium 1000 mg/L Spex Certiprep lot# CL4-80CR ex Dec 15 2009

#M8726 12-22-08 Cobalt 1000mg/L Spex Certiprep lot # CL4-109CO ex 12/15/09

#M8727 12-22-08 Lithium 1000mg/L Spex Certi prep lot # 14-94L; ex 12-15-09

#M8728 12-22-08 Nickel 1000mg/L Spex Certiprep lot # 14-125Ni ex 12-15-09

#M8729 12-22-08 Tin 1000mg/L Fisher lot # 080222 ex 1/2010

#M8730 12-22-08 StableCal Std200NTU Hach lot# A8331 ex Dec/2010 12-22-08

#M8731 12-22-08 Zn 1000mg/L Spex Certiprep lot # 14-472n ex Dec 15 2009

#M8732 12-22-08 Sn 1000mg/L Spex Certiprep lot# CL4-65SN ex Dec 15 2009

#M8733 12-22-08 W 1000mg/L Spex Certiprep lot# PLW2-24 ex Dec 15 2009

#M8734 12-22-08 Pb 1000mg/L Spex Certiprep lot# CL4-106PB ex 12/15/09

#M8735 12-22-08 Titanium 1000mg/L Spex Certiprep lot# 14-62TI ex 12-15-09

#M8736 12-22-08 Sr 1000 mg/L ~~1000 mg/L~~ 12-22-08 Spex Certiprep lot# PLSR2-24 ex 12-15-09

#M8737 12-22-08 K 10,000 mg/L Spex Certiprep lot# AA11-93K ex 12-15-09.

#M8738 12-22-08 Na 10,000 mg/L Spex Certiprep lot# PLNA2-3X ex 12-15-09.

#M8739 12-22-08 Quality Control Std 7 Spex Certiprep lot# 6-1236S ex 12-15-09

#M8740 ICSA. ato 500 ml Vol flask pipet 50 mls of M8550 bring up to 1% HCL 12-2408 mark with DI H2O ex 7/09.
1% HNO3 4/5 mls M8552

INORGANIC
CLP FORMS
DOCUMENTS

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DAASS-040-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82743
% Solids:	98.2	Lab Sample ID:	877666
Analytical Method:	EPA 8000C	Date Received:	12/03/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72416	Analysis Date/Time	12/10/2010 12:45
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	98.2					

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Sample Description

DAASS-040-0001-SO

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82743
% Solids:	98.2	Lab Sample ID:	877666
Analytical Method:	EPA 3060A/7196A	Date Received:	12/03/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72342	Analysis Date/Time	12/08/2010 16:00
Analytical Prep Batch #:	35712	Prep. Date/Time:	12/08/2010 12:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.4	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DAASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82743
% Solids:	98.3	Lab Sample ID:	877664
Analytical Method:	EPA 8000C	Date Received:	12/03/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72416	Analysis Date/Time	12/10/2010 12:45
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	98.3					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DAASS-041-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82743
% Solids:	98.3	Lab Sample ID:	877664
Analytical Method:	EPA 3060A/7196A	Date Received:	12/03/2010
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72342	Analysis Date/Time	12/08/2010 16:00
Analytical Prep Batch #:	35712	Prep. Date/Time:	12/08/2010 12:00

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18540-29-9	Hexavalent Chromium	1.9	U	1.9	2.0	6.4	6.5

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DAASS-042-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82743
% Solids:	81.1	Lab Sample ID:	877663
Analytical Method:	EPA 8000C	Date Received:	12/03/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72267	Analysis Date/Time	12/06/2010 15:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	81.1					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DAASS-043-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82743
% Solids:	81.1	Lab Sample ID:	877662
Analytical Method:	EPA 8000C	Date Received:	12/03/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72267	Analysis Date/Time	12/06/2010 15:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	81.1					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-003-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82743
% Solids:	70.8	Lab Sample ID:	877669
Analytical Method:	EPA 8000C	Date Received:	12/03/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72267	Analysis Date/Time	12/06/2010 15:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	70.8					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-003-0002-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82743
% Solids:	76.1	Lab Sample ID:	877670
Analytical Method:	EPA 8000C	Date Received:	12/03/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72267	Analysis Date/Time	12/06/2010 15:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	76.1					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-015-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82743
% Solids:	82.4	Lab Sample ID:	877672
Analytical Method:	EPA 8000C	Date Received:	12/03/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72267	Analysis Date/Time	12/06/2010 15:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	82.4					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-023-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82743
% Solids:	80.5	Lab Sample ID:	877671
Analytical Method:	EPA 8000C	Date Received:	12/03/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72267	Analysis Date/Time	12/06/2010 15:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	80.5					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-033-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82743
% Solids:	77.5	Lab Sample ID:	877667
Analytical Method:	EPA 8000C	Date Received:	12/03/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72267	Analysis Date/Time	12/06/2010 15:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	77.5					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DLASS-043-0001-SO

Lab Name:	CT Laboratories	Contract:	USACE - LOUISVILLE-RAVENNA
Matrix (soil/water):	SOIL	SDG No.:	82743
% Solids:	88.7	Lab Sample ID:	877668
Analytical Method:	EPA 8000C	Date Received:	12/03/2010
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	72267	Analysis Date/Time	12/06/2010 15:30
Analytical Prep Batch #:		Prep. Date/Time:	

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	88.7					

CT LABORATORIES
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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72342 Lab Sample ID: 879720

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	12/8/10 16:00	500.0	455.0	91	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72342 Lab Sample ID: 879722

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	12/8/10	16:00	500.0	512.0	102	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72342 Lab Sample ID: 879723

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	12/8/10 16:00	500.0	508.0	102	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

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

SDG No.: 82743

Analytical Run #: 72342 Lab Sample ID: 879725

Calibration Source: SPEX, Ultra and Mallinkrodt

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	M
Hexavalent Chromium	12/8/10 16:00	500.0	504.0	101	90	110	SP

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

3-1

INITIAL CALIBRATION BLANKS

ICB

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

SDG No.: 82743

Analytical Run #: 72342 Lab Sample ID: 879721

Analytical Prep Batch #: Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	12/08/2010 16:00	1.000	U	50	50	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

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

SDG No.: 82743

Analytical Run #: 72342 Lab Sample ID: 879724

Analytical Prep Batch #: Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	12/08/2010 16:00	0	U	50	50	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

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

SDG No.: 82743

Analytical Run #: 72342 Lab Sample ID: 879726

Analytical Prep Batch #: Preparation Date/Time:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	12/08/2010 16:00	-10.00	U	50	50	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

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

SDG No.: 82743

Analytical Run #: 72342 Lab Sample ID: 879010

Analytical Prep Batch # 35712 Preparation Date/Time: 12/08/2010 12:00

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	M
Hexavalent Chromium	12/08/2010 16:00	0.0400	U	1.9	3.2	SP

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

DLASS-003-0001-SO

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

Matrix: SOLID SDG No.: 82743

% Solid for Sample: 70.8 Concentration Units: %

Analytical Run #: 72267 Sample #: 878177 Parent Sample #: 877669

Analytical Prep Batch # Analytical Preparation Date/Time:

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Solids, Percent	12/06/2010	15:30	5	70.8		74.3		5		GRA

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

DAASS-041-0001-SO

Lab Name: CT Laboratories

Contract: USACE - LOUISVILLE-RAVENNA

Matrix: SOLID

SDG No.: 82743

% Solid for Sample: 98.3

Concentration Units: %

Analytical Run #: 72416

Sample #: 880332

Parent Sample #: 877664

Analytical Prep Batch #

Analytical Preparation Date/Time:

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Solids, Percent	12/10/2010	12:45	5	98.3		98.3		0		GRA

CT LABORATORIES
delivering more than data from your environmental analyses

7-2

Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract USACE - LOUISVILLE-RAVENNA

LCS Source: SPEX and Ultra SDG No.: 82743

Concentration Units: mg/kg

Analytical Run #: 72342 Sample No.:#: 879011

Analytical Prep Batch #: 35712 Preparation Date/Time: 12/08/2010 12:00

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Hexavalent Chromium	12/08/2010 16:00	83-115	17.7		20.0	88		SP

INORGANICS
RAW DATA
DOCUMENTS

```
LINEAR{32}CURVE{32}FIT{13}{10}
THROUGH{32}0{13}{10}
{13}{10}
{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}{32}ENTERED{32}{32}{32}{32}CALCULATED{13}{10}
STD{32}{32}{32}ABS{32}{32}{32}{32}{32}{32}CONC{32}{32}{32}{32}{32}{32}{32}{32}CONC{32}{32}{32}{32}ERROR{13}{10}
{32}1{32}{32}-0.000{32}{32}{32}{32}0.000{32}{32}{32}{32}{32}{32}-0.316{32}{32}{32}-0.316{13}{10}
{32}2{32}{32}{32}0.028{32}{32}{32}{32}{32}100.{32}{32}{32}{32}{32}{32}{32}{32}{32}84.{32}{32}{32}{32}{32}-16.{13}{
10}
{32}3{32}{32}{32}0.082{32}{32}{32}{32}{32}250.{32}{32}{32}{32}{32}{32}{32}{32}{32}242.{32}{32}{32}{32}{32}{32}-8.{13}{
10}
{32}4{32}{32}{32}0.167{32}{32}{32}{32}{32}500.{32}{32}{32}{32}{32}{32}{32}{32}{32}496.{32}{32}{32}{32}{32}{32}-4.{13}{
10}
{32}5{32}{32}{32}0.342{32}{32}{32}{32}1000.{32}{32}{32}{32}{32}{32}{32}{32}1010.{32}{32}{32}{32}{32}{32}10.{13}{10}
----------------------------------------{13}{10}
{13}{10}
SLOPE{32}{32}{32}{32}{32}{32}{32}{32}0.0003{13}{10}
INTERCEPT{32}{32}{32}{32}{32}0.000{13}{10}
CORR{32}COEFF{32}{32}{32}0.9997{13}{10}
--------------------{13}{10}
{13}{10}
```

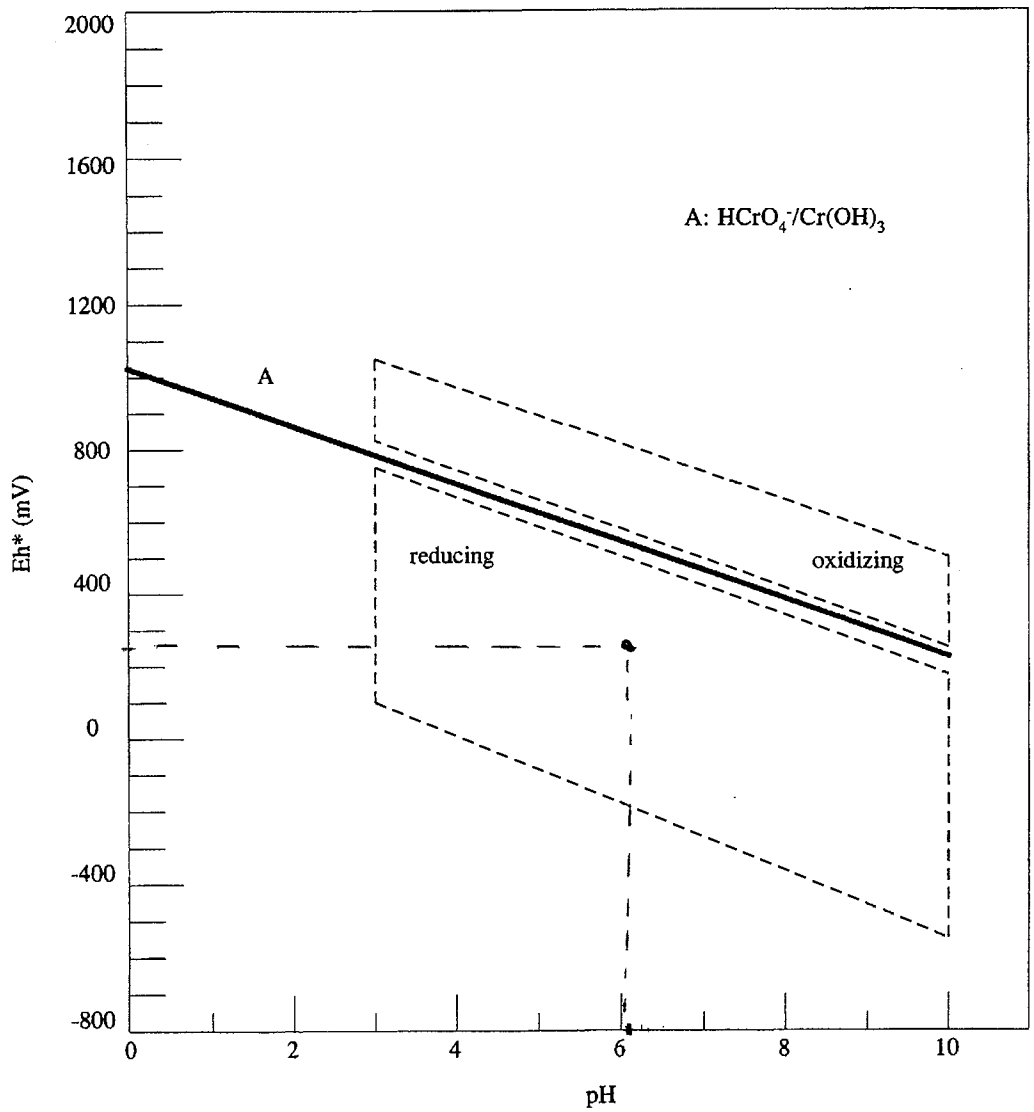
ICV
455.
ICB
1.
CCV
512.
LCSS
442.
MBS
1.
870194
-29.
DUP870194
-16.
SOL MS870194
-25.
INSOL MS870194
603.
PDS 870194
869.
870195
2.
870196
3.
870197
-51.
870208
-31.
870209
20.
CCV
508.
CCB
0.
870210
-53.
870211
-8.
20 CEJ 12/8/10
-107.
870212
33.
870213
-9.
870214

-9.
870215
28.
870216
38.
877664
-39.
877666
42.
CCV
504.
CCB
-10.
MDL 1
247.
MDL 2
256.
MDL 3
209.
MDL 4
256.
MDL 5
269.
MDL 6
219.
MDL 7
244.
MDL 8
267.
CCV
508.
CCB
-13.

87019 4

FIGURE 2
Eh/pH PHASE DIAGRAM

The dashed lines define Eh-pH boundaries commonly encountered in soils and sediments.



* Note the Eh values plotted on this diagram are corrected for the reference electrode voltage: 244 mV units must be added to the measured value when a separate calomel electrode is used, or 199 mV units must be added if a combination platinum electrode is used.

pH = 6.08

eH = 46 + 199 = 245

TOTAL SOLIDS (PERCENT)

LIMS #: 72267

Start Date:	**12/06/2010**	Method: SW846-5030A			**Analyst:**	CES
	Sample ID#	**Dish#**	**Tared Weight g** *(D)*	**Wet Weight g** *(E)*	**Dry Weight g** *(F)*	**RESULTS % TOTAL SOLIDS**
1)	877662	460	2.35	13.01	10.99	81.1%
2)	877663	455	2.36	15.45	12.98	81.1%
3)	877667	465	2.34	13.45	10.95	77.5%
4)	877668	459	2.34	13.27	12.03	88.7%
5)	877670	464	2.37	13.9	11.14	76.1%
6)	877671	463	2.38	12.91	10.86	80.5%
7)	877672	467	2.36	13.7	11.70	82.4%
8)						0.0%
9)						0.0%
10)						0.0%
11)						0.0%
12)						0.0%
13)						0.0%
14)						0.0%
15)						0.0%
16)						0.0%
17)						0.0%
18)						0.0%
19)						0.0%
*20)	877669	2317	2.67	13.96	10.66	70.8%
Dup 20)	878177	3931	2.65	20.96	16.25	74.3%

Dry Weight = Sample + Dish (gms)		* 2nd Reading,	10.66	
Wet Weight = Sample + Dish (gms)			Set RPD:	5%
	Balance: XD-2200			
	Start Time: 15:30		*mg Difference	0
	Stop Date: 12/7/2010			
	Stop Time: 9:00			

Calculations

*2nd reading must be within 50mg of the 1st

% Total Solids = ((*F-D*)/(*E-D*))*100

RPD, % = Absolute value of…((Sample-Dup % TS)/(Average%TS))*100

TOTAL SOLIDS (PERCENT)

LIMS #: 72416

Start Date: 12/10/2010 | Method: SW846-5030A | **Analyst:** JTG

	Sample ID#	Dish#	Tared Weight g *(D)*	Wet Weight g *(E)*	Dry Weight g *(F)*	RESULTS % TOTAL SOLIDS
1)	877666	814	2.39	17	16.74	98.2%
2)						0.0%
3)						0.0%
4)						0.0%
5)						0.0%
6)						0.0%
7)						0.0%
8)						0.0%
9)						0.0%
10)						0.0%
11)						0.0%
12)						0.0%
13)						0.0%
14)						0.0%
15)						0.0%
16)						0.0%
17)						0.0%
18)						0.0%
19)						0.0%
*20)	877664	815	2.38	16.41	16.17	98.3%
Dup 20)	880332	813	2.31	13.77	13.57	98.3%

Dry Weight = Sample + Dish (gms)

Wet Weight = Sample + Dish (gms)

*** 2nd Reading,** 16.17

Set RPD: 0%

Balance: XD-2200

*mg Difference 0

Start Time: 12:45

Stop Date: 12/13/2010

Stop Time: 11:15

*2nd reading must be within 50mg of the 1st

Calculations

% Total Solids = ((*F-D*)/(*E-D*))*100

RPD, % = Absolute value of…((Sample-Dup % TS)/(Average%TS))*100

INORGANICS
LOGBOOK
DOCUMENTS

WHEXCHROME Solids QSM Analytical Run
72342 on 12/14/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82424	870194		11/9/2010 1220			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-022-0001-SO							35712			
82424	870195		11/9/2010 1230			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-022-0003-SO							35712			
82424	870196		11/9/2010 1100			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-008-0001-SO							35712			
82424	870197		11/9/2010 1030			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-021-0001-SO							35712			
82424	870208		11/9/2010 1620			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-029-0001-SO							35712			
82424	870209		11/9/2010 0900			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-007-0001-SO							35712			
82424	870210		11/9/2010 1000			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-020-0001-SO							35712			
82424	870211		11/9/2010 1549			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-028-0001-SO							35712			
82424	870212		11/10/2010 1025			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-002-0003-SO							35712			
82424	870213		11/9/2010 1630			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-012-0001-SO							35712			
82424	870214		11/9/2010 1500			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-025-0001-SO							35712			
82424	870215		11/9/2010 0900			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-006-0001-SO							35712			
82424	870216		11/9/2010 1458			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DLASS-013-0001-SO							35712			
82743	877664		12/2/2010 1325			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DAASS-041-0001-SO							35712			
82743	877666		12/2/2010 1355			USACE - LOUISVILLE	RAVENNA	HEX CHROME QSM SOIL		S	**4**	
		DAASS-040-0001-SO							35712			
	879010							HEX CHROME QSM SOIL				
				MBS					35712			
	879011							HEX CHROME QSM SOIL				
				LCSS					35712			
	879012		11/9/2010 1220					HEX CHROME QSM SOIL				
		DLASS-022-0001-SO		DUP	870194				35712			
	879013		11/9/2010 1220					HEX CHROME QSM SOIL				
		DLASS-022-0001-SO		MSS	870194				35712			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

WHEXCHROME Solids QSM Analytical Run
72342 on 12/14/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	879014		11/9/2010 1220					HEX CHROME QSM SOIL				
		DLASS-022-0001-SO		MSS	870194				35712			
	879720							WHEXCHROME Solids QSM				
				ICV								
	879721							WHEXCHROME Solids QSM				
				ICB								
	879722							WHEXCHROME Solids QSM				
				CCV								
	879723							WHEXCHROME Solids QSM				
				CCV								
	879724							WHEXCHROME Solids QSM				
				CCB								
	879725							WHEXCHROME Solids QSM				
				CCV								
	879726							WHEXCHROME Solids QSM				
				CCB								
	881255							HEX CHROME QSM SOIL				
				PDSS	870194							

28 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET 2
on 12/8/2010

Prep Batch: 35712

Date Prepped: _____

Dig soln W25231
MgCl2 W22728
Ical W25232
LCS W25308

Sol spike W23660 other DPC - W25302
Insol spike W17292
PDS W23660 0.1mL
Buffer W23039

Prepped By: _____

Date Entered: _____

Folder #	Order	QC Type	Link	Test	Client Company Name	Client Sample Description	Matrix	Sample Date	Sample Due Date
	879010	MBS 2	0	HEX CHROME QSM			SOLID		
	879011	LCSS 1	0	HEX CHROME QSM			SOLID		
82424 *	870194	3, 4, 5, 6, 7 (Dup Sol most PDS)		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-022-0001-SO	SOIL	11/09/2010	11/23/2010
	870195	8		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-022-0003-SO	SOIL	11/09/2010	11/23/2010
	870196	9		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-008-0001-SO	SOIL	11/09/2010	11/23/2010
	870197	10		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-021-0001-SO	SOIL	11/09/2010	11/23/2010
	870208	11		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-029-0001-SO	SOIL	11/09/2010	11/23/2010
	870209	12		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-007-0001-SO	SOIL	11/09/2010	11/23/2010
	870210	13		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-020-0001-SO	SOIL	11/09/2010	11/23/2010
	870211	14		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-028-0001-SO	SOIL	11/09/2010	11/23/2010
	870212	15		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-002-0003-SO	SOIL	11/10/2010	11/23/2010
	870213	16		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-012-0001-SO	SOIL	11/09/2010	11/23/2010
	870214	17		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-025-0001-SO	SOIL	11/09/2010	11/23/2010
	870215	18		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-006-0001-SO	SOIL	11/09/2010	11/23/2010
	870216	19		HEX CHROME QSM	USACE - LOUISVILLE	DLASS-013-0001-SO	SOIL	11/09/2010	11/23/2010
82743	877664	20		HEX CHROME QSM	USACE - LOUISVILLE	ASTU5-MI-B	SOIL	12/02/2010	12/15/2010
	877666	21		HEX CHROME QSM	USACE - LOUISVILLE	ASTU5-MI-S	SOIL	12/02/2010	12/15/2010

PREP WORKSHEET 2
on 12/8/2010

Folder #	Order	QC Type	Link	Test	Client Company Name	Client Sample Description	Matrix	Sample Date	Sample Due Date
	879012	DUP	870194	HEX CHROME QSM		DLASS-022-0001-SO	SOIL	11/09/2010	
	879013	MSS	870194	HEX CHROME QSM		DLASS-022-0001-SO	SOIL	11/09/2010	
	879014	MSS	870194	HEX CHROME QSM		DLASS-022-0001-SO	SOIL	11/09/2010	
	879015	MSS	870194	HEX CHROME QSM		DLASS-022-0001-SO	SOIL	11/09/2010	

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

MDL Study 22-29 w25303

Distibution: C:\LIMSREPS\PREPWRKSHT2.RPT

PREP WORKSHEET
on 12/8/2010

Prep Batch **35,712**

Date Prepped: 12/8/2010

Prepped By:: CES

Date Entered:

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	879010	MBS		HEX CHROME QSM SOIL	SOLID	100	2.5			
	879011	LCSS		HEX CHROME QSM SOIL	SOLID	100	2.5			
82424	870194			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
	870195			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
	870196			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
	870197			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
	870208			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
	870209			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
	870210			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
	870211			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
	870212			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
	870213			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
	870214			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
	870215			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
	870216			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
82743	877664			HEX CHROME QSM SOIL	SOIL	100	2.5		N	
	877666			HEX CHROME QSM SOIL	SOIL	100	2.5		N	

PREP WORKSHEET
on 12/8/2010

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	879012	DUP	870194	HEX CHROME QSM SOIL	SOIL	100	2.5			
	879013	MSS	870194	HEX CHROME QSM SOIL	SOIL	100	2.5			
	879014	MSS	870194	HEX CHROME QSM SOIL	SOIL	100	2.5			
	879015	MSS	870194	HEX CHROME QSM SOIL	SOIL	100	2.5			

Control Spike/Control Spike Dup Reference Number:_____ Methanol Supplier/Lot #:_____

Notes:_____

Distibution: C:\LIMSREPS\PREPWRKSHT.RPT

Data Validation Checklist

LIMS #: 12342	Method: Hexavalent Chromium- Alkaline digestion SW846-3060A/7196A			
Analysis Date	Analyst / Data Interpreter	Independent Reviewer	Date of Review	Approved
12/6/10	CES/CEE	RD	12/14/10	Yes / No

Instructions: Complete one checklist per *analytical run*. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement:	Acceptance Criteria	Analyst Review Yes	Analyst Review No	Independent Review Yes	Independent Review No	Comments: (indicate reference to an attachment if necessary)
1. Were the samples analyzed within hold time?	30 days	X		✓		
2. Was the calibration performed using the required number of standards?	Five plus a blank	X				
3. Is the standard prep log number noted on the analytical report?	---	X				
3. Was the correlation coefficient acceptable?	>=0.995	X				
4. Were the ICV and ICB run immediately after the calibration curve?	---	X				
5. Was the ICV recovery acceptable?	90-110%	X				
6. Was the ICB result acceptable?	<LOD	X				
7. Were the CCV's and the CCB's analyzed at the required frequency?	1per 10 samples	X				
8. Were the CCV recoveries acceptable?	90-110 %	X				
9. Were the CB results acceptable?	<LOD	X				
10. Was a LCS ran at the required frequency?	1 per 20 samples	X				
11. Was the LCS recovery acceptable?	80-120 %	X				
12, Was the LCS used before the indicated expiration date?	---	X				
13. Were samples results corrected for sample color affects?		X				
14. Were the MS and MSD prepared at the required frequency?	1per 20 per matrix	X		✓		
15. Were the MS and MSD recoveries acceptable?	Within in house QC limits		X		✓	Sol ← insol spike. Failed but supernatant Flag
16. Was the RPD between the MS and MSD acceptable?	Within in house QC limits	X		✓		
17. Are all sample on the job lists accounted for?	---	X		✓		

Instrument Run Log

			Instrument ID:	Milton Roy Spectronic 401	Spectrophotometer		
Date	Time Start/End	Analyst	Analytes	Samples Analyzed	Cal Std ID	Comments	
12-8-10	1600 / 1700	CES	Cr^{+6}	72348	—		
12-10-10	0950 - 1035	JTG	COD	Test 02 ←→ 72376, 72377			
12-10-10 CES 12/10/10	~~1200 1400 - 1500~~ ~~1600 - 1647~~	CES	microbp.	72404, 72405	—		
12-13-10	1300 - 1330	JTG	Cr^{+6}	72278	—		

0048

W25307 JTB 12-13-10 — Cr^{+6} ICV/LCS: into a 50mL VF pipetted 5mL W23663 + BTV w/ Dig. soln W25305. exp: 12-14-10

W25308 JTB 12-13-10 — Cr^{+6} DPC: into a 200mL VF dissolved 1g W25133 in acetone, + BTV w/ acetone JT Baker lot #J14E57 exp: July 31, 2011 exp: 12-14-10 JTB 12-13-10

W25309 JTB 12-13-10 — Cr^{+6} Soil MDL ✓: into a 50mL VF pipetted 0.325mL W23663 + BTV w/ Dig. soln. W25305. TV: 65 ug/L = 2.6 mg/kg exp: 12-14-10

W25310 KWB 12-13-10 — TKN/TPhos MDL Study - Into Eight 50mL VF pipetted 5mL W25155 and BTV w/ DI H_2O. Exp. 1-13-11. TV = 1 mg/L

W25311 KWB 12-13-10 — TKN/T.Phos MDL check - Into a 50mL VF pipetted 2.5mL W25155 and BTV w/ DI H_2O. Exp. 1-13-11 TV = 0.5 mg/L

W25312 ESC 12/13/10 — NaOH/NaCl: Into a 500mL vol. dissolved 80g NaCl W21417 + 10g NaOH W24679 & brought to vol. w/ DI H_2O exp: 1/13/11

W25313 ESC 12/13/10 — Ascorbic Acid Reagent: Into a 500mL vol. dissolved 30g Ascorbic Acid W24793 + 0.5g SDS W23748 & brought to vol. w/ DI H_2O exp: 12/14/10

W25314 KWB 12-13-10 — NH_3 LCS - Into a 500mL VF pipetted 2.5mL W25114 and BTV w/ DI H_2O. Exp. 12-20-10

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W25297	CES	IC NO_2 + F^- spike - Into a 100mL vol pipetted 12.8mL
12/10/10		NO_2 W25160 + 3.2mL F W29612 + filled to vol w/
		dI H_2O. exp 1/10/11
W25298	VNB	TLN / Phos Dig Soln - into a 2L VF dissolved 266g potassium
12-10-10		sulfate W24726 and volumetrically added 50mL Mercuric
		Sulfate W25102 and 400mL H_2SO_4 W24986, brought to
		vol w/DI H_2O. Exp. 1-10-11
W25299	ESC	Pyridine: Into a 500mL vol. dissolved 7.5g barbituric acid
12/10/10		W22756, 7.5mL HCl W24267 & volumetrically added 37.5mL
		pyridine W23188 & brought to vol. w/ DI H_2O exp: 12/17/10
		500 ESC 12/10/10
W25300	ESC	Chloramine T: Into a ~~250~~ mL vol. dissolved 2g Chloramine T
12/10/10		W22491 + brought to vol w/DI H_2O exp: 12/11/10
W25301	CES	Prepped 12-8-10 Cr^{+6} LCS - Into a 50mL vol pipetted 5mL
12/10/10		W23663 - filled to vol w/ dig soln W25231. exp 12-9-10
W25302	CES	Prepped 12-8-10 Cr^{+6} soil DPC - Into a 200mL vol dissolved
12/10/10		1g DPC W25133 in acetone Baker lot# J14E52
		Cat # 9254-03 exp 12-9-10
W25303	CES	Prepped 12-8-10 Cr^{+6} MDL Study - Into 8 dig tubes
12/10/10		pipetted 0.025mL W23660 + brought to 50mL w/ dig soln
		W25231. exp 12-9-10
W25304	VNB	Cr^{+6} MDL check - Into a 50mL VF pipetted 7.5mL W23666
12-10-10		and BTV w/DI H_2O. Exp. 1-9-11. TV = 15 ug/L
W25305	JTG	Cr^{+6} Dig. Soln: Into a 2L vol. dissolved 40g sodium
12-13-10		carbonate anhydrous W25136 & 40g NaOH W24679
		& BTV w/ DI H_2O. exp: 12-13-11
W25306	JTG	Cr^{+6} Ical: into 5 50mL VF pipetted 0, 1, 2.5, 5,
12-13-10		10mL W23661 & BTV w/ Dig soln. W25305
		exp: 12-14-10

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W25297 CES 12/10/10 — IC NO_2 + F^- spike - Into a 100mL vol pipetted 12.8mL NO_2 W25160 + 3.2mL F W29612 + filled to vol w/ dI H_2O. exp 1/10/11

W25298 KMB 12-10-10 — TKN / Phos Dig Soln - Into a 2L VF dissolved 266g potassium sulfate W24726 and volumetrically added 50mL Mercuric Sulfate W25102 and 400mL H_2SO_4 W24986, brought to vol w/ DI H_2O. Exp. 1-10-11

W25299 ESC 12/10/10 — Pyridine: Into a 500mL vol. dissolved 7.5g barbituric acid W22756, 7.5mL HCl W24267 & volumetrically added 37.5mL pyridine W23188 & brought to vol. w/ DI H_2O exp: 12/17/10

W25300 ESC 12/10/10 — Chloramine T: Into a ~~250~~ 500 mL vol. dissolved 2g Chloramine T W22491 + brought to vol w/ DI H_2O exp: 12/11/10 ESC 12/10/10

W25301 CES 12/10/10 — Prepped 12-8-10 Cr^{+6} LSS - Into a 50mL vol pipetted 5mL W23663 - filled to vol w/ dig soln W25231. exp 12-9-10

W25302 CES 12/10/10 — Prepped 12-8-10 Cr^{+6} soil DPC - Into a 200mL vol dissolved 1g DPC W25133 in acetone. Baker lot# J14E52 Cat # 9254-05 exp 12-9-10

W25303 CES 12/10/10 — Prepped 12-8-10 Cr^{+6} MDL Study - Into 8 dig tubes pipetted 0.025mL W23660 + brought to 50mL w/ dig soln W25231. exp 12-9-10

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W25234 JTh 12-7-10 — Cr^{+6} DPC: into a 200mL vf dissolved 1g W25133 in ~~acetone~~ JTh 12-7-10 acetone, & BN w/ acetone JT Baker lot# J14 E52 exp: July 31, 2011 exp: 12-8-10

W25234 EJC 12-7-10 — TNTP bypo chlorite - Into a 500mL vol volumetrically added 30 mL bleach W24747 & filled to vol w/ DI # 220. exp 12-8

W25235 EJC 12-7-10 — CN LCS working: Into a ~~100mL~~ EJC 12-7-10 200mL vol. pipetted 2mL W25034 & brought to vol. w/ 0.25N NaOH W25236 exp: 12/14/10 tv = 10,000 mg/L

W25236 EJC 12-7-10 — 0.25N NaOH: Into a 2L vol. dissolved 60g NaOH W24679 & brought to vol. w/ DI H_2O & to a final vol. of 6L in a large carboy exp: 1/7/11

W25237 EJC 12-7-10 — CN LCS: Into a 200mL vol. pipetted 1mL W25235 & brought to vol. w/ 0.25N NaOH W25236 exp: 12/14/10 tv = 50 mg/L

W25238 EJC 12-7-10 — CN ICAL/CCV working std Into a ~~100mL~~ 200mL EJC 12-7-10 vol. pipetted 2mL W20763 & brought to vol. w/ 0.25N NaOH W25236 tv = 10,000 mg/L

W25239 EJC 12-7-10 — CN ICAL using W25238 & to vol. w/ 0.25N NaOH W25236

2mL → 200 = 100 mg/L

1.5mL → 200 = 75 mg/L

EJC 12-7-10 1mL ~~0.5mL~~ → 200 = 50 mg/L

using 100 mg/L std

15mL → 50 = 30 mg/L

4mL → 200 = 20 mg/L

5mL → 50 = 10 mg/L

W25240 EJC 12-7-10 — CN LOQWV: Into a 50mL vol. pipetted 0.03mL W25235 & brought to vol. w/ 0.25N NaOH W25236 exp: 12/14/10 tv = 6 mg/L

W25241 EJC 12-7-10 — CN LOQWV: Into a 50mL vol. pipetted 0.1mL W25235 & brought to vol. w/ 0.25N NaOH W25236 exp: 12/14/10 tv = 20 mg/L

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* W25223 mml 12-5-10 VFA MDL Study into 8 100ml Vol. pipetted 0.2ml W25093 W23340 + 2.5ml ~~W25093~~ 12-5-10 mml W23340 + brought to vol. w/ MilliQ H_2O

* W25224 mml 12-5-10 VFA LOD check into a 100ml Vol. pipetted 0.08ml W25084 + brought to vol. w/ Eluent W25219 TV= 0.8mg/L

* W25225 mml 12-5-10 VFA LOQ check into a 100ml Vol. pipetted 0.25ml W25219 + brought to vol. w/ eluent W25219 TV= 2.5mg/L

W25226 KWB 12-6-10 Ascorbic Acid Reag- Into a 500mL VF dissolved 30g Ascorbic W24793 and 0.5g SDS W23748 and BTV w/ DI H_2O. exp. 12-7-10

W25227 JTG 12-6-10 NH_3 LCS: into a 200mL VF pipetted 1mL W25114 + BTV w/ DI H_2O. exp: 12-13-10

W25228 JTG 12-~~16~~6-10 JTG 12-6-10 Boric Rec. soln: into a 1L vol dissolved 20g ~~W21756~~ W25121 JTG 12-6-10 + BTV w/ DI H_2O. exp: 1-6-11

* W25229 ESC 12/6/10 VFA Regenerate: Into a 2L vol. pipetted 10mL W25116 + brought to vol. w/ MilliQ DI H_2O

W25230 KWB 12-6-10 Ti Phos Carrier - Into a 1L VF dissolved 316.7g Potassium Sulfate W24726 and 48mL H_2SO_4 W24984 and BTV w/ DI H_2O. Exp. 1-6-11

W25231 JTG 12-7-10 Cr^{+6} Dig soln: into a 2L vol. dissolved 60g Sodium Carbonate anhydrous W20910 W25136 + 40g NaOH W24679 + BTV w/ DI H_2O. exp: 12-7-11

W25232 JTG 12-7-10 Cr^{+6} Ical: into 5 50mL VF pipetted 0, 1, 2.5, 5, 10mL W23661 + BTV w/ Dig soln W25231. exp: 12-8-10

W25233 JTG 12-7-10 Cr^{+6} ICV/LCS: into a 50mL VF pipetted 5mL W23663 + BTV w/ Dig soln W25231. exp: 12-8-10

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W25153 KMB 11-24-10 — NH_3 H_2SO_4 LOD ✓ - Into a 100mL VF pipetted 0.01mL W24182 and BTV w/ Dilunt W25055. Exp. 12-1-10 TV = 0.10mg/L

W25154 ESC 11/24/10 — Cr^{+6} Soil DPC: Into a 200mL vol. dissolved 1g W25133 in acetone JT Baker Lot # 30E21 Cat # 9254-03 & to vol. w/ acetone exp: 11/25/10

W25155 ESC 11/24/10 — TKN/TPhos LCS: Into a 1L vol. pipetted 10mL W23501 & W25114 & brought to vol. w/ DI H_2O exp: 12/22/10

W25156 JTG 11-29-10 — TSS LCS: into a 1L vol. dissolved 0.4g W24339 & BTV w/ DI H_2O. exp: 12-29-10

W25157 CES 11/29/10 — TKN/TPhos dulunt - Into a 2L vol volumetrically added 480 mL dig soln W25103 ✓ filled to vol w/ dI H_2O. exp 12/29/10

W25158 CES 11/29/10 — TKN/TPhos 250mg/L Ical/CCV Std - Into a 100mL vol pipetted 25mL W24182 ✓ W23289 ✓ filled to vol w/ dI H_2O. exp 12/29/10

W25159 CES 11/29/10 — TKN/TPhos Ical using W25158 ✓ to vol w/ W25152.

		into
A	8	100
B	20	500
C	28	100
D	2.0	
E	0.8	
F	0.4	
G	0.2	
H	0.04	
I	0	

W25160 KMB 11-29-10 — AccuSpec Nitrite Standard 1000 mg/L Cat # 250-220-551 LOT # SC0193201 Expires 11-29-11.

W25161 CES 11/29/10 — TKN hypochlorite - Into a 500mL vol pipetted 50mL bleach W24747 ✓ filled to vol w/ dI H_2O. exp 11/30/10

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W25143 ESC 11/23/10 Methyl Orange soln: Into a 1L vol. volumetrically added 100mL methyl orange soln W23178 & brought to vol. w/ CO_2 free DI H_2O exp: 12/23/10

W25144 ESC 11/24/10 Cr^{+6} ICV/LCS: Into a 50mL vol. pipetted 5mL W23663 & brought to vol. w/ Dig Soln W25125 exp: 11/25/10 tv = 500 mg/L

W25145 ESC 11/24/10 Cr^{+6} MRLS✓ LOQS✓: Into a 50mL vol. pipetted ~~0.8~~ 1.6 mL W23663 & brought to vol. w/ Dig soln W25125 exp: 11/25/10 tv = 160 mg/L ESC 11/24/10

W25146 ESC 11/24/10 Cr^{+6} MDLS✓ LODS✓: Into a 50mL vol. pipetted ~~0.25~~ 0.5 mL W23663 & brought to vol. w/ Dig soln W25125 exp: 11/25/10 tv = 50 mg/L ESC 11/24/10

W25147 KMB 11-24-10 NH_3 Hypochlorite - Volumetrically combined and Mixed 100mL Bleach W24747 and 100 mL DI H_2O. Exp. 11-25-10

W25148 KMB 11-24-10 NH_3 ICAL Using W24182 and to vol. w/ Diluent W25017

A	0.4 mL	50mL final
B	0.2 mL	
C	0.1 mL	
D	0.05 mL	
E	0.025 mL	
F	0.01 mL	100 mL
G	0	50 mL

W25149 KMB 11-24-10 NH_3 H_2SO_4 LCS - Into a 100mL VF pipetted 0.125 mL W25114 and BTV w/ Diluent W25055. Exp. 12-1-10

W25150 KMB 11-24-10 NH_3 H_2SO_4 ICAL - Into a 100mL VF pipetted 0.25mL W24182 and BTV w/ Diluent W25055. Exp. 12-1-10

W25151 KMB 11-24-10 NH_3 H_2SO_4 CCV - Into a 100mL VF pipetted 0.125mL W24182 and BTV w/ Diluent W25055. Exp. 12-1-10

W25152 KMB 11-24-10 NH_3 H_2SO_4 LOQ - Into a 100mL VF pipetted 0.016mL W24182 and BTV w/ Diluent W25055 Exp. 12-1-10 TV = 0.16 mg/L.

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W25124 KMB 11-22-10 — NH_3 Soil LCS- Prepped 11-17-10 Pipetted 0.25mL W24913 into 50mL KCl Ext. Soln - W25047. Exp. 11-24-10

W25125 JTh 11-23-10 — Cr^{+6} Dig soln: into a 2L vol. dissolved 60g sodium Carbonate anhydrous W20910 + 40g NaOH W24679 + BTV w/ DI H_2O. exp: 11-23-11

W25126 JTh 11-23-10 — Cr^{+6} Ical: into 5 50mL VF pipetted 0, 1, 2.5, 5, and 10mL W23661 + BTV w/ dig soln W25125 exp: 11-24-10

W25127 JTh 11-23-10 — Cr^{+6} ICV/LCS: into a 50mL VF pipetted 5mL W23663 + BTV w/ Dig soln W25125 exp: 11-24-10

W25128 JTh 11-23-10 — Cr^{+6} soil DPC: into a 20mL vol. dissolved 1g ~~W23967~~ JTh 11-23-10 W25133 in acetone JT Baker lot# H30E21 cat# 9254-03 exp: 11-24-10 + BTV w/ acetone.

W25129 CES 11/23/10 — IC Mixed LCS/ICV- Into a 500mL vol pipetted 20mL W23422 + filled to vol w/ milliQ H_2O exp 12/23/10

W25130 CES 11/23/10 — IC NO_2 LCS- Into a 500mL vol pipetted 3.5mL W23500 + filled to vol w/ milliQ H_2O. exp 12/23/10

W25131 ESC 11/23/10 ESC 11/23/10 — Ascorbic Acid Reagent: Into a 500mL vol. dissolved 30g Ascorbic acid W24793 + 0.5g SDS W23748 + brought to vol. w/ DI H_2O exp: 11/24/10

W25132 ESC 11/23/10 — TKN/TPhos ICV: Into a 100mL vol. pipetted 0.952mL W25114 + W23501 + brought to vol. w/ Dilvet W25039 exp: 12/22/10 to 10mg/L

W25133 JTh 11-23-10 — 1,5-Diphenylcarbazide Lot # 096686 Fisher. cat # D85-25 exp: 11-23-15

W25134 CES 11/23/10 — Sodium Bicarbonate. Fisher cat# S233-500 lot # 104706 exp 11/23/15

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*W24896 JTB 10-14-10 — Cr^{+6} Dig soln: into a 2L vol. dissolved 60g Sodium Carbonate anhydrous W23099 + 40g NaOH W24679 + BTV w/ DI H_2O. exp: 10-18-11

* W24897 JTB 10-15-10 — Cr^{+6} Ical: into 5 50mL vol. pipetted 0, 1, 2.5, 5, + 10mL W23661 + filled to vol. w/ Dig soln. W24787 exp: 10-19-10

✓ W24898 JTB 10-14-10 — Cr^{+6} ICV/LCS: into a 50mL vol. pipetted 5mL W23663 + BTV w/ dig soln. W24787 exp: 10-19-10

* W24899 JTB 10-18-10 — Cr^{+6} soil DPC: into a 200mL vol. dissolved 1g W18803 in acetone JT Baker Lot#: H30E21 Cat#: 9254-03 exp: 10-19-10

* W24900 CES 10/18/10 — Phenol Buffer - Into a 500mL vol dissolved 1g $K_3Fe(CN_6)$ W22607, 1.55g Boric Acid W21756, 1.875 KCl W23919 volumetrically added 23.5mL 1N NaOH W24965 filled to vol w/ dI H_2O exp 10/25/10

* W24901 CES 10/18/10 — Phenol 4-AAP - Into a 500mL vol dissolved 0.32g W21897 + filled to vol w/ dI H_2O.

* W24902 CES 10/18/10 — Phenol CCV - Into a 200mL vol pipetted 0.1mL W22840 + filled to vol w/ dI H_2O.

* W24903 CES 10/18/10 — Phenol Ical - Into a 100mL vol pipetted 10mL W24906 + filled to vol w/ dI H_2O. exp 10/20/10

W24904 CES 10/18/10 — Ascorbic reagent - Into a 500mL vol dissolved 30g W24798 + 0.5g SDS W23748 + filled to vol w/ dI H_2O.

W24905 CES 10/18/10 — Molybdate color reagent (W24906 CES 10/18/10) - Into a 1L vol volumetrically added 213mL ~~W24648~~ + 72mL W24719 + filled to vol w/ dI H_2O exp 11/18/10

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EJL 9/30/10

W24789 EJL tot 9/30/10 EJL 9/30/10 — Cr^{+6} ICV/LCS: Into a 50mL vol. pipetted 5mL ~~W23~~ W23663 & brought to vol. w/ dig soln W24787 exp: 10/1/10

W24790 CES 9/30/10 — LL TPhos carrier.

W24791 CES 9/30/10 — LL TPhos → QS ascorbic

W24792 CES 9/30/10 — LL TPhos Molybdate

W24793 CES 9/30/10 — Ascorbic - Fish

W24794 CES 9/30/10 — LL TPhos ICV

W24795 CES 9/30/10 — LL Ical working

W24796 CES 9/30/10 — LL Ical

W24797 JTB 9-30-10 — Cr^{+6} Soil DPC: into 200mL dissolved 1g W18803 in acetone JT Baker Lot# J14E52 Cat.# 9254-03 exp: ~~9~~ 10-1-10 JTB 9-30-10

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W24779B KMB 9-29-10 Boric Diluent - Into a 2 L VF volumetrically added 200 mL W24773 and BTV w/ DI H_2O., X: 10-27-10

W24780 KMB 9-29-10 NH_3 ICAL using W24182 and BTV w/ Diluent W24779 50 mL Final

A	0.4
B	0.2
C	0.1
D	0.05
E	0.025
F	0.01
G	0

100 mL
50 mL Exp: 10-6-10

W24781 EJC 9/29/10 LL TPhos LCS working: Into a 100 mL vol. pipetted 1 mL W23501 & filled to vol. w/ DI H_2O tv = 10 mg/L exp: 10/6/10

W24782 EJC 9/29/10 LL TPhos LCS: Into a ~~100~~ 200 mL vol. pipetted ~~0.5~~ 1 mL W24781 & filled to vol. w/ DI H_2O tv = 50 mg/L exp: 10/6/10 EJC 9/29/10

W24783 EJC 9/29/10 Ammonium Persulfate: Into a 200 mL vol. dissolved 80g W24520 & filled to vol. w/ DI H_2O exp: 10/6/10

W24784 KMB 9-29-10 NH_3 H_2SO_4 ICAL - Into a 100 mL VF pipetted 0.25 mL W24182 and BTV w/ Diluent ~~W24754~~ W24758. Exp. 10-6-10 KMB 9-29-10

W24785 KMB 9-29-10 NH_3 H_2SO_4 CCV - Into a 100 mL VF pipetted 0.125 mL W24182 and BTV w/ Diluent W24758. Exp. 10-6-10

W24786 KMB 9-29-10 NH_3 H_2SO_4 LCS/ICV - Into a 100 mL VF pipetted 0.125 mL W24652 and BTV w/ Diluent W24758. Exp. 10-6-10

W24787 JTA 9-30-10 Cr^{+6} Dig Soln: into a 2L vol. dissolved 60g Sodium Carbonate anhydrous W23099 + 40g NaOH ~~W23014~~ W24679 JTA 9-30-10 + BTV w/ DI H_2O. exp: 9-30-11

W24788 EJC 9/30/10 Cr^{+6} ICAL: Into 5 50mL vol. pipetted 0, 1, 2.5, 5, + 10 mL W23661 & filled to vol. w/ dig soln W24787 exp: 10/1/10

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W24619 JRB 9-8-10 TSS LCS: into a 1L vol. dissolved 0.4g Diatomaceous earth W24339, + mixed well after BTV. w/ DI H_2O. exp: 10-8-10

W24620 mml 9-8-10 TKN hypochlorite into a 500mL Vol. volumetrically added 30mL bleach W23989 + brought to Vol. w/ DI H_2O exp 9-9-10

W24621 OES 9/8/10 Cr^{+6} Dig Soln - Into a 2L vol dissolved 60g Sodium carbonate anhydrous W23099, 40g NaOH W23614 + filled to vol w/ dI H_2O. exp 9/8/11

W24622 OES 9/8/10 Cr^{+6} Ical - Into 5 50mL vol pipetted 0.1, 2.5, 5, 40 mL W23661 + filled to vol w/ dig soln W24621. exp 9/8/11

W24623 OES 9/8/10 Cr^{+6} ICV - Into a 50mL vol pipetted 5mL W23663 + filled to vol w/ dig soln W24621 exp 9/8/10

W24624 KMB 9-8-10 IC LL CAL $NO_2^- + NO_3^-$ Working Std - Into a 100 mL VF pipetted 5.0 mL NO_2^- W22679 and NO_3^- W22939 and BTV w/ Milli Q H_2O. exp: 9-10-10

W24625 KMB 9-8-10 IC LL CAL PO_4^- Working Std - Into a 100 mL VF pipetted 5.0mL PO_4^- W23289 and BTV w/ Milli Q H_2O. exp: 9-10-10

W24626 KMB 9-8-10 IC LL ICAL: To vol w/ Milli Q H_2O Exp: 9-10-10

LEVEL:	1	2	3	4	5	6	7	8
mL W24624	0	0.01	0.06	0.2	0.4	0.5	1.0	2.0
mL W24625	0	0.01	0.02	0.04	0.06	0.05	0.1	0.2
mL FINAL VOL:	50	100	100	100	100	50	50	50

W24627 OES 9/8/10 Cr^{+6} Soil DPC - Into a 100mL vol dissolved 0.05g W19803 in acetone Baker cat # 9254-03 lot # J14E52 exp 9/9/10

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W24381 mod 8-6-10 Phenolics Buffer into a 500ml Vol. dissolved 1g $K_3Fe(CN_6)$ W22607, 1.55g Boric Acid W21756, 1.875g KCL W22919, Volumetrically added 23.5ml 1N NaOH W24271 + brought to Vol. w/ DI H_2O exp 8-13-10

W24382 ~~W23482~~ mod 8-6-10 4-AAP into a 500ml Vol. dissolved 0.32g 4AAP W20897 + brought to Vol. w/ DI H_2O exp 8-7-10

W24383 CS 8/6/10 Cr^{+6} std DPC - Into a 100mL vol dissolved 0.05g DPC W19803 in acetone Baker cat # 9254-03 lot # J14E52 exp 8/7/10

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W24373 CES 8/5/10 — Cr^{+6} 3rd LOQ - Into a 50 mL vol pipetted 0.5mL W23661 & filled to vol w/ dig soln W2455. exp 8/12/10. TV = 2.0 mg/L

W24374 CES 8/5/10 — Cr^{+6} 3rd LOQ - Into a 50mL vol pipetted 1.6mL W23661 & filled to vol w/ dig soln W2455 exp 8/12/10 TV 6.4mg/L

W24375 CES 8/6/10 CES 8/6/10 — Cn LCS working - Into a 100 mL vol pipetted 1mL W24254 & filled to vol w/ 0.25N NaOH W24280. TV = 10,000 µg/L exp 8/13/10 CES 8/6/10

W24376 CES 8/6/10 — CN LCS - Into a 200mL vol pipetted 1mL W24375 - filled to vol w/ W24280. TV = 50 µg/L exp 8/13/10

W24377 CES 8/6/10 — CN Ical/ccv working - TV = 10,000 µg/L - Into a 100 mL vol pipetted 1mL W20763 & filled to vol w/ W24280. exp 8/13/10

W24378 CES 8/6/10 — CN Ical/ccv using W24377 & filled to vol w/ W24280

2mL → 200 = 100 µg/L
0.75mL → 100 = 75 µg/L
0.5mL → 100 = 50 µg/L

using 100 µg/L std:

exp 8/13/10

15mL → 50 = 30 µg/L
20mL → 100 = 20 µg/L
5mL → 50 = 5 µg/L

W24379 JTG 8-6-10 — TKN/TPhos dig soln: into a 2 L vol. dissolved 266g potassium sulfate W22243, + vol. added 50mL mercuric sulfate W24192 & 400 mL H_2SO_4 W24234 & filled to vol. w/ DI H_2O. exp: 9-6-10

W24380 KMB 8-6-10 — IC Mixed CCV -

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W24362 CE 8/5/10 — Phenolic LCS ~~working~~ - Into a 200mL vol pipetted 0.1mL W 21956 + filled to vol w/ dI H_2O. exp 8/15/10 TV=50mg/L

W24363 CE 8/5/10 — Phenol Iccal working - Into a 100mL vol pipette 1mL W 22840 + filled to vol w/ dI H_2O. exp 8/12/10.

W24364 CE 8/5/10 — Iccal Phenol - Into a 100mL pipetted 10mL W24363 + filled to vol w/ dI H_2O. exp 8/12/10

W24365 CE 8/5/10 — 8/5/10 CCN Phenol ~~Iccal~~ Into a 200mL vol pipetted 0.1mL W22840 + filled to vol w/ dI H_2O. exp 8/12/10

W24366 ESC 8/5/10 — Antimony Potassium Tartrate Stock: Into a 500mL vol. dissolved 1.61g Antimony Potassium Tartrate W23460 + filled to vol. w/ DI H_2O exp: 10/5/10

W24367 KMB 8-5-10 — LL NO_2^- MDL Study - Into Eight 50mL VFs pipetted 0.05mL W24236 50mg/L NO_2^- and brought to vol. w/ Milli Q H_2O. TV= 0.05 mg/L X: 8-6-10

* W24368 CE 8/5/10 — Cr^{+6} soil LCS - Into a 50mL vol pipetted 5mL W23663 + filled to vol w/ dig soln W24155. exp 8/12/10

* W24369 CE 8/5/10 — Cr^{+6} soil Iccal - Into 5 50mL vol pipetted 0, 1, 2.5, 5, + 10mL W23661 + filled to vol w/ W24155. exp 8/12/10.

W24370 ESC 8/5/10 — RCN LCSS: Into 10mL 1N NaOH W24271 pipetted 0.1mL 1000mg/L CN stock W24254 + added 5g sand W23481 tv= 20mg/kg exp: 8/6/10

W24371 ESC 8/5/10 — R Sulfide LCSS: Into 10mL DI H_2O pipetted 0.02mL 100mg/L sulfide stock W24315 + added 5g sand W23481 tv= 4mg/kg exp: 8/6/10

W24372 ESC 8/5/10 — 1:1 HCL: Into a beaker added 200mL DI H_2O + 200mL HCL W24267 + mixed exp: 8/5/11

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DW24084 CFS

6/24/10

Crtd DPC – Into a 100mL vol dissolved 0.5g DPC WP8803 - filled to vol w/ acetone Baker cat# 9254-03 lot # H30E21. exp 6/23/10

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W24075 EJC 6/24/10 Phenolics Buffer: Into a 500mL vol. dissolved 1g $K_3Fe(CN_6)$ W22607, 1.55g Boric Acid W21756, 1.875g KCl W22919 & volumetrically added 23.5 mL 1N NaOH W23809 & brought to vol. w/ DI H_2O exp: ~~7/1/10~~ EJC 6/24/10 7/24/10

W24076 EJC 6/24/10 4 Aminoantipyrine: Into a 500 mL vol. dissolved 0.32g 4AAP W21897 & brought to vol. w/DI H_2O exp: 6/25/10

*W24077 CEJ 6/24/10 Cr^{+6} Ical - Into 5 50mL vol pipetted 0, 1, 2.5, 5, & 10mL W23661 & filled to vol w/ dig soln W23704.

*W24078 CEJ 6/24/10 Cr^{+6} LCS - Into a 50mL vol pipetted 5mL W23663 & filled to vol w/ dig soln W23704.

*W24079 JTG 6-24-10 Microcystin Kit: Envirologix lot# 221340 exp: 5-31-11

W24080 mwl 6-24-10 LCTPhos working Std. (10mg/L) into a 100ml Vol. pipetted 1ml W23501 & brought to vol. w/DI H_2O exp 7-1-10

W24081 mwl 6-24-10 LCTPhos ICS 50ug/L into a 100ml Vol. pipetted 0.5ml W24080 & brought to Vol. w/DI H_2O exp 7-1-10

W24082 mwl 6-24-10 Ammonium Peroxydisulfate Fisher cat# A682-500 lot# 095499A

W24083 mwl 6-24-10 Ammonium Persulfate Sdn. into a 200ml Vol. dissolved 80g Amm Per. W24082 & brought to Vol. w/DI H_2O exp 7-1-10

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W23787 CES 5/13/10 — TOCW CCV - Into a 100mL vol pipetted 5mL W23086 + filled to vol w/ milliQ H_2O. exp 6/13/10 [50mg/L]

W23788 CES 5/13/10 — TOCW LCS - Into 100mL vol pipetted 5mL W23096 + filled to vol w/ milliQ H_2O. exp 6/13/10 [50mg/L]

W23789 MWD 5/13/10 — ChloramineT - Into a 500mL vol. dissolved 2g W22491 & brought to vol. w/ DI H_2O. exp 5/14/10

W23790 MWD 5/13/10 — Pyridine Color Reagent - Into a 500mL vol. dissolved 7.5g barbituric acid W22756 & ~~brought~~ (5/13/10 MWD) volumetrically added 37.5mL pyridine W23188 & pipetted 7.5mL HCl W22731 & brought to vol w/ DI H_2O. exp 5/20/10

W23791 CES 5/13/10 — Cr^{+6} LCS - Into a ~~500~~ 50mL (CES 5/13/10) vol pipetted 5mL W23663 + filled to vol w/ dig soln - W23704.

W23792 ESC 5/13/10 — GCA 198ppm: North Central Laboratories Lot # B12D10026B2 exp: 1/26/11

W23793 CES 5/14/10 — DPC - Into a 100mL vol dissolved 0.5g DPC W18803 + filled to vol w/ acetone Baker cat# 925403 lot # H12E11 exp 5/15/10

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W23779 CES — Cr^{+6} Ical Soil - Into 5. 50mL vol pipetted 0, 1, 2.5, 5, ~10mL W23661 + filled to vol w/ digsol W23704.
5/13/10

W23780 CES — Cr^{+6} LODS - Into a 50mL vol pipetted 0.5mL W23661 + filled to vol w/ W23704 [TV= 2mg/kg]
5/13/10

W23781 CES — Cr^{+6} LODS - Into a 50mL pipiettted 1.6mL W23661 + filled to vol w/ W23704, [TV = 6.4mg/kg]
5/13/10

W23782 MWD — KHP Buffer - Into a beaker dissolved 2.5g KHP W19521 in 450 mL CO_2 free DI & volumetrically added 42.5mL 0.1M HCl W23371 & adjusted pH to 3.1 ± 0.05 exp. 5-20-10
5-13-10

W23783 MWD — Alkalinity LODW - Into a 100mL vol. pipetted 0.2mL W23546 & brought to vol. w/ CO_2 free DI H_2O. (TV = 5mg/L) ex-5-15-10
5-13-10

W23784 MWD — Alkalinity LOQW - Into a 100mL vol. pipetted 0.6mL W23546 & brought to vol. w/ CO_2 free DI H_2O. (TV = 15mg/L) ex-5-15-10
5-13-10

W23785 mwd — No_3 ccv into a 500mL vol. pipetted 3.5ml No_3 W22679 + brought to vol. w/ milliQ H_2O exp 6-13-10
5-13-10

W23786 mwd — No_3 + F spike into a 100ml vol. pipetted 12.8ml No_3 W22679 + 3.2ml F W22128 + brought to vol. w/ milliQ H_2O exp 6-13-10
5-13-10

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CES 5/13/10
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*W23701 EJC 5/5/10 - Na Nitroprussside: Into a 500mL vol. dissolved 1.75g Na nitroprussside W22481 + brought to vol. w/DI H_2O exp: 6/5/10

*W23702 EJC 5/5/10 Phenolate Color Reagent: Into a 500mL vol. dissolved 16g NaOH W23614 + volumetrically added 44mL phenol W22610 + filled to vol. w/ DI H_2O exp: 5/12/10

W23703 EJC 5/5/10 Boric Diluent: Into a 2L vol. volumetrically added 200mL boric rec. soln. W23688 + filled to vol. w/ DI H_2O exp: 6/5/10

W23704 CES 5/5/10 Cr^{+6} Dig soln - Into a 2L vol dissolved 60g Sodium carbonate anhydrous W23099 + 40g NaOH W23614 + filled to vol w/ dI H_2O. exp 5/5/11

W23705 CES 5/5/10 DPC color soln - Into a 100mL vol dissolved 0.5g DPC + filled to vol w/ acetone

*W23706 EJC 5/5/10 NH_3 H_2SO_4 ICAL: Into a 100mL vol. pipetted ~~0.30~~ 0.25 mL W~~21863~~ 23710 EJC 5/5/10 + brought to vol. w/ H_2SO_4 dil W23590 exp: 5/6/10 EJC 5/5/10

*W23707 EJC 5/5/10 NH_3 H_2SO_4 CCV: Into a 100mL vol. pipetted ~~0.075~~ 0.125 mL W~~21863~~ 23710 EJC 5/5/10 + brought to vol. w/ H_2SO_4 dil W23590 exp: 5/6/10 EJC 5/5/10

*W23708 EJC 5/5/10 NH_3 H_2SO_4 LCSW: Into a 100mL vol. pipetted ~~0.075~~ 0.125 mL W~~23462~~ 23710 EJC 5/5/10 + brought to vol. w/ H_2SO_4 dil W23590 exp 5/6/10 EJC 5/5/10

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W23665 mvl Cr+6 Ical into a 500ml Vol. pipetted 10ml W23661 200ug/L
4-29-10 + brought to Vol. w/ DI H_2O exp 4-29-11 TV = ~~1000 ug/L~~ 8-19-10 mvl

W23666 mvl Cr+6 CCV into a 500ml Vol. pipetted 5ml W23661
4-29-10 + brought to Vol. w/ DI H_2O TV = ~~500~~ 100 ug/L exp 4-29-11
4-29-10 mvl

W23667 mvl Cr+6 H_2O Color reagent into a 500ml Vol. dissolved
4-29-10 0.2g DPC W18803 into 100 ml propanol ~~Ba~~ Fisher cat# A414-4 4-29-10 mvl
lot# 090199 (W22263) volumetrically added 300ml DI H_2O + 40ml
H_2SO_4 W23390 + brought to Vol. w/ DI H_2O exp 5-29-10

W23668 ESC Sulfide LOQ ✓: (1 mg/L) Into a 200mL vol. flask pipetted
4/29/10 0.2 mL sulfide stock W23441 + brought to Vol. w/ DI H_2O exp: 4/30/10

W23669 MWD Total Volatile Solid PT (788533) - Into a 1 L. Vol, transferred entire
4-29-10 contents of vial for 788533, rinsed vial & cap 3 times w/ DI H2O & added rinsate to vol. each time, brought up to vol. w/ DI H2O & mixed w/ stir bar for 10 min.

W23670 MWD Total Solid LOQ Check - Into a 250 mL vol. added 0.05g
4-29-10 Diatomaceous Earth W18768 & brought to vol. w/ DI H2O.
[TV = 200mg/L].

W23671 ESC 7% Dish Soap: Into a small carboy added 1 gal. dish soap W23672
4/29/10 & volumetrically added 1.27 L DI H_2O

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CES	5/12/10		

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W23657 mwl LL TPhos ICV into a 100ml Vol. pipetted 0.481ml W23625
4-29-10 & brought to Vol. w/ Diluent W23659 exp 5-4-10

W23658 mwl LL TPhos Ascorbic into a 500ml Vol. dissolved 30g Ascorbic
4-29-10 W23518 + 1.5g SDS W19325 + brought to Vol. w/ DI H_2O exp 4/30/10

W23659 mwl LL TPhos Diluent into a 2L Vol. volumetrically added 80ml
4-29-10 Amm. Persulfate Soln. W23627 + pipetted 14.4ml H_2SO_4 W21232
& brought to Vol. w/ DI H_2O exp 5-4-10

W23660 mwl Cr+6 ICal/CCV Stock 1000mg/L into a 500ml Vol. dissolved
4-29-10 1.4145g Potassium Dichromate W18819A & brought to Vol.
w/ DI H_2O exp 4-29-11

W23661 mwl Cr+6 ICal/CCV working Std. 10mg/L into a 500ml Vol. pipetted
4-29-10 5ml W23660 & brought to Vol. w/ DI H_2O exp 4-29-11

W23662 mwl Cr+6 ICV/LCS stock Std. 1000mg/L into a 500ml Vol. dissolved
4-29-10 1.4145g Potassium Dichromate W18802 + brought to Vol.
w/ DI H_2O exp 4-29-11

W23663 mwl Cr+6 ICV/LCS working Std. 10mg/L into a 500ml Vol. pipetted
4-29-10 5ml W23662 & brought to Vol. w/ DI H_2O exp 4-29-11

W23664 mwl Cr+6 ICV/LCSW into a 200ml Vol. pipetted 2ml W23663
4-29-10 + brought to Vol. w/ DI H_2O exp 4-29-11 TV = 100ug/L

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*W23042 MWD 1/27/10 NH3 H2SO4 LOQ Check (0.16 mg/L) Into a 100 mL vol. pipetted 0.016 mL W22929 & brought to vol. w/ W22974

W23043 EJC 1/27/10 Magnesium Chloride 6 Hydrate: VWR (BDH) ~~Cat #~~ EJC 1/27/10
Cat # BDH0244-500G Lot # 4905892I rec. 7/20/09

*W23044 JTB 1/28/10 Sulfide LCS: into a 200 mL vol. pipetted 1mL W23004 & brought to vol. w/ DI H2O.

W23045 EJC 1/28/10 Cr+6 soil ICAL: Into 5 50mL vol. flasks pipetted 0, 1, 2.5, 5, & 10 mL 10mg/L Std W21286 & brought to vol w/ Dig Soln W23038

W23046 EJC 1/28/10 Cr+6 soil LCS/ICV: Into a 50mL vol. pipetted 5mL 10mg/L std W21288 & brought to vol. w/ Dig Soln W23038

W23047 EJC 1/28/10 Cr+6 soil MDL study: Into 8 seperate 100mL vols pipetted 5mL 10mg/L std W21288 & brought to vol. w/ Dig Soln W23038 true value = 10mg/kg (250mg/L)

W23048 EJC 1/28/10 DPC Color Reagent: Into a 100mL vol. dissolved 0.5g DPC W18803 & brought to vol. w/ Acetone Cat # 9254-03 Lot # H12E11

*W23049 JTB 1/28/10 Sulfide LCS: into a 200mL vol. pipetted 1mL W23004 & brought to vol. w/ DI H2O.

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* W23034 MWD 1-27-10 NH_3 H_2SO_4 LCS- Into a 100 mL vol. pipetted 0.075 mL W22929 & brought to vol. w/ H_2SO_4 Dil. W22974.

* W23035 MWD 1-27-10 NH_3 H_2SO_4 MDL/V (0.1 mg/L) - Into a 100 mL vol. pipetted 0.01 mL W22929 & brought to vol. w/ H_2SO_4 Dil. W22974.

* W23036 MWD 1-27-10 NH_3 H_2SO_4 LOD (0.03 mg/L) - Into a 200 mL vol. pipetted 0.006 mL W22929 & brought to vol. w/ H_2SO_4 Dil. W22974

* W23037 MWD 1-27-10 NH_3 H_2SO_4 LOQ (0.10 mg/L) - Into a 100 mL vol. pipetted 0.01 mL W22929 & brought to vol. w/ W22974

W23038 ESC 1/27/10 Cr^{+6} Dig Soln: Into a 2L vol. dissolved 60g sodium carbonate anhydrous W21099 + 40g NaOH W22703 & brought to vol. w/ DI H_2O exp: 2/27/10

W23039 ESC 1/27/10 Cr^{+6} phosphate buffer: Into a 250mL vol. dissolved 21.77g potassium phosphate dibasic W 1/27/10 Fisher Cat # P288-500 Lot # 037155 17.01g potassium phosphate monobasic W 21116 & brought to vol w/ DI H_2O

* W23040 ESC 1/27/10 $MgCl_2$ Soln: Into a 500mL vol. dissolved 255g $MgCl_2$ · 6 hydrate W 23043 & brought to vol. w/ DI H_2O

W23041 MWD 1-27-10 Na Nitroprusside - Into a 500 mL vol. dissolved 1.75g Nitroprusside W22481 & brought to vol. w/ DI H_2O. exp. 2-27-10

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W22887 ESC 1/12/10 — Cr^{+6} Color reagent: Into a 500mL vol. dissolved 0.2g ~~RDFC~~ DPC W18803 in 100mL ~~2-propanol~~ 1-propanol W22263 then volumetrically added 300mL DI H_2O + 40mL H_2SO_4 W22816 & brought to vol. w/ DI H_2O exp: 2/12/10

W22888 ESC 1/12/10 — Cr^{+6} MDLW study: Into 8 seperate 100mL vol. flasks pipetted 0.15mL W21288 Cr^{+6} ICV/LCS working 10mg/L & brought to vol. w/ DI H_2O. true value: 15mg/L Cr^{+6}

W22889 ESC 1/12/10 — Cr^{+6} MDLW ✓: Into a 100mL vol. pipetted 0.1mL W21288 Cr^{+6} ICV/LCS working 10mg/L & brought to vol. w/ DI H_2O. true value = 10mg/L Cr^{+6}

*W22890 MWD 1-12-10 — 18N H_2SO_4- Into a beaker volumetrically added 250mL H_2SO_4 W22816 ~~W22499~~ 1-12-10 MWD & 250mL DI H_2O.

*W22891 ESC 1/12/10 — Cr^{+6} ICV/LCSW 100mg/L: Into a 100mL vol. pipetted 1mL W21288 & brought to vol. w/ DI H_2O ~~exp 1/12/11~~ exp 4/23/10 mM 4/29/10.

CES 1/12/10

W22892 CES 1/12/10 — ~~Into~~ IC MDLW study- Into 8 ~~vol~~ 100mL vol flask pipetted 0.02mL NO_2 W22679, 0.4mL Cl^- W21370, Filled to vol w/ milli Q H_2O. TV 0.2mg/L NO_2, 4.0mg/L Cl^-

W22893 CES 1/12/10 — IC MDLS study- Into 8 100mL vol flask pipetted 0.02mL NO_2 W22679, F/ W22128, Ophos W21120, 0.4mL Cl W21370, filled to vol w/ milli Q H_2O

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TV: 2mg/kg NO_2, F, Ophos
40mg/kg Cl^-

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RM — 2/1/10

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W22757 ESC 12/18/08 CN LCS II: Into a ~~100~~ 200 mL vol. ESC 12/18/09 pipetted 2mL W22719 & brought to vol. w/ NaOH W22729

W22758 ESC 12/18/09 DPC color reagent: Into a 50mL vol. dissolved 0.25g w/8803 & filled to vol. w/ Acetone cat# 9254-03 lot# 1412E11

W22759 ESC 12/18/09 Chloramine T reagent: Into a 250 mL vol. dissolved 1g Chloramine T W22491 & brought to vol. w/ DI H_2O exp: 12/19/09

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W22725 CES 12/15/09 — Cr^{+6} LCSS - Into a 50 mL vol pipetted 4mL W21288 & filled to vol w/ W22723.

W22726 CES 12/15/09 — Cr^{+6} MRL - Into a 50 mL vol pipetted 3mL W21288 - filled to vol w/ W22723.

W22727 CES 12/15/09 — Cr^{+6} MDL check - Into a 50mL vol pipetted 1mL W21288 & filled to vol w/ W22723.

W22728 CES 12/15/09 — Magnesium Cl anhydrous - Alfa Aesar cat # 12315 lot # J24T030

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W22140 EJC 9/3/09 CN Std Prep

mLs W22138	final vol w/ W22139	true value (mg/L)
2	100	200
2	200	100
0.5	100	50

mLs 100 mg/L std		
30	100	30
10	50	20
5	50	10

W22141 EJC 9/3/09 NaOH: Fisher Cat # S 318-3 Lot # 091239
rec: 8/6/09 opened 9/3/09

W22142 mml 9/3/09 Ascorbic Acid reagent into a 500ml Vol. dissolved 30g Ascorbic W21981 + 1.5g SDS W19325 + brought to Vol. w/ DI H_2O exp 9-4-09

W22143 EJC 9/3/09 TKN/TPhos Dig Soln: Into a 2L vol. dissolved 266g Potassium sulfate W22002 + volumetrically added 50mL mecuric sulfate W22144 + 400mL H_2SO_4 W20958 + brought to vol. w/ DI H_2O

W22144 EJC 9/3/09 Mecuric Sulfate: Into a 200mL vol. dissolved 16g Mecuric Oxide W20970+ volumetrically added 20mL H_2SO_4 W20958+ W22145 + brought to vol. w/ DI H_2O

W22145 EJC 9/3/09 Sulfuric Acid: J.T. Baker Cat# 9673-33 lot# 635026
rec 9/3/09 opened 9/3/09

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mml	9-10-09		

* W22074 ESC 8/26/09 NH_3 LOQS ✓ : Into a 100mL vol. 4.6mL W22055 was pipetted + brought to vol. w/ KCL extraction soln W22076 true value = 0.23

* W22075 ESC 8/26/09 NH_3 LCSS: Into a 100mL vol. 0.5mL W22007 was pipetted + brought to vol. w/ KCL extraction soln. W22076

W22076 ESC 8/26/09 KCL Extraction Soln: Into a 1L 150g KCL W20236 was dissolved + brought to vol. w/ DI H_2O exp: 9/26/09

W22077 ESC 8/26/09 NH_3 Hypochlorite: Into a beaker 150mL Bleach W21858 + 150mL DI H_2O were volumetrically added exp: 8/27/09

* W22078 CES 8/26/09 25% ophos Acid - Into a 500mL vol volumetrically added 125mL phosphoric acid W20403 & filled to vol w/ DI H_2O.

W22079 ESC 8/26/09 Potassium Chloride: Fisher Cat # P217-500 Lot # 073552 recieved 12/22/08

* W22080 CES 8/26/09 Phosphoric Acid - JT Baker cat # 0260-04 Lot # T01806.

W22081 ESC 8/26/09 CN LCS Working Std: Into a 100mL vol. pipetted 1mL W21585 + filled to vol. w/ 0.25 NaOH W21922

* W22082 ESC 8/26/09 CN LCS: Into a 200mL vol. 2mL W22081 was pipetted + brought to vol. w/ 0.25 NaOH W21922

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
mvl	9-10-09		

W21285 mml 4-23-09 Cr+6 ccv/ical stock into a 500ml Vol. dissolved 1.4145g Potassium Dichromate W18819A + brought to Vol. w/ DI H_2O exp 4-23-10

W21286 mml 4-23-09 Cr+6 ccv/ical working std. into a 500ml Vol. pipetted 5ml W21285 + brought to Vol. w/ DI H_2O exp 4-23-10

W21287 mml 4-23-09 Cr+6 Icv/lcs stock std. into a 500ml Vol. dissolved 1.4145g Potassium Dichromate W18802 + brought to Vol. w/ DI H_2O exp 4-23-10

W21288 mml 4-23-09 Cr+6 Icv/lcs working std. into a 500ml Vol. pipetted 5ml W21287 + brought to Vol. w/ DI H_2O exp 4-23-10

W21289 mml 4-23-09 Cr+6 Icv/lcsw into a 100ml Vol. pipetted 1ml W21288 + brought to Vol. w/ DI H_2O exp 4-24-10 4-23-09 mml

W21290 mml 4-23-09 Cr+6 Ical into a 500ml Vol. pipetted 10ml W21286 + brought to Vol. w/ DI H_2O exp 4-24-10

W21291 mml 4-23-09 Cr+6 ccv into a 500ml Vol. pipetted 5ml W21286 + brought to Vol. w/ DI H_2O exp 4-24-10

W21292 mml 4-23-09 Cr+6 H_2O PT into a 500ml Vol. pipetted 5ml 661494 + brought to Vol. w/ DI H_2O

W21293 mml 4-23-09 Cr+6 H_2O Color reagent into a 500ml Vol. dissolved 0.2g DPC W18803 into 100ml 2-propanol Baker lot #21271 cat# 9334-03 Volumetrically added 300ml DI H_2O + 40ml H_2SO_4 W20958 + brought to Vol. w/ DI H_2O exp 5-23-09

W21294 4/23/09 IC MRL (LOQ) - Into a 100mL Vol Pipetted 0.02mL NO_3 W20711, 0.03mL NO_2 W20512, 0.03mL Br^- W21284, 0.3mL Cl^- W19905, 0.3mL SO_4^- W20511 + filled to vol w/ milliQ H_2O exp 4/20/09

Continued on Page

Read and Understood By

mml
Signed

5-5-09
Date

Signed

Date

W21097 mm TKN hypochlorite into a 500ml vol. pipetted 30ml bleach
3/24/09 W19935+ brought to vol. w/ DI H2O exp 3/25/09

W21098 CES Cr+6 dig soln - Into a 2L vol dissolved 120g sodium carbonate
3/24/09 anhydrous W20493 + 80g NaOH W20719 + filled to vol w/ dI H2O.

W21099 CES Sodium Carbonate Anhydrous - EMD cat # SX0395-1
3/24/09 lot # 46321715.

W21100 ESC Magnesium Chloride Soln: Into a 500mL vol. ESC 3/24/09 ~~22~~ 25.5g
3/24/09 $MgCl_2$ 6 hydrate W20306 + brought to vol w/ DI H2O

W21101 MWD NH3 Std Preps:
3-25-09

	mLs W21001	final vol. w/ ~~W20955~~ W20971 3-25-09 MWD
		50
A	0.35	
B	0.2	
C	0.1	
D	0.05	
E	0.025	
F	0.01	100
G	0	50

W21102 MWD NH3 Hypochlorite - Into a 500 mL vol. volumetrically added 250 mL bleach
3-25-09 W19935 brought to vol. w/ DI H2O.

W21103 CES Cr^{+6} Std prep - Into 5 50 mL vol pipetted 0, 1, 2.5, 5, 10mL
3/25/09 W20720 + filled to vol w/ dig soln W21098.

W21104 CES Cr^{+6} LCSS - Into a 50mL vol pipetted 5mL W19881 +
3/25/09 filled to vol w/ dig soln W21098.

W21105 CES Cr^{+6} MDLS - Into a 50mL vol pipetted 3mL W20720 +
3/25/09 filled to vol w/ dig soln W21098.

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Signed Date Signed Date

W20905 MWD 2/16/09 — IC MDLS Study - Into 8 100mL vol. pipetted 0.02mL F^- W19722, NO_2 W20512, NO_3 W20711, Br W17169, Ophos W18485, 0.4mL Cl^- W19905 & SO_4 W20511 & brought to vol. w/ milli Q H_2O.

W20906 MWD 2/16/09 — IC MDLS Check - Into a 100 mL vol. pipetted 0.01mL F^- W19722, NO_2 W20512, NO_3 W20711, Br W17169, Ophos W18485, 0.1mL Cl^- W19905 & SO_4 W20511 & brought to vol. w/ Milli Q H_2O.

W20907 MWD 2/16/09 — IC MDLW Study - Into 8 100 mL vol. pipetted 0.02 mL NO_3 W20711 & 0.4 ml Cl^- W19905 & brought to vol. w/ milliQ H_2O.

W20908 MWD 2/16/09 — IC MDLW Check - Into a 100 mL vol. pipetted 0.01 mL NO_3 W20711 & 0.1 mL Cl^- W19905 & brought to vol. w/ milliQ H_2O.

W20909 CES 2/17/09 — TKN hypochlorite - Into a 500mL vol pipetted 30mL W19935 & filled to vol w/ dI H_2O.

W20910 CES 2/17/09 — Sodium Carbonate anhydrous - Baker cat# 3602-01 lot # G43154.

W20911 CES 2/17/09 — 0.02 N Sulfamic Acid Soln - VWR cat # BDH3329-4 lot # 8326 exp 11/30/09

W20912 CES 2/17/09 — 0.2 N Sulfuric Acid IC cleaning soln - Into a 250 mL vol pipetted 1.9mL W20696 & filled to vol w/ dI H_2O.

W20913 CES 2/18/09 — Boric Dilvent - Into a 2L vol volumetrically added 20mL W20772 & filled to vol w/ dI H_2O.

W20914 CES 2/18/09 — NH_3 Buffer - Into a 500mL vol dissolved 25g EDTA W20807 & volumetrically added 112.5mL 1M NaOH W20585 & filled to vol w/ dI H_2O. exp 3/18/09

W20915 CES 2/18/09 — Phenolate Color Reagent - Into a 500mL vol volumetrically W20794 added 44 mls Phenol W20579 & dissolved 16g NaOH W19768 & filled to vol w/ DI H_2O. exp 2/25/09

Continued on Page CES 2/18/09

Read and Understood By

mml — Signed
2-24-09 — Date
Signed
Date

W20483 CES 12/12/08 — Sodium Carbonate Anhydrous – EMD cat # JX0395-1 lot # 46321715

W20484 CES 12/12/08 — Alk MDL study – Into 8 100mL vol pipetted 1mL W20479 & filled to vol w/ dI H_2O CO_2 free.

W20485 CES 12/12/08 — Alk MDL check – Into a 100mL vol pipetted 0.6mL W20479 & filled to vol w/ CO_2 free dI H_2O.

W20486 ESC 12/15/08 — NH_3 LCS: into a 200mL vol. flask, 1.0mL W20427 was pipetted & brought to vol. w/ DI H_2O

W20487 CES 12/15/08 — TPhos carrier – Into a 1L vol dissolved 31.7g potassium sulfate W20248 CES 12/16/08 and ~~filled to~~ volumetrically added 50mL H_2SO_4 W19538 & filled to vol w/ dI H_2O

W20488 CES 12/15/08 — Ascorbic acid – Into a 500mL vol dissolved 30g ascorbic W20389 & 0.5g SDS W19325 & filled to vol w/ dI H_2O.

W20489 CES 12/15/08 — Molybdate color reagent – Into a 1L vol volumetrically added 72mL W19859 & 213mL W19860 & filled to vol w/ dI H_2O

W20490 CES 12/15/08 — Sodium phosphate Dibasic hepta hydrate – Fisher cat # S373-500 lot # 084175.

W20491 CES 12/15/08 — Stock Ammonium Molybdate – Into a 1L vol dissolved 40g W18366 & filled to vol w/ dI H_2O.

W20492 CES 12/15/08 — Antimony potassium tartrate – Into a 500mL vol dissolved 1.6g W14207 & filled to vol w/ dI H_2O. exp 2/15/09

* W20493 CES 12/15/08 — Hydrochloric Acid – Fisher cat # A508SK-212 lot # 410 8031 exp 5/11

W20494 CES 12/16/08 — LCS CES 12/16/08 CN ~~std prep~~ working std – Into a 100mL vol pipetted 1mL W20297 & filled to vol w/ 0.25N NaOH W20414

Continued on Page

Read and Understood By

mml — 1/26/09

Signed — Date — Signed — Date

W19703 CES 9/12/08 - IC Mixed Spike - Into a 100mL vol pipetted 6.4mL Br^- W17169, NO_3 W17681, + Ophos W18485, 25.6mL SO_4 W18673 + Cl^- W18038 & filled to vol w/ milli Q H_2O. exp 10/12/08

W19704 CES 9/12/08 - IC Soil MRL - Into a 100mL vol pipetted 0.07mL W17650 F^-, Cl^- W18038 0.35mL, 0.45mL SO_4 W18673, 0.02mL NO_2 W17930, 0.02mL NO_3 W17681, & 0.015mL Br^- W17169 & filled to vol w/ milliQ H_2O.

W19705 CES 9/12/08 - IC Soil MDL Check - Into a 100mL vol pipetted 0.035mL F^- W17650, 0.2mL Cl^- W18038, 0.25mL SO_4^- W18673, 0.01mL NO_2 W19930, 0.01mL NO_3 W17681 & 0.008mL Br^- W17169 & filled to vol w/ milliQ H_2O.

W19706 CES 9/12/08 - Pyridine Reagent - Into a 500mL vol dissolved 7.5g barbituric acid W17815, pipetted 7.5mL HCl W19539 & volumetrically added 37.5mL pyridine W17409 & filled to vol w/ dI H_2O exp 9/19/08

W19707 CES 9/12/08 - CN Buffer - Into a 500mL vol dissolved 48.5g potassium phosphate monobasic W17982 & filled to vol w/ dI H_2O

W19708 CES 9/12/08 - Chloramine T - Into a 500mL vol dissolved 2g W17811 & filled to vol w/ dI H_2O.

W19709 CES 9/12/08 - Potassium phosphate monobasic - Fisher # P285 - 500 lot # 080934

W19710 MWD 9/12/08 - TPhos MDL Study Std. Prep 10mg/L - Into a 100mL vol. pipetted 1mL W19125 & brought to vol. w/ DI H_2O.

W19711 MWD 9/12/08 - TPhos MDL Study 0.015mg/L - Into 8 tubes pipetted .03mL W19710 & 20mL DI H_2O.

W19712 MWD 9/12/08 - TPhos MDL Check for MDL Study - 0.01mg/L - Into tube pipetted .02mL W19710 & 20mL DI H_2O.

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9-17-08 — Date
Signed
Date

W19351 CES 2.17.08 Magnesium Chloride, anhydrous - Alfa Aesar cas # 7786-30-3 lot # D14K28

W9352 CES 2.17.08 Diphenylcarbazide reagent - Into a 100mL vol dissolved 0.5g W18503 + filled to vol w/ acetone Baker # 9006-07, lot # C42B35

W

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W19878 CES 10/6/08 Phenolics std prep working - Into a 100mL vol pipetted 1.0mL W18451 & filled to vol w/ DI H_2O

W19879 MWD 10-8-08 Boric Diluent - Into a 2L vol. volumetrically added 200mL W19817 & brought to vol. w/ DI H_2O.

W19880 MWD 10-8-08 Na Nitroprusside - Into a 500 mL vol. dissolved 1.75g W18517 & brought to vol. w/ DI H_2O. exp 11-8-08

W19881 mwd 10-8-08 Cr+6 LCS/ICV working std. into a 100 ml vol. pipetted 1ml W18665 & brought to vol. w/ DI H_2O exp 4-24-08

W19882 mwd 10-8-08 Cr+6 Ical/ccv std. - working into a 100ml vol. pipetted 1ml W18863 & brought to vol. w/ DI H_2O exp 4-24-08

W19883 mwd 10-8-08 Cr+6 Std. Prep into 5 50ml vol. pipetted 0, 1, 2.5 5 & 10ml W19882 & brought to vol. w/ Dig Soln.

W19884 mwd 10-8-08 Cr+6 LCSS into a 50ml vol. pipetted 5ml W19881 & brought to vol. w/ Dig Soln.

W19885 mwd 10-8-08 Cr+6 MRLS 12mg/kg into a 50ml vol. pipetted 3ml W19882 & brought to vol. w/ Dig. Soln

W19886 mwd 10-8-08 Cr+6 MDL check into a 50ml vol. pipetted 1ml W 19882 & brought to vol. w/ Dig Soln.

W19887 MWD 10-8-08 NH3 H2SO4 MRLW - Into a 100 mL vol. pipetted 0.03mL W19773 & brought to vol. w/ W19826.

W19888 MWD 10-8-08 NH3 H2SO4 MDLW Check - Into a 100 mL vol. pipetted 0.02mL W19773 & brought to vol. w/ W19826.

~~W19889 CES 10/8/08 IC NO_3 CCV -~~

Continued on Page

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M — Signed
10/29/08 — Date
Signed
Date

W18859 4-23-08	RMB	IC MDL Check- Into a 100mL vol. pipetted 0.2mL Cl^- W18038 and SO_4^- W17651 and 0.01 NO_3^- W17681 and brought to vol. w/ milli Q H_2O.
W18860 4-23-08	MWD	COD, TOC, BOD5 PT - Pipetted 5 mL of 557029 into a 1L vol. flask filled to volume w/ DI H_2O.
W18861 4-22-08	MWD	Sulfide PT - Into a 500mL vol. pipetted 5 mL of 557040 and filled to volume w/ DI H_2O.
W18862 4-24-08	MWD	KHP Buffer Into a beaker dissolved 2.5g potassium Hydrogen Phthalate W16192 volumetrically added 450ml DI H_2O + 42.5ml 0.1N HCl W17932 + adjusted ph to 3.1 ± 0.05 exp 5-1-08
W18863 4-24-08	MWD	Cr+6 St. Prep Stock 1000mg/L into a 500mL Vol. dissolved 1.4145g Potassium Dichromate W18819A + brought to Vol. w/ DI H_2O exp 4-24-09
W18864 4-24-08	MWD	Cr+6 H_2O St. Prep working Std. into a 100ml Vol. pipetted 1ml W18863 + brought to Vol. w/ DI H_2O exp 4-24-09
W18865 4-24-08	MWD	Cr+6 LCS Stock 1000mg/L into a 500ml Vol. dissolved 1.4145g Potassium Chromate W18802 + brought to Vol. w/ DI H_2O exp 4-24-09
W18866 4/24/08	MWD	Cr+6 LCS working Std. into a 100ml Vol. pipetted 1ml W18865 + brought to Vol. w/ DI H_2O
W18867 4/24/08	MWD	Cr+6 LCS into a 100ml Vol. pipetted 1ml W18866 + brought to Vol. w/ DI H_2O exp 4-24-09
W18868 4-24-08	MWD	Cr+6 H_2O Std. Prep into a 100ml Vol. pipetted 2ml W18864 + brought to Vol. w/ DI H_2O exp 4-24-09
W18869 4-24-08	MWD	Cr+6 CCV into a 100ml Vol. pipetted 1ml W18864 + brought to Vol w/ DI H_2O exp 4-24-09

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Read and Understood By

Signed	Date	Signed	Date
RM	4/29/08		

W18795 CN Std prep using W18794

2mL → 100 = 200 µg/L
2mL → 200 = 100 µg/L
0.5mL → 100 = 50 µg/L

using 100 µg/L
30mL → 100 = 30 µg/L
10mL → 50 = 20 µg/L
5mL → 50 = 10 µg/L

W18796 mwl 4-16-08 NH_3 H_2SO_4 Std. Prep into a 100ml Vol. pipetted 0.5ml W18676 & brought to Vol. w/ Diluent W18702

W18797 mwl 4-16-08 NH_3 H_2SO_4 CCV into a 100ml Vol. pipetted 0.25ml W18676 & brought to Vol. w/ Diluent W18702

W18798 mwl 4-16-08 NH_3 H_2SO_4 LCS into a 100ml Vol. pipetted 0.25ml W18721 & brought to Vol. w/ Diluent W18702

W18799 CES 4.16.08 Sulfide LCS- Into a 200ml vol pipetted 1mL W18630 & filled to vol w/ dI H_2O. exp 4.23.08

W18800 MWD 4-16-08 NH_3 H_2SO_4 MML BS. into 50 mL pipetted 0.1 mL W18676 & brought to vol. w/ ~~DI H_2O~~ diluent W18702 4-16-08 MWD

W18801 CES 4/16/08 Sulfide LCS- Into a 200 mL vol pipetted 1mL W18630 & filled to vol w/ dI H_2O. exp 4.23.08

W18802 mwl 4/16/08 Potassium Dichromate cat# Fisher P188-100 lot# 061057

* W18803 mwl 4/16/08 Diphenylcarbazide Fisher cat # D85-25 lot# 067626

W18804 mwl 4/16/08 Zinc Acetate Dihydrate Fisher cat # Z20-500 lot# 076685

Continued on Page

Read and Understood By

Signed _____ Date 4/23/08 Signed _____ Date _____

WSOLIDS Analytical Run
72267 on 12/8/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82743	877662	ASTU5-VOC-B	12/2/2010 1355		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82743	877663	ASTU5-VOC-S	12/2/2010 1350		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82743	877667	DLASS-033-0001-SO	12/2/2010 1045		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82743	877668	DLASS-043-0001-SO	12/2/2010 1110		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82743	877669	DLASS-003-0001-SO	12/2/2010 0930	Designated MS/MSD	USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82743	877670	DLASS-003-0002-SO	12/2/2010 0935		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82743	877671	DLASS-023-0001-SO	12/2/2010 0950		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
82743	877672	DLASS-015-0001-SO	12/2/2010 1020		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	4	
	878177	DLASS-003-0001-SO	12/2/2010 0930	DUP 877669			SOLIDS,PERCENT				

9 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Data Validation Checklist

LIMS #: 72267	Method: Total Suspended Solids SM2540D			
Analysis Date	Analyst / Data Interpreter	Independent Reviewer	Date of Review	Approved
12-6-10	CES / JTG	mnl	12-8-10	(Yes) No

Instructions: Complete one checklist per *analytical run*. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement:	Acceptance Criteria	Analyst Review		Independent Review		Comments: (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. Were samples analyzed within hold time?	7 days	X		X		
2. Were samples dried overnight?	> 8 hours					
3. Were drying start and stop times recorded?	---					
4. Was LCS run?	---					
5. Was LCS recovery within acceptable limits?	80-120%					
6. Were duplicates analyzed at the appropriate frequency?	1 per 20 of similar matrix					
7. Were the duplicates within acceptable limits?	Within in house QC limits					
8. Is the bench sheet included with the run?	---					
9. Are all samples on the job lists accounted for?	---					

WSOLIDS Analytical Run
72416 on 12/15/2010

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
82743	877664		12/2/2010 1325		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	**4**	
		DAASS-041-0001-SO									
82743	877666		12/2/2010 1355		USACE - LOUISVILLE	RAVENNA	SOLIDS,PERCENT		S	**4**	
		DAASS-040-0001-SO									
	880332		12/2/2010 1325				SOLIDS,PERCENT				
		DAASS-041-0001-SO		DUP 877664							

3 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Data Validation Checklist

LIMS #: 72416	Method: Total Solids SM2540B&G / Percent Solids SW846-5030A			
Analysis Date	Analyst / Data Interpreter	Independent Reviewer	Date of Review	Approved
12-10-10	JDA / JTG	MWD	12/16/10	(Yes) ... No

Instructions: Complete one checklist per *analytical run*. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement:	Acceptance Criteria	Analyst Review		Independent Review		Comments: (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. Were samples analyzed within hold time?	7 days	X		X		
2. Were samples dried overnight?	> 8hours	X		↓		
3. Were drying start and stop times recorded?	---	X		↓		
4. Were duplicates analyzed at the appropriate frequency?	1 per 20 of similar matrix	X		↓		
5. Were the duplicates within acceptable limits?	Within in house QC limits	X		↓		
6. Are all samples on the job lists accounted for?	---	X		↓		

SUBCONTRACTED ANALYSIS DOCUMENTS

158 Starlite Drive, Marietta, OH 45750 • T:740-373-4071 • F:740-373-4835 • http://www.microbac.com

Laboratory Report Number: L10120298

Client: Patrick Letterer, 1230 Lange Court, Baraboo, WI, 53913

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box below at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

Kathy Albertson	*Team Chemist/Data Specialist*	Kathy.Albertson@microbac.com
Stephanie Mossburg	*Team Chemist/Data Specialist*	Stephanie.Mossburg@microbac.com
Tony Long	*Team Chemist/Data Specialist*	Tony.Long@microbac.com
Amanda Fickiesen	*Client Services Specialist*	Amanda.Fickiesen@microbac.com
Annie Brown	*Client Services Specialist*	Annie.Brown@microbac.com

This report was reviewed on December 22, 2010.

Stephanie Mossburg - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the accrediting authority listed below. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

This report was certified on December 22, 2010.

David Vandenberg - Managing Director

State of origin: Wisconsin
Accrediting authority: Department of Natural Resources ID:998202040
QAPP: DOD Ver 4.1
This report contains a total of 172 pages.

Look closer. Go further. Do more.

Microbac REPORT L10120298
PREPARED FOR CT Laboratories
WORK ID:

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1.0 Introduction

LABORATORY REPORT

L10120298

12/22/10 10:47

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CT Laboratories
1230 Lange Court

Baraboo, WI 53913
Attention: Patrick Letterer

Project Number: 2694.006
Project: CT Labs
Site: CT LABS

Sample Summary

Client ID	Lab ID	Date Collected	Date Received
877664	L10120298-01	12/07/2010 13:25	12/09/2010
877666	L10120298-02	12/07/2010 13:55	12/09/2010

Login Number: L10120298

Department: Login

Analyst: N/A
Analyst #2: N/A

Chain of Custody:

Shipment Conditions

COC #	Cooler #	Temperature
	0015121	2.0

Sample Management: All samples were received intact.

Sample Identification

Lab ID	Client ID
L10120298-01	877664
L10120298-02	877666

Narrative ID: 17206
Approved By: Stephanie Mossburg
Stephanie Mossburg

2.0 Full Sample Data Package

2.1 Semivolatiles Data

2.1.1 Pesticide GC Data (8081)

2.1.1.1 Summary Data

Microbac Laboratories Inc.
GC PESTICIDES

Microbac Login No: L10120298

METHOD

Preparation: SW- 846 3550B(Soils)/3510C(Waters)/3580A (Waste dilution)

Analysis: SW-846 8081

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration: The CCV's WG351417-02 and 03 yielded differences >20%, biased high, for endosulfan sulfate and endrin ketone on the rear (confirmation) column. All other acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Labortory Control Sample: All acceptance criteria were met.

Matrix Spikes: There were no MS/MSD results associated with this sample delivery group, due to insufficient volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac recommends site specific MS/MSD samples to avoid possible data qualification.

SAMPLES

Surrogates: Samples 01 and 02 yielded % recoveries for decachlorobiphenyl that were above the acceptance limit due to SMI. All other acceptance criteria were met.

Endrin/DDT Breakdown: All acceptance criteria were met.

Samples: For all samples which yielded results with an RPD of greater than 40% between the primary and confirmation column the appropriate flag was applied. All acceptance criteria were met.

Manual Integration Reason Codes

Microbac laboratory management has identified four general cases with valid reasons supporting the use of manual integration techniques.

Reason #1: Data System Fails to Select Correct Peak
In some cases the chromatography system selects and integrates the ”wrong peak”. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

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

Reason #3: Improperly Integrated Isomers and/or coeluting compounds.
This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

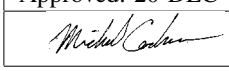
Reason #4: System Establishes Incorrect Baseline
There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

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

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: ECL

Approved: 20-DEC-10



LABORATORY REPORT

L10120298

12/22/10 10:47

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CT Laboratories
1230 Lange Court

Baraboo, WI 53913
Attention: Patrick Letterer

Project Number: 2694.006
Project: CT Labs
Site: CT LABS

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
877664	L10120298-01	8081A	1	09-DEC-10
877664	L10120298-01	8081A	1	09-DEC-10
877666	L10120298-02	8081A	1	09-DEC-10
877666	L10120298-02	8081A	1	09-DEC-10

Report Number: **L10120298**
Report Date : **December 22, 2010**

Sample Number:	L10120298-01	PrePrep Method:	NONE	Instrument:	HP15
Client ID:	877664	Prep Method:	3550B	Prep Date:	12/13/2010 11:03
Matrix:	Soil	Analytical Method:	8081A	Cal Date:	09/27/2010 22:14
Workgroup Number:	WG351387	Analyst:	HAV	Run Date:	12/14/2010 22:56
Collect Date:	12/07/2010 13:25	Dilution:	1	File ID:	15G24408.F
Sample Tag:	01	Units:	ug/kg	Percent Solid:	99.0

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		UQ	1.65	0.329
4,4'-DDE	72-55-9		UQ	1.65	0.329
4,4'-DDT	50-29-3		UQ	1.65	0.329
Aldrin	309-00-2		UQ	1.65	0.329
alpha Chlordane	5103-71-9		UQ	1.65	0.329
alpha-BHC	319-84-6		UQ	1.65	0.329
beta-BHC	319-85-7		UQ	1.65	0.329
delta-BHC	319-86-8		UQ	1.65	0.329
Dieldrin	60-57-1		UQ	1.65	0.329
Endosulfan I	959-98-8		UQ	1.65	0.329
Endosulfan II	33213-65-9		UQ	1.65	0.329
Endosulfan sulfate	1031-07-8	0.429	JQ	1.65	0.329
Endrin	72-20-8		UQ	1.65	0.329
Endrin aldehyde	7421-93-4		UQ	1.65	0.329
Endrin ketone	53494-70-5		UQ	1.65	0.329
gamma Chlordane	5103-74-2		UQ	1.65	0.329
gamma-BHC (Lindane)	58-89-9		UQ	1.65	0.329
Heptachlor	76-44-8		UQ	1.65	0.329
Heptachlor epoxide	1024-57-3		UQ	1.65	0.329
Methoxychlor	72-43-5		UQ	1.65	0.329
Toxaphene	8001-35-2		UQ	32.9	16.7

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	117	70	125	
Decachlorobiphenyl	149	55	130	*

UQ Undetected; the analyte was analyzed for, but not detected.
***** Surrogate or spike compound out of range
JQ JQ

Report Number: **L10120298**
Report Date : **December 22, 2010**

Sample Number:	L10120298-01	PrePrep Method:	NONE	Instrument:	HP15
Client ID:	877664	Prep Method:	3550B	Prep Date:	12/13/2010 11:03
Matrix:	Soil	Analytical Method:	8081A	Cal Date:	09/27/2010 22:14
Workgroup Number:	WG351387	Analyst:	HAV	Run Date:	12/14/2010 23:24
Collect Date:	12/07/2010 13:25	Dilution:	1	File ID:	15G24408.R
Sample Tag:	CF01	Units:	ug/kg	Percent Solid:	99.0

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Endosulfan sulfate	1031-07-8	6.55	Q	1.65	0.329

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	56.6	70	125	*
Decachlorobiphenyl	683	55	130	*

* Surrogate or spike compound out of range
Q One or more quality control criteria failed. See narrative.

Report Number: **L10120298**
Report Date : **December 22, 2010**

Sample Number:	L10120298-02	PrePrep Method:	NONE	Instrument:	HP15
Client ID:	877666	Prep Method:	3550B	Prep Date:	12/13/2010 11:03
Matrix:	Soil	Analytical Method:	8081A	Cal Date:	
Workgroup Number:	WG351387	Analyst:	HAV	Run Date:	12/14/2010 23:24
Collect Date:	12/07/2010 13:55	Dilution:	1	File ID:	15G24409.F
Sample Tag:	01	Units:	ug/kg	Percent Solid:	98.5

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		UQ	1.62	0.325
4,4'-DDE	72-55-9		UQ	1.62	0.325
4,4'-DDT	50-29-3		UQ	1.62	0.325
Aldrin	309-00-2		UQ	1.62	0.325
alpha Chlordane	5103-71-9		UQ	1.62	0.325
alpha-BHC	319-84-6		UQ	1.62	0.325
beta-BHC	319-85-7		UQ	1.62	0.325
delta-BHC	319-86-8		UQ	1.62	0.325
Dieldrin	60-57-1		UQ	1.62	0.325
Endosulfan I	959-98-8		UQ	1.62	0.325
Endosulfan II	33213-65-9		UQ	1.62	0.325
Endosulfan sulfate	1031-07-8	1.66	Q	1.62	0.325
Endrin	72-20-8		UQ	1.62	0.325
Endrin aldehyde	7421-93-4		UQ	1.62	0.325
Endrin ketone	53494-70-5		UQ	1.62	0.325
gamma Chlordane	5103-74-2		UQ	1.62	0.325
gamma-BHC (Lindane)	58-89-9		UQ	1.62	0.325
Heptachlor	76-44-8		UQ	1.62	0.325
Heptachlor epoxide	1024-57-3		UQ	1.62	0.325
Methoxychlor	72-43-5		UQ	1.62	0.325
Toxaphene	8001-35-2		UQ	32.5	16.4

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	76.6	70	125	
Decachlorobiphenyl	237	55	130	

UQ Undetected; the analyte was analyzed for, but not detected.
Q One or more quality control criteria failed. See narrative.

Report Number: **L10120298**
Report Date : **December 22, 2010**

Sample Number:	L10120298-02	PrePrep Method:	NONE	Instrument:	HP15
Client ID:	877666	Prep Method:	3550B	Prep Date:	12/13/2010 11:03
Matrix:	Soil	Analytical Method:	8081A	Cal Date:	09/27/2010 22:14
Workgroup Number:	WG351387	Analyst:	HAV	Run Date:	12/14/2010 23:52
Collect Date:	12/07/2010 13:55	Dilution:	1	File ID:	15G24409.R
Sample Tag:	CF01	Units:	ug/kg	Percent Solid:	98.5

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Endosulfan sulfate	1031-07-8	24.5	Q	1.62	0.325

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	51.2	70	125	*
Decachlorobiphenyl	2250	55	130	*

* Surrogate or spike compound out of range
Q One or more quality control criteria failed. See narrative.

2.1.1.2 QC Summary Data

Example 8081 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

$$RF = \frac{As}{Cs}$$

where:	Example:
A_s = Area of the compound being measured in the standard	10000
C_s = Concentration of the compound being measured (ng/mL)	100
	RF = 100

2.0 Calculating the concentration (C) of a compound in water using data from prep log and quantitation report:*

$$C = \frac{(A_x)(Vf)(D)}{(RF)(Vi)}$$

where:	Example:
A_x = Area of the compound begin measured	10000
Vf = Final volume of sample extract (mL). (prep log)	1
D = Dilution factor for sample as a multiplier (10X=10)	1
RF = Response factor from ICAL calculated above.	100
Vi = Initial volume of sample (mL). (prep log)	1000
	C(ug/L) = 0.1

3.0 Calculating the concentration (C) of a compound in soil using data from prep log and quantitation report:*

$$C = \frac{(A_x)(Vf)(D)}{(RF)(Wi)}$$

where:	Example:
A_x = Area of the compound begin measured	10000
Vf = Final volume of sample extract (mL). (prep log)	1
D = Dilution factor for sample as a multiplier (10X=10)	1
RF = Response factor from ICAL calculated above.	100
Wi = Initial weight of sample (g).	30
	C(ug/kg) = 3.333333

* Concentrations appearing on instrument quantitation reports are on-column results and do not take into account initial volume, final volume and dilution factor.

Microbac Laboratories Inc.
Sample Extract Log

Workgroup: WG351206
Analyst: CPD
Spike Analyst: CPD
Method: 3550B
Run Date: 12/13/2010 11:03
SOP: EXP02 Revison 15
Spike Witness: CAF
Surr Solution: STD42482

Hexane Lot #: COA14969
Purified Lab Sand Lot #: COA14882
Na2SO4, Anhydrous,Powder Lot #: COA14768
Sodium Sulfate,Anhydrous,Granular (Lot #: COA14988
Florisil Disposable Column Lot #: COA14997
94:6 Hexane:Ether Lot #: RGT15506
50:50 Hexane:Ether Lot #: RGT15509

	SAMPLE #	Type	Reference	pH	Prod	Init Amnt	Surr Amnt	Spike Amnt	Spike Sol	Final Vol	Color
1	L10120074-04	SAMP			8081	30.18 g	.2 mL			10 mL	Transparent
2	L10120074-06	SAMP			8081	30.41 g	.2 mL			10 mL	Transparent
3	L10120074-08	SAMP			8081	30.12 g	.2 mL			10 mL	Transparent
4	L10120290-01	SAMP			8081	30.27 g	.2 mL			10 mL	Transparent
5	L10120290-02	SAMP			8081	30.52 g	.2 mL			10 mL	Transparent
6	L10120290-03	SAMP			8081	30.66 g	.2 mL			10 mL	Transparent
7	L10120290-04	SAMP			8081	30.41 g	.2 mL			10 mL	Transparent
8	L10120290-05	SAMP			8081	30.62 g	.2 mL			10 mL	Transparent
9	L10120290-06	SAMP			8081	30.18 g	.2 mL			10 mL	Transparent
10	L10120290-07	SAMP			8081	30.45 g	.2 mL			10 mL	Transparent
11	L10120290-08	SAMP			8081	30.05 g	.2 mL			10 mL	Transparent
12	L10120290-09	SAMP			8081	30.35 g	.2 mL			10 mL	Transparent
13	L10120290-10	SAMP			8081	30.33 g	.2 mL			10 mL	Transparent
14	L10120290-11	SAMP			8081	30.48 g	.2 mL			10 mL	Transparent
15	L10120298-01	SAMP			8081	30.37 g	.2 mL			10 mL	Colored
16	L10120298-02	SAMP			8081	30.95 g	.2 mL			10 mL	Colored
17	WG351206-01	BLANK			8081	30 g	.2 mL			10 mL	Transparent
18	WG351206-02	LCS			8081	30 g	.2 mL	.25 mL	STD42746	10 mL	Transparent
19	WG351206-03	LCS2			8081	30 g	.2 mL	.25 mL	STD42746	10 mL	Transparent
20	WG351206-04	LCS_TOX			8081	30 g	.2 mL	.1 mL	STD40740	10 mL	Transparent

Due to insufficient sample volume, this preparation batch failed to include the method prescribed MS and MSD.

L10120074-04	RE-EXT IN HOLD
L10120074-06	RE-EXT IN HOLD
L10120074-08	RE-EXT IN HOLD

Clean-ups	
Florisil	3620B

Analyst: Chadwick Davis

Reviewer: Cheryl A. Flowers

EXTRACT - Modified 10/22/2008
PDF ID: 1865341
Report generated: 12/13/2010 16:04

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 092710
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: 34722 Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2

Workgroups:

CCV Std: STD40207 LCS STD: STD39880
Internal STD: NA Surrogate STD: STD39847 Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	15G23690.F	ENDRIN/DDT	1	1	STD39983	09/27/10 12:35
2	15G23690.R	ENDRIN/DDT	1	1	STD39983	09/27/10 13:04
3	15G23691.F	TOX 10 PPM	1	1	STD40827	09/27/10 14:11
4	15G23691.R	TOX 10 PPM	1	1	STD40827	09/27/10 14:39
5	15G23692.F	CHLOR 10 PPM	1	1	STD40825	09/27/10 14:39
6	15G23692.R	CHLOR 10 PPM	1	1	STD40825	09/27/10 15:07
7	15G23693.F	TOX 10 PPM	1	1	STD40827	09/27/10 15:07
8	15G23693.R	TOX 10 PPM	1	1	STD40827	09/27/10 15:36
9	15G23694.F	CHLOR 10 PPM	1	1	STD40825	09/27/10 15:36
10	15G23694.R	CHLOR 10 PPM	1	1	STD40825	09/27/10 16:04
11	15G23695.F	WG343905-01 ENDRIN/DDT	1	1	STD39983	09/27/10 16:04
12	15G23695.R	WG343905-01 ENDRIN/DDT	1	1	STD39983	09/27/10 16:34
13	15G23696.F	WG343903-01 TOX ICAL 2000 PPB	1	1	STD40827	09/27/10 16:34
14	15G23696.R	WG343903-01 TOX ICAL 2000 PPB	1	1	STD40827	09/27/10 17:02
15	15G23697.F	WG343903-02 TOX ICAL 1000 PPB	1	1	STD40827	09/27/10 17:02
16	15G23697.R	WG343903-02 TOX ICAL 1000 PPB	1	1	STD40827	09/27/10 17:30
17	15G23698.F	WG343903-03 TOX ICAL 500 PPB	1	1	STD40827	09/27/10 17:30
18	15G23698.R	WG343903-03 TOX ICAL 500 PPB	1	1	STD40827	09/27/10 17:59
19	15G23699.F	WG343903-04 TOX ICAL 200 PPB	1	1	STD40827	09/27/10 17:59
20	15G23699.R	WG343903-04 TOX ICAL 200 PPB	1	1	STD40827	09/27/10 18:27
21	15G23700.F	WG343903-05 TOX ICAL 100 PPB	1	1	STD40827	09/27/10 18:27
22	15G23700.R	WG343903-05 TOX ICAL 100 PPB	1	1	STD40827	09/27/10 18:55
23	15G23701.F	WG343903-06 TOX ALT 500 PPB	1	1	STD40828	09/27/10 18:55
24	15G23701.R	WG343903-06 TOX ALT 500 PPB	1	1	STD40828	09/27/10 19:24
25	15G23702.F	WG343902-01 PEST ICAL 200 PPB	1	1	STD40207	09/27/10 19:24
26	15G23702.R	WG343902-01 PEST ICAL 200 PPB	1	1	STD40207	09/27/10 19:52
27	15G23703.F	WG343902-02 PEST ICAL 100 PPB	1	1	STD40207	09/27/10 19:52
28	15G23703.R	WG343902-02 PEST ICAL 100 PPB	1	1	STD40207	09/27/10 20:21
29	15G23704.F	WG343902-03 PEST ICAL 20 PPB	1	1	STD40207	09/27/10 20:21
30	15G23704.R	WG343902-03 PEST ICAL 20 PPB	1	1	STD40207	09/27/10 20:49
31	15G23705.F	WG343902-04 PEST ICAL 10 PPB	1	1	STD40207	09/27/10 20:49
32	15G23705.R	WG343902-04 PEST ICAL 10 PPB	1	1	STD40207	09/27/10 21:18
33	15G23706.F	WG343902-05 PEST ICAL 4 PPB	1	1	STD40207	09/27/10 21:18
34	15G23706.R	WG343902-05 PEST ICAL 4 PPB	1	1	STD40207	09/27/10 21:46

Page: 1 Approved: 01-OCT-10

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 092710
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: 34722 Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2

Workgroups:

CCV Std: STD40207 LCS STD: STD39880
Internal STD: NA Surrogate STD: STD39847

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
35	15G23707.F	WG343902-06 PEST ICAL 1 PPB	1	1	STD40207	09/27/10 21:46
36	15G23707.R	WG343902-06 PEST ICAL 1 PPB	1	1	STD40207	09/27/10 22:14
37	15G23708.F	WG343902-07 PEST ALT 20 PPB	1	1	STD38730	09/27/10 22:14
38	15G23708.R	WG343902-07 PEST ALT 20 PPB	1	1	STD38730	09/27/10 22:43
39	15G23709.F	WG343904-01 CHLOR ICAL 2000 PPB	1	1	STD40825	09/27/10 22:43
40	15G23709.R	WG343904-01 CHLOR ICAL 2000 PPB	1	1	STD40825	09/27/10 23:11
41	15G23710.F	WG343904-02 CHLOR ICAL 1000 PPB	1	1	STD40825	09/27/10 23:11
42	15G23710.R	WG343904-02 CHLOR ICAL 1000 PPB	1	1	STD40825	09/27/10 23:39
43	15G23711.F	WG343904-03 CHLOR ICAL 500 PPB	1	1	STD40825	09/27/10 23:39
44	15G23711.R	WG343904-03 CHLOR ICAL 500 PPB	1	1	STD40825	09/28/10 00:08
45	15G23712.F	WG343904-04 CHLOR ICAL 200 PPB	1	1	STD40825	09/28/10 00:08
46	15G23712.R	WG343904-04 CHLOR ICAL 200 PPB	1	1	STD40825	09/28/10 00:36
47	15G23713.F	WG343904-05 CHLOR ICAL 100 PPB	1	1	STD40825	09/28/10 00:36
48	15G23713.R	WG343904-05 CHLOR ICAL 100 PPB	1	1	STD40825	09/28/10 01:04
49	15G23714.F	WG343521-01 BLANK	1	1		09/28/10 01:04
50	15G23714.R	WG343521-01 BLANK	1	1		09/28/10 01:33
51	15G23715.F	WG343521-02 LCS	1	1		09/28/10 01:33
52	15G23715.R	WG343521-02 LCS	1	1		09/28/10 02:01
53	15G23716.F	WG343521-03 LCS DUP	1	1		09/28/10 02:01
54	15G23716.R	WG343521-03 LCS DUP	1	1		09/28/10 02:29
55	15G23717.F	WG343521-04 TOX LCS	1	1		09/28/10 02:29
56	15G23717.R	WG343521-04 TOX LCS	1	1		09/28/10 02:58
57	15G23718.F	WG343521-05 CHLOR LCS	1	1		09/28/10 02:58
58	15G23718.R	WG343521-05 CHLOR LCS	1	1		09/28/10 03:26
59	15G23719.F	L10090495-06	1	1		09/28/10 03:26
60	15G23719.R	L10090495-06	1	1		09/28/10 03:54
61	15G23720.F	WG343905-02 ENDRIN/DDT	1	1	STD39983	09/28/10 03:54
62	15G23720.R	WG343905-02 ENDRIN/DDT	1	1	STD39983	09/28/10 04:23
63	15G23721.F	WG343905-03 PEST CCV 20 PPB	1	1	STD40207	09/28/10 04:23
64	15G23721.R	WG343905-03 PEST CCV 20 PPB	1	1	STD40207	09/28/10 04:51
65	15G23722.F	WG343906-01 TOX CCV 500 PPB	1	1	STD40827	09/28/10 04:51
66	15G23722.R	WG343906-01 TOX CCV 500 PPB	1	1	STD40827	09/28/10 05:19
67	15G23723.F	WG343907-01 CHLOR CCV 500 PPB	1	1	STD40827	09/28/10 05:19
68	15G23723.R	WG343907-01 CHLOR CCV 500 PPB	1	1	STD40827	09/28/10 05:48

Comments

Seq.	Rerun	Dil.	Reason	Analytes

Page: 2 Approved: 01-OCT-10

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 121410
Analyst1: HAV Analyst2: ECL
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD40207 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD42482 Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
25	15G24383.F	WG351417-01 ENDRIN/DDT	1	1	STD39983	12/14/10 11:07
26	15G24383.R	WG351417-01 ENDRIN/DDT	1	1	STD39983	12/14/10 11:35
1	15G24384.F	WG351417-02 PEST CCV 20 PPB	1	1	STD40207	12/14/10 11:35
2	15G24384.R	WG351417-02 PEST CCV 20 PPB	1	1	STD40207	12/14/10 12:04
3	15G24385.F	WG351418-01 TOX CCV 500 PPB	1	1	STD40827	12/14/10 12:04
4	15G24385.R	WG351418-01 TOX CCV 500 PPB	1	1	STD40827	12/14/10 12:32
27	15G24386.F	HEXANE	1	1		12/14/10 12:32
28	15G24386.R	HEXANE	1	1		12/14/10 13:00
29	15G24387.F	WG351206-01 BLANK	7	1	SOIL	12/14/10 13:00
30	15G24387.R	WG351206-01 BLANK	7	1	SOIL	12/14/10 13:29
31	15G24388.F	WG351206-02 LCS	7	1	SOIL	12/14/10 13:29
32	15G24388.R	WG351206-02 LCS	7	1	SOIL	12/14/10 13:57
33	15G24389.F	WG351206-04 LCS TOX	7	1	SOIL	12/14/10 13:57
34	15G24389.R	WG351206-04 LCS TOX	7	1	SOIL	12/14/10 14:26
35	15G24390.F	L10120290-01	7	1	SOIL	12/14/10 14:26
36	15G24390.R	L10120290-01	7	1	SOIL	12/14/10 14:54
37	15G24391.F	L10120290-02	7	1	SOIL	12/14/10 14:54
38	15G24391.R	L10120290-02	7	1	SOIL	12/14/10 15:22
39	15G24392.F	L10120290-03	7	1	SOIL	12/14/10 15:22
40	15G24392.R	L10120290-03	7	1	SOIL	12/14/10 15:51
41	15G24393.F	L10120074-04 RE	7	1		12/14/10 15:51
42	15G24393.R	L10120074-04 RE	7	1		12/14/10 16:19
43	15G24394.F	L10120074-06 RE	7	1		12/14/10 16:19
44	15G24394.R	L10120074-06 RE	7	1		12/14/10 16:47
45	15G24395.F	L10120074-08 RE	7	1		12/14/10 16:47
46	15G24395.R	L10120074-08 RE	7	1		12/14/10 17:15
47	15G24396.F	WG351206-03 LCS DUP	7	1	SOIL	12/14/10 17:15
48	15G24396.R	WG351206-03 LCS DUP	7	1	SOIL	12/14/10 17:44
143	15G24397.F	HEXANE	1	1		12/14/10 17:44
144	15G24397.R	HEXANE	1	1		12/14/10 18:12
5	15G24398.F	WG351417-03 PEST CCV 10 PPB	1	1	STD40207	12/14/10 18:12
6	15G24398.R	WG351417-03 PEST CCV 10 PPB	1	1	STD40207	12/14/10 18:40
7	15G24399.F	WG351418-02 TOX CCV 200 PPB	1	1	STD40827	12/14/10 18:40
8	15G24399.R	WG351418-02 TOX CCV 200 PPB	1	1	STD40827	12/14/10 19:09

Page: 1 Approved: 20-DEC-10

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 121410
Analyst1: HAV Analyst2: ECL
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD40207 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD42482

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
49	15G24400.F	L10120290-04	7	1	SOIL	12/14/10 19:09
50	15G24400.R	L10120290-04	7	1	SOIL	12/14/10 19:37
51	15G24401.F	L10120290-05	7	1	SOIL	12/14/10 19:37
52	15G24401.R	L10120290-05	7	1	SOIL	12/14/10 20:05
53	15G24402.F	L10120290-06	7	1	SOIL	12/14/10 20:05
54	15G24402.R	L10120290-06	7	1	SOIL	12/14/10 20:34
55	15G24403.F	L10120290-07	7	1	SOIL	12/14/10 20:34
56	15G24403.R	L10120290-07	7	1	SOIL	12/14/10 21:02
57	15G24404.F	L10120290-08	7	1	SOIL	12/14/10 21:02
58	15G24404.R	L10120290-08	7	1	SOIL	12/14/10 21:30
59	15G24405.F	L10120290-09	7	1	SOIL	12/14/10 21:30
60	15G24405.R	L10120290-09	7	1	SOIL	12/14/10 21:59
61	15G24406.F	L10120290-10	7	1	SOIL	12/14/10 21:59
62	15G24406.R	L10120290-10	7	1	SOIL	12/14/10 22:27
63	15G24407.F	L10120290-11	7	1	SOIL	12/14/10 22:27
64	15G24407.R	L10120290-11	7	1	SOIL	12/14/10 22:56
65	15G24408.F	L10120298-01	7	1	SOIL	12/14/10 22:56
66	15G24408.R	L10120298-01	7	1	SOIL	12/14/10 23:24
67	15G24409.F	L10120298-02	7	1	SOIL	12/14/10 23:24
68	15G24409.R	L10120298-02	7	1	SOIL	12/14/10 23:52
69	15G24410.F	HEXANE	1	1		12/14/10 23:52
70	15G24410.R	HEXANE	1	1		12/15/10 00:20
71	15G24411.F	HEXANE	1	1		12/15/10 00:20
72	15G24411.R	HEXANE	1	1		12/15/10 00:49
73	15G24412.F	WG351417-04 ENDRIN/DDT	1	1	STD39983	12/15/10 00:49
74	15G24412.R	WG351417-04 ENDRIN/DDT	1	1	STD39983	12/15/10 01:17
9	15G24413.F	WG351417-05 PEST CCV 20 PPB	1	1	STD40207	12/15/10 01:17
10	15G24413.R	WG351417-05 PEST CCV 20 PPB	1	1	STD40207	12/15/10 01:45
11	15G24414.F	WG351418-03 TOX CCV 500 PPB	1	1	STD40827	12/15/10 01:45
12	15G24414.R	WG351418-03 TOX CCV 500 PPB	1	1	STD40827	12/15/10 02:14
75	15G24415.F	WG351204-01 BLANK	1	1		12/15/10 02:14
76	15G24415.R	WG351204-01 BLANK	1	1		12/15/10 02:42
77	15G24416.F	WG351204-02 LCS	1	1		12/15/10 02:42
78	15G24416.R	WG351204-02 LCS	1	1		12/15/10 03:10
79	15G24417.F	L10120275-01	2	1		12/15/10 03:10
80	15G24417.R	L10120275-01	2	1		12/15/10 03:39
81	15G24418.F	L10120275-02	2	1		12/15/10 03:39

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 121410
Analyst1: HAV Analyst2: ECL
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD40207 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD42482

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
82	15G24418.R	L10120275-02	2	1		12/15/10 04:07
83	15G24419.F	WG351055-01 FBLK TC	17	1		12/15/10 04:07
84	15G24419.R	WG351055-01 FBLK TC	17	1		12/15/10 04:35
85	15G24420.F	L10120294-28 8081-TC	17	1		12/15/10 04:35
86	15G24420.R	L10120294-28 8081-TC	17	1		12/15/10 05:04
87	15G24421.F	L10120294-29 8081-TC	17	1		12/15/10 05:04
88	15G24421.R	L10120294-29 8081-TC	17	1		12/15/10 05:32
89	15G24422.F	L10120294-30 8081-TC	17	1		12/15/10 05:32
90	15G24422.R	L10120294-30 8081-TC	17	1		12/15/10 06:00
91	15G24423.F	L10120294-31 8081-TC	17	1		12/15/10 06:00
92	15G24423.R	L10120294-31 8081-TC	17	1		12/15/10 06:28
93	15G24424.F	WG351204-03 LCS DUP	1	1		12/15/10 06:28
94	15G24424.R	WG351204-03 LCS DUP	1	1		12/15/10 06:57
95	15G24425.F	HEXANE	1	1		12/15/10 06:57
96	15G24425.R	HEXANE	1	1		12/15/10 07:25
13	15G24426.F	WG351417-06 PEST CCV 10 PPB	1	1	STD40207	12/15/10 07:25
14	15G24426.R	WG351417-06 PEST CCV 10 PPB	1	1	STD40207	12/15/10 07:54
15	15G24427.F	WG351418-04 TOX CCV 200 PPB	1	1	STD40827	12/15/10 07:54
16	15G24427.R	WG351418-04 TOX CCV 200 PPB	1	1	STD40827	12/15/10 08:22
97	15G24428.F	L10120294-32 8081-TC	17	1		12/15/10 08:22
98	15G24428.R	L10120294-32 8081-TC	17	1		12/15/10 08:50
99	15G24429.F	L10120331-02	1	1		12/15/10 08:50
100	15G24429.R	L10120331-02	1	1		12/15/10 09:19
101	15G24430.F	L10120331-03	1	1		12/15/10 09:19
102	15G24430.R	L10120331-03	1	1		12/15/10 09:47
103	15G24431.F	L10120331-04	1	1		12/15/10 09:47
104	15G24431.R	L10120331-04	1	1		12/15/10 10:15
105	15G24432.F	L10120331-05	1	1		12/15/10 10:15
106	15G24432.R	L10120331-05	1	1		12/15/10 10:44
107	15G24433.F	L10120331-06	1	1		12/15/10 10:44
108	15G24433.R	L10120331-06	1	1		12/15/10 11:13
109	15G24434.F	L10120331-07	1	1		12/15/10 11:13
110	15G24434.R	L10120331-07	1	1		12/15/10 11:41
111	15G24435.F	L10120331-08	1	1		12/15/10 11:41
112	15G24435.R	L10120331-08	1	1		12/15/10 12:09
113	15G24436.F	L10120331-10	1	1		12/15/10 12:09
114	15G24436.R	L10120331-10	1	1		12/15/10 12:38

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 121410
Analyst1: HAV Analyst2: ECL
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD40207 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD42482

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
115	15G24437.F	HEXANE	1	1		12/15/10 12:38
116	15G24437.R	HEXANE	1	1		12/15/10 13:06
17	15G24438.F	WG351417-07 ENDRIN/DDT	1	1	STD39983	12/15/10 13:06
18	15G24438.R	WG351417-07 ENDRIN/DDT	1	1	STD39983	12/15/10 13:35
19	15G24439.F	WG351417-08 PEST CCV 20 PPB	1	1	STD40207	12/15/10 13:35
20	15G24439.R	WG351417-08 PEST CCV 20 PPB	1	1	STD40207	12/15/10 14:03
21	15G24440.F	WG351418-05 TOX CCV 500 PPB	1	1	STD40827	12/15/10 14:03
22	15G24440.R	WG351418-05 TOX CCV 500 PPB	1	1	STD40827	12/15/10 14:31
117	15G24441.F	HEXANE	1	1		12/15/10 15:39
118	15G24441.R	HEXANE	1	1		12/15/10 16:08
119	15G24442.F	WG351500-01 BLANK	2	1		12/15/10 16:08
120	15G24442.R	WG351500-01 BLANK	2	1		12/15/10 16:36
121	15G24443.F	WG351500-02 LCS	2	1		12/15/10 16:36
122	15G24443.R	WG351500-02 LCS	2	1		12/15/10 17:04
123	15G24444.F	L10120361-12	2	1		12/15/10 17:04
124	15G24444.R	L10120361-12	2	1		12/15/10 17:33
125	15G24445.F	WG351500-03 LCS DUP	2	1		12/15/10 17:33
126	15G24445.R	WG351500-03 LCS DUP	2	1		12/15/10 18:01
127	15G24446.F	L10120298-01 5x	7	5		12/15/10 18:01
128	15G24446.R	L10120298-01 5x	7	5		12/15/10 18:29
129	15G24447.F	L10120298-01 10x	7	10		12/15/10 18:29
130	15G24447.R	L10120298-01 10x	7	10		12/15/10 18:58
131	15G24448.F	L10120298-02 5x	7	5		12/15/10 18:58
132	15G24448.R	L10120298-02 5x	7	5		12/15/10 19:26
133	15G24449.F	L10120298-02 10x	7	10		12/15/10 19:26
134	15G24449.R	L10120298-02 10x	7	10		12/15/10 19:54
135	15G24450.F	HEXANE	1	1		12/15/10 19:54
136	15G24450.R	HEXANE	1	1		12/15/10 20:22
137	15G24451.F	HEXANE	1	1		12/15/10 20:22
138	15G24451.R	HEXANE	1	1		12/15/10 20:51
139	15G24452.F	WG351417-09 ENDRIN/DDT	1	1	STD39983	12/15/10 20:51
140	15G24452.R	WG351417-09 ENDRIN/DDT	1	1	STD39983	12/15/10 21:19
141	15G24453.F	WG351417-10 PEST CCV 10 PPB	1	1	STD40207	12/15/10 21:19
142	15G24453.R	WG351417-10 PEST CCV 10 PPB	1	1	STD40207	12/15/10 21:47
23	15G24454.F	WG351418-06 TOX CCV 200 PPB	1	1	STD40827	12/15/10 21:47
24	15G24454.R	WG351418-06 TOX CCV 200 PPB	1	1	STD40827	12/15/10 22:16

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 121410

Analyst1: HAV Analyst2: ECL

Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2

Workgroups:

CCV Std: STD40207 LCS STD: STD42746

Internal STD: NA Surrogate STD: STD42482

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2				
	WG351417-02 PEST CCV 20 PPB: Endosulfan sulfate and endrin ketone failed low. (confirmation column)			
37				
	L10120290-02: T-M-X surrogate failed low.			
39				
	L10120290-03: T-M-X surrogate failed low.			
6				
	WG351417-03 PEST CCV 10 PPB: Endosulfan sulfate and endrin ketone failed low. (confirmation column)			
51				
	L10120290-05: T-M-X surrogate failed low.			
57				
	L10120290-08: T-M-X surrogate failed high.			
65				
	L10120298-01: DCB surrogate failed high due to SMI.			
67				
	L10120298-02: DCB surrogate failed high due to SMI.			
10				
	WG351417-05 PEST CCV 20 PPB: Methoxychlor failed low. (confirmation column)			
13				
	WG351417-06 PEST CCV 10 PPB: Endosulfan I failed high.			

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Microbac Laboratories Inc.

Data Checklist

Date: 27-SEP-2010
Analyst: ECL
Analyst: NA
Method: 8081
Instrument: HP15
Curve Workgroup: NA
Runlog ID: 36634
Analytical Workgroups: L10090495

ANALYTICAL	
System Performance Check	NA
DFTPP (MS)	NA
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	X
Average RF	X
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	X
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	X
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	ECL
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	HAV

Primary Reviewer:
28-SEP-2010

Secondary Reviewer:
01-OCT-2010

CHECKLIST1 - Modified 03/05/2008
Generated: OCT-01-2010 13:59:58

Microbac Laboratories Inc.

Data Checklist

Date: 14-DEC-2010
Analyst: HAV
Analyst: ECL
Method: 8081
Instrument: HP15
Curve Workgroup: NA
Runlog ID: 38137
Analytical Workgroups: 12-074, 12-290, 12-298, 12-275, 12-294, 12-331, 12-361

ANALYTICAL	
System Performance Check	NA
DFTPP (MS)	NA
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	X
Check for completeness	X
Primary Reviewer	ECL
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
20-DEC-2010

Secondary Reviewer:
20-DEC-2010

CHECKLIST1 - Modified 03/05/2008
Generated: DEC-20-2010 13:38:50

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8081A **AAB#:** WG351387

Login Number: L10120298

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
877664	01	12/07/10					12/13/10	5.9	14		12/14/10	1.5	40	
877664	01	12/07/10					12/13/10	5.9	14		12/14/10	1.5	40	
877666	02	12/07/10					12/13/10	5.9	14		12/14/10	1.5	40	
877666	02	12/07/10					12/13/10	5.9	14		12/14/10	1.5	40	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1872042
Report generated 12/21/2010 08:59

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L10120298
Instrument Id: HP15
Workgroup (AAB#): WG351387

Method: 8081
CAL ID: HP15-27-SEP-10
Matrix: Soil

Sample Number	Dilution	Tag	1	2
L10120298-01	1.00	01	117	149
L10120298-01	1.00	CF01	56.6	683
L10120298-02	1.00	01	76.6	237
L10120298-02	1.00	CF01	51.2	2250
WG351206-01	1.00	01	71.7	86.7
WG351206-01	1.00	02	68.2	80.2
WG351206-02	1.00	01	70.1	87.5
WG351206-02	1.00	02	66.2	81.0
WG351206-03	1.00	01	77.1	91.9
WG351206-03	1.00	02	71.6	85.2
WG351206-04	1.00	02	75.3	94.6

Surrogates	Surrogate Limits		
1 - 2,4,5,6-Tetrachloro-m-xylene	70	-	125
2 - Decachlorobiphenyl	55	-	130

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1872052
Report generated: 12/21/2010 09:00

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L10120298
Work Group: WG351387
Blank File ID: 15G24387.F
Blank Sample ID: WG351206-01
Prep Date: 12/13/10 11:03
Instrument ID: HP15
Analyzed Date: 12/14/10 13:00
Method: 8081A
Analyst: HAV

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG351206-02	15G24388.F	12/14/10 13:29	01
LCS_TOX	WG351206-04	15G24389.F	12/14/10 13:57	02
LCS	WG351206-02	15G24388.R	12/14/10 13:57	02
LCS2	WG351206-03	15G24396.F	12/14/10 17:15	01
LCS2	WG351206-03	15G24396.R	12/14/10 17:44	02
877664	L10120298-01	15G24408.F	12/14/10 22:56	01
877664	L10120298-01	15G24408.R	12/14/10 23:24	CF01
877666	L10120298-02	15G24409.F	12/14/10 23:24	01
877666	L10120298-02	15G24409.R	12/14/10 23:52	CF01

Report Name: BLANK_SUMMARY
PDF File ID: 1872043
Report generated 12/21/2010 08:59

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L10120298
Work Group: WG351387
Blank File ID: 15G24387.R
Blank Sample ID: WG351206-01
Prep Date: 12/13/10 11:03
Instrument ID: HP15
Analyzed Date: 12/14/10 13:29
Method: 8081A
Analyst: HAV

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG351206-02	15G24388.F	12/14/10 13:29	01
LCS_TOX	WG351206-04	15G24389.F	12/14/10 13:57	02
LCS	WG351206-02	15G24388.R	12/14/10 13:57	02
LCS2	WG351206-03	15G24396.F	12/14/10 17:15	01
LCS2	WG351206-03	15G24396.R	12/14/10 17:44	02
877664	L10120298-01	15G24408.F	12/14/10 22:56	01
877664	L10120298-01	15G24408.R	12/14/10 23:24	CF01
877666	L10120298-02	15G24409.F	12/14/10 23:24	01
877666	L10120298-02	15G24409.R	12/14/10 23:52	CF01

Report Name: BLANK_SUMMARY
PDF File ID: 1872043
Report generated 12/21/2010 08:59

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L10120298 Prep Date: 12/13/10 11:03 Sample ID: WG351206-01
Instrument ID: HP15 Run Date: 12/14/10 13:00 Prep Method: 3550B
File ID: 15G24387.F Analyst: HAV Method: 8081A
Workgroup (AAB#): WG351387 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HP15-27-SEP-10

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
4,4'-DDD	0.330	1.65	0.330	1	U
4,4'-DDE	0.330	1.65	0.330	1	U
4,4'-DDT	0.330	1.65	0.330	1	U
Aldrin	0.330	1.65	0.330	1	U
alpha Chlordane	0.330	1.65	0.330	1	U
alpha-BHC	0.330	1.65	0.330	1	U
beta-BHC	0.330	1.65	0.330	1	U
delta-BHC	0.330	1.65	0.330	1	U
Dieldrin	0.330	1.65	0.330	1	U
Endosulfan I	0.330	1.65	0.330	1	U
Endosulfan II	0.330	1.65	0.330	1	U
Endosulfan sulfate	0.330	1.65	0.330	1	U
Endrin	0.330	1.65	0.330	1	U
Endrin aldehyde	0.330	1.65	0.330	1	U
Endrin ketone	0.330	1.65	0.330	1	U
gamma Chlordane	0.330	1.65	0.330	1	U
gamma-BHC (Lindane)	0.330	1.65	0.330	1	U
Heptachlor	0.330	1.65	0.330	1	U
Heptachlor epoxide	0.330	1.65	0.330	1	U
Methoxychlor	0.330	1.65	0.330	1	U
Toxaphene	16.7	33.0	16.7	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
2,4,5,6-Tetrachloro-m-xylene	71.7	70	-	125	PASS
Decachlorobiphenyl	86.7	55	-	130	PASS

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1872044
21-DEC-2010 08:59

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L10120298 Prep Date:12/13/10 11:03 Sample ID:WG351206-01
Instrument ID:HP15 Run Date:12/14/10 13:29 Prep Method:3550B
File ID:15G24387.R Analyst:HAV Method:8081A
Workgroup (AAB#):WG351387 Matrix:Soil Units:ug/kg
Contract #: Cal ID: HP15-27-SEP-10

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
4,4'-DDD	0.330	1.65	0.330	1	U
4,4'-DDE	0.330	1.65	0.330	1	U
4,4'-DDT	0.330	1.65	0.330	1	U
Aldrin	0.330	1.65	0.330	1	U
alpha Chlordane	0.330	1.65	0.330	1	U
alpha-BHC	0.330	1.65	0.330	1	U
beta-BHC	0.330	1.65	0.330	1	U
delta-BHC	0.330	1.65	0.330	1	U
Dieldrin	0.330	1.65	0.330	1	U
Endosulfan I	0.330	1.65	0.330	1	U
Endosulfan II	0.330	1.65	0.330	1	U
Endosulfan sulfate	0.330	1.65	0.330	1	U
Endrin	0.330	1.65	0.330	1	U
Endrin aldehyde	0.330	1.65	0.330	1	U
Endrin ketone	0.330	1.65	0.330	1	U
gamma Chlordane	0.330	1.65	0.330	1	U
gamma-BHC (Lindane)	0.330	1.65	0.330	1	U
Heptachlor	0.330	1.65	0.330	1	U
Heptachlor epoxide	0.330	1.65	0.330	1	U
Methoxychlor	0.330	1.65	0.330	1	U
Toxaphene	16.7	33.0	16.7	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
2,4,5,6-Tetrachloro-m-xylene	68.2	70	-	125	FAIL
Decachlorobiphenyl	80.2	55	-	130	PASS

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1872044
21-DEC-2010 08:59

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L10120298 Run Date: 12/14/2010 Sample ID: WG351206-04
Instrument ID: HP15 Run Time: 13:57 Prep Method: 3550B
File ID: 15G24389.F Analyst: HAV Method: 8081A
Workgroup (AAB#): WG351387 Matrix: Soil Units: ug/kg
QC Key: DOD4 Lot#: STD42746 Cal ID: HP15-27-SEP-10

Analytes	Expected	Found	% Rec	LCS Limits	Q
Toxaphene	66.7	60.8	91.2	25 - 138	

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	75.3	70 - 125	PASS
Decachlorobiphenyl	94.6	55 - 130	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1872045
Report generated: 12/21/2010 09:04

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L10120298 Analyst: HAV Prep Method: 3550B
Instrument ID: HP15 Matrix: Soil Method: 8081A
Workgroup (AAB#): WG351387 Units: ug/kg
QC Key: DOD4 Lot #: STD42746

Sample ID: WG351206-02 LCS File ID: 15G24388.F Run Date: 12/14/2010 13:29
Sample ID: WG351206-03 LCS2 File ID: 15G24396.F Run Date: 12/14/2010 17:15

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
4,4'-DDD	16.7	16.5	99.2	16.7	17.1	102	3.21	30 - 135	30	
4,4'-DDE	16.7	16.9	102	16.7	17.8	107	5.20	70 - 125	30	
4,4'-DDT	16.7	15.7	93.9	16.7	16.4	98.1	4.35	45 - 140	30	
Aldrin	16.7	13.7	82.1	16.7	14.3	85.9	4.57	45 - 140	30	
alpha Chlordane	16.7	16.0	95.9	16.7	17.0	102	6.17	65 - 120	30	
alpha-BHC	16.7	15.6	93.7	16.7	16.5	99.1	5.60	60 - 125	30	
beta-BHC	16.7	15.3	91.9	16.7	16.1	96.8	5.23	60 - 125	30	
delta-BHC	16.7	16.8	101	16.7	17.8	107	5.64	55 - 130	30	
Dieldrin	16.7	16.0	96.1	16.7	17.8	107	10.5	65 - 125	30	
Endosulfan I	16.7	15.1	90.6	16.7	16.3	97.9	7.72	15 - 135	30	
Endosulfan II	16.7	13.7	82.1	16.7	14.6	87.4	6.18	35 - 140	30	
Endosulfan sulfate	16.7	14.5	86.9	16.7	15.1	90.9	4.52	60 - 135	30	
Endrin	16.7	16.3	97.8	16.7	17.3	104	5.76	60 - 135	30	
Endrin aldehyde	16.7	12.2	73.1	16.7	11.9	71.4	2.38	35 - 145	30	
Endrin ketone	16.7	15.4	92.1	16.7	16.2	97.1	5.24	65 - 135	30	
gamma Chlordane	16.7	15.5	92.7	16.7	16.3	97.6	5.13	65 - 125	30	
gamma-BHC (Lindane)	16.7	15.8	94.9	16.7	16.8	101	5.77	60 - 125	30	
Heptachlor	16.7	15.1	90.4	16.7	15.9	95.7	5.68	50 - 140	30	
Heptachlor epoxide	16.7	13.9	83.3	16.7	14.6	87.3	4.66	65 - 130	30	
Methoxychlor	16.7	14.7	88.1	16.7	15.5	93.0	5.43	55 - 145	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
Decachlorobiphenyl	87.5	91.9	55 - 130	PASS
2,4,5,6-Tetrachloro-m-xylene	70.1	77.1	70 - 125	PASS

* EXCEEDS %REC LIMIT

EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1872046
Report generated: 12/21/2010 09:04

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L10120298 Analyst: HAV Prep Method: 3550B
Instrument ID: HP15 Matrix: Soil Method: 8081A
Workgroup (AAB#): WG351387 Units: ug/kg
QC Key: DOD4 Lot #: STD42746

Sample ID: WG351206-02 LCS File ID: 15G24388.R Run Date: 12/14/2010 13:57
Sample ID: WG351206-03 LCS2 File ID: 15G24396.R Run Date: 12/14/2010 17:44

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
4,4'-DDD	16.7	15.8	94.9	16.7	16.2	97.4	2.62	30 - 135	30	
4,4'-DDE	16.7	16.1	96.5	16.7	16.6	99.5	3.04	70 - 125	30	
4,4'-DDT	16.7	16.1	96.7	16.7	16.5	99.0	2.31	45 - 140	30	
Aldrin	16.7	14.4	86.1	16.7	14.9	89.4	3.67	45 - 140	30	
alpha Chlordane	16.7	15.4	92.7	16.7	16.0	95.9	3.46	65 - 120	30	
alpha-BHC	16.7	14.6	87.5	16.7	15.1	90.7	3.57	60 - 125	30	
beta-BHC	16.7	12.6	75.6	16.7	13.2	79.1	4.55	60 - 125	30	
delta-BHC	16.7	15.1	90.8	16.7	15.1	90.5	0.287	55 - 130	30	
Dieldrin	16.7	15.5	92.8	16.7	15.8	94.8	2.13	65 - 125	30	
Endosulfan I	16.7	15.2	91.0	16.7	15.6	93.9	3.14	15 - 135	30	
Endosulfan II	16.7	14.2	85.4	16.7	14.6	87.4	2.25	35 - 140	30	
Endosulfan sulfate	16.7	15.6	93.4	16.7	15.9	95.3	2.06	60 - 135	30	
Endrin	16.7	15.8	94.7	16.7	16.7	100	5.42	60 - 135	30	
Endrin aldehyde	16.7	11.5	68.8	16.7	10.9	65.4	5.16	35 - 145	30	
Endrin ketone	16.7	16.0	95.8	16.7	16.3	97.9	2.11	65 - 135	30	
gamma Chlordane	16.7	15.1	90.7	16.7	15.6	93.5	3.04	65 - 125	30	
gamma-BHC (Lindane)	16.7	13.8	82.5	16.7	14.2	85.1	3.08	60 - 125	30	
Heptachlor	16.7	14.2	85.3	16.7	14.3	86.1	0.863	50 - 140	30	
Heptachlor epoxide	16.7	14.1	84.4	16.7	14.0	83.8	0.785	65 - 130	30	
Methoxychlor	16.7	14.4	86.4	16.7	15.0	90.2	4.30	55 - 145	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
Decachlorobiphenyl	81.0	85.2	55 - 130	PASS
2,4,5,6-Tetrachloro-m-xylene	66.2	71.6	70 - 125	FAIL

* EXCEEDS %REC LIMIT

EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1872046
Report generated: 12/21/2010 09:04

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L10120298 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 18:55

ICAL Workgroup: WG343903 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
Toxaphene-1		2272000	3.77		
Toxaphene-2		1753000	1.92		
Toxaphene-3		2936000	2.57		
Toxaphene-4		1328000	2.31		
Toxaphene-5		1360000	2.84		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1872048
Report generated 12/21/2010 15:20

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L10120298 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 18:55

ICAL Workgroup: WG343903 **Column ID:** R

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
Toxaphene-1		954800	6.43		
Toxaphene-2		3192000	4.74		
Toxaphene-3		962300	4.44		
Toxaphene-4		2180000	6.44		
Toxaphene-5		890200	4.71		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1872048
Report generated 12/21/2010 15:20

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L10120298 **Instrument ID:** HP15
Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 22:14
ICAL Workgroup: WG343902 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
4,4'-DDD		103800000	4.77		
4,4'-DDE		127700000	4.44		
4,4'-DDT		118200000	6.26		
Aldrin		155300000	4.90		
Dieldrin		124100000	5.61		
Endosulfan I		124400000	6.68		
Endosulfan II		118800000	11.7		
Endosulfan Sulfate		95610000	10.7		
Endrin		121400000	4.18		
Endrin Aldehyde		91150000	8.47		
Endrin Ketone		109000000	8.58		
Heptachlor		151500000	5.22		
Heptachlor Epoxide		142000000	8.05		
Methoxychlor		56440000	8.48		
alpha-BHC		166900000	9.41		
alpha-Chlordane		135900000	1.96		
beta-BHC		69840000	2.41		
delta-BHC		153000000	9.53		
gamma-BHC		155900000	6.96		
gamma-Chlordane		148200000	4.75		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1872048
Report generated 12/21/2010 15:20

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L10120298 **Instrument ID:** HP15
Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 22:14
ICAL Workgroup: WG343902 **Column ID:** R

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
4,4'-DDD		86670000	2.57		
4,4'-DDE		104700000	2.77		
4,4'-DDT		89990000	2.28		
Aldrin		122700000	4.95		
Dieldrin		109100000	5.81		
Endosulfan I		93140000	10.9		
Endosulfan II		92490000	9.09		
Endosulfan Sulfate		72080000	4.56		
Endrin		92250000	7.11		
Endrin Aldehyde		71230000	15.0		
Endrin Ketone		80670000	6.17		
Heptachlor		136400000	8.52		
Heptachlor Epoxide		105300000	8.49		
Methoxychlor		44560000	15.0		
alpha-BHC		138600000	4.07		
alpha-Chlordane		109900000	5.72		
beta-BHC		64400000	6.86		
delta-BHC		139800000	3.08		
gamma-BHC		141200000	2.27		
gamma-Chlordane		113700000	3.29		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
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Report generated 12/21/2010 15:20

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10120298
Analytical Method: 8081A
Instrument ID: HP15
Initial Calibration Date: 27-SEP-10 18:55
Column ID: F

Analyte	WG343903-01			WG343903-02			WG343903-03		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Toxaphene-1	2000	4675346690	2338000	1000	2330912800	2331000	500	1166330990	2333000
Toxaphene-2	2000	3427336800	1714000	1000	1786543570	1787000	500	885821455	1772000
Toxaphene-3	2000	5834618260	2917000	1000	2863787080	2864000	500	1509570590	3019000
Toxaphene-4	2000	2687591140	1344000	1000	1346648580	1347000	500	678166462	1356000
Toxaphene-5	2000	2769070200	1385000	1000	1377604310	1378000	500	697291872	1395000

INT_CAL - Modified 03/06/2008
PDF File ID: 1872048
Report generated 12/21/2010 15:20

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10120298 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 18:55

Column ID: F

Analyte	WG343903-04			WG343903-05		
	CONC	RESP	RF	CONC	RESP	RF
Toxaphene-1	200	432012831	2160000	100	219908941	2199000
Toxaphene-2	200	354420823	1772000	100	171891762	1719000
Toxaphene-3	200	573393547	2867000	100	301060427	3011000
Toxaphene-4	200	256414870	1282000	100	131155092	1312000
Toxaphene-5	200	260237757	1301000	100	134006051	1340000

INT_CAL - Modified 03/06/2008
PDF File ID: 1872048
Report generated 12/21/2010 15:20

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10120298
Analytical Method: 8081A
Instrument ID: HP15
Initial Calibration Date: 27-SEP-10 18:55
Column ID: R

Analyte	WG343903-01			WG343903-02			WG343903-03		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Toxaphene-1	2000	1731556870	865800	1000	933788203	933800	500	481377201	962800
Toxaphene-2	2000	5887290170	2944000	1000	3188830560	3189000	500	1628999710	3258000
Toxaphene-3	2000	1779888450	889900	1000	969004455	969000	500	497749168	995500
Toxaphene-4	2000	4091546820	2046000	1000	2027742820	2028000	500	1150089310	2300000
Toxaphene-5	2000	1658069640	829000	1000	880687960	880700	500	449310708	898600

INT_CAL - Modified 03/06/2008
PDF File ID: 1872048
Report generated 12/21/2010 15:20

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10120298 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 18:55

Column ID: R

Analyte	WG343903-04			WG343903-05		
	CONC	RESP	RF	CONC	RESP	RF
Toxaphene-1	200	195851663	979300	100	103245688	1032000
Toxaphene-2	200	643889914	3219000	100	334886651	3349000
Toxaphene-3	200	192954112	964800	100	99244709.0	992400
Toxaphene-4	200	438853841	2194000	100	233181806	2332000
Toxaphene-5	200	179413948	897100	100	94559756.0	945600

INT_CAL - Modified 03/06/2008
PDF File ID: 1872048
Report generated 12/21/2010 15:20

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10120298 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 22:14

Column ID: F

Analyte	WG343902-01			WG343902-02			WG343902-03		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
4,4'-DDD	200	21194229300	106000000	100	10716113000	107200000	20.0	2169099070	108500000
4,4'-DDE	200	25881063700	129400000	100	13215371500	132200000	20.0	2666877990	133300000
4,4'-DDT	200	22560811300	112800000	100	11516923900	115200000	20.0	2349242570	117500000
Aldrin	200	29991451600	150000000	100	15543074500	155400000	20.0	3238363240	161900000
Dieldrin	200	22624057700	113100000	100	12613312900	126100000	20.0	2693818770	134700000
Endosulfan I	200	22145993000	110700000	100	11749255600	117500000	20.0	2578305980	128900000
Endosulfan II	200	20609691500	103000000	100	10742082000	107400000	20.0	2345930200	117300000
Endosulfan Sulfate	200	17294032500	86470000	100	8739187090	87390000	20.0	1846351990	92320000
Endrin	200	22638957100	113200000	100	11852387700	118500000	20.0	2536248670	126800000
Endrin Aldehyde	200	15978969900	79890000	100	8333464510	83330000	20.0	1852631110	92630000
Endrin Ketone	200	19622203400	98110000	100	10067206300	100700000	20.0	2165265130	108300000
Heptachlor	200	27604826100	138000000	100	14584543200	145800000	20.0	3140753570	157000000
Heptachlor Epoxide	200	24925364700	124600000	100	13184460000	131800000	20.0	2905867280	145300000
Methoxychlor	200	9867586560	49340000	100	5145335120	51450000	20.0	1167801210	58390000
alpha-BHC	200	36594436600	183000000	100	18039039200	180400000	20.0	3486980620	174300000
alpha-Chlordane	200	26284355200	131400000	100	13449739800	134500000	20.0	2780388460	139000000
beta-BHC	200	13625441400	68130000	100	6743339770	67430000	20.0	1403329440	70170000
delta-BHC	200	33542082300	167700000	100	16650915300	166500000	20.0	3187199340	159400000
gamma-BHC	200	33131432200	165700000	100	16381372800	163800000	20.0	3232286080	161600000
gamma-Chlordane	200	28416177900	142100000	100	14316361300	143200000	20.0	2937271750	146900000

INT_CAL - Modified 03/06/2008
PDF File ID: 1872048
Report generated 12/21/2010 15:20

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10120298 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 22:14

Column ID: F

Analyte	WG343902-04			WG343902-05			WG343902-06		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
4,4'-DDD	10.0	1059153690	105900000	4.00	399146773	99790000	1.00	95781392.0	95780000
4,4'-DDE	10.0	1298308620	129800000	4.00	489666784	122400000	1.00	119119984	119100000
4,4'-DDT	10.0	1188340490	118800000	4.00	450838675	112700000	1.00	132489120	132500000
Aldrin	10.0	1663617080	166400000	4.00	606877502	151700000	1.00	146271662	146300000
Dieldrin	10.0	1217436240	121700000	4.00	498771270	124700000	1.00	124513513	124500000
Endosulfan I	10.0	1296010290	129600000	4.00	511937568	128000000	1.00	131452673	131500000
Endosulfan II	10.0	1210266810	121000000	4.00	485204663	121300000	1.00	142729135	142700000
Endosulfan Sulfate	10.0	951769872	95180000	4.00	391882720	97970000	1.00	114341632	114300000
Endrin	10.0	1262301300	126200000	4.00	487898552	122000000	1.00	121540813	121500000
Endrin Aldehyde	10.0	954105342	95410000	4.00	393678703	98420000	1.00	97215007.0	97220000
Endrin Ketone	10.0	1096922190	109700000	4.00	450781763	112700000	1.00	124321632	124300000
Heptachlor	10.0	1575742910	157600000	4.00	617635845	154400000	1.00	156292702	156300000
Heptachlor Epoxide	10.0	1480739550	148100000	4.00	585733045	146400000	1.00	155432282	155400000
Methoxychlor	10.0	590681161	59070000	4.00	239335070	59830000	1.00	60580494.0	60580000
alpha-BHC	10.0	1672185180	167200000	4.00	611426510	152900000	1.00	143650637	143700000
alpha-Chlordane	10.0	1364655710	136500000	4.00	544785800	136200000	1.00	137752674	137800000
beta-BHC	10.0	710572860	71060000	4.00	282463743	70620000	1.00	71641717.0	71640000
delta-BHC	10.0	1526652160	152700000	4.00	562232779	140600000	1.00	131354429	131400000
gamma-BHC	10.0	1594698720	159500000	4.00	583031928	145800000	1.00	139089696	139100000
gamma-Chlordane	10.0	1478303600	147800000	4.00	590879543	147700000	1.00	161741975	161700000

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10120298 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 22:14

Column ID: R

Analyte	WG343902-01			WG343902-02			WG343902-03		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
4,4'-DDD	200	16614002400	83070000	100	8525213550	85250000	20.0	1778003840	88900000
4,4'-DDE	200	19941047200	99710000	100	10327524300	103300000	20.0	2149460870	107500000
4,4'-DDT	200	17325402300	86630000	100	8864492900	88640000	20.0	1839381880	91970000
Aldrin	200	22416268700	112100000	100	11866070000	118700000	20.0	2532327880	126600000
Dieldrin	200	19765486500	98830000	100	10386995800	103900000	20.0	2240577580	112000000
Endosulfan I	200	15964385200	79820000	100	8119154930	81190000	20.0	1924782410	96240000
Endosulfan II	200	16141070300	80710000	100	8460925580	84610000	20.0	1867174690	93360000
Endosulfan Sulfate	200	13469401900	67350000	100	6905619140	69060000	20.0	1462606850	73130000
Endrin	200	16634162600	83170000	100	8456040400	84560000	20.0	1924526170	96230000
Endrin Aldehyde	200	11769174700	58850000	100	5990453460	59900000	20.0	1413967820	70700000
Endrin Ketone	200	14657066800	73290000	100	7608135530	76080000	20.0	1641625280	82080000
Heptachlor	200	23694108200	118500000	100	12630180800	126300000	20.0	2793625170	139700000
Heptachlor Epoxide	200	18364071300	91820000	100	9636513330	96370000	20.0	2179900540	109000000
Methoxychlor	200	7439048780	37200000	100	3827673210	38280000	20.0	862722214	43140000
alpha-BHC	200	28042108700	140200000	100	14273426100	142700000	20.0	2879699130	144000000
alpha-Chlordane	200	20399638100	102000000	100	10447867700	104500000	20.0	2188646480	109400000
beta-BHC	200	11793440000	58970000	100	6001004550	60010000	20.0	1277569850	63880000
delta-BHC	200	27983530100	139900000	100	14214413200	142100000	20.0	2897163540	144900000
gamma-BHC	200	27404979600	137000000	100	14076586400	140800000	20.0	2902924990	145100000
gamma-Chlordane	200	21552683900	107800000	100	11044032200	110400000	20.0	2308330840	115400000

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10120298 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 27-SEP-10 22:14

Column ID: R

Analyte	WG343902-04			WG343902-05			WG343902-06		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
4,4'-DDD	10.0	881750530	88180000	4.00	345522769	86380000	1.00	88232424.0	88230000
4,4'-DDE	10.0	1069666210	107000000	4.00	418166003	104500000	1.00	106165867	106200000
4,4'-DDT	10.0	915000878	91500000	4.00	359746951	89940000	1.00	91287819.0	91290000
Aldrin	10.0	1266446170	126600000	4.00	499458545	124900000	1.00	127145996	127100000
Dieldrin	10.0	1126758740	112700000	4.00	447662049	111900000	1.00	115321072	115300000
Endosulfan I	10.0	963495591	96350000	4.00	408584368	102100000	1.00	103079922	103100000
Endosulfan II	10.0	955277608	95530000	4.00	389364402	97340000	1.00	103402630	103400000
Endosulfan Sulfate	10.0	731373807	73140000	4.00	293795649	73450000	1.00	76367184.0	76370000
Endrin	10.0	951824798	95180000	4.00	390336176	97580000	1.00	96794745.0	96790000
Endrin Aldehyde	10.0	725798991	72580000	4.00	316358589	79090000	1.00	86240097.0	86240000
Endrin Ketone	10.0	826336673	82630000	4.00	333075528	83270000	1.00	86651814.0	86650000
Heptachlor	10.0	1416590820	141700000	4.00	570574062	142600000	1.00	149634508	149600000
Heptachlor Epoxide	10.0	1099812630	110000000	4.00	452460865	113100000	1.00	111767171	111800000
Methoxychlor	10.0	452016921	45200000	4.00	192974403	48240000	1.00	55282548.0	55280000
alpha-BHC	10.0	1406517680	140700000	4.00	539834664	135000000	1.00	128975275	129000000
alpha-Chlordane	10.0	1109613770	111000000	4.00	450817694	112700000	1.00	119716271	119700000
beta-BHC	10.0	654470357	65450000	4.00	270406435	67600000	1.00	70498702.0	70500000
delta-BHC	10.0	1420602410	142100000	4.00	546178423	136500000	1.00	133039140	133000000
gamma-BHC	10.0	1449180660	144900000	4.00	558608283	139700000	1.00	139816630	139800000
gamma-Chlordane	10.0	1159004710	115900000	4.00	462812786	115700000	1.00	117189239	117200000

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L10120298 Run Date: 09/27/2010 Sample ID: WG343903-06
Instrument ID: HP15 Run Time: 18:55 Method: 8081A
File ID: 15G23701.F Analyst: ECL QC Key: DOD4
ICal Workgroup: WG343903 Cal ID: HP15 - 27-SEP-10

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Toxaphene		500	450	ug/L	1720000	10.0	20	

* Exceeds %D Limit

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1872049
Report generated 12/21/2010 09:00

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L10120298 Run Date: 09/27/2010 Sample ID: WG343903-06
Instrument ID: HP15 Run Time: 19:24 Method: 8081A
File ID: 15G23701.R Analyst: ECL QC Key: DOD4
ICal Workgroup: WG343903 Cal ID: HP15 - 27-SEP-10

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Toxaphene		500	446	ug/L	1510000	10.7	20	

* Exceeds %D Limit

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1872049
Report generated 12/21/2010 09:00

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L10120298 Run Date: 09/27/2010 Sample ID: WG343902-07
Instrument ID: HP15 Run Time: 22:14 Method: 8081A
File ID: 15G23708.F Analyst: ECL QC Key: DOD4
ICal Workgroup: WG343902 Cal ID: HP15 - 27-SEP-10

Analyte		Expected	Found	Units	RF	%D	UCL	Q
4,4'-DDD		20.0	19.8	ug/L	103000000	0.900	20	
4,4'-DDE		20.0	20.4	ug/L	130000000	1.90	20	
4,4'-DDT		20.0	19.1	ug/L	113000000	4.60	20	
Aldrin		20.0	19.7	ug/L	153000000	1.60	20	
alpha-Chlordane		20.0	19.6	ug/L	133000000	2.20	20	
alpha-BHC		20.0	19.9	ug/L	166000000	0.700	20	
beta-BHC		20.0	19.5	ug/L	68100000	2.40	20	
delta-BHC		20.0	19.7	ug/L	151000000	1.50	20	
Dieldrin		20.0	19.9	ug/L	124000000	0.300	20	
Endosulfan I		20.0	19.9	ug/L	124000000	0.300	20	
Endosulfan II		20.0	18.7	ug/L	111000000	6.60	20	
Endosulfan Sulfate		20.0	18.9	ug/L	90200000	5.70	20	
Endrin		20.0	19.8	ug/L	120000000	1.00	20	
Endrin Aldehyde		20.0	19.2	ug/L	87600000	3.90	20	
Endrin Ketone		20.0	19.9	ug/L	108000000	0.500	20	
gamma-Chlordane		20.0	19.0	ug/L	141000000	5.10	20	
gamma-BHC		20.0	19.9	ug/L	155000000	0.700	20	
Heptachlor		20.0	19.9	ug/L	151000000	0.600	20	
Heptachlor Epoxide		20.0	19.3	ug/L	137000000	3.70	20	
Methoxychlor		20.0	19.9	ug/L	56200000	0.400	20	

* Exceeds %D Limit

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L10120298 Run Date: 09/27/2010 Sample ID: WG343902-07
Instrument ID: HP15 Run Time: 22:43 Method: 8081A
File ID: 15G23708.R Analyst: ECL QC Key: DOD4
ICal Workgroup: WG343902 Cal ID: HP15 - 27-SEP-10

Analyte		Expected	Found	Units	RF	%D	UCL	Q
4,4'-DDD		20.0	19.5	ug/L	84500000	2.50	20	
4,4'-DDE		20.0	20.2	ug/L	106000000	0.900	20	
4,4'-DDT		20.0	19.6	ug/L	88300000	1.80	20	
Aldrin		20.0	19.6	ug/L	120000000	2.10	20	
alpha-Chlordane		20.0	19.1	ug/L	105000000	4.50	20	
alpha-BHC		20.0	19.9	ug/L	138000000	0.600	20	
beta-BHC		20.0	19.5	ug/L	62900000	2.40	20	
delta-BHC		20.0	19.8	ug/L	139000000	0.900	20	
Dieldrin		20.0	19.2	ug/L	105000000	3.80	20	
Endosulfan I		20.0	19.8	ug/L	92200000	1.00	20	
Endosulfan II		20.0	19.1	ug/L	88500000	4.30	20	
Endosulfan Sulfate		20.0	19.4	ug/L	70000000	2.90	20	
Endrin		20.0	19.7	ug/L	90900000	1.50	20	
Endrin Aldehyde		20.0	22.0	ug/L	78300000	9.90	20	
Endrin Ketone		20.0	20.2	ug/L	81400000	0.900	20	
gamma-Chlordane		20.0	19.3	ug/L	110000000	3.40	20	
gamma-BHC		20.0	19.7	ug/L	139000000	1.70	20	
Heptachlor		20.0	19.7	ug/L	135000000	1.30	20	
Heptachlor Epoxide		20.0	19.8	ug/L	104000000	0.900	20	
Methoxychlor		20.0	19.1	ug/L	42500000	4.70	20	

* Exceeds %D Limit

ALT - Modified 09/06/2007
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Report generated 12/21/2010 09:00

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10120298 Run Date: 12/14/2010 Sample ID: WG351417-02
Instrument ID: HP15 Run Time: 11:35 Method: 8081A
File ID: 15G24384.F Analyst: HAV QC Key: DOD4
Workgroup (AAB#): WG351387 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		20.0	23.6	ug/L	123000000	18.0	20	
4,4'-DDE		20.0	22.7	ug/L	145000000	13.3	20	
4,4'-DDT		20.0	19.6	ug/L	116000000	2.14	20	
Aldrin		20.0	19.9	ug/L	155000000	0.380	20	
alpha-Chlordane		20.0	22.7	ug/L	154000000	13.4	20	
alpha-BHC		20.0	22.8	ug/L	191000000	14.2	20	
beta-BHC		20.0	21.8	ug/L	76300000	9.24	20	
delta-BHC		20.0	23.6	ug/L	181000000	18.0	20	
Dieldrin		20.0	23.0	ug/L	143000000	14.9	20	
Endosulfan I		20.0	22.5	ug/L	140000000	12.7	20	
Endosulfan II		20.0	21.1	ug/L	125000000	5.37	20	
Endosulfan Sulfate		20.0	22.4	ug/L	107000000	12.0	20	
Endrin		20.0	21.1	ug/L	128000000	5.29	20	
Endrin Aldehyde		20.0	20.9	ug/L	95400000	4.62	20	
Endrin Ketone		20.0	23.0	ug/L	125000000	15.0	20	
gamma-Chlordane		20.0	21.9	ug/L	163000000	9.71	20	
gamma-BHC		20.0	22.7	ug/L	177000000	13.4	20	
Heptachlor		20.0	21.8	ug/L	165000000	8.92	20	
Heptachlor Epoxide		20.0	22.5	ug/L	160000000	12.5	20	
Methoxychlor		20.0	19.6	ug/L	55300000	2.08	20	
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1872050
Report generated 12/21/2010 09:00

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10120298 Run Date: 12/14/2010 Sample ID: WG351418-01
Instrument ID: HP15 Run Time: 12:04 Method: 8081A
File ID: 15G24385.F Analyst: HAV QC Key: DOD4
Workgroup (AAB#): WG351387 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		500	502	ug/L	1980000	0.336	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1872050
Report generated 12/21/2010 09:00

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10120298 Run Date: 12/14/2010 Sample ID: WG351417-02
Instrument ID: HP15 Run Time: 12:04 Method: 8081A
File ID: 15G24384.R Analyst: HAV QC Key: DOD4
Workgroup (AAB#): WG351387 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		20.0	22.5	ug/L	97700000	12.7	20	
4,4'-DDE		20.0	21.6	ug/L	113000000	7.86	20	
4,4'-DDT		20.0	19.9	ug/L	89600000	0.425	20	
Aldrin		20.0	21.4	ug/L	131000000	6.88	20	
alpha-Chlordane		20.0	21.5	ug/L	118000000	7.44	20	
alpha-BHC		20.0	21.6	ug/L	150000000	8.15	20	
beta-BHC		20.0	18.8	ug/L	60500000	6.00	20	
delta-BHC		20.0	22.0	ug/L	154000000	9.89	20	
Dieldrin		20.0	21.9	ug/L	120000000	9.65	20	
Endosulfan I		20.0	22.2	ug/L	103000000	11.1	20	
Endosulfan II		20.0	21.7	ug/L	100000000	8.65	20	
Endosulfan Sulfate		20.0	24.4	ug/L	87900000	22.0	20	*
Endrin		20.0	19.8	ug/L	91600000	0.754	20	
Endrin Aldehyde		20.0	20.4	ug/L	72500000	1.80	20	
Endrin Ketone		20.0	24.2	ug/L	97700000	21.1	20	*
gamma-Chlordane		20.0	21.9	ug/L	124000000	9.44	20	
gamma-BHC		20.0	19.9	ug/L	140000000	0.702	20	
Heptachlor		20.0	20.0	ug/L	136000000	0.0325	20	
Heptachlor Epoxide		20.0	21.9	ug/L	115000000	9.58	20	
Methoxychlor		20.0	18.1	ug/L	40400000	9.33	20	
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1872050
Report generated 12/21/2010 09:00

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10120298 Run Date: 12/14/2010 Sample ID: WG351418-01
Instrument ID: HP15 Run Time: 12:32 Method: 8081A
File ID: 15G24385.R Analyst: HAV QC Key: DOD4
Workgroup (AAB#): WG351387 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		500	543	ug/L	1750000	8.69	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1872050
Report generated 12/21/2010 09:00

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10120298 Run Date: 12/14/2010 Sample ID: WG351417-03
Instrument ID: HP15 Run Time: 18:12 Method: 8081A
File ID: 15G24398.F Analyst: HAV QC Key: DOD4
Workgroup (AAB#): WG351387 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		10.0	11.8	ug/L	122000000	17.9	20	
4,4'-DDE		10.0	11.7	ug/L	149000000	16.7	20	
4,4'-DDT		10.0	10.8	ug/L	128000000	7.83	20	
Aldrin		10.0	10.5	ug/L	163000000	5.09	20	
alpha-Chlordane		10.0	10.9	ug/L	148000000	8.59	20	
alpha-BHC		10.0	11.2	ug/L	187000000	12.0	20	
beta-BHC		10.0	11.4	ug/L	79600000	14.0	20	
delta-BHC		10.0	11.7	ug/L	179000000	16.8	20	
Dieldrin		10.0	9.78	ug/L	121000000	2.18	20	
Endosulfan I		10.0	11.4	ug/L	142000000	14.2	20	
Endosulfan II		10.0	11.2	ug/L	134000000	12.4	20	
Endosulfan Sulfate		10.0	11.6	ug/L	111000000	16.0	20	
Endrin		10.0	11.1	ug/L	134000000	10.7	20	
Endrin Aldehyde		10.0	11.7	ug/L	107000000	17.0	20	
Endrin Ketone		10.0	11.8	ug/L	129000000	18.3	20	
gamma-Chlordane		10.0	11.2	ug/L	166000000	12.3	20	
gamma-BHC		10.0	11.5	ug/L	180000000	15.5	20	
Heptachlor		10.0	11.3	ug/L	171000000	12.7	20	
Heptachlor Epoxide		10.0	11.6	ug/L	164000000	15.8	20	
Methoxychlor		10.0	10.3	ug/L	58300000	3.36	20	
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1872050
Report generated 12/21/2010 09:00

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10120298 Run Date: 12/14/2010 Sample ID: WG351418-02
Instrument ID: HP15 Run Time: 18:40 Method: 8081A
File ID: 15G24399.F Analyst: HAV QC Key: DOD4
Workgroup (AAB#): WG351387 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		200	205	ug/L	1990000	2.65	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1872050
Report generated 12/21/2010 09:00

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10120298 Run Date: 12/14/2010 Sample ID: WG351417-03
Instrument ID: HP15 Run Time: 18:40 Method: 8081A
File ID: 15G24398.R Analyst: HAV QC Key: DOD4
Workgroup (AAB#): WG351387 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		10.0	11.6	ug/L	101000000	16.2	20	
4,4'-DDE		10.0	10.7	ug/L	112000000	7.08	20	
4,4'-DDT		10.0	9.77	ug/L	87900000	2.35	20	
Aldrin		10.0	10.7	ug/L	132000000	7.24	20	
alpha-Chlordane		10.0	10.9	ug/L	119000000	8.62	20	
alpha-BHC		10.0	10.3	ug/L	142000000	2.65	20	
beta-BHC		10.0	9.60	ug/L	61800000	4.00	20	
delta-BHC		10.0	10.1	ug/L	141000000	1.23	20	
Dieldrin		10.0	11.0	ug/L	120000000	9.98	20	
Endosulfan I		10.0	9.49	ug/L	88300000	5.15	20	
Endosulfan II		10.0	11.0	ug/L	102000000	10.4	20	
Endosulfan Sulfate		10.0	12.4	ug/L	89000000	23.5	20	*
Endrin		10.0	9.14	ug/L	84300000	8.60	20	
Endrin Aldehyde		10.0	9.51	ug/L	67800000	4.87	20	
Endrin Ketone		10.0	12.2	ug/L	98200000	21.8	20	*
gamma-Chlordane		10.0	11.0	ug/L	125000000	9.50	20	
gamma-BHC		10.0	9.83	ug/L	139000000	1.66	20	
Heptachlor		10.0	9.78	ug/L	133000000	2.17	20	
Heptachlor Epoxide		10.0	9.02	ug/L	95100000	9.77	20	
Methoxychlor		10.0	9.36	ug/L	41700000	6.42	20	
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1872050
Report generated 12/21/2010 09:00

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10120298 Run Date: 12/14/2010 Sample ID: WG351418-02
Instrument ID: HP15 Run Time: 19:09 Method: 8081A
File ID: 15G24399.R Analyst: HAV QC Key: DOD4
Workgroup (AAB#): WG351387 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		200	208	ug/L	1670000	4.13	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1872050
Report generated 12/21/2010 09:00

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10120298 Run Date: 12/15/2010 Sample ID: WG351417-05
Instrument ID: HP15 Run Time: 01:17 Method: 8081A
File ID: 15G24413.F Analyst: HAV QC Key: DOD4
Workgroup (AAB#): WG351387 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		20.0	22.1	ug/L	115000000	10.4	20	
4,4'-DDE		20.0	21.9	ug/L	140000000	9.36	20	
4,4'-DDT		20.0	18.3	ug/L	108000000	8.65	20	
Aldrin		20.0	19.3	ug/L	150000000	3.41	20	
alpha-Chlordane		20.0	21.5	ug/L	146000000	7.35	20	
alpha-BHC		20.0	22.5	ug/L	188000000	12.5	20	
beta-BHC		20.0	21.9	ug/L	76400000	9.35	20	
delta-BHC		20.0	23.4	ug/L	179000000	16.8	20	
Dieldrin		20.0	21.9	ug/L	136000000	9.45	20	
Endosulfan I		20.0	21.4	ug/L	133000000	7.20	20	
Endosulfan II		20.0	19.8	ug/L	118000000	0.978	20	
Endosulfan Sulfate		20.0	20.0	ug/L	95700000	0.0740	20	
Endrin		20.0	20.4	ug/L	124000000	1.84	20	
Endrin Aldehyde		20.0	19.8	ug/L	90400000	0.850	20	
Endrin Ketone		20.0	20.1	ug/L	110000000	0.541	20	
gamma-Chlordane		20.0	21.1	ug/L	156000000	5.52	20	
gamma-BHC		20.0	22.4	ug/L	175000000	12.2	20	
Heptachlor		20.0	21.5	ug/L	163000000	7.34	20	
Heptachlor Epoxide		20.0	21.8	ug/L	154000000	8.79	20	
Methoxychlor		20.0	18.0	ug/L	50800000	10.1	20	
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1872050
Report generated 12/21/2010 09:00

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10120298 Run Date: 12/15/2010 Sample ID: WG351417-05
Instrument ID: HP15 Run Time: 01:45 Method: 8081A
File ID: 15G24413.R Analyst: HAV QC Key: DOD4
Workgroup (AAB#): WG351387 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		20.0	20.6	ug/L	89200000	2.90	20	
4,4'-DDE		20.0	20.0	ug/L	104000000	0.246	20	
4,4'-DDT		20.0	17.7	ug/L	79700000	11.4	20	
Aldrin		20.0	20.7	ug/L	127000000	3.38	20	
alpha-Chlordane		20.0	20.1	ug/L	110000000	0.426	20	
alpha-BHC		20.0	20.9	ug/L	145000000	4.48	20	
beta-BHC		20.0	18.5	ug/L	59500000	7.68	20	
delta-BHC		20.0	20.2	ug/L	141000000	1.04	20	
Dieldrin		20.0	20.3	ug/L	111000000	1.57	20	
Endosulfan I		20.0	19.5	ug/L	90800000	2.46	20	
Endosulfan II		20.0	19.8	ug/L	91600000	0.916	20	
Endosulfan Sulfate		20.0	21.3	ug/L	76700000	6.36	20	
Endrin		20.0	18.1	ug/L	83600000	9.33	20	
Endrin Aldehyde		20.0	17.6	ug/L	62800000	11.9	20	
Endrin Ketone		20.0	20.5	ug/L	82600000	2.44	20	
gamma-Chlordane		20.0	20.5	ug/L	116000000	2.30	20	
gamma-BHC		20.0	19.5	ug/L	138000000	2.38	20	
Heptachlor		20.0	18.9	ug/L	129000000	5.55	20	
Heptachlor Epoxide		20.0	19.7	ug/L	104000000	1.40	20	
Methoxychlor		20.0	15.7	ug/L	35000000	21.5	20	*
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1872050
Report generated 12/21/2010 09:00

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10120298 Run Date: 12/15/2010 Sample ID: WG351418-03
Instrument ID: HP15 Run Time: 01:45 Method: 8081A
File ID: 15G24414.F Analyst: HAV QC Key: DOD4
Workgroup (AAB#): WG351387 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		500	481	ug/L	1870000	3.77	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1872050
Report generated 12/21/2010 09:00

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10120298 Run Date: 12/15/2010 Sample ID: WG351418-03
Instrument ID: HP15 Run Time: 02:14 Method: 8081A
File ID: 15G24414.R Analyst: HAV QC Key: DOD4
Workgroup (AAB#): WG351387 Cal ID: HP15 - 27-SEP-10
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		500	475	ug/L	1530000	5.04	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1872050
Report generated 12/21/2010 09:00

Microbac Laboratories Inc.

ENDRIN/4,4'-DDT BREAKDOWN (BRKDWN)

Login Number: L10120298 Run Date: 12/14/2010 Sample ID: WG351417-01
Instrument ID: HP15 Run Time: 11:07 Method: 8081
File ID: 15G24383.F Analyst: HAV Column ID: FRONT

DDT BREAKDOWN

Analyte	Response
4,4'-DDD	228455224
4,4'-DDE	111555409
4,4'-DDT	5248182030

DDT % BREAKDOWN: 6.08

ENDRIN BREAKDOWN

Analyte	Response
ENDRIN	5883612357
ENDRIN ALDEHYDE	156034827
ENDRIN KETONE	316115683

ENDRIN % BREAKDOWN: 7.43

* Exceeds 15% Criteria

Report Name: BRKDWN
PDF File ID: 1872047
Report generated 12/21/2010 09:00

Microbac Laboratories Inc.

ENDRIN/4,4'-DDT BREAKDOWN (BRKDWN)

Login Number:	L10120298	Run Date:	12/14/2010	Sample ID:	WG351417-01
Instrument ID:	HP15	Run Time:	11:35	Method:	8081
File ID:	15G24383.R	Analyst:	HAV	Column ID:	REAR

DDT BREAKDOWN

Analyte	Response
4,4'-DDD	176819164
4,4'-DDE	91693226
4,4'-DDT	3956978101

DDT % BREAKDOWN: 6.35

ENDRIN BREAKDOWN

Analyte	Response
ENDRIN	4061206108
ENDRIN ALDEHYDE	149268355
ENDRIN KETONE	332152640

ENDRIN % BREAKDOWN: 10.60

* Exceeds 15% Criteria

Report Name: BRKDWN
PDF File ID: 1872047
Report generated 12/21/2010 09:00

Microbac Laboratories Inc.

ENDRIN/4,4'-DDT BREAKDOWN (BRKDWN)

Login Number: L10120298 Run Date: 12/15/2010 Sample ID: WG351417-04
Instrument ID: HP15 Run Time: 00:49 Method: 8081
File ID: 15G24412.F Analyst: HAV Column ID: FRONT

DDT BREAKDOWN

Analyte	Response
4,4'-DDD	186224175
4,4'-DDE	148818429
4,4'-DDT	4721606604

DDT % BREAKDOWN: 6.63

ENDRIN BREAKDOWN

Analyte	Response
ENDRIN	5502698312
ENDRIN ALDEHYDE	0
ENDRIN KETONE	220362936

ENDRIN % BREAKDOWN: 3.85

* Exceeds 15% Criteria

Report Name: BRKDWN
PDF File ID: 1872047
Report generated 12/21/2010 09:00

Microbac Laboratories Inc.

ENDRIN/4,4'-DDT BREAKDOWN (BRKDWN)

Login Number: L10120298 Run Date: 12/15/2010 Sample ID: WG351417-04
Instrument ID: HP15 Run Time: 01:17 Method: 8081
File ID: 15G24412.R Analyst: HAV Column ID: REAR

DDT BREAKDOWN

Analyte	Response
4,4'-DDD	132579836
4,4'-DDE	79745337
4,4'-DDT	3527630420

DDT % BREAKDOWN: 5.68

ENDRIN BREAKDOWN

Analyte	Response
ENDRIN	3752036055
ENDRIN ALDEHYDE	0
ENDRIN KETONE	280012644

ENDRIN % BREAKDOWN: 6.94

* Exceeds 15% Criteria

Report Name: BRKDWN
PDF File ID: 1872047
Report generated 12/21/2010 09:00

2.1.1.3 Sample Data

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24408.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Dec 2010 22:56 (#1); 14 Dec 2010 23:24 (#2)
Operator : HAV
Sample : L10120298-01
Misc : 7,1 SOIL
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 10:41:59 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1) S	2,4,5,6-Tetrachl	9.26	9.17	2664.3E6	1079.6E6	23.426	11.311	#
	Spiked Amount	20.000	Range 29 - 133		Recovery =	117.13%	56.56%	
22) S	Decachlorobiphen	18.61	18.89	2391.9E6	8226.3E6	29.850	136.581	#
	Spiked Amount	20.000	Range 30 - 173		Recovery =	149.25%	682.90%	#
	Target Compounds							
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	gamma-BHC	11.21	0.00	7106.0E6	0	45.580	N.D.	#
4)	beta-BHC	11.43f	0.00	9340.3E6	0	133.737	N.D.	#
5)	Heptachlor	12.18f	12.12	1662.6E6	891.0E6	10.972	6.532	#
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8)	Heptachlor Epoxi	13.86f	0.00	308.6E6	0	2.174	N.D.	#
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.	
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.	
13)	Dieldrin	14.96	0.00	513.7E6	0	4.138	N.D.	#
14)	Endrin	15.37f	15.50f	991.5E6	957.8E6	8.168	10.382	#
15)	4,4'-DDD	15.51f	0.00	340.4E6	0	3.278	N.D.	#
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	15.93f	0.00	478.9E6	0	4.050	N.D.	#
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.	
19)	Endosulfan Sulfa	17.01	16.77	123.0E6	1418.6E6	1.287	19.681	#
20)	Methoxychlor	0.00	17.13f	0	3414.7E6	N.D.	76.639	#
21)	Endrin Ketone	0.00	17.50f	0	860.2E6	N.D.	10.664	#

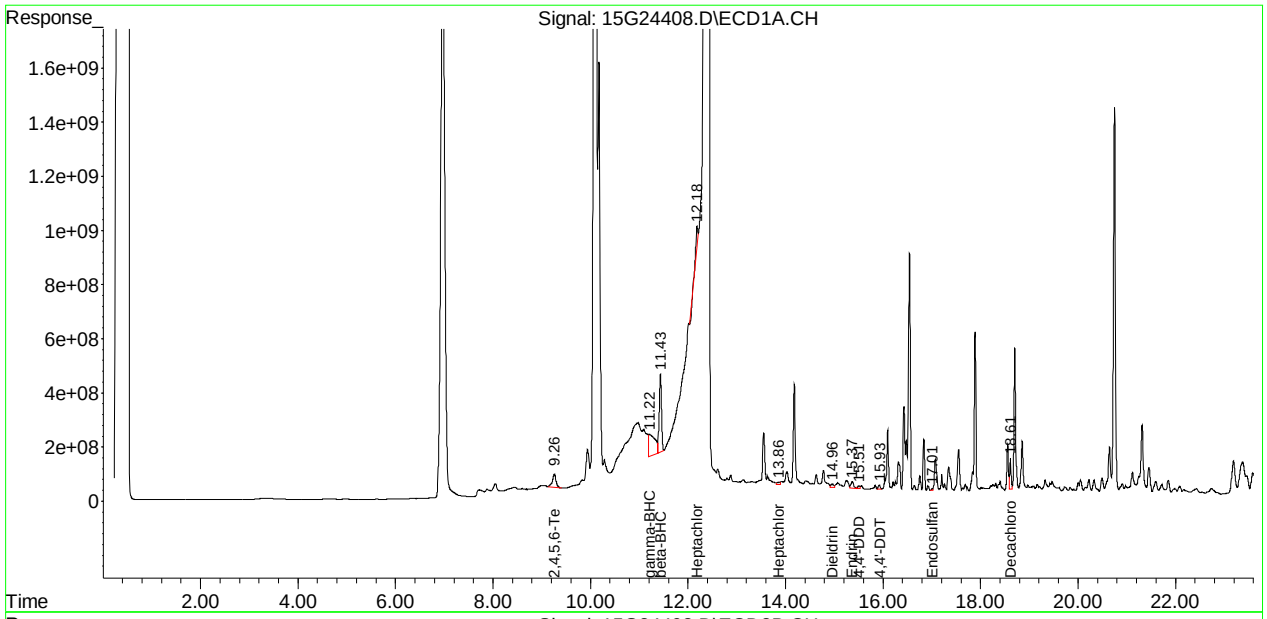
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

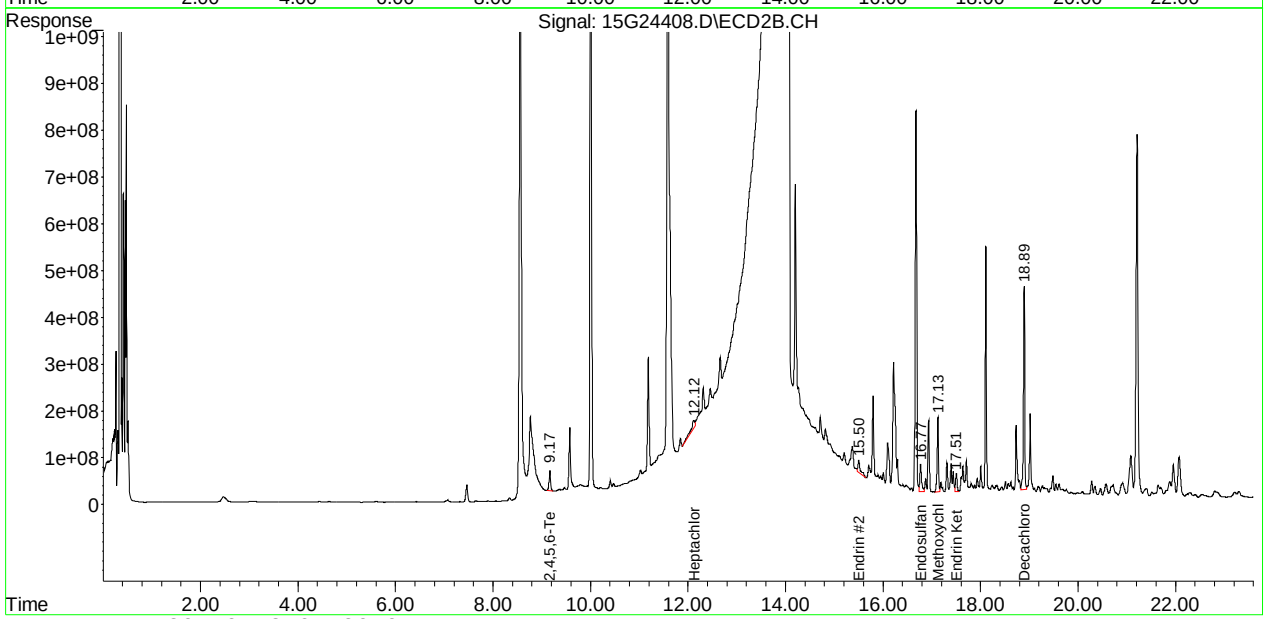
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24408.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Dec 2010 22:56 (#1); 14 Dec 2010 23:24 (#2)
Operator : HAV
Sample : L10120298-01
Misc : 7,1 SOIL
ALS Vial : 25 Sample Multiplier: 1

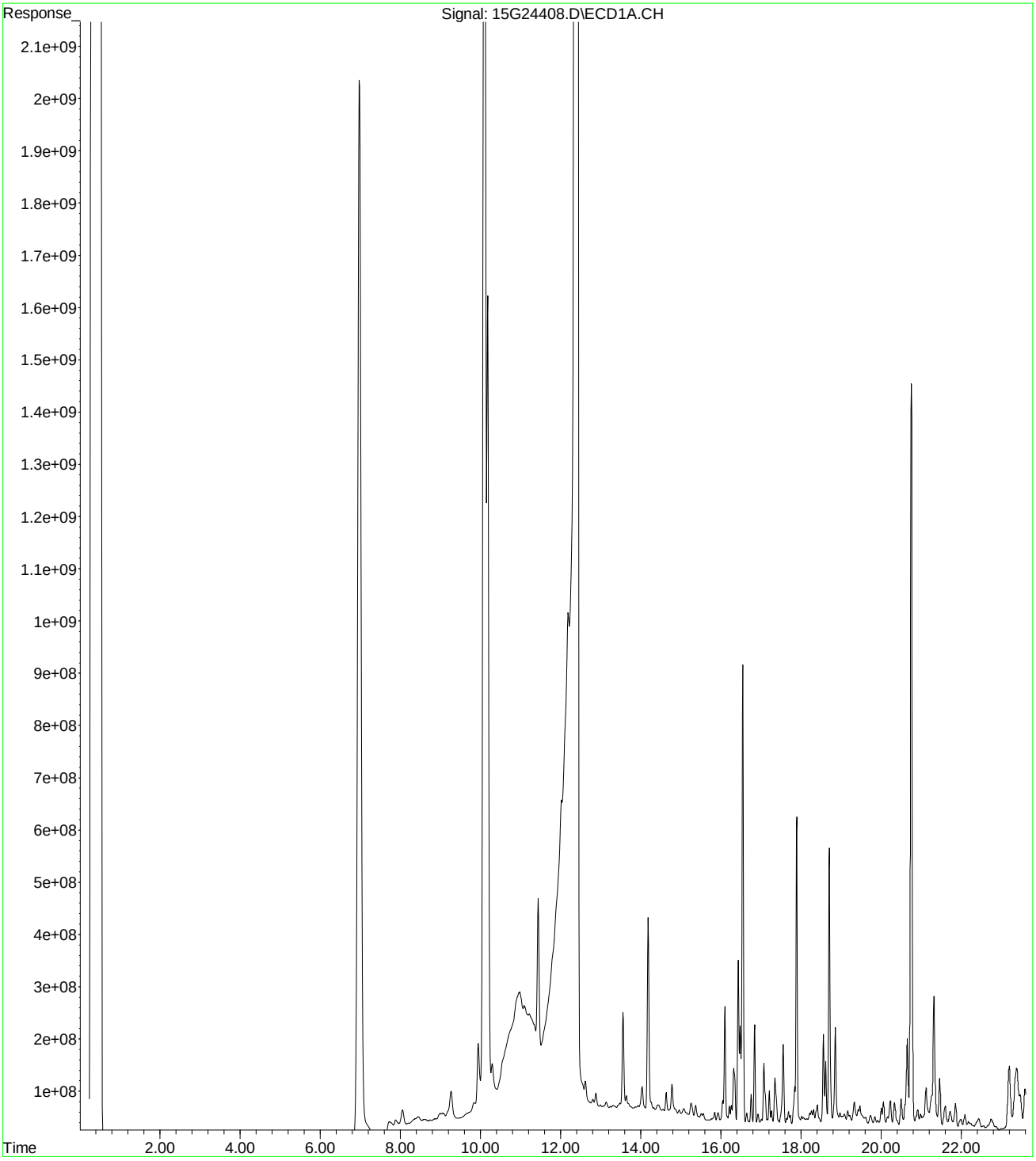
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 10:41:59 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

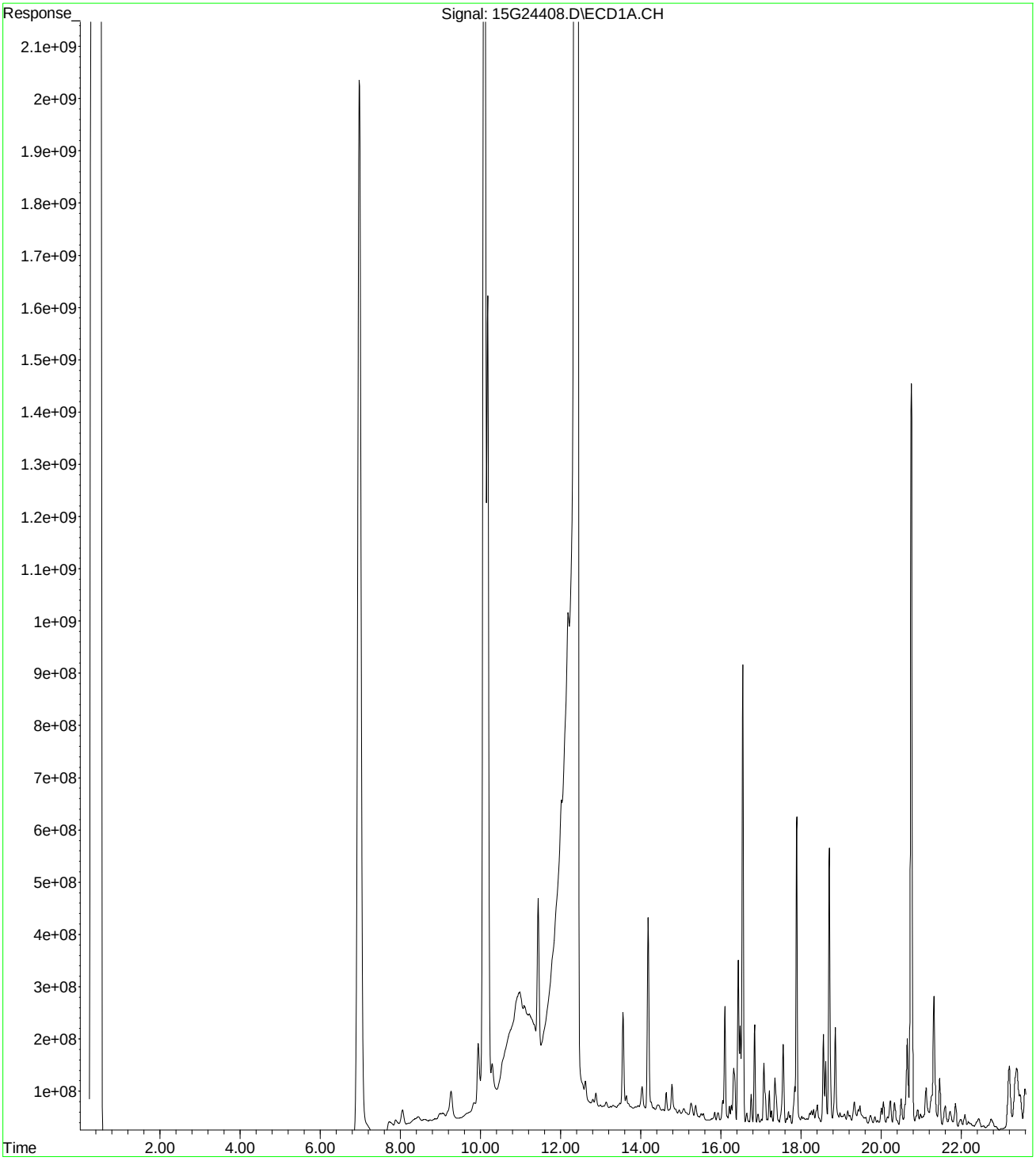




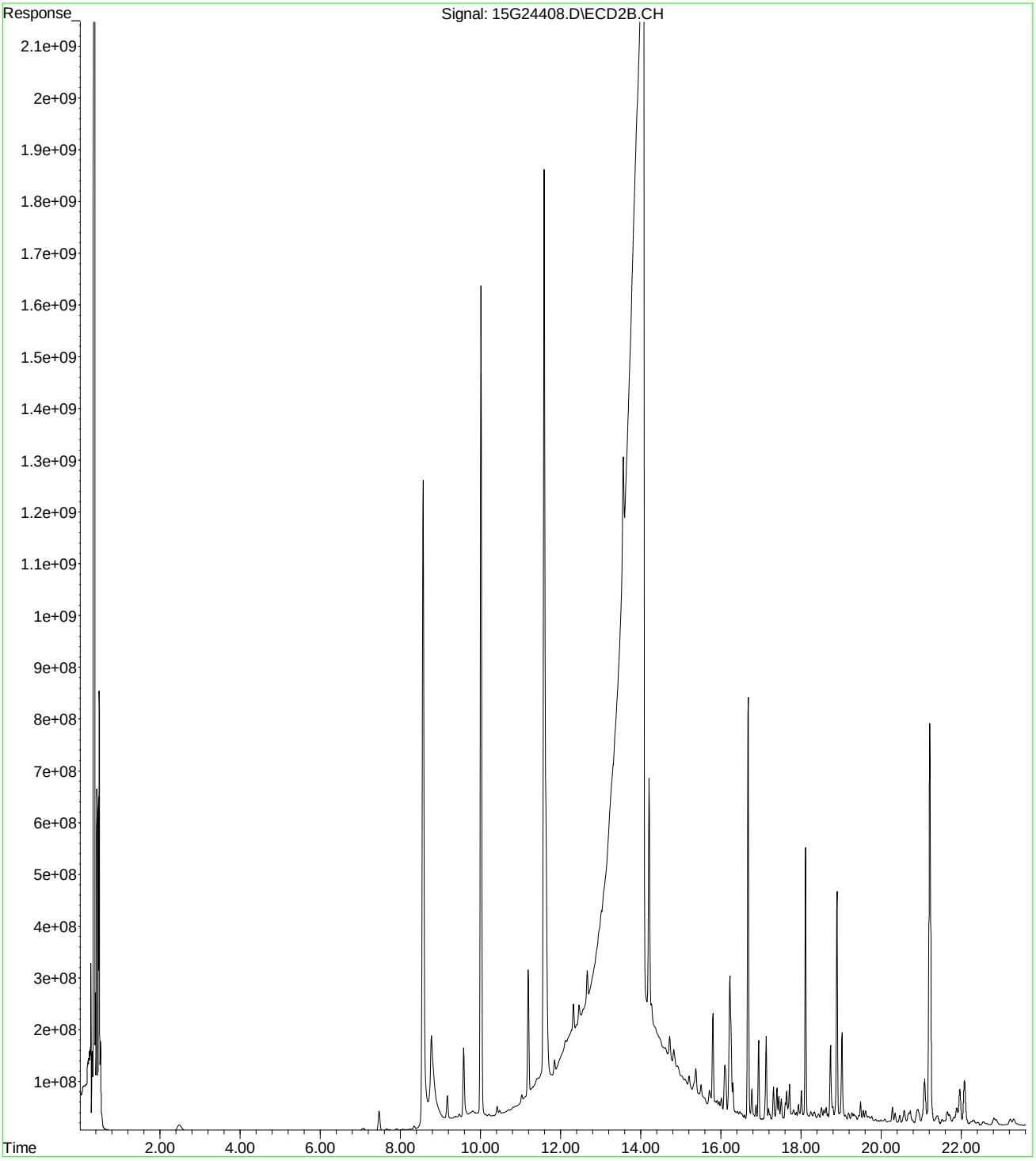
File :C:\MSDChem\1\DATA\121410\15G24408.D
Operator : HAV
Acquired : 14 Dec 2010 22:56 using AcqMethod 8081.M
Instrument : HP15
Sample Name: L10120298-01
Misc Info : 7,1 SOIL
Vial Number: 25



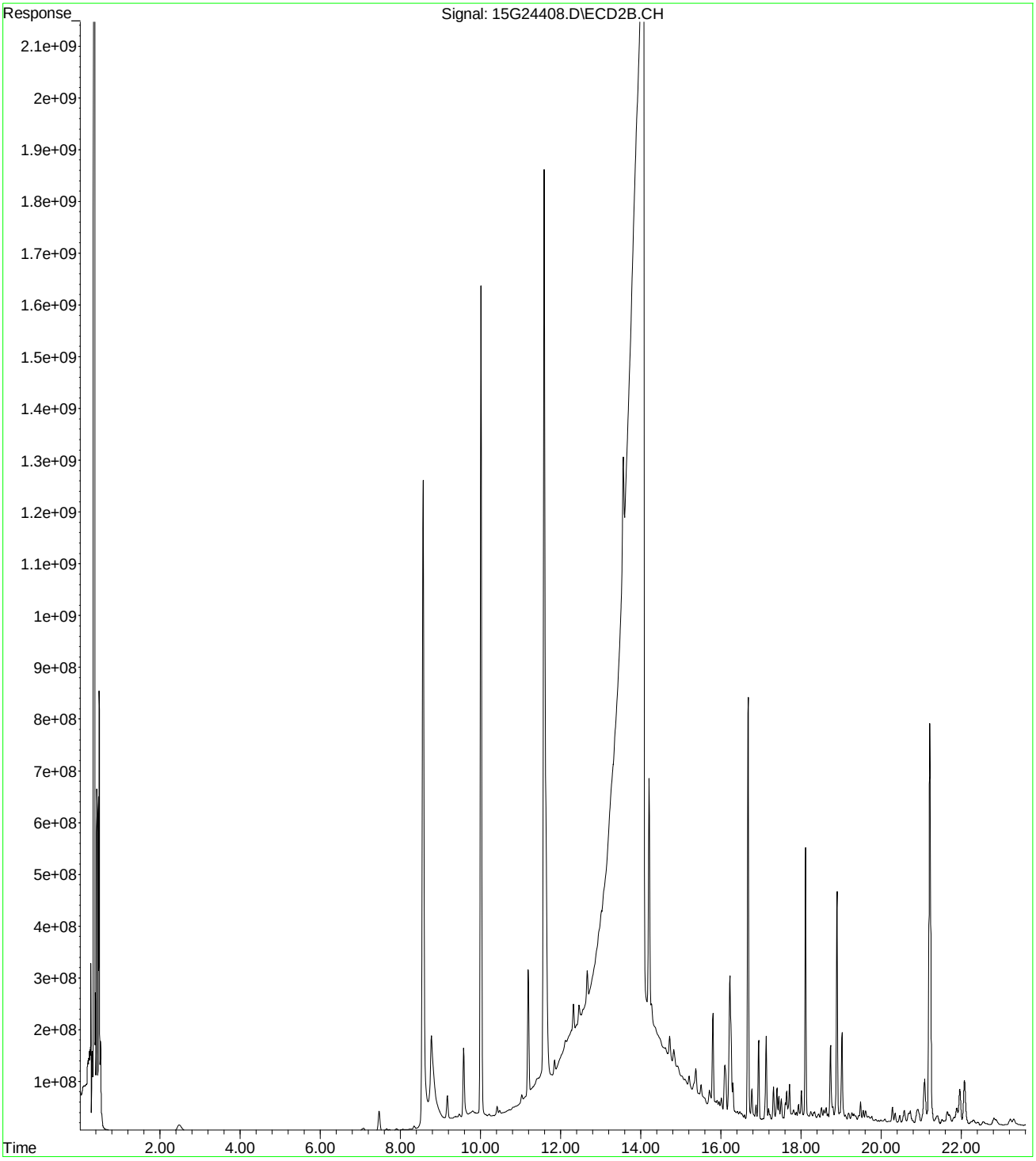
File :C:\MSDChem\1\DATA\121410\15G24408.D
Operator : HAV
Acquired : 14 Dec 2010 22:56 using AcqMethod 8081.M
Instrument : HP15
Sample Name: L10120298-01
Misc Info : 7,1 SOIL
Vial Number: 25



File :C:\MSDChem\1\DATA\121410\15G24408.D
Operator : HAV
Acquired : 14 Dec 2010 22:56 using AcqMethod 8081.M
Instrument : HP15
Sample Name: L10120298-01
Misc Info : 7,1 SOIL
Vial Number: 25



File :C:\MSDChem\1\DATA\121410\15G24408.D
Operator : HAV
Acquired : 14 Dec 2010 22:56 using AcqMethod 8081.M
Instrument : HP15
Sample Name: L10120298-01
Misc Info : 7,1 SOIL
Vial Number: 25

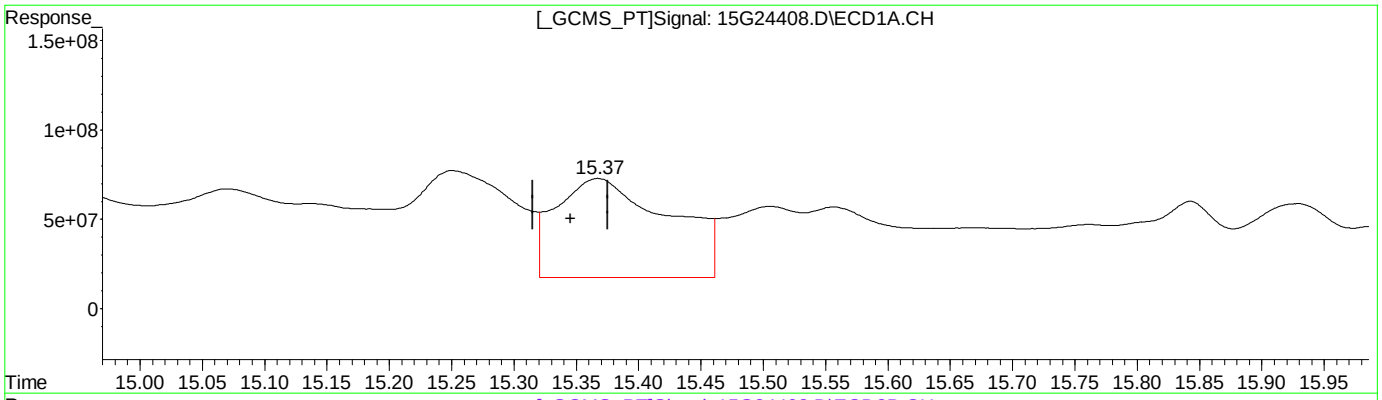


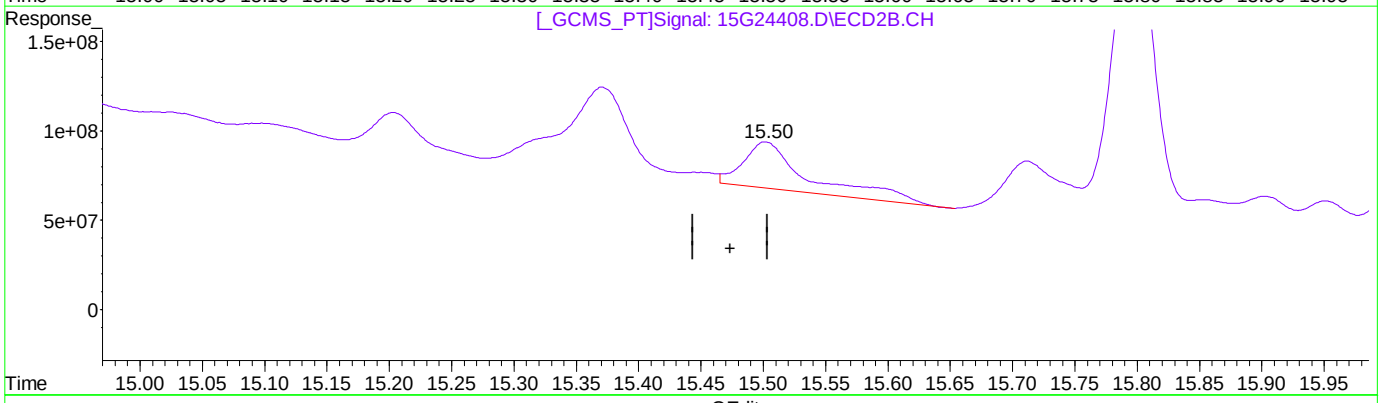
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24408.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 14 Dec 2010 22:56 (#1); 14 Dec 2010 23:24 (#2)
Operator : HAV
Sample   : L10120298-01
Misc   : 7,1 SOIL
ALS Vial : 25   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 15 10:00:57 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(14) Endrin

15.37min 28.817UG/L

response 3497736084

(14) Endrin #2

15.50min 10.382UG/L

response 957755216

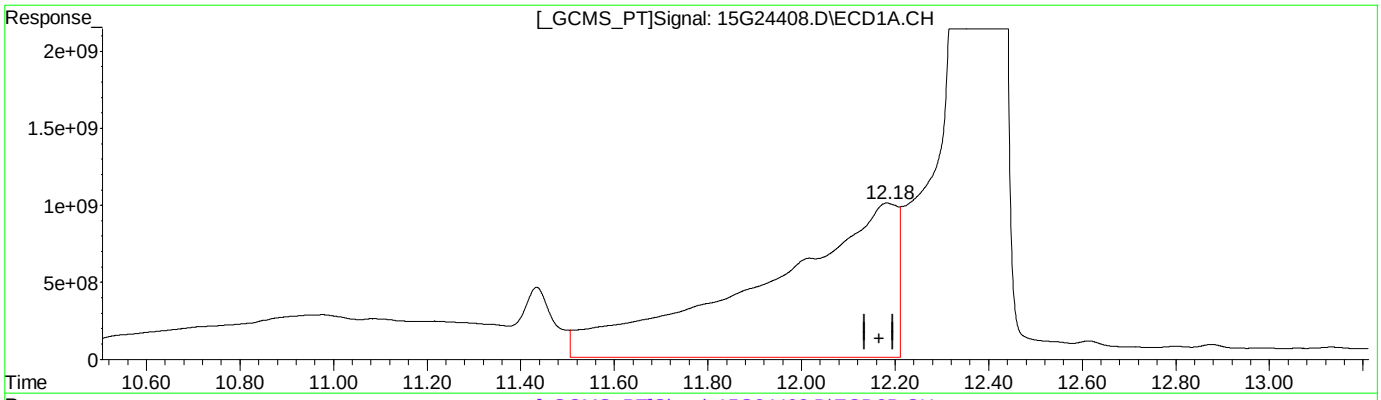
(+) = Expected Retention Time

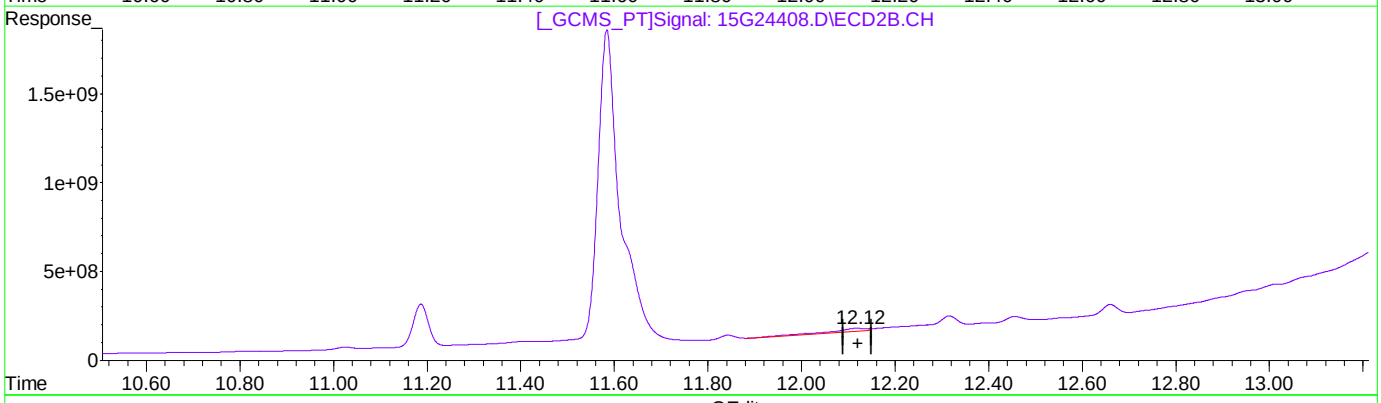
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24408.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 14 Dec 2010 22:56 (#1); 14 Dec 2010 23:24 (#2)
Operator : HAV
Sample   : L10120298-01
Misc   : 7,1 SOIL
ALS Vial : 25   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 15 10:00:57 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(5) Heptachlor

12.18min 1317.117UG/L

response 1.99583e+011

(5) Heptachlor #2

12.12min 6.532UG/L

response 891017764

(+) = Expected Retention Time

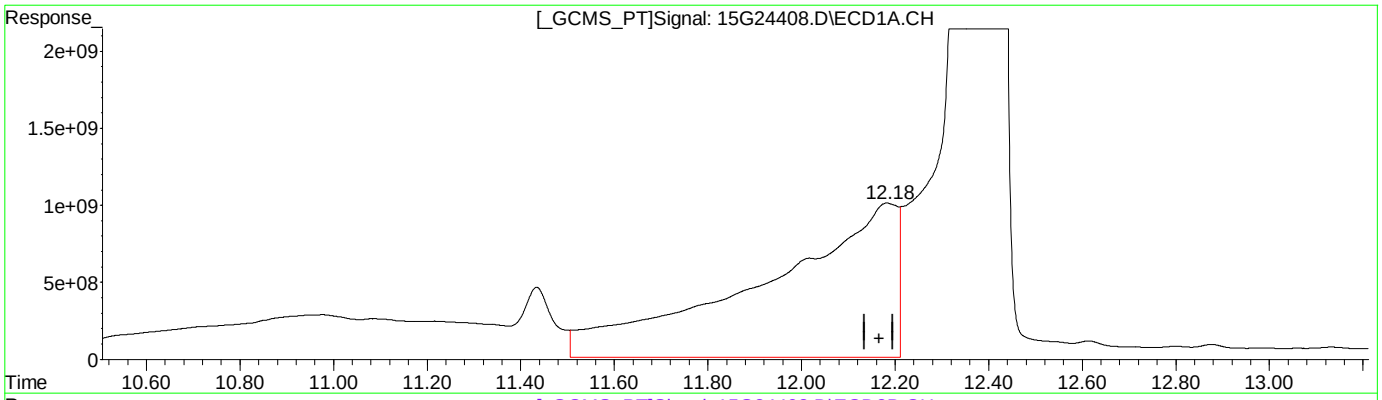
8081.M Fri Dec 17 13:20:58 2010 Page: 1

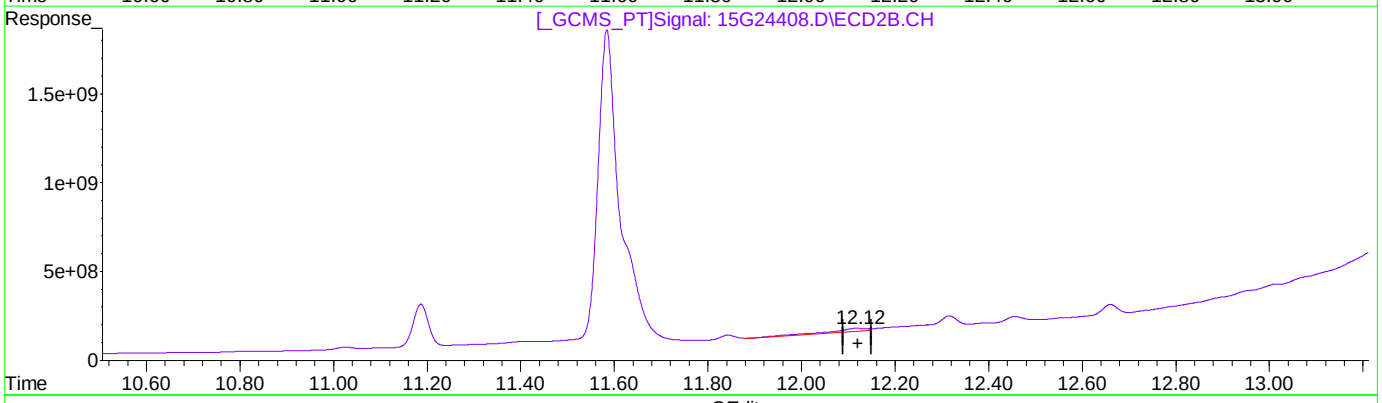
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24408.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 14 Dec 2010 22:56 (#1); 14 Dec 2010 23:24 (#2)
Operator : HAV
Sample   : L10120298-01
Misc   : 7,1 SOIL
ALS Vial : 25   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 13:20:49 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(5) Heptachlor

12.18min 1317.117UG/L

response 1.99583e+011

(5) Heptachlor #2

12.12min 6.532UG/L

response 891017764

(+) = Expected Retention Time

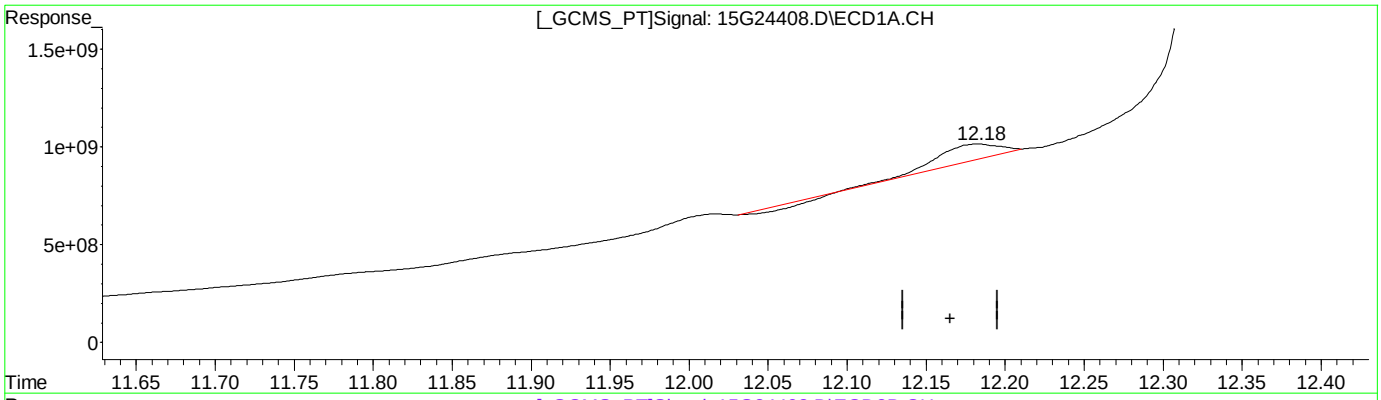
8081.M Fri Dec 17 13:21:57 2010 Page: 1

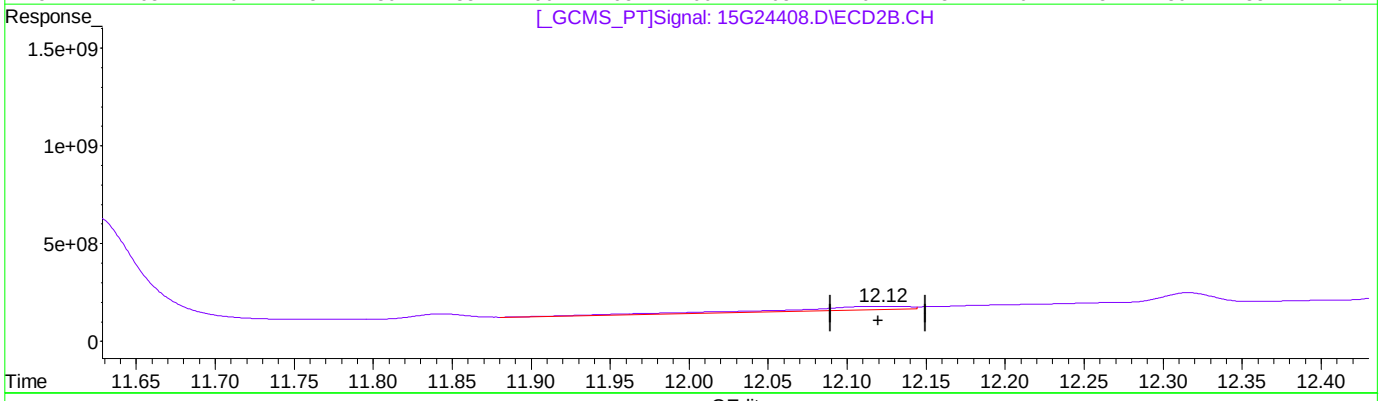
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24408.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 14 Dec 2010 22:56 (#1); 14 Dec 2010 23:24 (#2)
Operator : HAV
Sample   : L10120298-01
Misc   : 7,1 SOIL
ALS Vial : 25   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 10:40:39 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(5) Heptachlor

12.18min 10.972UG/L

response 1662571322

(5) Heptachlor #2

12.12min 6.532UG/L

response 891017764

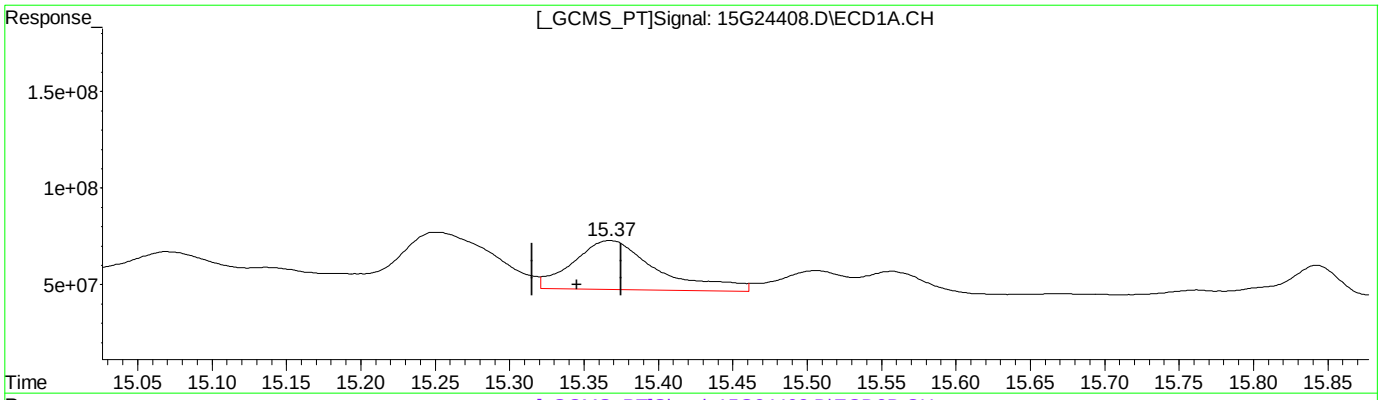
(+) = Expected Retention Time

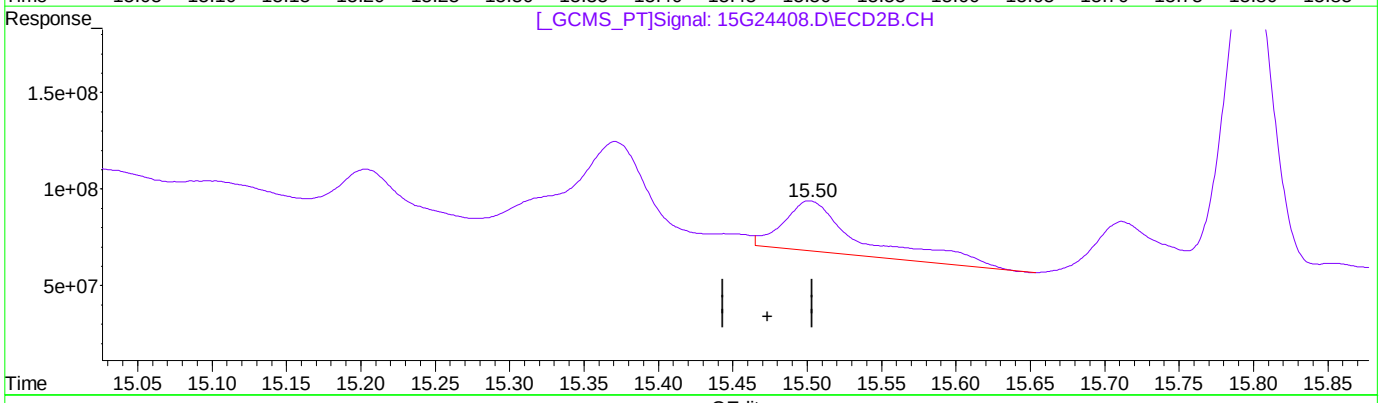
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24408.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 14 Dec 2010 22:56 (#1); 14 Dec 2010 23:24 (#2)
Operator : HAV
Sample   : L10120298-01
Misc   : 7,1 SOIL
ALS Vial : 25   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 10:40:39 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(14) Endrin

15.37min 8.168UG/L

response 991454439

(14) Endrin #2

15.50min 10.382UG/L

response 957755216

(+) = Expected Retention Time

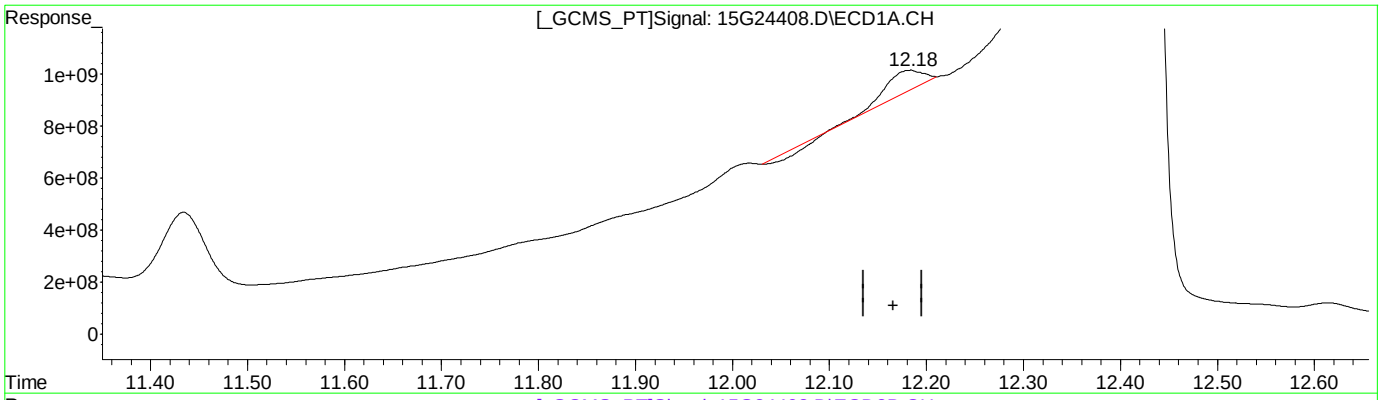
8081.M Mon Dec 20 10:41:41 2010 Page: 1

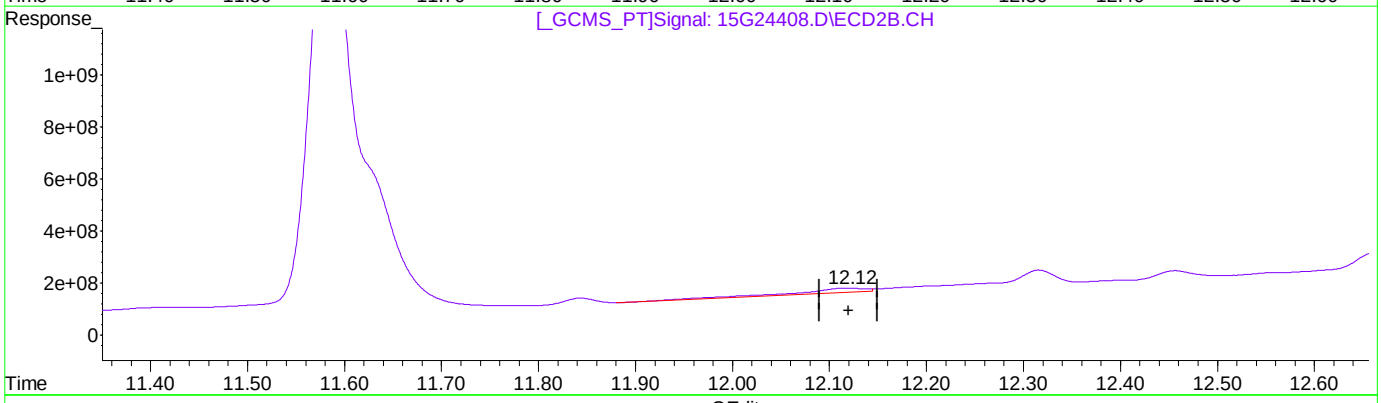
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24408.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 14 Dec 2010 22:56 (#1); 14 Dec 2010 23:24 (#2)
Operator : HAV
Sample   : L10120298-01
Misc   : 7,1 SOIL
ALS Vial : 25   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 10:41:59 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(5) Heptachlor

12.18min 10.972UG/L

response 1662571322

(5) Heptachlor #2

12.12min 6.532UG/L

response 891017764

(+) = Expected Retention Time

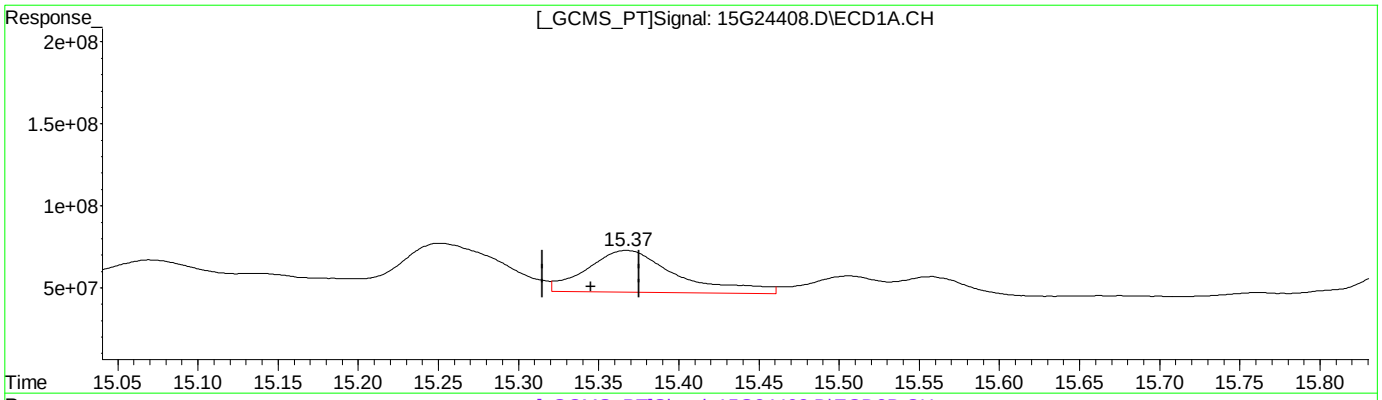
8081.M Mon Dec 20 10:42:23 2010 Page: 1

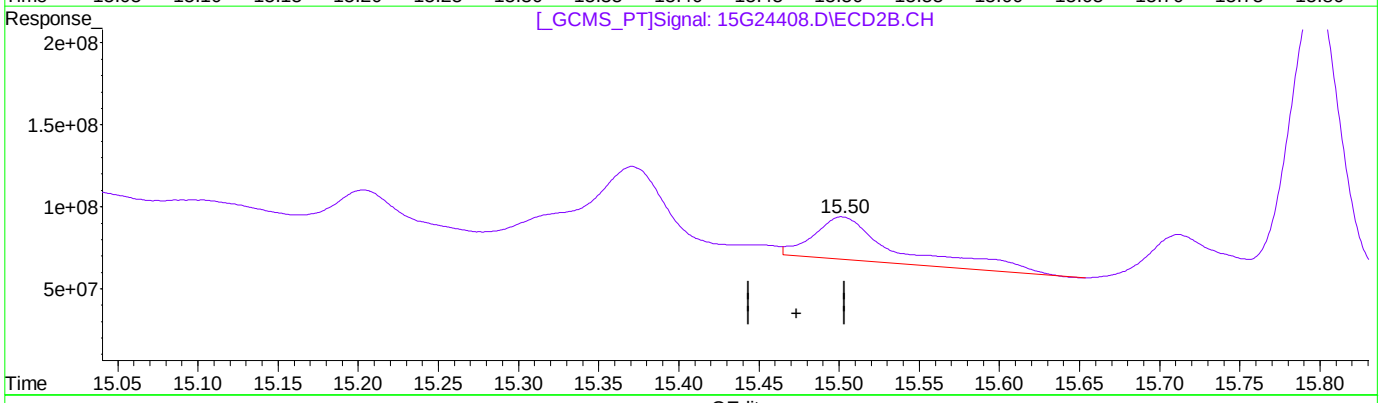
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24408.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 14 Dec 2010 22:56 (#1); 14 Dec 2010 23:24 (#2)
Operator : HAV
Sample   : L10120298-01
Misc   : 7,1 SOIL
ALS Vial : 25   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 10:41:59 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(14) Endrin

15.37min 8.168UG/L

response 991454439

(14) Endrin #2

15.50min 10.382UG/L

response 957755216

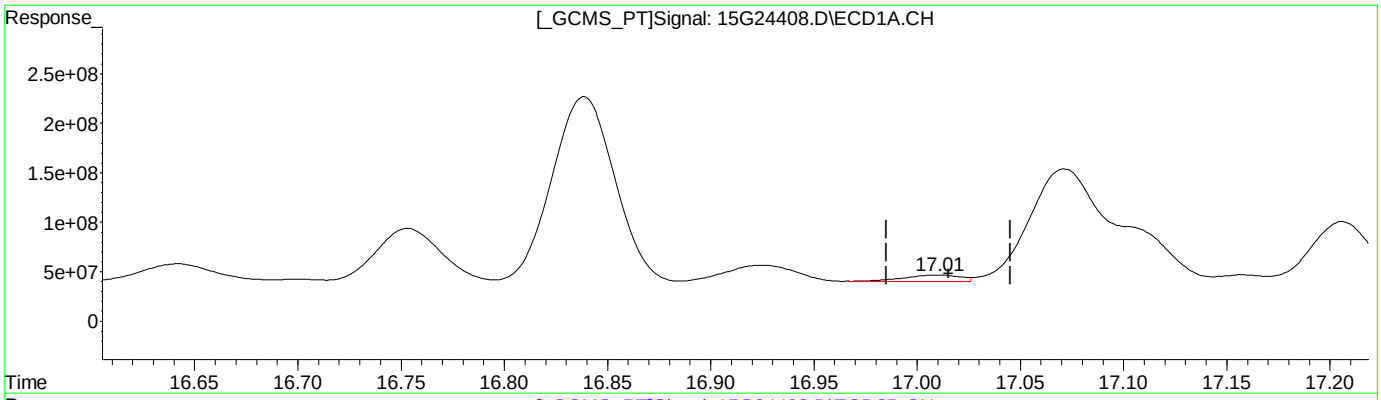
(+) = Expected Retention Time

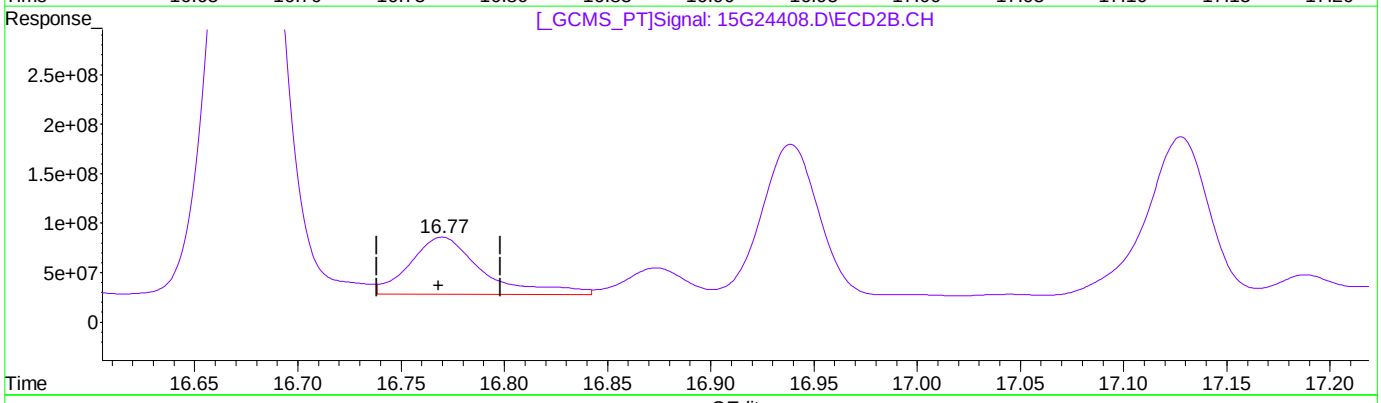
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24408.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 14 Dec 2010 22:56 (#1); 14 Dec 2010 23:24 (#2)
Operator : HAV
Sample   : L10120298-01
Misc   : 7,1 SOIL
ALS Vial : 25   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 10:41:59 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(19) Endosulfan Sulfate

17.01min 1.287UG/L

response 123022480

(19) Endosulfan Sulfate #2

16.77min 19.681UG/L

response 1418646020

(+) = Expected Retention Time

8081.M Mon Dec 20 10:42:51 2010 Page: 1

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24409.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Dec 2010 23:24 (#1); 14 Dec 2010 23:52 (#2)
Operator : HAV
Sample : L10120298-02
Misc : 7,1 SOIL
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 10:46:51 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.26	9.17	1741.7E6	975.9E6	15.314	10.225 #
	Spiked Amount	20.000	Range 30 - 132		Recovery =	76.57%	51.13%
22) S	Decachlorobiphen	18.62	18.90	3792.3E6	27044.2E6	47.325	449.013 #
	Spiked Amount	20.000	Range 36 - 144		Recovery =	236.63%#	2245.07%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	11.24f	11.29f	6031.4E6	125.5E6	38.687	0.889 #
4)	beta-BHC	11.43f	0.00	21933.9E6	0	314.057	N.D. #
5)	Heptachlor	12.18f	12.12	2058.8E6	4314.2E6	13.586	31.629 #
6)	delta-BHC	11.78f	0.00	1460.2E6	0	9.542	N.D. #
7)	Aldrin	12.73	0.00	64229240	0	0.414	N.D. #
8)	Heptachlor Epoxi	13.85	0.00	342.0E6	0	2.409	N.D. #
9)	gamma-Chlordane	14.04f	0.00	2900.8E6	0	19.569	N.D. #
10)	alpha-Chlordane	0.00	14.36	0	161.9E6	N.D.	1.473 #
11)	Endosulfan I	14.56f	0.00	152.5E6	0	1.226	N.D. #
12)	4,4'-DDE	14.45	0.00	889.3E6	0	6.963	N.D. #
13)	Dieldrin	14.96	14.92f	242.1E6	600.3E6	1.950	5.502 #
14)	Endrin	15.37f	0.00	1488.7E6	0	12.265	N.D. #
15)	4,4'-DDD	15.51f	0.00	859.0E6	0	8.272	N.D. #
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	15.93	0.00	1957.4E6	0	16.554	N.D. #
18)	Endrin Aldehyde	0.00	16.35f	0	673.0E6	N.D.	9.449 #
19)	Endosulfan Sulfa	17.01	16.77	485.0E6	5377.7E6	5.072	74.606 #
20)	Methoxychlor	0.00	17.13f	0	11002.0E6	N.D.	246.926 #
21)	Endrin Ketone	17.35f	17.51f	9525.2E6	2452.6E6	87.420	30.404 #

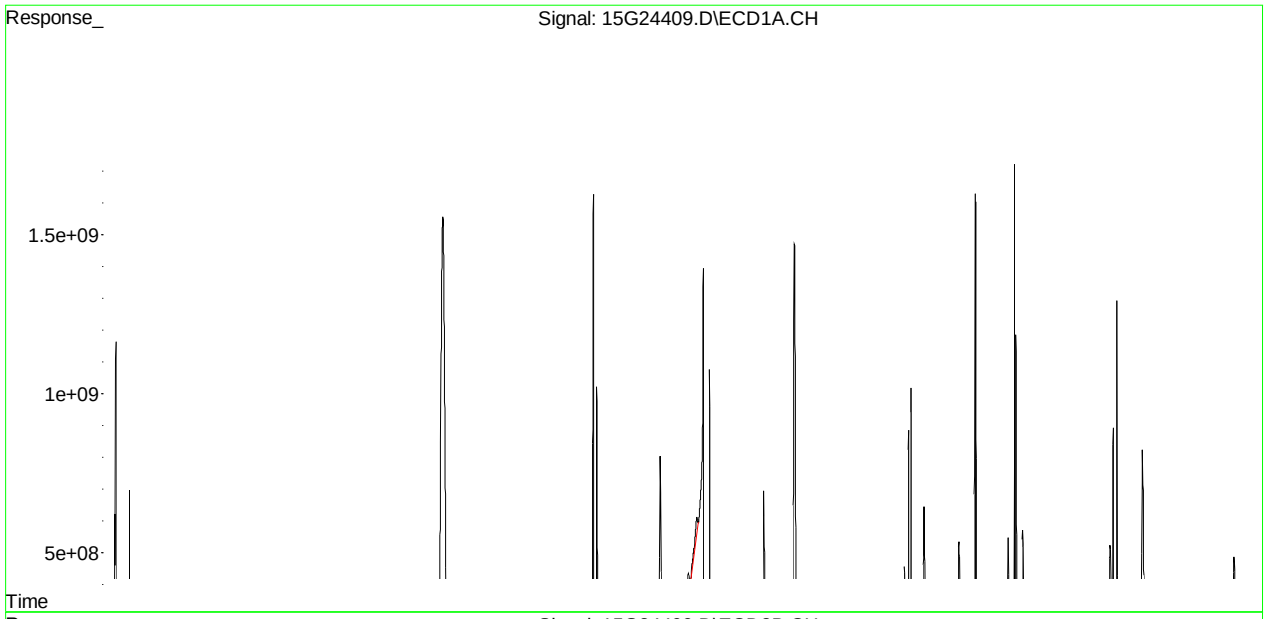
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

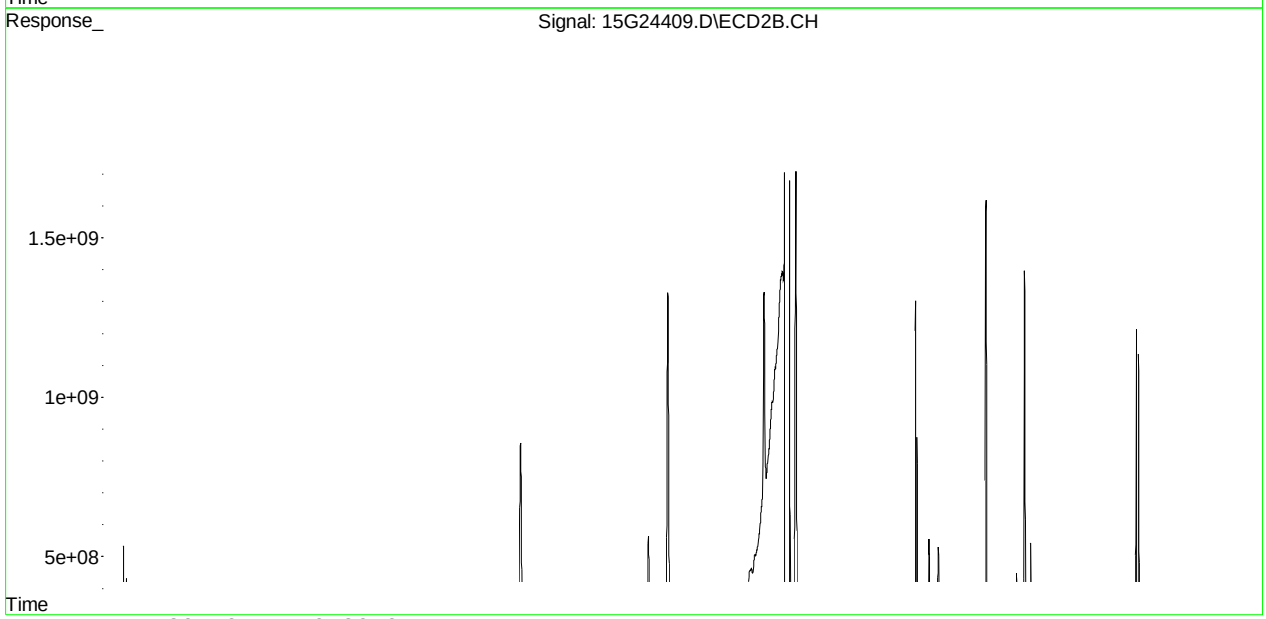
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24409.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Dec 2010 23:24 (#1); 14 Dec 2010 23:52 (#2)
Operator : HAV
Sample : L10120298-02
Misc : 7,1 SOIL
ALS Vial : 26 Sample Multiplier: 1

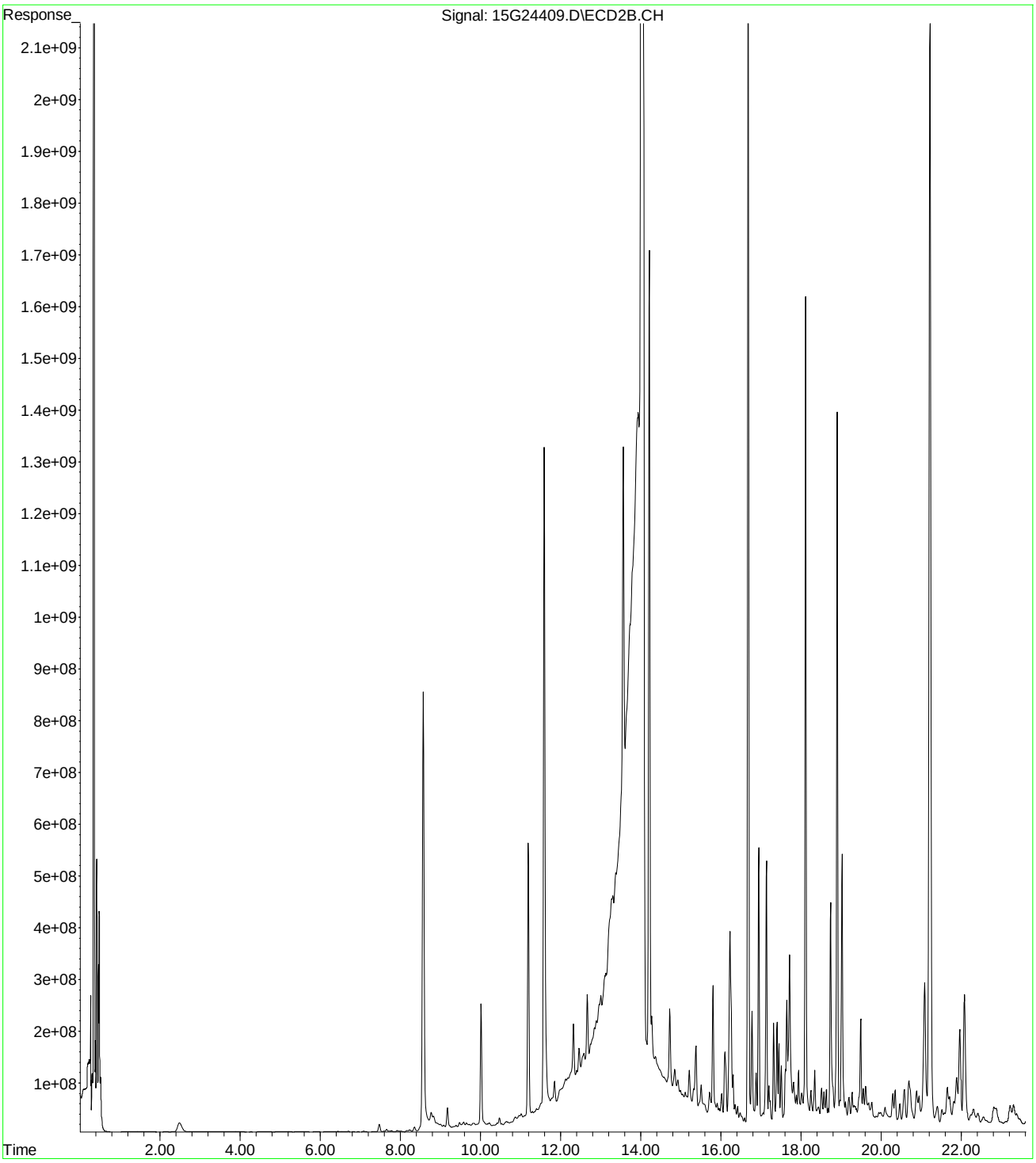
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 10:46:51 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





File :C:\MSDChem\1\DATA\121410\15G24409.D
Operator : HAV
Acquired : 14 Dec 2010 23:24 using AcqMethod 8081.M
Instrument : HP15
Sample Name: L10120298-02
Misc Info : 7,1 SOIL
Vial Number: 26

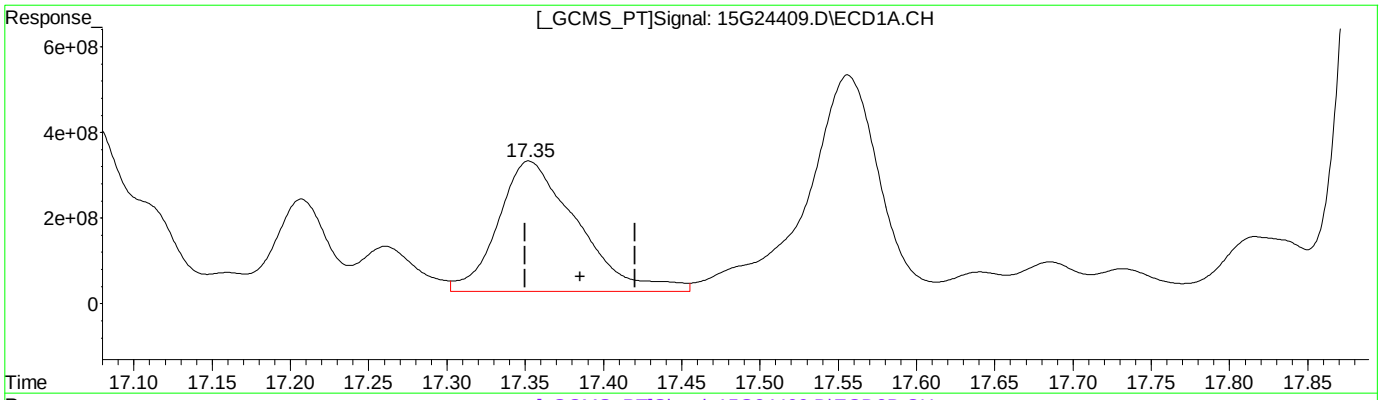


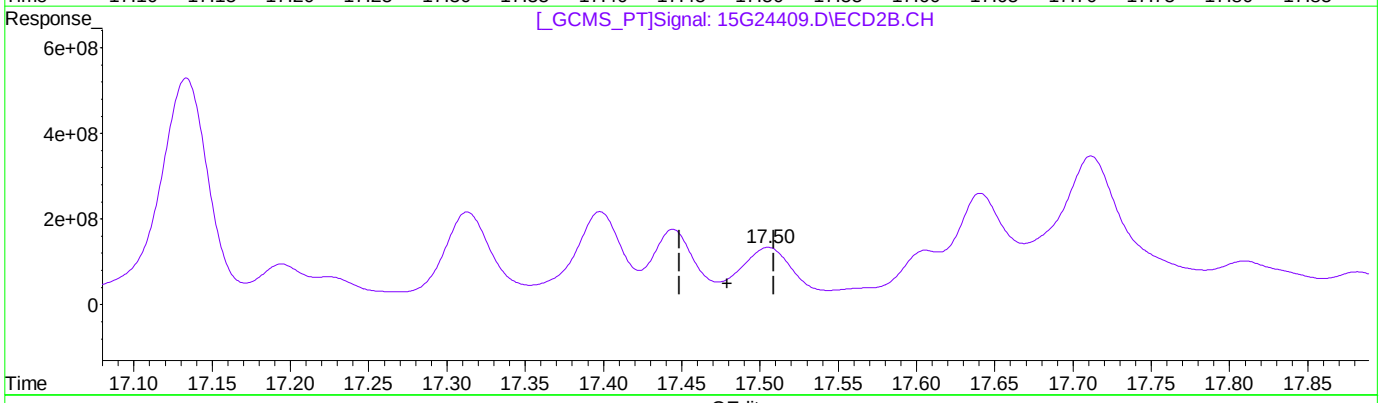
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24409.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 14 Dec 2010 23:24 (#1); 14 Dec 2010 23:52 (#2)
Operator : HAV
Sample   : L10120298-02
Misc   : 7,1 SOIL
ALS Vial : 26   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 15 10:01:11 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(21) Endrin Ketone

17.35min 98.990UG/L

response 10785875038

(21) Endrin Ketone #2

17.51min 180.899UG/L

response 14592568050

(+) = Expected Retention Time

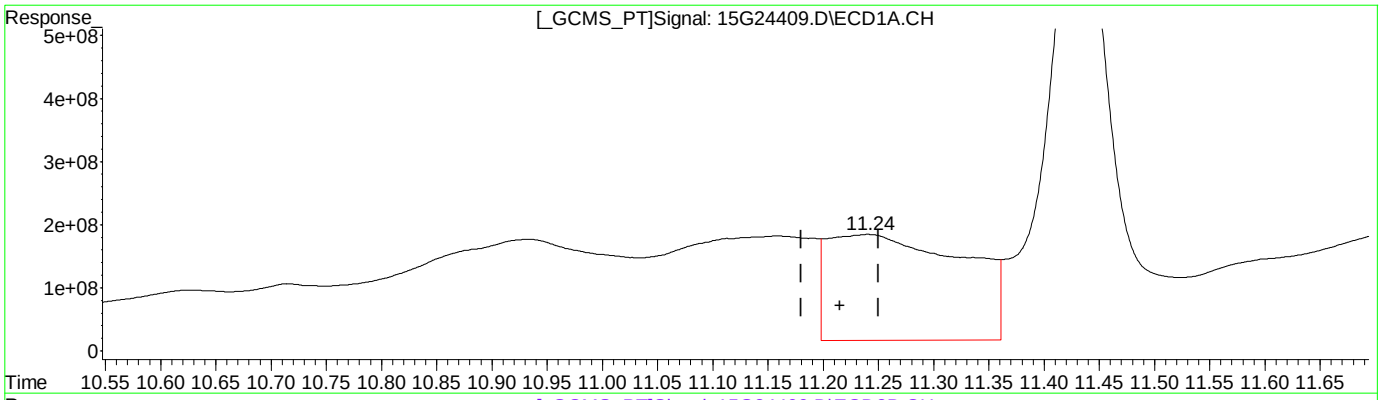
8081.M Fri Dec 17 13:24:05 2010 Page: 1

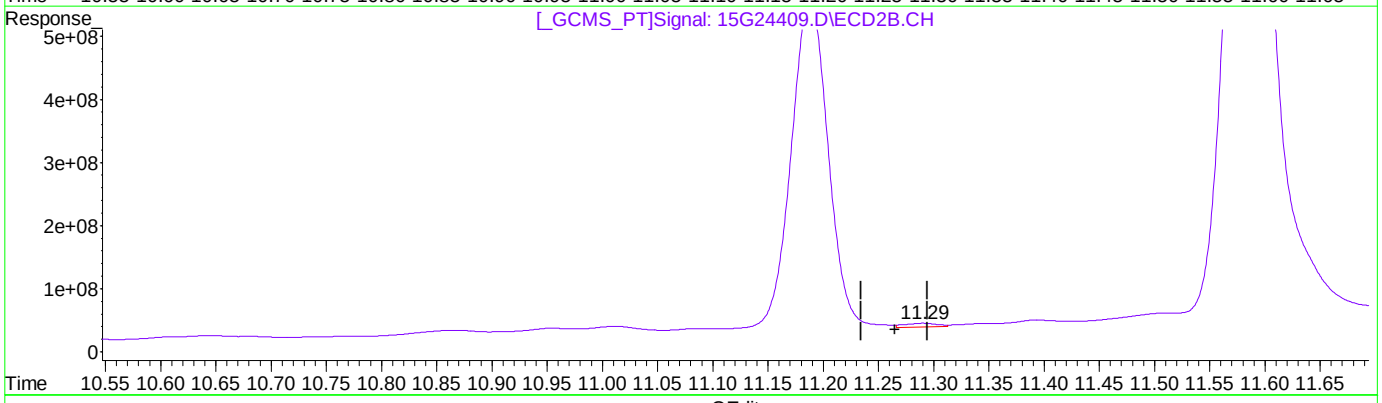
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24409.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 14 Dec 2010 23:24 (#1); 14 Dec 2010 23:52 (#2)
Operator : HAV
Sample   : L10120298-02
Misc   : 7,1 SOIL
ALS Vial : 26   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 15 10:01:11 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(3) gamma-BHC

11.24min 92.553UG/L

response 14429069461

(3) gamma-BHC #2

11.29min 0.889UG/L

response 125533629

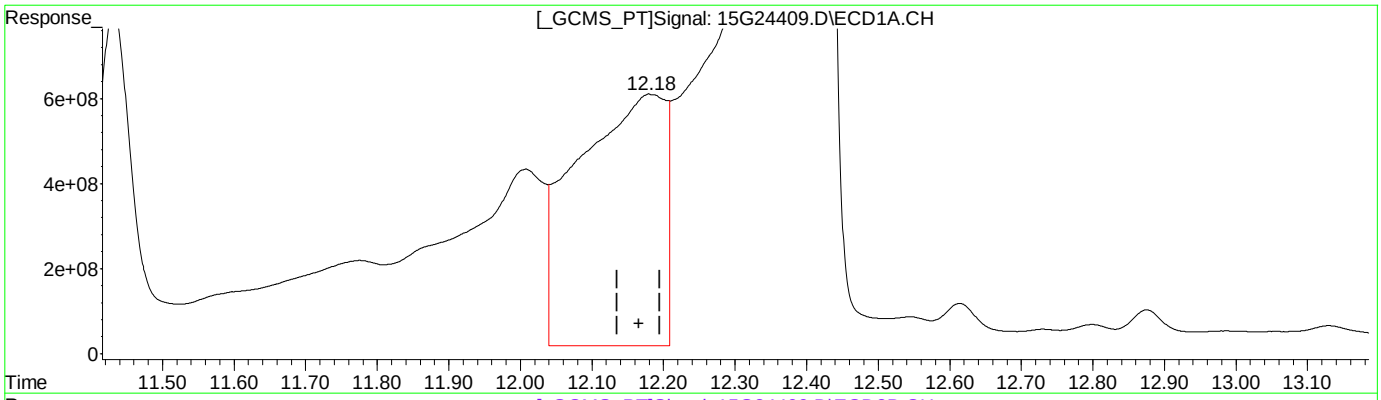
(+) = Expected Retention Time

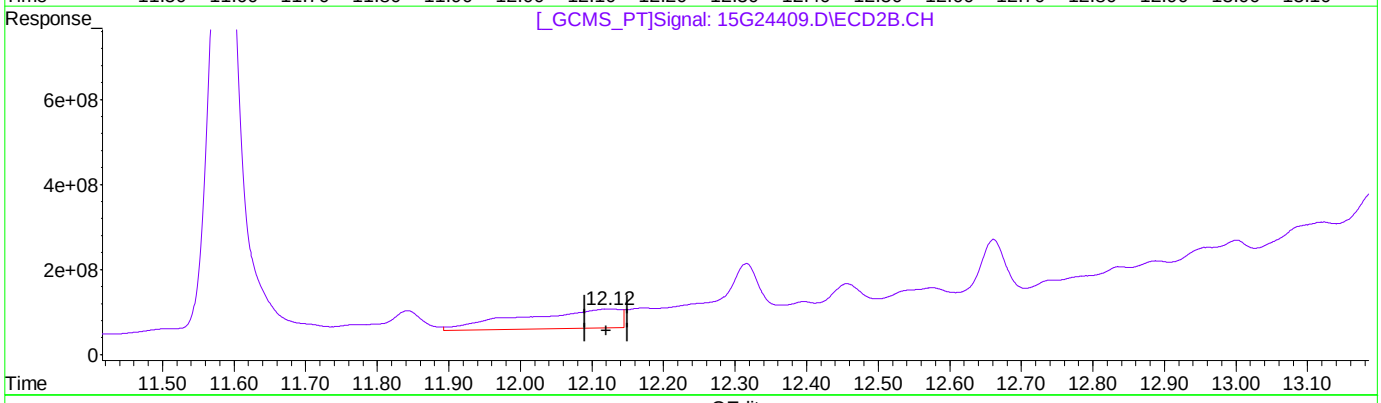
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24409.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 14 Dec 2010 23:24 (#1); 14 Dec 2010 23:52 (#2)
Operator : HAV
Sample   : L10120298-02
Misc   : 7,1 SOIL
ALS Vial : 26   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 15 10:01:11 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(5) Heptachlor

12.18min 332.808UG/L

response 50430528409

(5) Heptachlor #2

12.12min 31.629UG/L

response 4314183945

(+) = Expected Retention Time

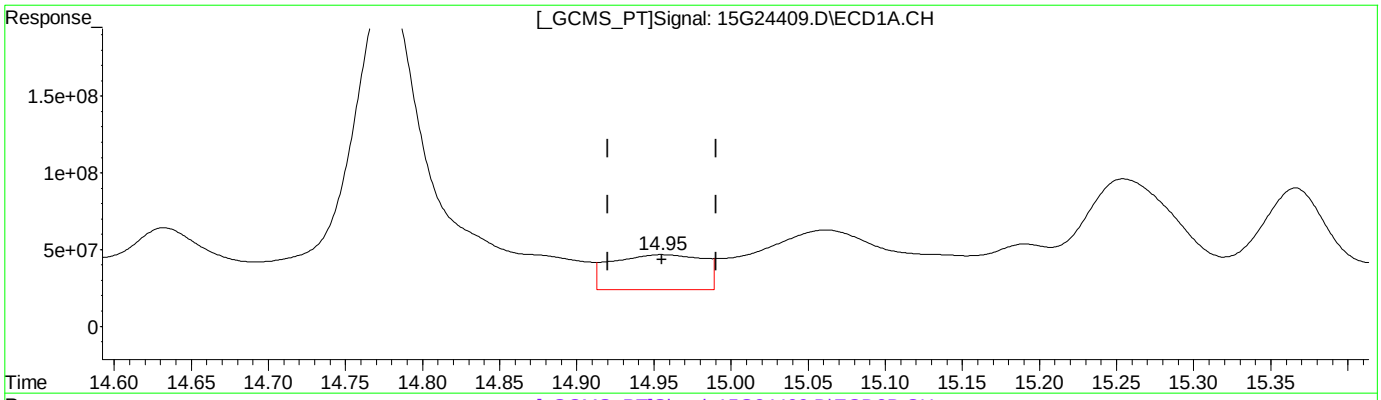
8081.M Fri Dec 17 13:24:39 2010 Page: 1

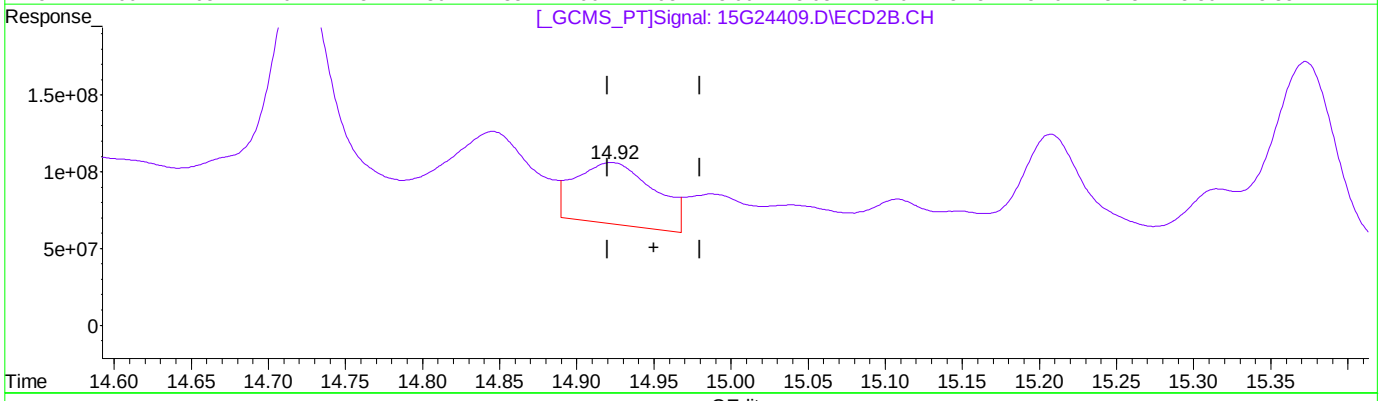
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24409.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 14 Dec 2010 23:24 (#1); 14 Dec 2010 23:52 (#2)
Operator : HAV
Sample   : L10120298-02
Misc   : 7,1 SOIL
ALS Vial : 26   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 15 10:01:11 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(13) Dieldrin

14.96min 7.625UG/L

response 946688677

(13) Dieldrin #2

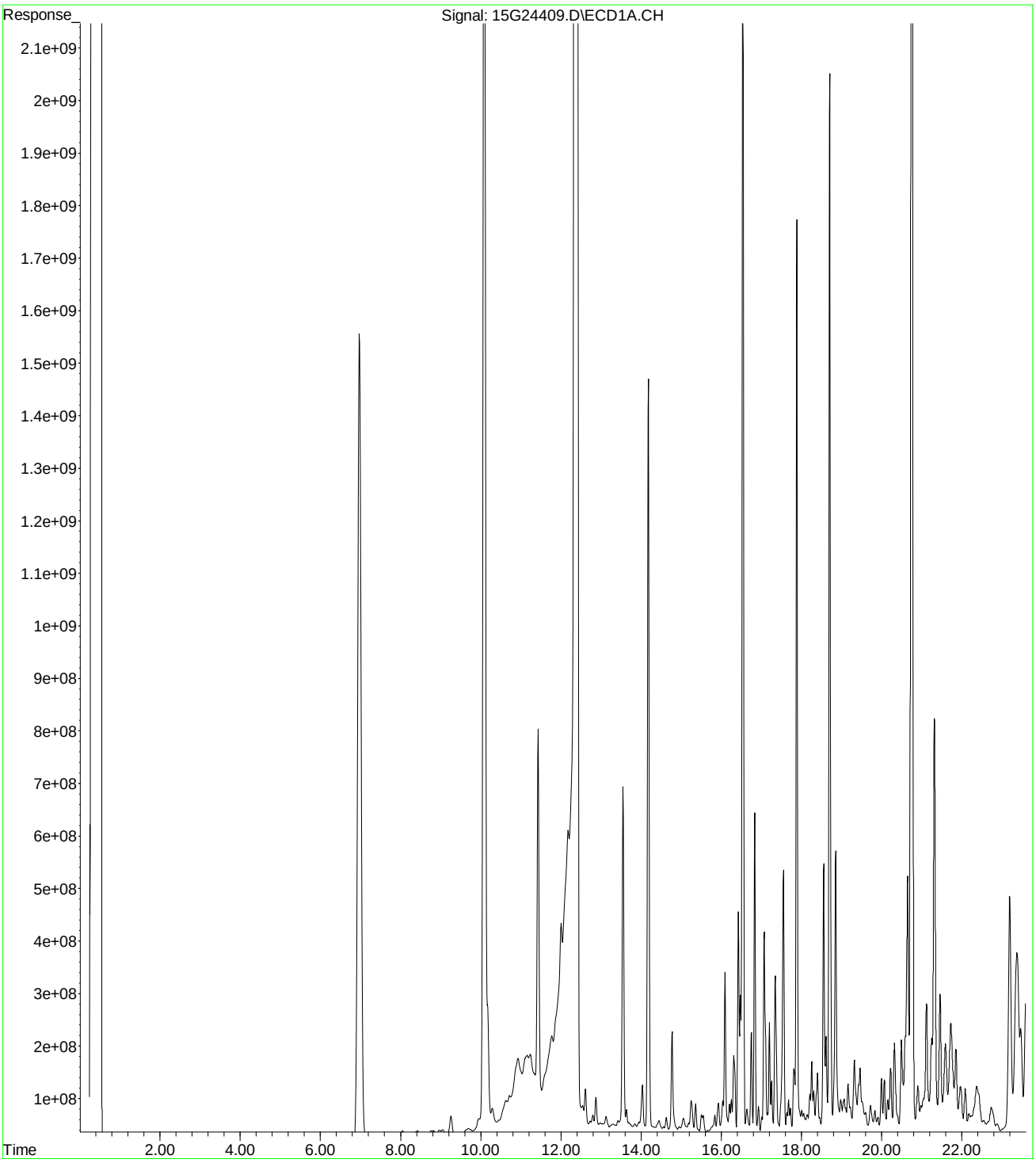
14.92min 13.257UG/L

response 1446373137

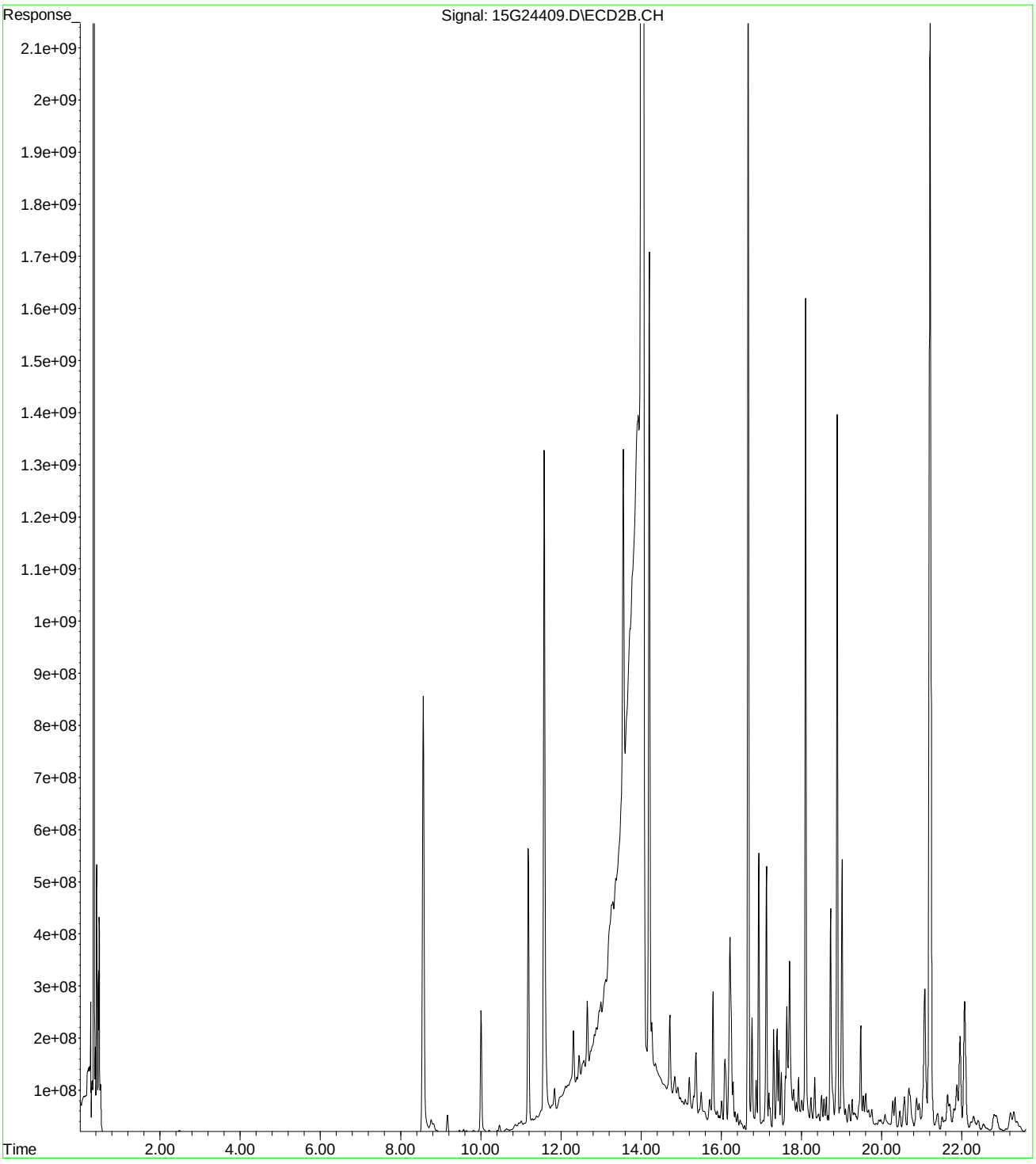
(+) = Expected Retention Time

8081.M Fri Dec 17 13:25:39 2010 Page: 1

File :C:\MSDChem\1\DATA\121410\15G24409.D
Operator : HAV
Acquired : 14 Dec 2010 23:24 using AcqMethod 8081.M
Instrument : HP15
Sample Name: L10120298-02
Misc Info : 7,1 SOIL
Vial Number: 26



File :C:\MSDChem\1\DATA\121410\15G24409.D
Operator : HAV
Acquired : 14 Dec 2010 23:24 using AcqMethod 8081.M
Instrument : HP15
Sample Name: L10120298-02
Misc Info : 7,1 SOIL
Vial Number: 26

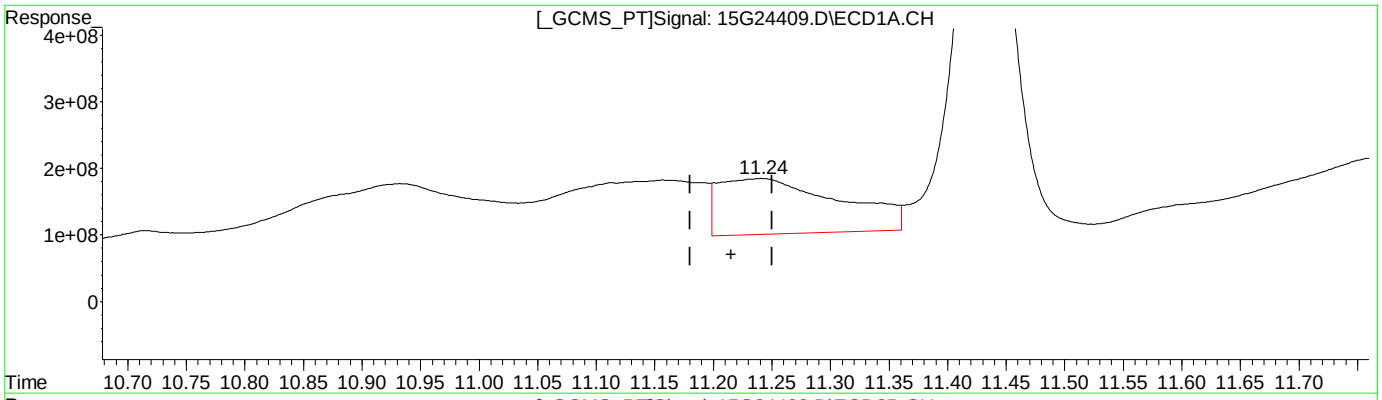


Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24409.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 14 Dec 2010 23:24 (#1); 14 Dec 2010 23:52 (#2)
Operator : HAV
Sample   : L10120298-02
Misc   : 7,1 SOIL
ALS Vial : 26   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 10:46:51 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :



QEdit

(3) gamma-BHC

11.24min 38.687UG/L

response 6031378297

(3) gamma-BHC #2

11.29min 0.889UG/L

response 125533629

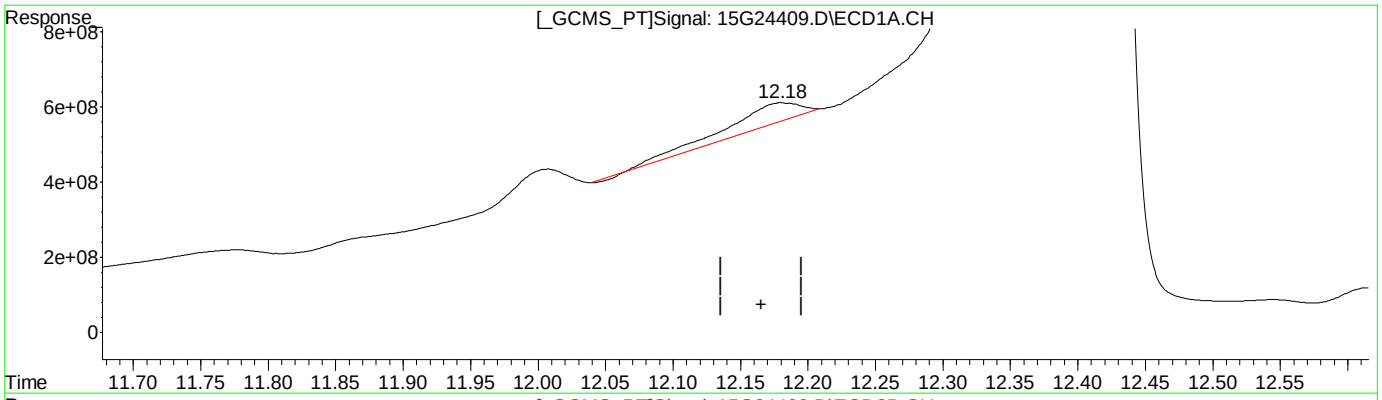
(+) = Expected Retention Time

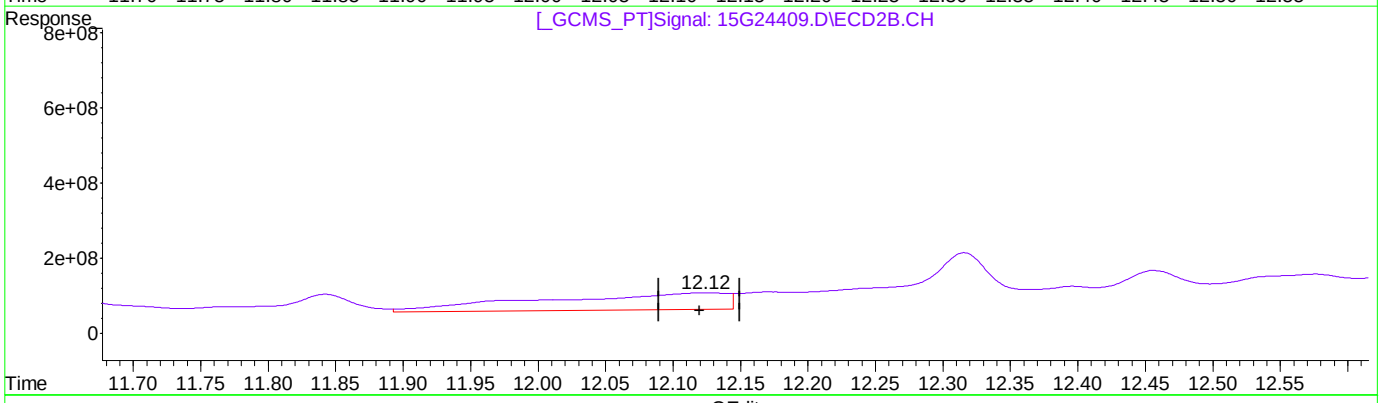
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24409.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 14 Dec 2010 23:24 (#1); 14 Dec 2010 23:52 (#2)
Operator : HAV
Sample   : L10120298-02
Misc   : 7,1 SOIL
ALS Vial : 26   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 10:46:51 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(5) Heptachlor

12.18min 13.586UG/L

response 2058756013

(5) Heptachlor #2

12.12min 31.629UG/L

response 4314183945

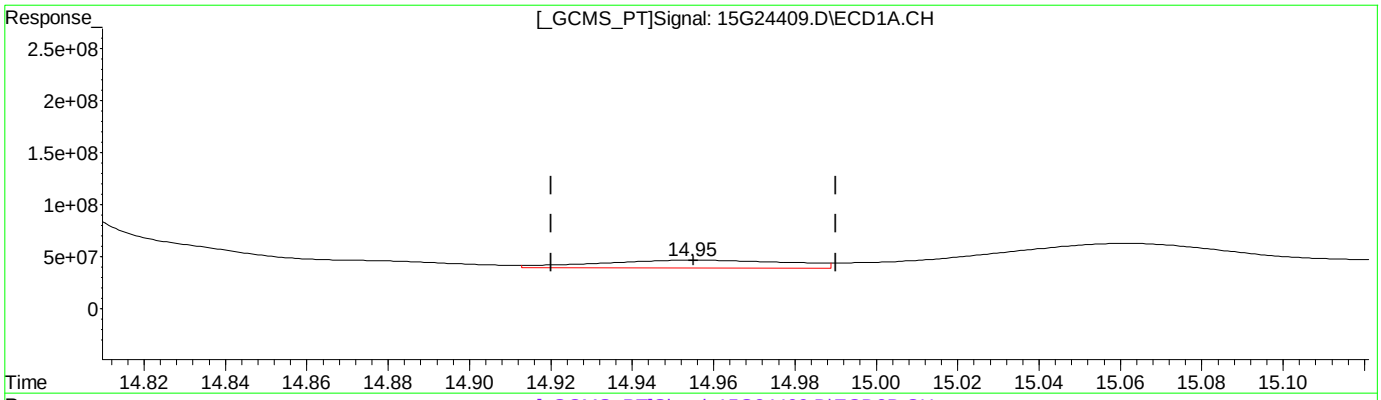
(+) = Expected Retention Time

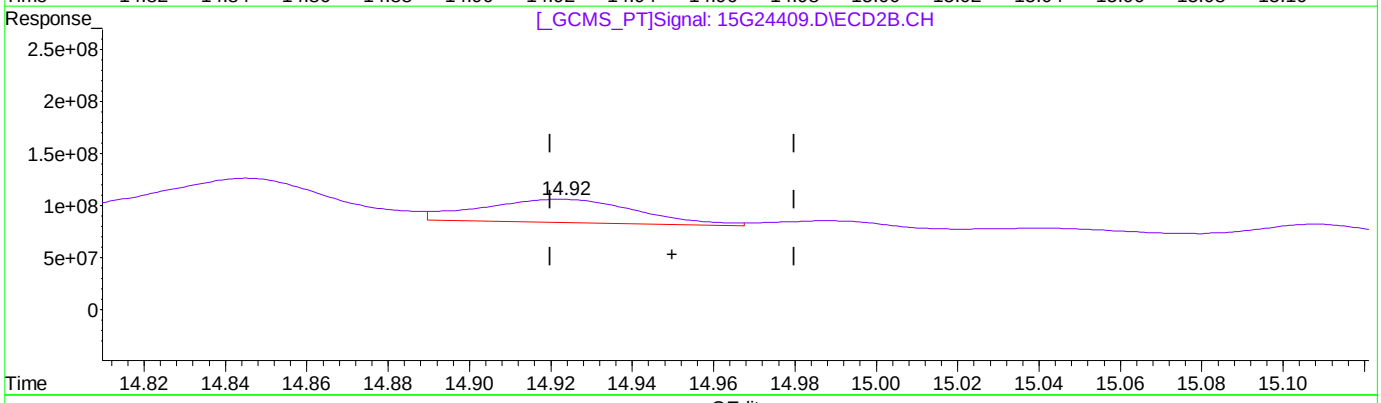
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24409.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 14 Dec 2010 23:24 (#1); 14 Dec 2010 23:52 (#2)
Operator : HAV
Sample   : L10120298-02
Misc   : 7,1 SOIL
ALS Vial : 26   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 10:46:51 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(13) Dieldrin

14.96min 1.950UG/L

response 242097288

(13) Dieldrin #2

14.92min 5.502UG/L

response 600268684

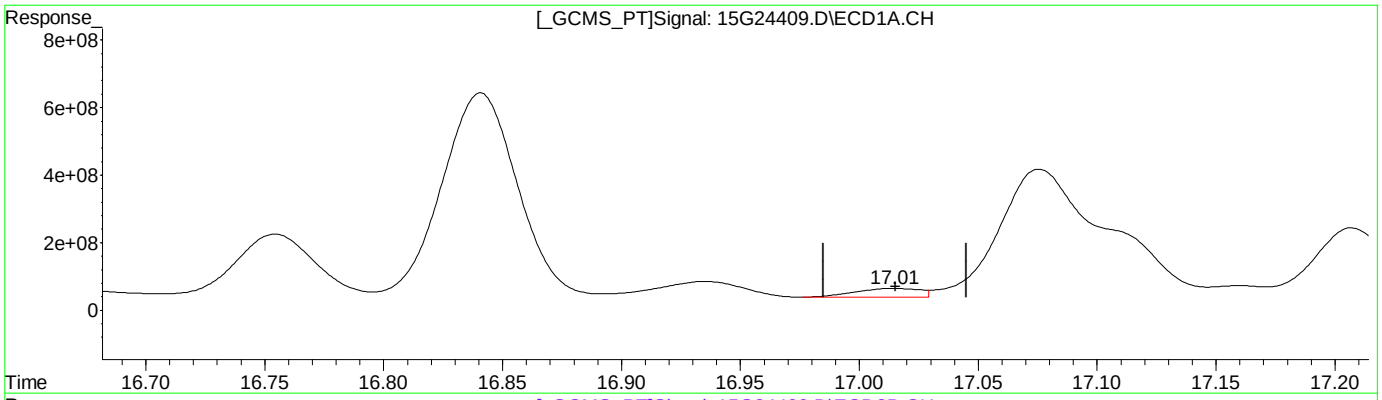
(+) = Expected Retention Time

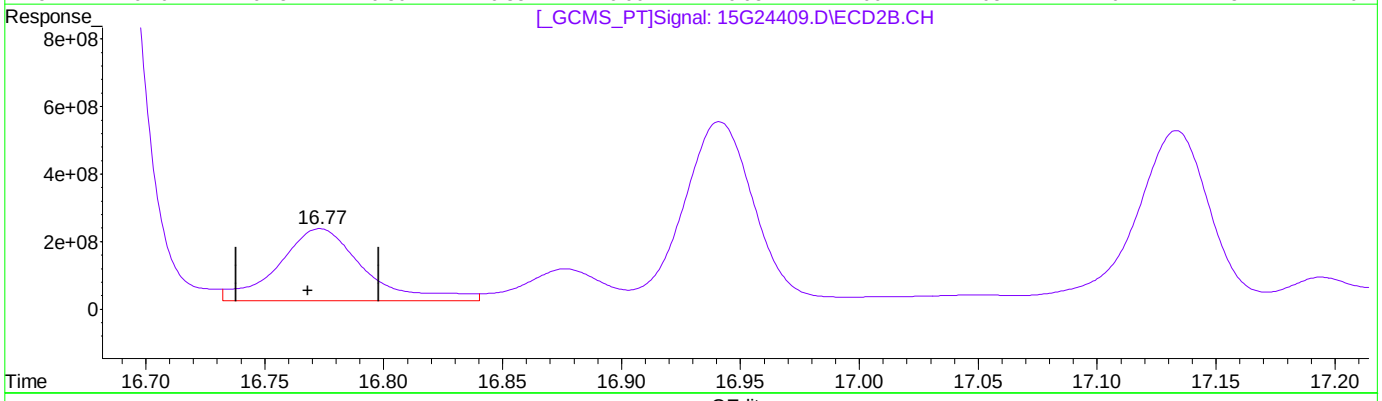
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24409.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 14 Dec 2010 23:24 (#1); 14 Dec 2010 23:52 (#2)
Operator : HAV
Sample   : L10120298-02
Misc   : 7,1 SOIL
ALS Vial : 26   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 10:46:51 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(19) Endosulfan Sulfate

17.01min 5.072UG/L

response 484965709

(19) Endosulfan Sulfate #2

16.77min 74.606UG/L

response 5377686194

(+) = Expected Retention Time

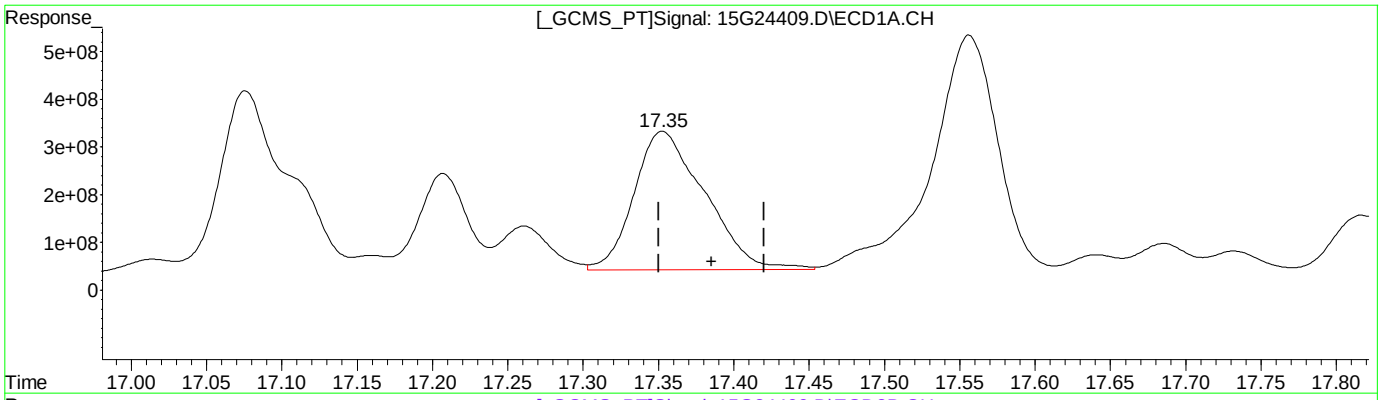
8081.M Mon Dec 20 10:49:34 2010 Page: 1

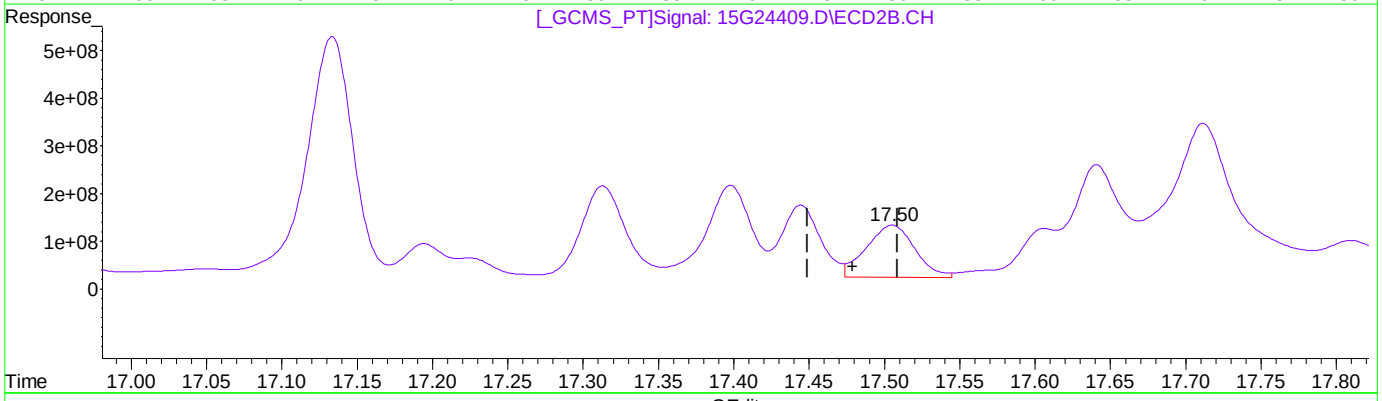
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24409.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 14 Dec 2010 23:24 (#1); 14 Dec 2010 23:52 (#2)
Operator : HAV
Sample   : L10120298-02
Misc   : 7,1 SOIL
ALS Vial : 26   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 10:46:51 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(21) Endrin Ketone

17.35min 87.420UG/L

response 9525208157

(21) Endrin Ketone #2

17.51min 30.404UG/L

response 2452622252

(+) = Expected Retention Time

8081.M Mon Dec 20 10:49:43 2010 Page: 1

2.1.1.4 Standards Data

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23702.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 19:24 (#1); 27 Sep 2010 19:52 (#2)
Operator : ECL
Sample : WG343902-01 PEST ICAL 200 PPB
Misc : 1,1 STD40207
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:16:49 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:16:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	22953.6E6	17680.4E6	205.120	180.388
	Spiked Amount	20.000	Range 30 - 132		Recovery =	1025.60%#	901.94%#
22) S	Decachlorobiphen	18.63	18.90	13999.5E6	10537.1E6	176.954	185.819
	Spiked Amount	20.000	Range 36 - 144		Recovery =	884.77%#	929.09%#
	Target Compounds						
2)	alpha-BHC	10.57	10.54	36594.4E6	28042.1E6	220.668	177.611
3)	gamma-BHC	11.24	11.27	33131.4E6	27405.0E6	198.474	186.979
4)	beta-BHC	11.44	11.46	13625.4E6	11793.4E6	170.776	181.999
5)	Heptachlor	12.19	12.13	27604.8E6	23694.1E6	162.180	177.500
6)	delta-BHC	11.78	12.02	33542.1E6	27983.5E6	189.902	195.270
7)	Aldrin	12.76	12.74	29991.5E6	22416.3E6	197.477	183.947
8)	Heptachlor Epoxi	13.87	13.79	24925.4E6	18364.1E6	179.704	177.698
9)	gamma-Chlordane	14.09	14.13	28416.2E6	21552.7E6	198.823	187.984
10)	alpha-Chlordane	14.33	14.39	26284.4E6	20399.6E6	197.851	184.963
11)	Endosulfan I	14.56	14.48	22146.0E6	15964.4E6	182.877	171.530
12)	4,4'-DDE	14.48	14.69	25881.1E6	19941.0E6	204.443	191.427
13)	Dieldrin	14.98	14.96	22624.1E6	19765.5E6	186.075	181.731
14)	Endrin	15.37	15.48	22639.0E6	16634.2E6	191.452	186.125
15)	4,4'-DDD	15.50	15.69	21194.2E6	16614.0E6	201.499	189.629
16)	Endosulfan II	15.75	15.85	20609.7E6	16141.1E6	177.177	173.997
17)	4,4'-DDT	15.96	16.19	22560.8E6	17325.4E6	193.873	200.465
18)	Endrin Aldehyde	16.41	16.38	15979.0E6	11769.2E6	175.685	159.653
19)	Endosulfan Sulfa	17.04	16.78	17294.0E6	13469.4E6	181.609	168.226
20)	Methoxychlor	16.70	17.17	9867.6E6	7439.0E6	181.362	181.556
21)	Endrin Ketone	17.41	17.49	19622.2E6	14657.1E6	182.462	173.823

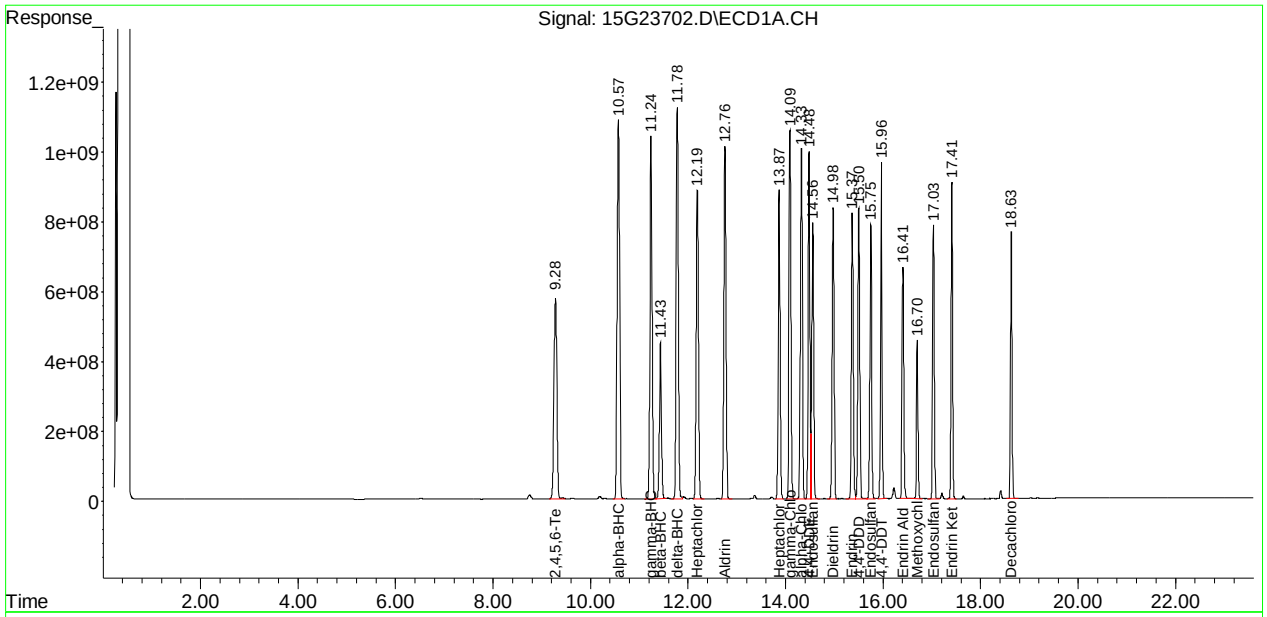
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23702.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 19:24 (#1); 27 Sep 2010 19:52 (#2)
Operator : ECL
Sample : WG343902-01 PEST ICAL 200 PPB
Misc : 1,1 STD40207
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:16:49 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:16:47 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23703.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 19:52 (#1); 27 Sep 2010 20:21 (#2)
Operator : ECL
Sample : WG343902-02 PEST ICAL 100 PPB
Misc : 1,1 STD40207
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:05 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:03 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	11302.6E6	9043.9E6	101.075	92.546
	Spiked Amount	20.000	Range 30 - 132		Recovery =	505.38%#	462.73%#
22) S	Decachlorobiphen	18.63	18.90	7016.8E6	5265.7E6	88.754	92.324
	Spiked Amount	20.000	Range 36 - 144		Recovery =	443.77%#	461.62%#
	Target Compounds						
2)	alpha-BHC	10.57	10.54	18039.0E6	14273.4E6	108.889	92.702
3)	gamma-BHC	11.24	11.28	16381.4E6	14076.6E6	100.235	96.738
4)	beta-BHC	11.43	11.46	6743.3E6	6001.0E6	86.724	92.822
5)	Heptachlor	12.19	12.13	14584.5E6	12630.2E6	87.752	94.390
6)	delta-BHC	11.78	12.02	16650.9E6	14214.4E6	96.931	99.626
7)	Aldrin	12.76	12.74	15543.1E6	11866.1E6	102.395	97.377
8)	Heptachlor Epoxi	13.87	13.79	13184.5E6	9636.5E6	94.918	93.883
9)	gamma-Chlordane	14.09	14.13	14316.4E6	11044.0E6	100.324	96.523
10)	alpha-Chlordane	14.33	14.39	13449.7E6	10447.9E6	101.446	94.892
11)	Endosulfan I	14.56	14.48	11749.3E6	8119.2E6	96.985	88.982
12)	4,4'-DDE	14.48	14.69	13215.4E6	10327.5E6	104.623	99.314
13)	Dieldrin	14.98	14.96	12613.3E6	10387.0E6	103.939	95.611
14)	Endrin	15.37	15.48	11852.4E6	8456.0E6	100.096	95.522
15)	4,4'-DDD	15.50	15.69	10716.1E6	8525.2E6	102.346	97.630
16)	Endosulfan II	15.75	15.85	10742.1E6	8460.9E6	92.339	91.391
17)	4,4'-DDT	15.96	16.19	11516.9E6	8864.5E6	98.919	102.328
18)	Endrin Aldehyde	16.41	16.38	8333.5E6	5990.5E6	91.646	82.420
19)	Endosulfan Sulfa	17.03	16.78	8739.2E6	6905.6E6	92.329	87.296
20)	Methoxychlor	16.70	17.17	5145.3E6	3827.7E6	94.192	92.990
21)	Endrin Ketone	17.41	17.49	10067.2E6	7608.1E6	94.069	91.014

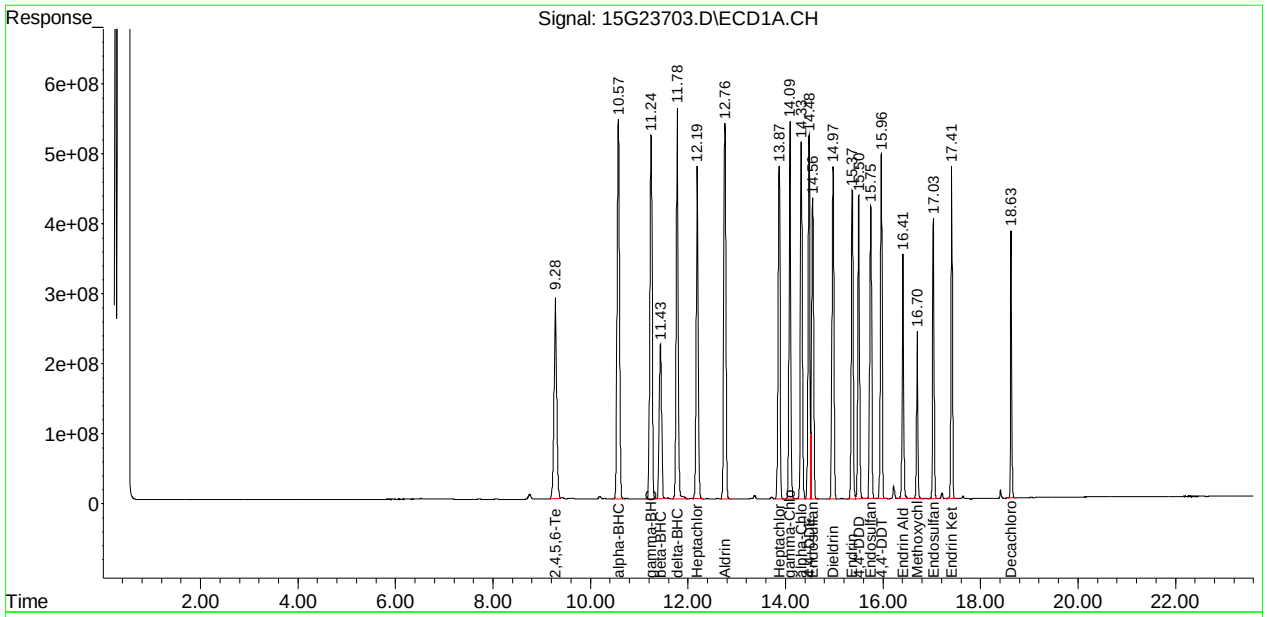
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

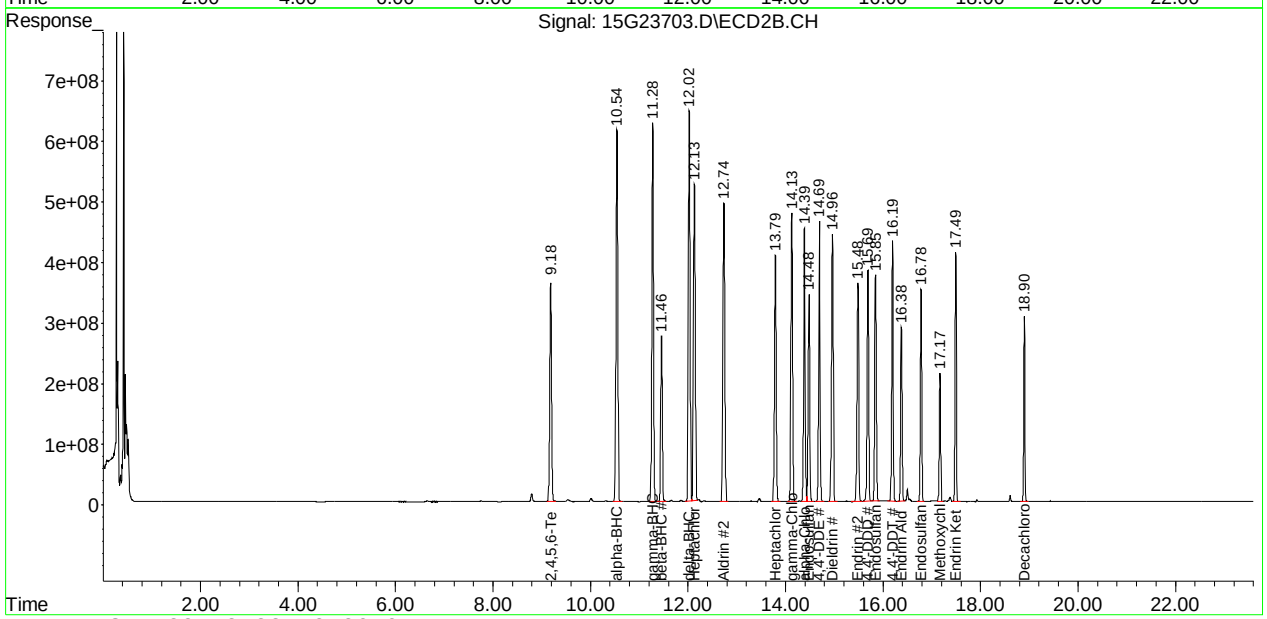
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23703.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 19:52 (#1); 27 Sep 2010 20:21 (#2)
Operator : ECL
Sample : WG343902-02 PEST ICAL 100 PPB
Misc : 1,1 STD40207
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:05 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:03 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23704.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 20:21 (#1); 27 Sep 2010 20:49 (#2)
Operator : ECL
Sample : WG343902-03 PEST ICAL 20 PPB
Misc : 1,1 STD40207
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:24 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:22 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	2307.2E6	1903.9E6	20.561	19.608
	Spiked Amount	20.000	Range 30 - 132		Recovery =	102.80%	98.04%
22) S	Decachlorobiphen	18.63	18.90	1530.5E6	1142.7E6	19.316	19.837
	Spiked Amount	20.000	Range 36 - 144		Recovery =	96.58%	99.19%
	Target Compounds						
2)	alpha-BHC	10.57	10.54	3487.0E6	2879.7E6	20.995	19.314
3)	gamma-BHC	11.24	11.28	3232.3E6	2902.9E6	20.177	20.176
4)	beta-BHC	11.43	11.46	1403.3E6	1277.6E6	18.534	19.873
5)	Heptachlor	12.19	12.13	3140.8E6	2793.6E6	19.339	20.861
6)	delta-BHC	11.78	12.02	3187.2E6	2897.2E6	19.134	20.458
7)	Aldrin	12.76	12.74	3238.4E6	2532.3E6	21.254	20.833
8)	Heptachlor Epoxi	13.87	13.79	2905.9E6	2179.9E6	20.834	21.359
9)	gamma-Chlordane	14.09	14.13	2937.3E6	2308.3E6	20.510	20.252
10)	alpha-Chlordane	14.33	14.39	2780.4E6	2188.6E6	20.897	19.971
11)	Endosulfan I	14.56	14.48	2578.3E6	1924.8E6	21.188	21.300
12)	4,4'-DDE	14.48	14.69	2666.9E6	2149.5E6	21.077	20.722
13)	Dieldrin	14.97	14.96	2693.8E6	2240.6E6	22.074	20.685
14)	Endrin	15.37	15.48	2536.2E6	1924.5E6	21.299	21.692
15)	4,4'-DDD	15.50	15.69	2169.1E6	1778.0E6	20.772	20.459
16)	Endosulfan II	15.75	15.85	2345.9E6	1867.2E6	20.111	20.224
17)	4,4'-DDT	15.96	16.19	2349.2E6	1839.4E6	20.074	21.107
18)	Endrin Aldehyde	16.41	16.38	1852.6E6	1414.0E6	20.309	19.575
19)	Endosulfan Sulfa	17.03	16.78	1846.4E6	1462.6E6	19.612	18.818
20)	Methoxychlor	16.70	17.17	1167.8E6	862.7E6	21.109	20.723
21)	Endrin Ketone	17.41	17.49	2165.3E6	1641.6E6	20.268	19.813

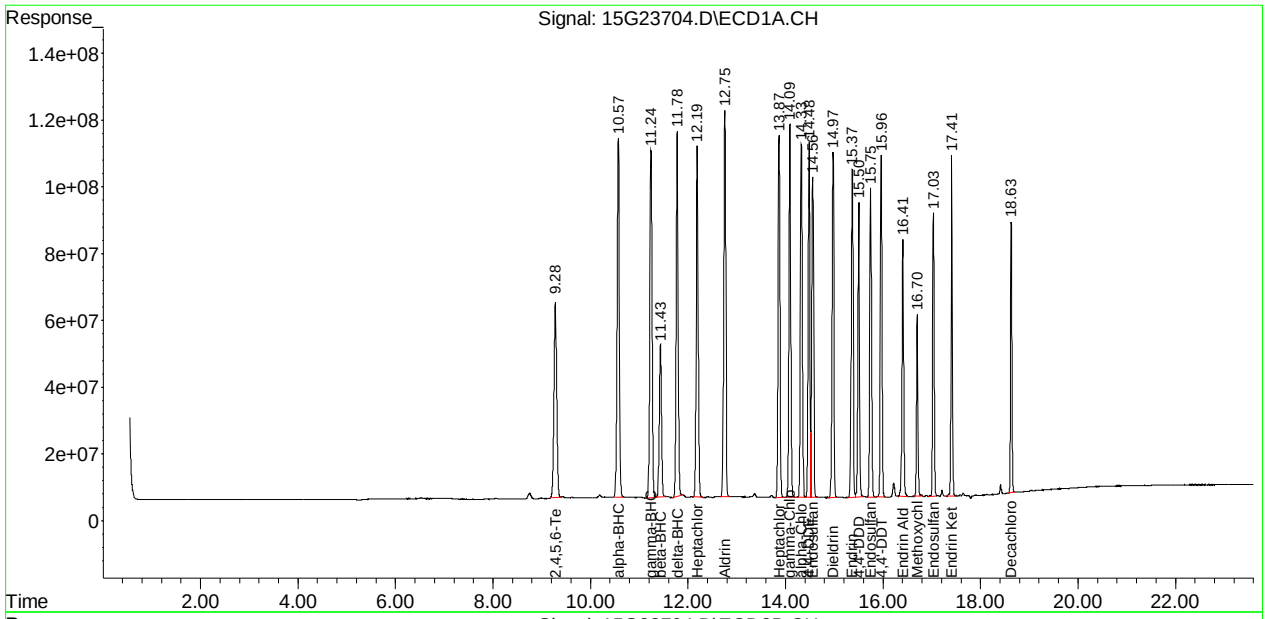
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

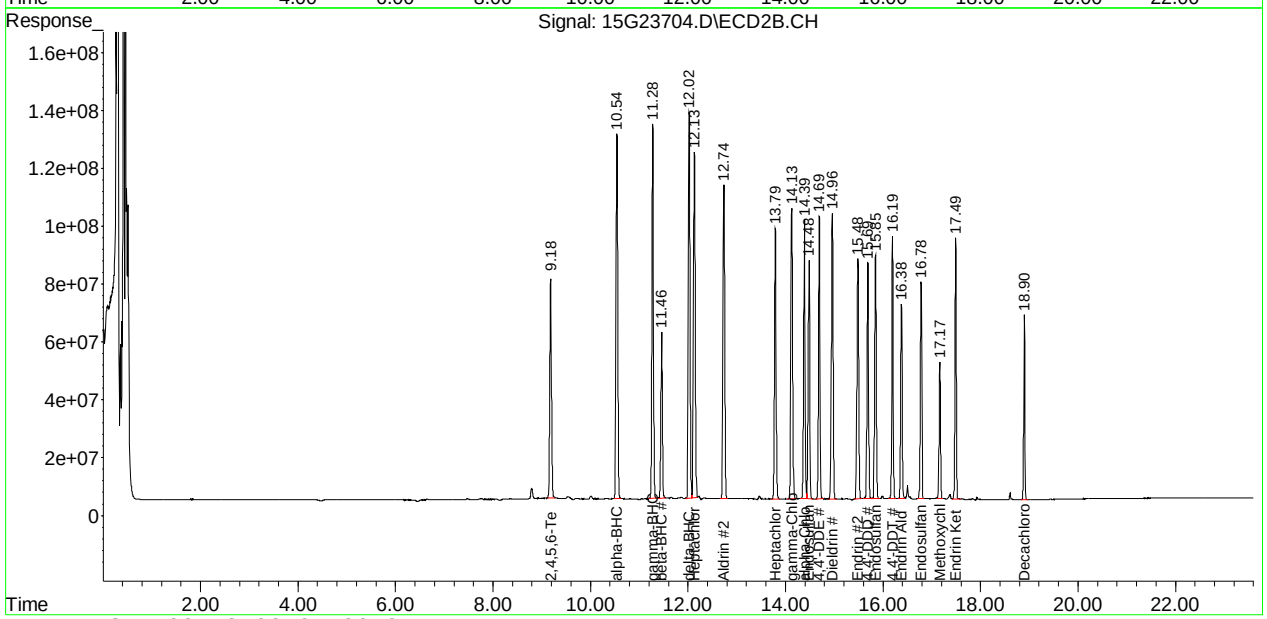
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23704.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 20:21 (#1); 27 Sep 2010 20:49 (#2)
Operator : ECL
Sample : WG343902-03 PEST ICAL 20 PPB
Misc : 1,1 STD40207
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:24 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:22 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23705.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 20:49 (#1); 27 Sep 2010 21:18 (#2)
Operator : ECL
Sample : WG343902-04 PEST ICAL 10 PPB
Misc : 1,1 STD40207
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:40 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:38 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

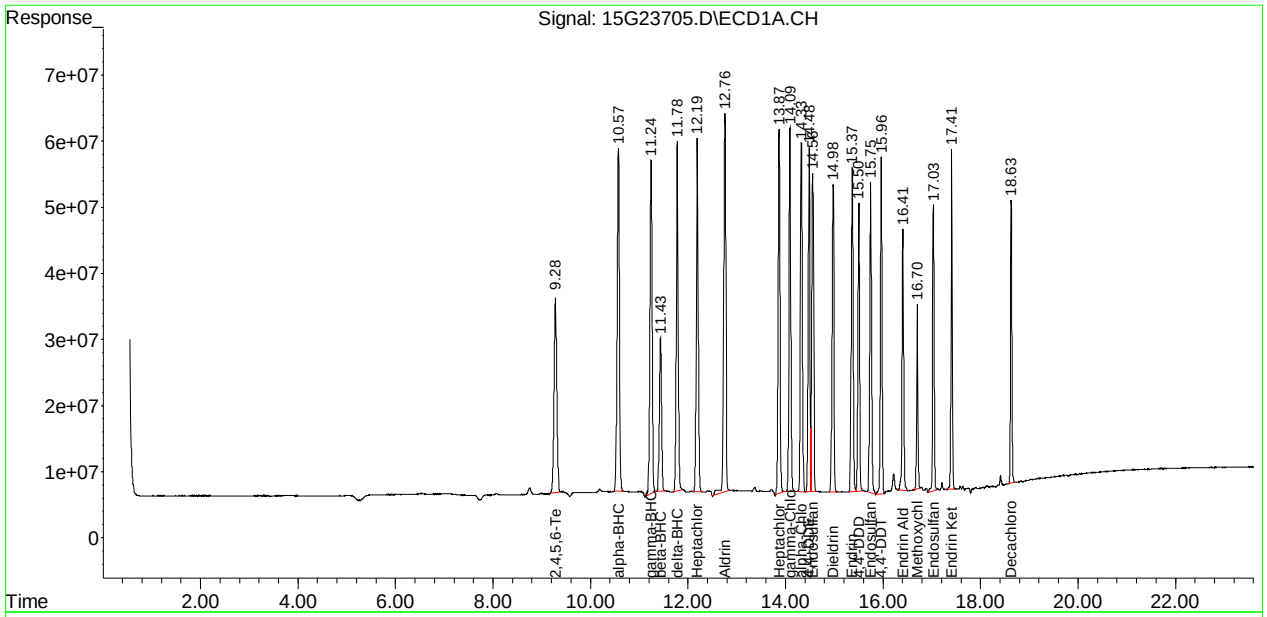
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	1161.3E6	962.6E6	10.318	9.952
	Spiked Amount	20.000	Range 30 - 132		Recovery =	51.59%	49.76%
22) S	Decachlorobiphen	18.63	18.90	811.0E6	603.9E6	10.221	10.375
	Spiked Amount	20.000	Range 36 - 144		Recovery =	51.11%	51.88%
	Target Compounds						
2)	alpha-BHC	10.57	10.54	1672.2E6	1406.5E6	10.062	9.701
3)	gamma-BHC	11.24	11.28	1594.7E6	1449.2E6	10.046	10.145
4)	beta-BHC	11.44	11.46	710.6E6	654.5E6	9.693	10.203
5)	Heptachlor	12.19	12.13	1575.7E6	1416.6E6	9.947	10.539
6)	delta-BHC	11.78	12.03	1526.7E6	1420.6E6	9.452	10.084
7)	Aldrin	12.76	12.74	1663.6E6	1266.4E6	10.852	10.410
8)	Heptachlor Epoxi	13.87	13.79	1480.7E6	1099.8E6	10.604	10.623
9)	gamma-Chlordane	14.09	14.13	1478.3E6	1159.0E6	10.284	10.179
10)	alpha-Chlordane	14.33	14.39	1364.7E6	1109.6E6	10.170	10.132
11)	Endosulfan I	14.56	14.48	1296.0E6	963.5E6	10.607	10.578
12)	4,4'-DDE	14.48	14.69	1298.3E6	1069.7E6	10.262	10.305
13)	Dieldrin	14.98	14.96	1217.4E6	1126.8E6	9.955	10.401
14)	Endrin	15.37	15.49	1262.3E6	951.8E6	10.560	10.601
15)	4,4'-DDD	15.50	15.69	1059.2E6	881.8E6	10.194	10.175
16)	Endosulfan II	15.75	15.85	1210.3E6	955.3E6	10.398	10.351
17)	4,4'-DDT	15.96	16.20	1188.3E6	915.0E6	10.153	10.414
18)	Endrin Aldehyde	16.41	16.38	954.1E6	725.8E6	10.446	10.190
19)	Endosulfan Sulfa	17.03	16.78	951.8E6	731.4E6	10.151	9.603
20)	Methoxychlor	16.70	17.17	590.7E6	452.0E6	10.597	10.703
21)	Endrin Ketone	17.41	17.49	1096.9E6	826.3E6	10.318	10.055

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23705.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 20:49 (#1); 27 Sep 2010 21:18 (#2)
Operator : ECL
Sample : WG343902-04 PEST ICAL 10 PPB
Misc : 1,1 STD40207
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:17:40 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:38 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23706.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 21:18 (#1); 27 Sep 2010 21:46 (#2)
Operator : ECL
Sample : WG343902-05 PEST ICAL 4 PPB
Misc : 1,1 STD40207
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:18:00 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:58 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

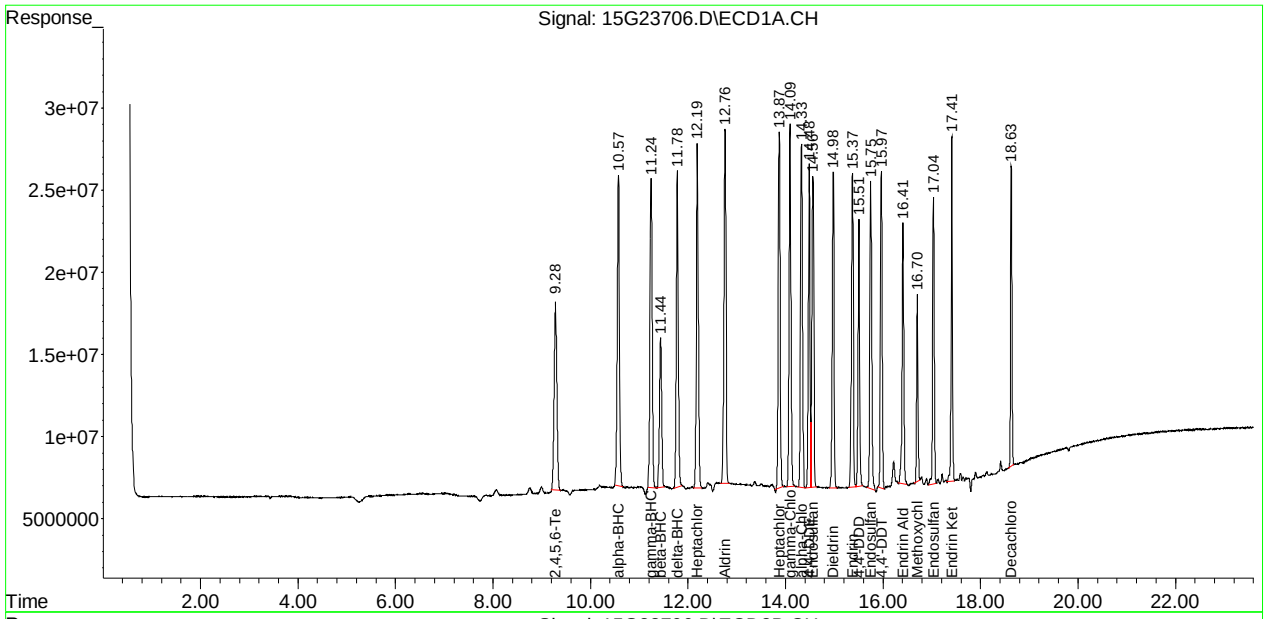
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	447.9E6	394.4E6	3.961	4.112
	Spiked Amount	20.000	Range 30 - 132		Recovery =	19.81%#	20.56%#
22) S	Decachlorobiphen	18.63	18.90	346.4E6	259.9E6	4.345	4.399
	Spiked Amount	20.000	Range 36 - 144		Recovery =	21.73%#	22.00%#
	Target Compounds						
2)	alpha-BHC	10.57	10.54	611.4E6	539.8E6	3.666	3.808
3)	gamma-BHC	11.24	11.28	583.0E6	558.6E6	3.674	3.946
4)	beta-BHC	11.44	11.46	282.5E6	270.4E6	3.939	4.222
5)	Heptachlor	12.19	12.13	617.6E6	570.6E6	3.979	4.224
6)	delta-BHC	11.78	12.03	562.2E6	546.2E6	3.575	3.900
7)	Aldrin	12.76	12.74	606.9E6	499.5E6	3.929	4.097
8)	Heptachlor Epoxi	13.87	13.79	585.7E6	452.5E6	4.156	4.331
9)	gamma-Chlordane	14.09	14.13	590.9E6	462.8E6	4.067	4.070
10)	alpha-Chlordane	14.33	14.39	544.8E6	450.8E6	4.033	4.116
11)	Endosulfan I	14.56	14.48	511.9E6	408.6E6	4.147	4.447
12)	4,4'-DDE	14.49	14.69	489.7E6	418.2E6	3.851	4.020
13)	Dieldrin	14.98	14.96	498.8E6	447.7E6	4.063	4.125
14)	Endrin	15.37	15.49	487.9E6	390.3E6	4.053	4.281
15)	4,4'-DDD	15.51	15.69	399.1E6	345.5E6	3.843	3.995
16)	Endosulfan II	15.75	15.85	485.2E6	389.4E6	4.141	4.217
17)	4,4'-DDT	15.97	16.19	450.8E6	359.7E6	3.842	4.051
18)	Endrin Aldehyde	16.41	16.38	393.7E6	316.4E6	4.315	4.450
19)	Endosulfan Sulfa	17.04	16.78	391.9E6	293.8E6	4.177	3.953
20)	Methoxychlor	16.71	17.17	239.3E6	193.0E6	4.250	4.472
21)	Endrin Ketone	17.41	17.49	450.8E6	333.1E6	4.221	4.088

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23706.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 21:18 (#1); 27 Sep 2010 21:46 (#2)
Operator : ECL
Sample : WG343902-05 PEST ICAL 4 PPB
Misc : 1,1 STD40207
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:18:00 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:17:58 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 21:46 (#1); 27 Sep 2010 22:14 (#2)
Operator : ECL
Sample : WG343902-06 PEST ICAL 1 PPB
Misc : 1,1 STD40207
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:20:07 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:18:56 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

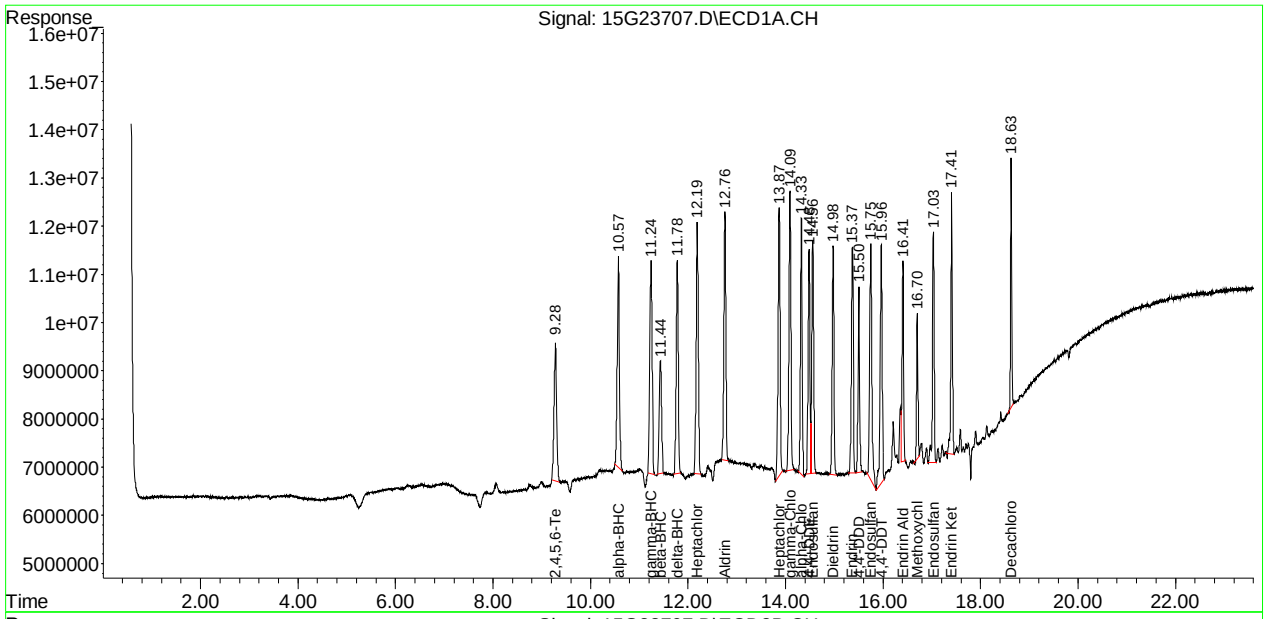
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	111.1E6	103.8E6	0.977	1.087
	Spiked Amount	20.000	Range 30 - 132		Recovery =	4.88%#	5.43%#
22) S	Decachlorobiphen	18.63	18.90	96397305	73528664	1.203	1.221
	Spiked Amount	20.000	Range 36 - 144		Recovery =	6.02%#	6.11%#
	Target Compounds						
2)	alpha-BHC	10.57	10.54	143.7E6	129.0E6	0.861	0.931
3)	gamma-BHC	11.24	11.27	139.1E6	139.8E6	0.892	0.990
4)	beta-BHC	11.44	11.46	71641717	70498702	1.026	1.095
5)	Heptachlor	12.19	12.13	156.3E6	149.6E6	1.031	1.097
6)	delta-BHC	11.78	12.02	131.4E6	133.0E6	0.858	0.952
7)	Aldrin	12.76	12.74	146.3E6	127.1E6	0.942	1.036
8)	Heptachlor Epoxi	13.87	13.79	155.4E6	111.8E6	1.095	1.061
9)	gamma-Chlordane	14.09	14.13	161.7E6	117.2E6	1.091	1.030
10)	alpha-Chlordane	14.33	14.39	137.8E6	119.7E6	1.014	1.089
11)	Endosulfan I	14.56	14.48	131.5E6	103.1E6	1.057	1.107
12)	4,4'-DDE	14.48	14.69	119.1E6	106.2E6	0.933	1.014
13)	Dieldrin	14.98	14.96	124.5E6	115.3E6	1.003	1.057
14)	Endrin	15.37	15.48	121.5E6	96794745	1.001	1.049
15)	4,4'-DDD	15.50	15.69	95781392	88232424	0.922	1.018
16)	Endosulfan II	15.75	15.85	142.7E6	103.4E6	1.201	1.118
17)	4,4'-DDT	15.96	16.19	132.5E6	91287819	1.120	1.014
18)	Endrin Aldehyde	16.41	16.38	97215007	86240097	1.026m	1.170m
19)	Endosulfan Sulfa	17.03	16.78	114.3E6	76367184	1.196	1.059
20)	Methoxychlor	16.70	17.17	60580494	55282548	1.073	1.241
21)	Endrin Ketone	17.41	17.49	124.3E6	86651814	1.141	1.074

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 21:46 (#1); 27 Sep 2010 22:14 (#2)
Operator : ECL
Sample : WG343902-06 PEST ICAL 1 PPB
Misc : 1,1 STD40207
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:20:07 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:18:56 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

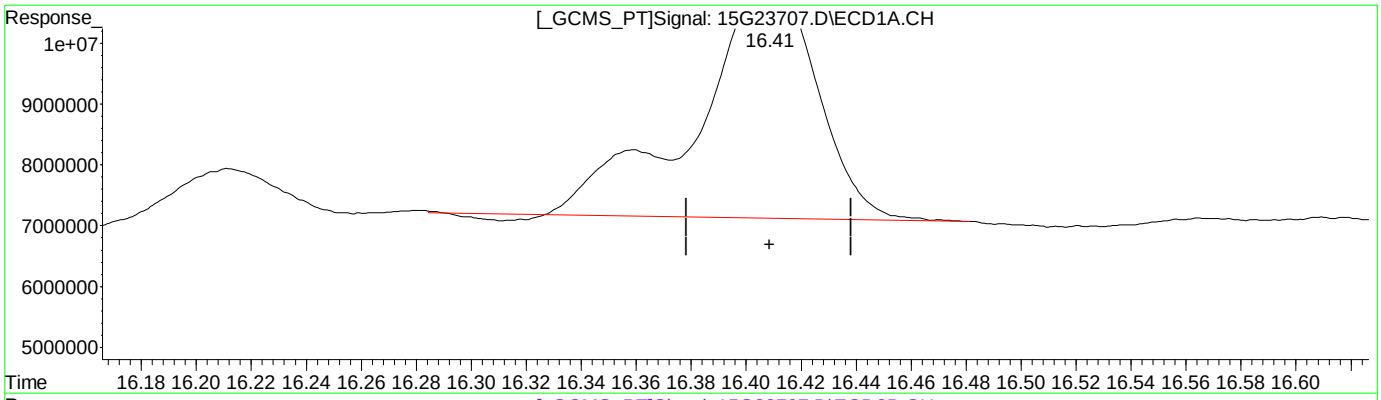


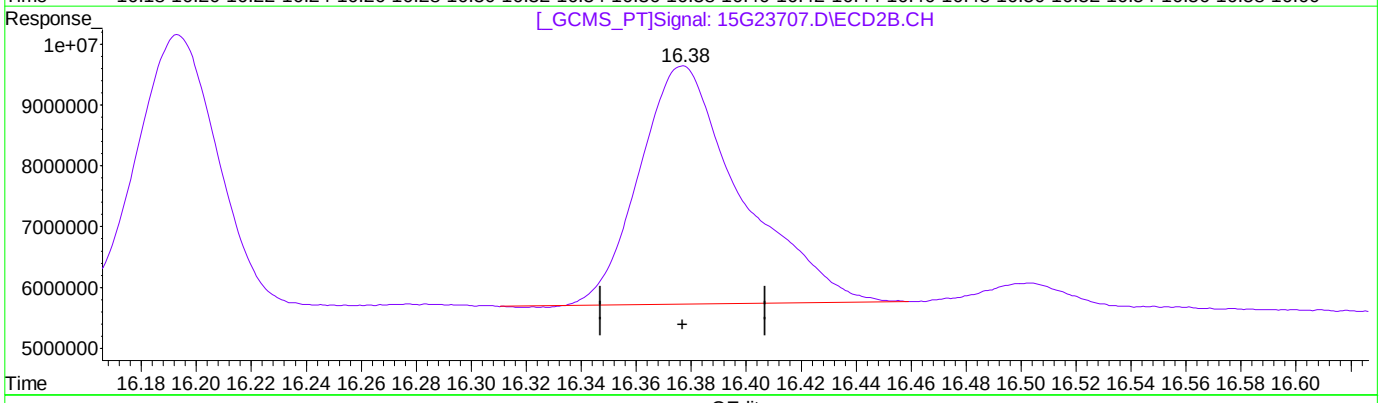
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\092710\
Data File : 15G23707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Sep 2010 21:46 (#1); 27 Sep 2010 22:14 (#2)
Operator : ECL
Sample   : WG343902-06 PEST ICAL 1 PPB
Misc   : 1,1 STD40207
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:18:58 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:18:56 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(18) Endrin Aldehyde

16.41min 1.256UG/L

response 119025064

(18) Endrin Aldehyde #2

16.38min 1.371UG/L

response 101021676

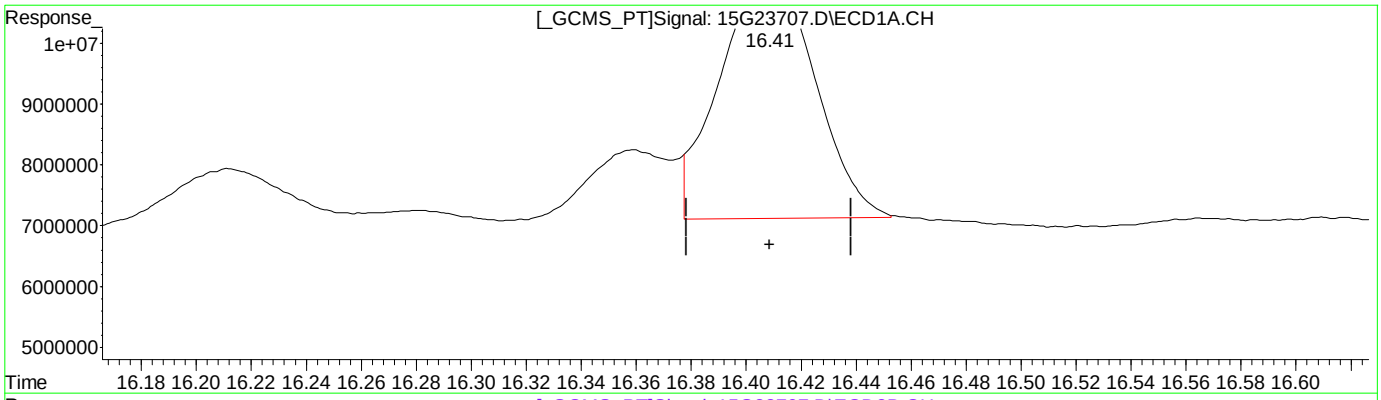
(+) = Expected Retention Time

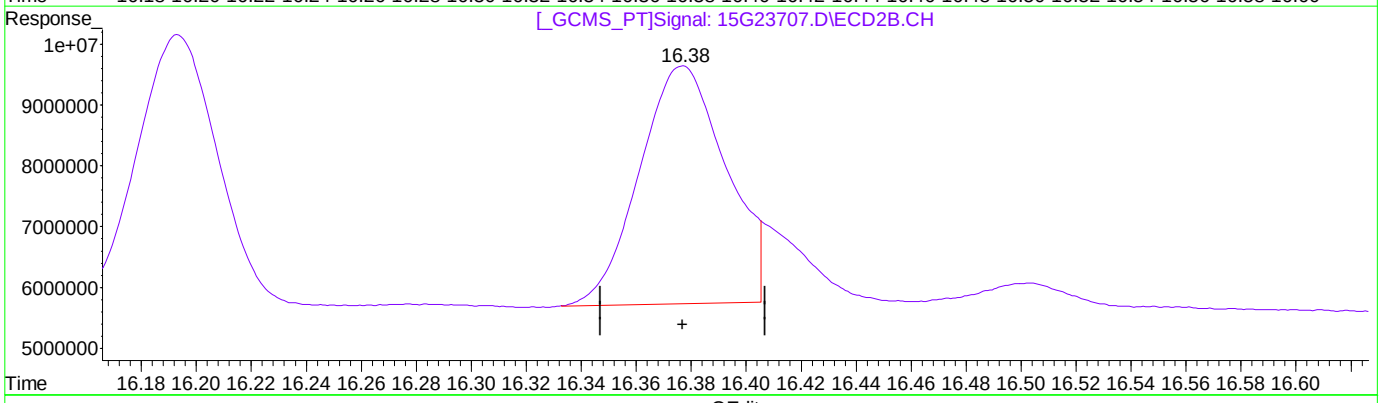
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\092710\
Data File : 15G23707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Sep 2010 21:46 (#1); 27 Sep 2010 22:14 (#2)
Operator : ECL
Sample   : WG343902-06 PEST ICAL 1 PPB
Misc   : 1,1 STD40207
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:18:58 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:18:56 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(18) Endrin Aldehyde

16.41min 1.026UG/L mint

response 97215007

(18) Endrin Aldehyde #2

16.38min 1.170UG/L mint

response 86240097

(+) = Expected Retention Time
8081.M Tue Sep 28 12:20:11 2010

Analyst: 09/28/2010 14:43 Supervisor: 10/01/2010 14:01

Page: 1

#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23708.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 22:14 (#1); 27 Sep 2010 22:43 (#2)
Operator : ECL
Sample : WG343902-07 PEST ALT 20 PPB
Misc : 1,1 STD38730
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:21:13 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:20:31 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

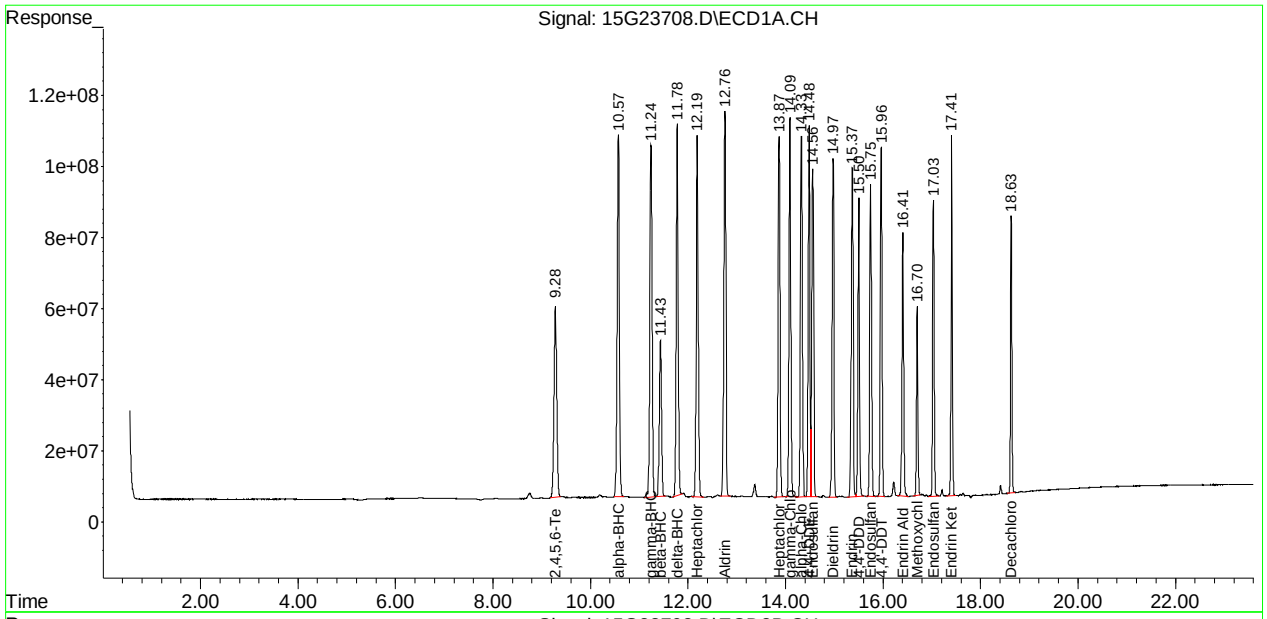
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.28	9.18	2115.1E6	1760.0E6	18.597	18.440
	Spiked Amount	20.000	Range 30 - 132		Recovery =	92.99%	92.20%
22) S	Decachlorobiphen	18.63	18.90	1452.1E6	1080.5E6	18.121	17.940
	Spiked Amount	20.000	Range 36 - 144		Recovery =	90.60%	89.70%
	Target Compounds						
2)	alpha-BHC	10.57	10.54	3314.0E6	2754.1E6	19.855	19.873
3)	gamma-BHC	11.24	11.28	3094.7E6	2776.1E6	19.850	19.658
4)	beta-BHC	11.43	11.46	1362.6E6	1257.6E6	19.511	19.529
5)	Heptachlor	12.19	12.13	3011.2E6	2693.2E6	19.872	19.745
6)	delta-BHC	11.78	12.02	3013.6E6	2770.1E6	19.693	19.820
7)	Aldrin	12.76	12.74	3054.4E6	2402.4E6	19.671	19.585
8)	Heptachlor Epoxi	13.87	13.79	2734.8E6	2087.7E6	19.266	19.819
9)	gamma-Chlordane	14.09	14.13	2812.3E6	2197.2E6	18.972	19.319
10)	alpha-Chlordane	14.33	14.39	2659.1E6	2098.3E6	19.568	19.096
11)	Endosulfan I	14.56	14.48	2480.2E6	1843.7E6	19.943	19.796
12)	4,4'-DDE	14.48	14.69	2602.7E6	2112.4E6	20.379	20.178
13)	Dieldrin	14.98	14.96	2475.9E6	2098.6E6	19.943	19.234
14)	Endrin	15.37	15.48	2402.7E6	1818.1E6	19.795	19.708
15)	4,4'-DDD	15.50	15.69	2058.3E6	1690.7E6	19.820	19.508
16)	Endosulfan II	15.75	15.85	2218.5E6	1769.7E6	18.674	19.133
17)	4,4'-DDT	15.96	16.19	2255.1E6	1766.9E6	19.071	19.633
18)	Endrin Aldehyde	16.41	16.38	1751.1E6	1565.9E6	19.211	21.985
19)	Endosulfan Sulfa	17.03	16.78	1804.0E6	1400.5E6	18.868	19.430
20)	Methoxychlor	16.70	17.17	1124.9E6	849.5E6	19.929	19.065
21)	Endrin Ketone	17.41	17.49	2168.6E6	1628.4E6	19.903	20.187

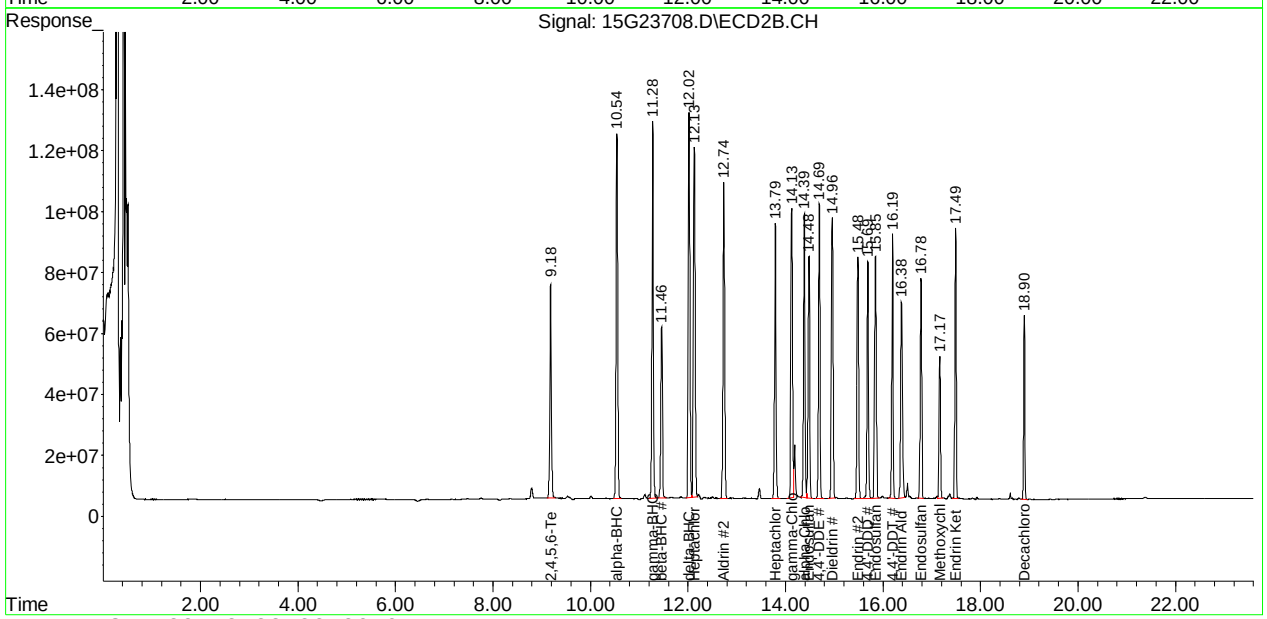
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23708.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 22:14 (#1); 27 Sep 2010 22:43 (#2)
Operator : ECL
Sample : WG343902-07 PEST ALT 20 PPB
Misc : 1,1 STD38730
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:21:13 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Tue Sep 28 12:20:31 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23696.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 16:34 (#1); 27 Sep 2010 17:02 (#2)
Operator : ECL
Sample : WG343903-01 TOX ICAL 2000 PPB
Misc : 1,1 STD40827
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:42:12 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.29	14.93	4675.3E6	1731.6E6	2057.738	1813.515
2)	L1 Toxaphene-2	15.94	15.98	3427.3E6	5887.3E6	1955.600	1844.529
3)	L1 Toxaphene-3	16.90	16.77	5834.6E6	1779.9E6	1987.564	1849.556
4)	L1 Toxaphene-4	17.13	17.11	2687.6E6	4091.5E6	2023.666	1876.894
5)	L1 Toxaphene-5	17.59	17.62	2769.1E6	1658.1E6	2036.688	1862.576
	Sum Toxaphene-1			19394.0E6	15148.4E6	10061.257	9247.069
	Average Toxaphene-1					2012.251	1849.414

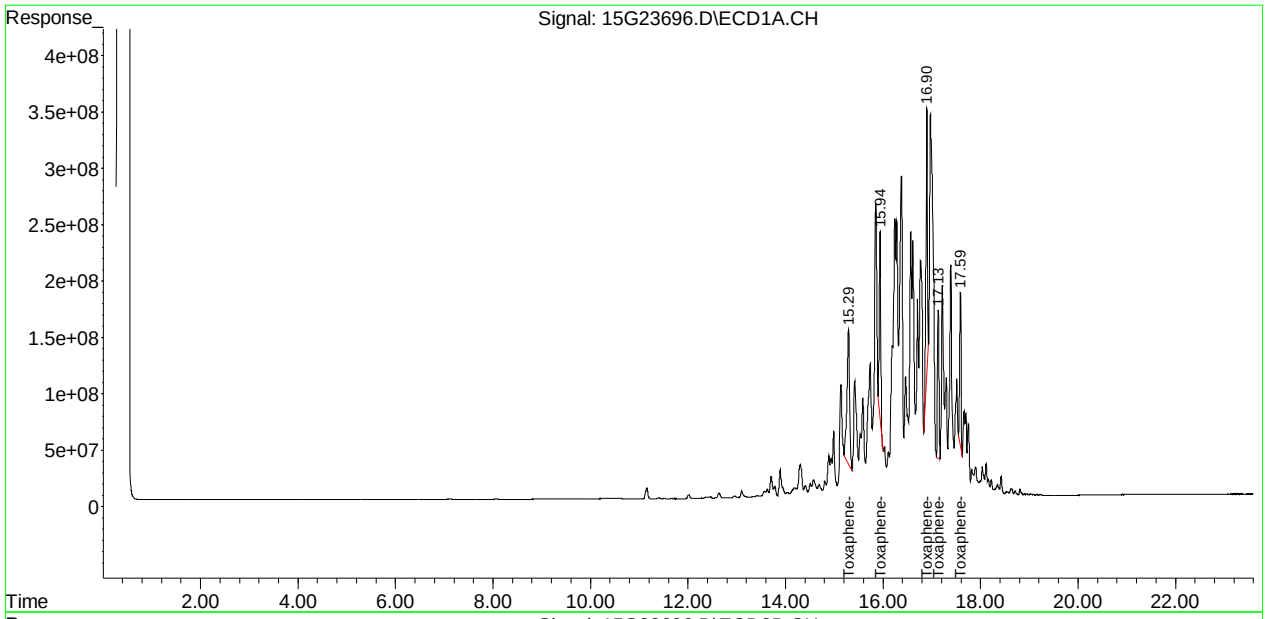
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

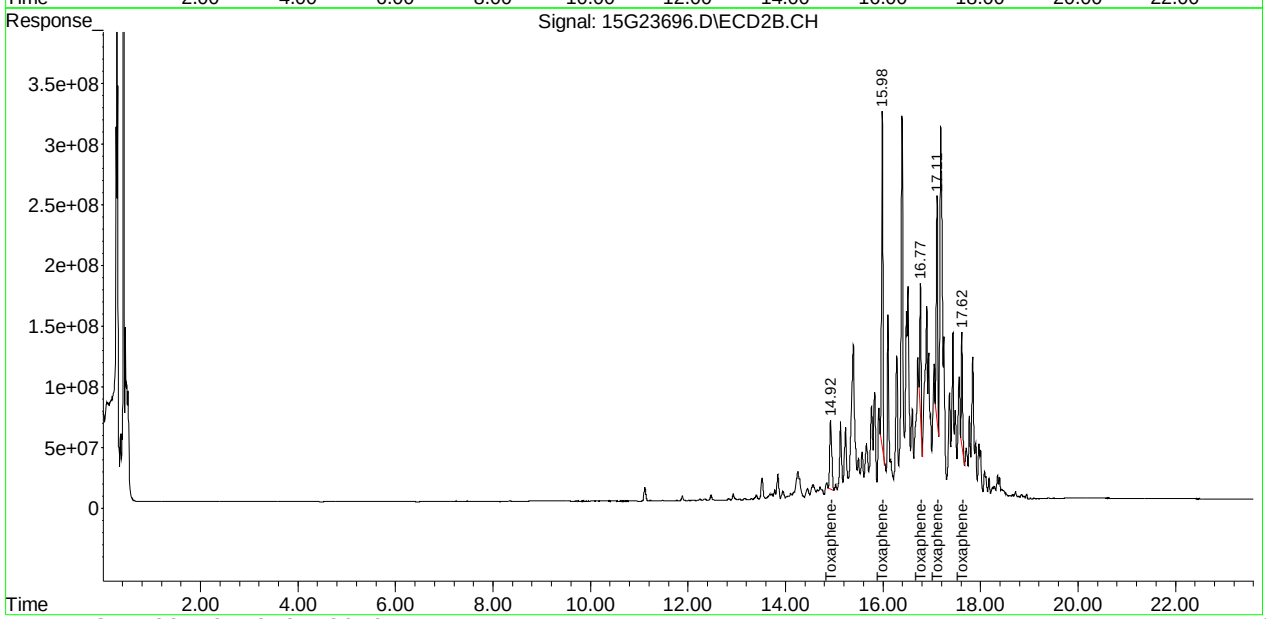
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23696.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 16:34 (#1); 27 Sep 2010 17:02 (#2)
Operator : ECL
Sample : WG343903-01 TOX ICAL 2000 PPB
Misc : 1,1 STD40827
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:42:12 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23697.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:02 (#1); 27 Sep 2010 17:30 (#2)
Operator : ECL
Sample : WG343903-02 TOX ICAL 1000 PPB
Misc : 1,1 STD40827
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:42:16 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.29	14.92	2330.9E6	933.8E6	1025.894	977.986
2)	L1 Toxaphene-2	15.94	15.98	1786.5E6	3188.8E6	1019.382	999.083
3)	L1 Toxaphene-3	16.90	16.77	2863.8E6	969.0E6	975.550	1006.933
4)	L1 Toxaphene-4	17.13	17.11	1346.6E6	2027.7E6	1013.981	930.176
5)	L1 Toxaphene-5	17.59	17.62	1377.6E6	880.7E6	1013.246	989.312
	Sum Toxaphene-1			9705.5E6	8000.1E6	5048.053	4903.489
Average	Toxaphene-1					1009.611	980.698

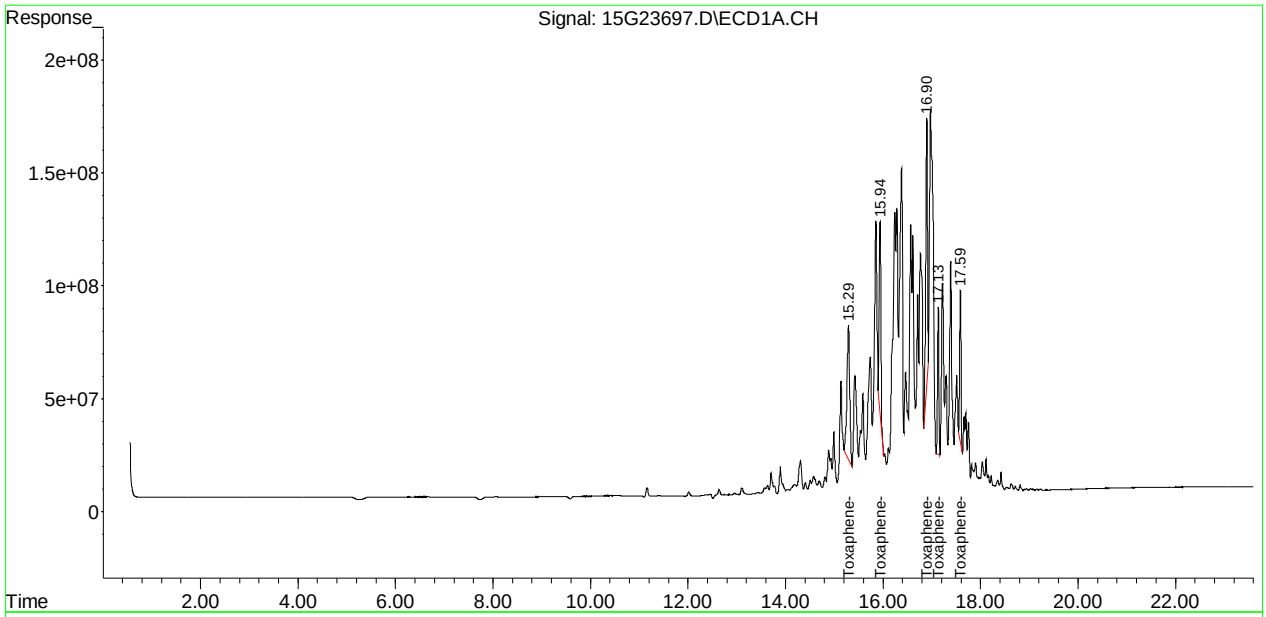
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

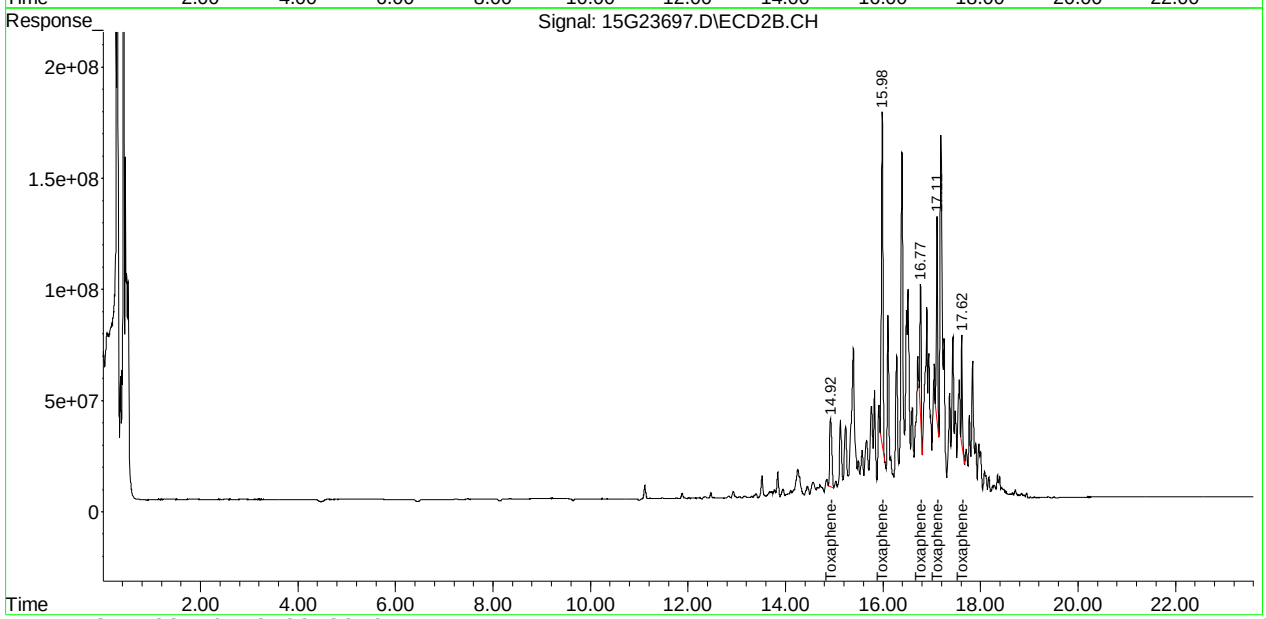
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23697.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:02 (#1); 27 Sep 2010 17:30 (#2)
Operator : ECL
Sample : WG343903-02 TOX ICAL 1000 PPB
Misc : 1,1 STD40827
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:42:16 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





TOX.M Tue Sep 28 10:42:38 2010 Page: 2

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23698.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:30 (#1); 27 Sep 2010 17:59 (#2)
Operator : ECL
Sample : WG343903-03 TOX ICAL 500 PPB
Misc : 1,1 STD40827
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:39:25 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:39:23 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 Toxaphene-1	15.29	14.93	1166.3E6	481.4E6	509.711	484.687
2) L1 Toxaphene-2	15.94	15.98	885.8E6	1629.0E6	505.723	511.929
3) L1 Toxaphene-3	16.90	16.77	1509.6E6	497.7E6	527.095	515.668
4) L1 Toxaphene-4	17.13	17.11	678.2E6	1150.1E6	515.952	546.528
5) L1 Toxaphene-5	17.59	17.62	697.3E6	449.3E6	532.715	470.123
Sum Toxaphene-1			4937.2E6	4207.5E6	2591.196	2528.935
Average Toxaphene-1					518.239	505.787

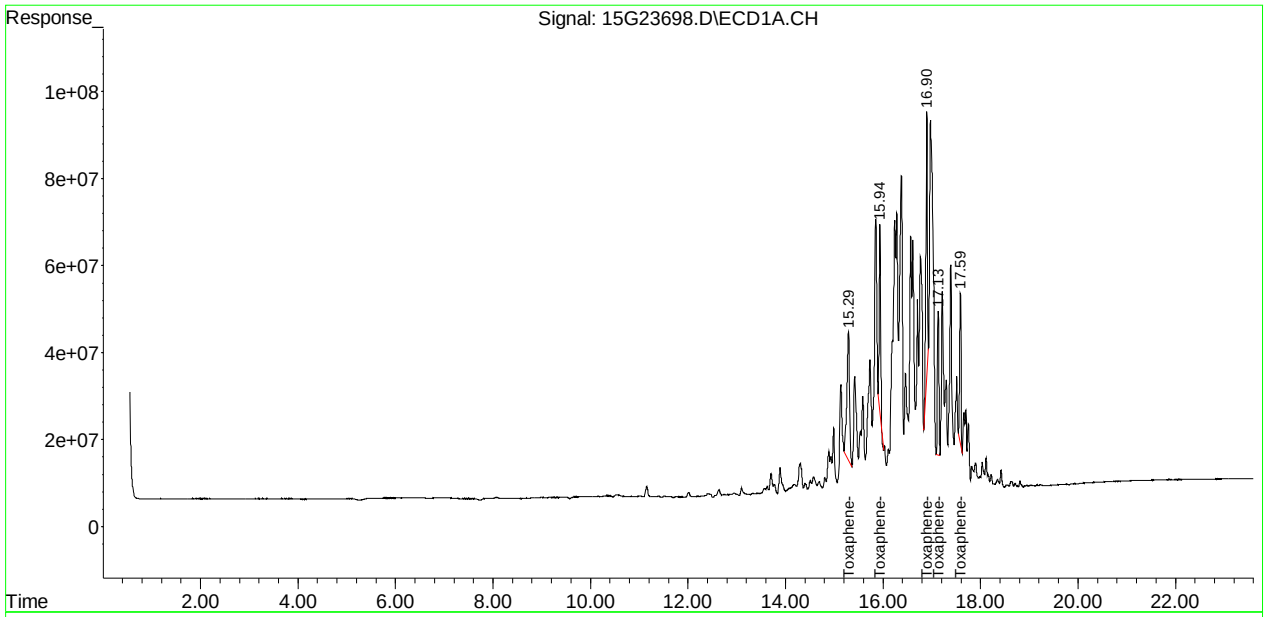
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

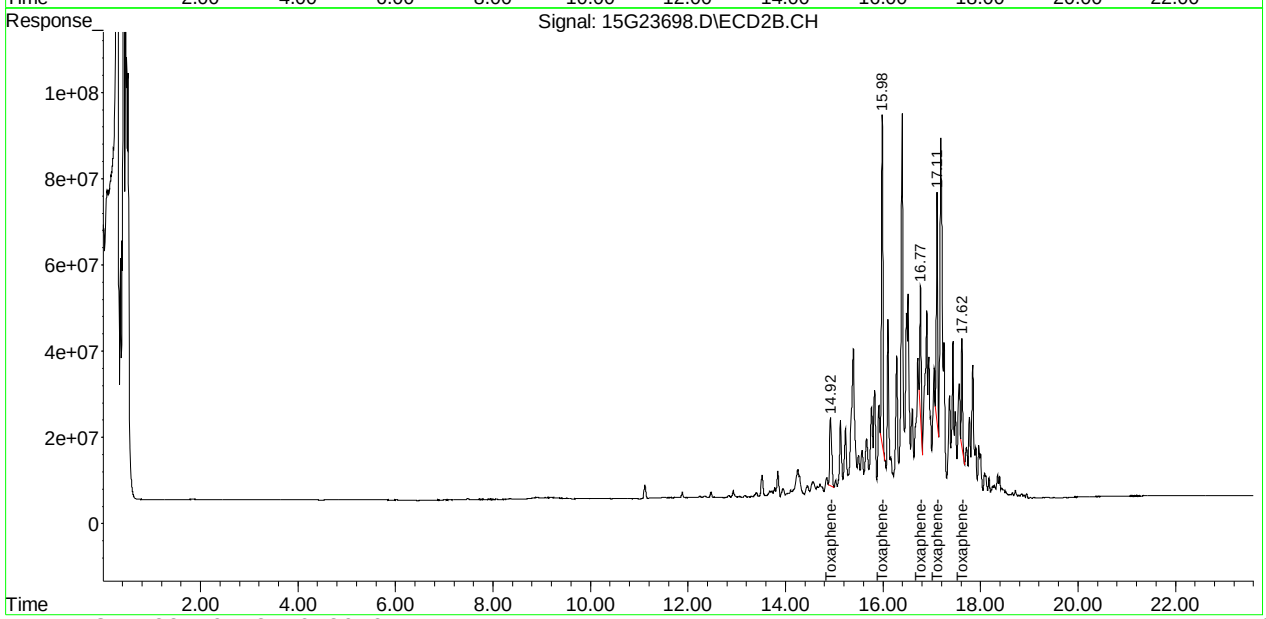
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23698.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:30 (#1); 27 Sep 2010 17:59 (#2)
Operator : ECL
Sample : WG343903-03 TOX ICAL 500 PPB
Misc : 1,1 STD40827
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:39:25 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:39:23 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





TOX.M Tue Sep 28 10:42:40 2010 Page: 2

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23699.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:59 (#1); 27 Sep 2010 18:27 (#2)
Operator : ECL
Sample : WG343903-04 TOX ICAL 200 PPB
Misc : 1,1 STD40827
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:40:43 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:42 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 Toxaphene-1	15.29	14.93	432.0E6	195.9E6	190.243	199.925
2) L1 Toxaphene-2	15.94	15.98	354.4E6	643.9E6	201.119	201.960
3) L1 Toxaphene-3	16.90	16.77	573.4E6	193.0E6	199.960	200.024
4) L1 Toxaphene-4	17.13	17.11	256.4E6	438.9E6	195.244	208.825
5) L1 Toxaphene-5	17.59	17.62	260.2E6	179.4E6	196.520	191.384
Sum Toxaphene-1			1876.5E6	1651.0E6	983.086	1002.118
Average Toxaphene-1					196.617	200.424

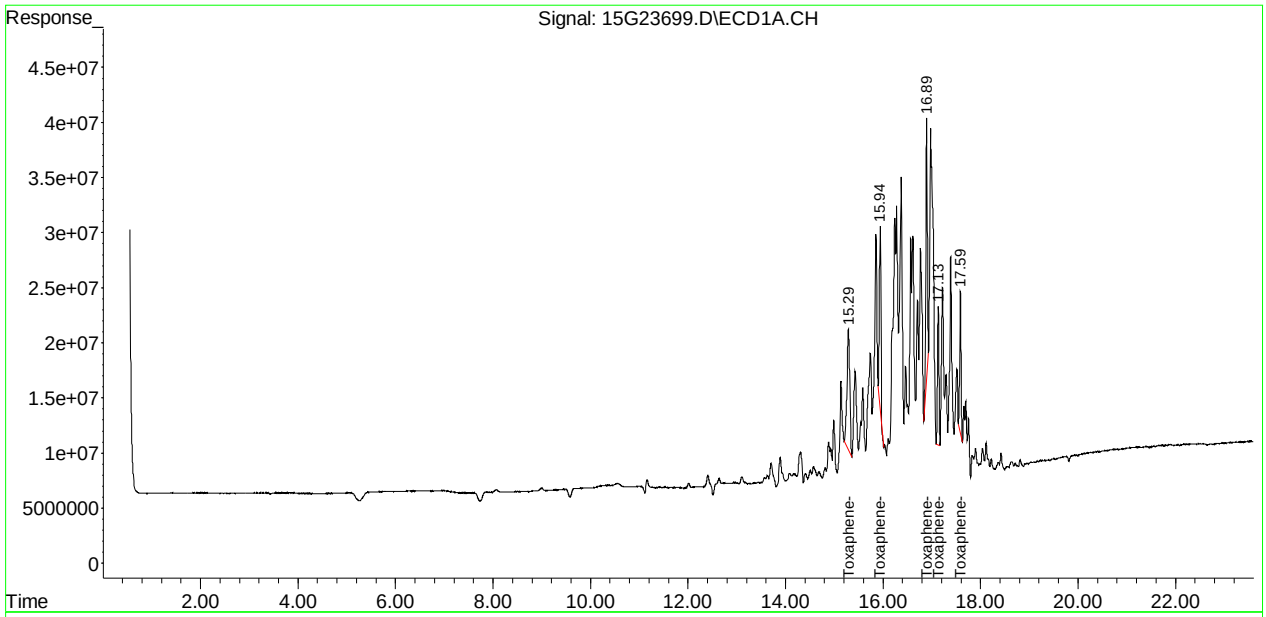
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

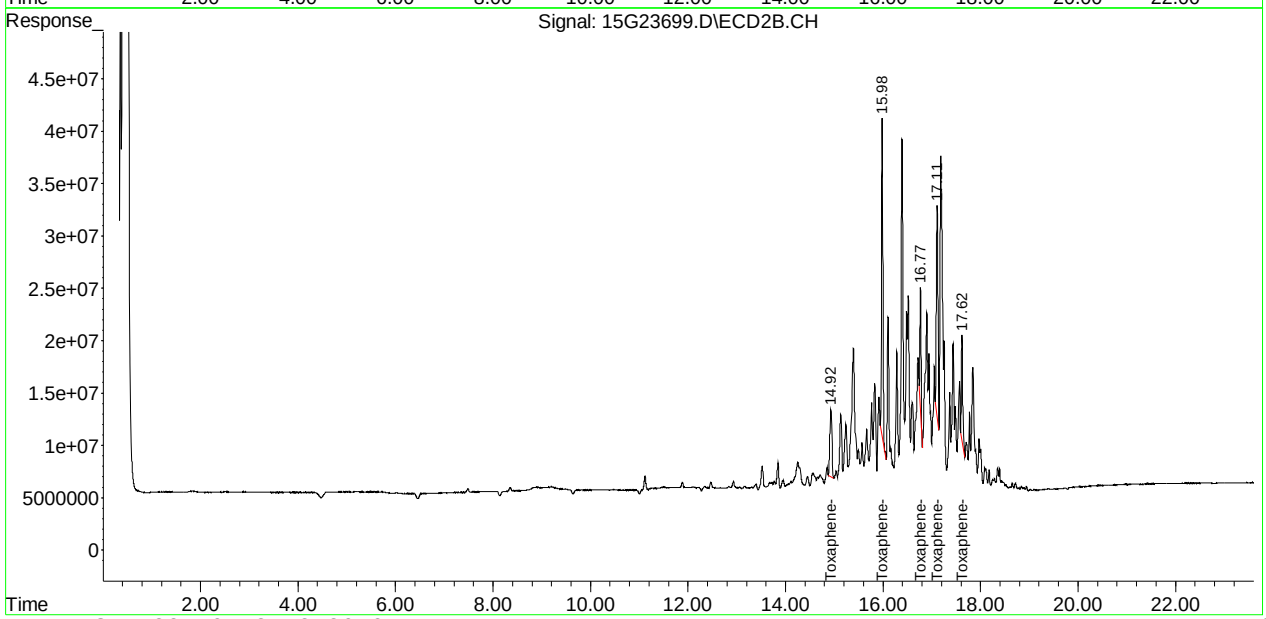
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23699.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 17:59 (#1); 27 Sep 2010 18:27 (#2)
Operator : ECL
Sample : WG343903-04 TOX ICAL 200 PPB
Misc : 1,1 STD40827
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:40:43 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:42 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





TOX.M Tue Sep 28 10:42:42 2010 Page: 2

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23700.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 18:27 (#1); 27 Sep 2010 18:55 (#2)
Operator : ECL
Sample : WG343903-05 TOX ICAL 100 PPB
Misc : 1,1 STD40827
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:40:57 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.29	14.92	219.9E6	103.2E6	96.787	108.132
2)	L1 Toxaphene-2	15.94	15.98	171.9E6	334.9E6	98.080	104.922
3)	L1 Toxaphene-3	16.90	16.77	301.1E6	99244709	102.556	103.129
4)	L1 Toxaphene-4	17.13	17.11	131.2E6	233.2E6	98.755	106.966
5)	L1 Toxaphene-5	17.59	17.62	134.0E6	94559756	98.563	106.223
	Sum Toxaphene-1			958.0E6	865.1E6	494.742	529.373
Average	Toxaphene-1					98.948	105.875

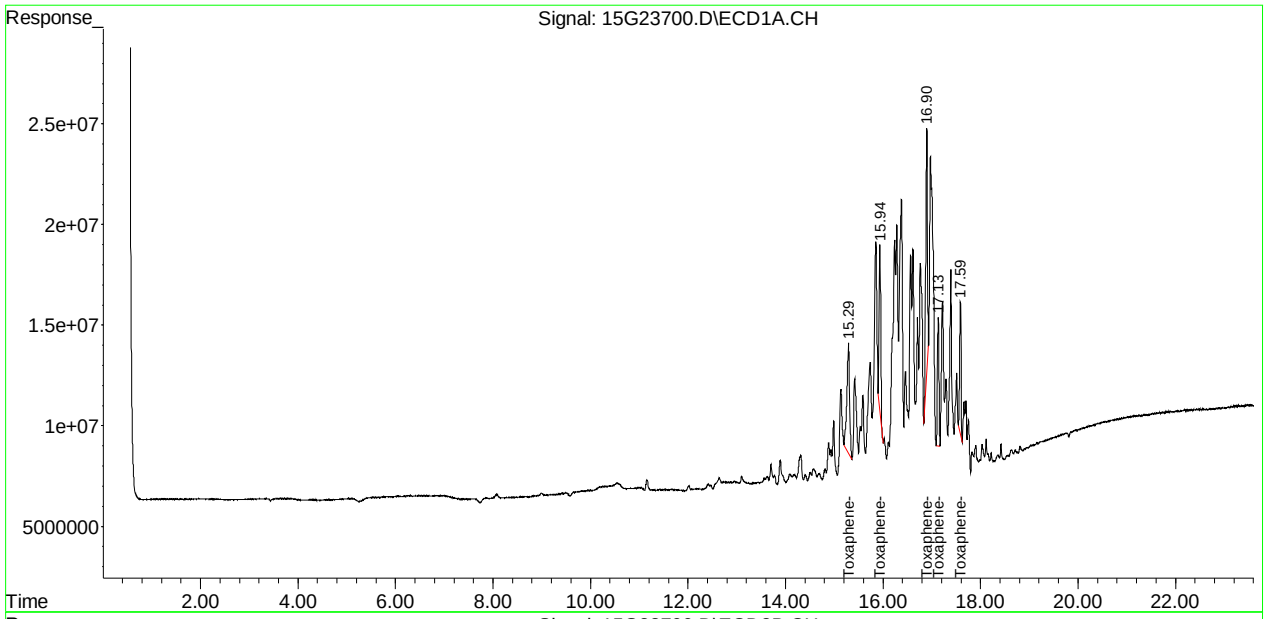
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

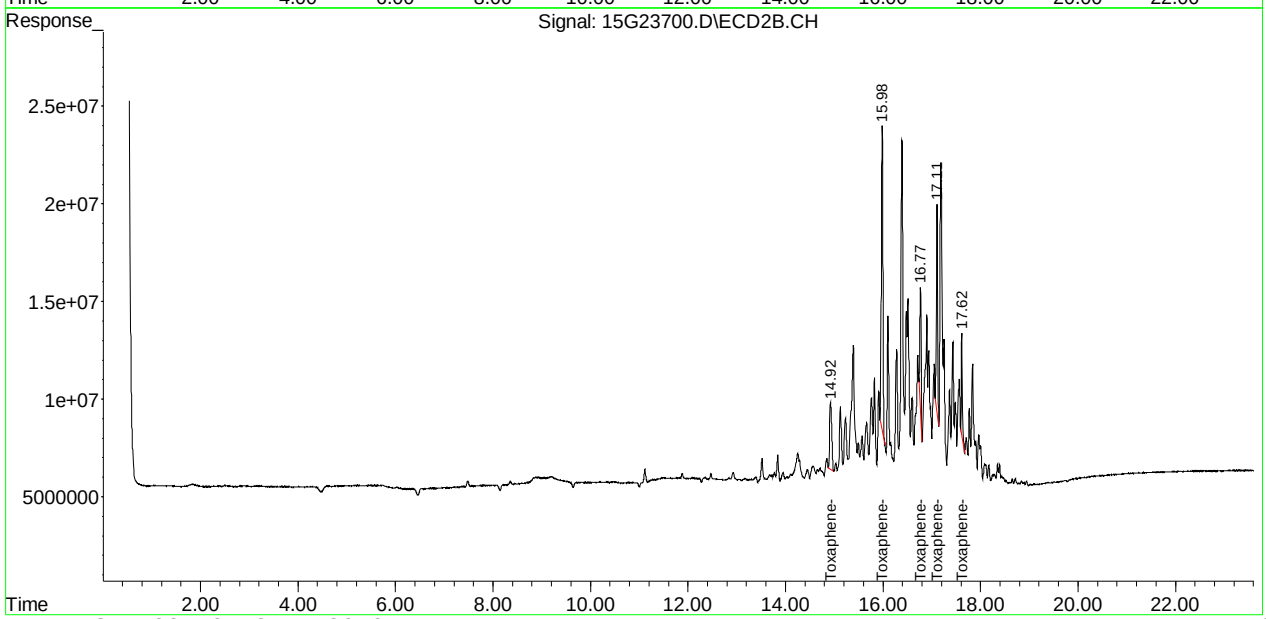
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23700.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 18:27 (#1); 27 Sep 2010 18:55 (#2)
Operator : ECL
Sample : WG343903-05 TOX ICAL 100 PPB
Misc : 1,1 STD40827
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:40:57 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





TOX.M Tue Sep 28 10:42:44 2010 Page: 2

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23701.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 18:55 (#1); 27 Sep 2010 19:24 (#2)
Operator : ECL
Sample : WG343903-06 TOX ALT 500 PPB
Misc : 1,1 STD40828
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:41:47 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 Toxaphene-1	15.26f	14.93	640.5E6	459.1E6	281.914	480.783 #
2) L1 Toxaphene-2	15.93	15.98	969.4E6	1540.4E6	553.128	482.611
3) L1 Toxaphene-3	16.90	16.77	1438.4E6	204.0E6	489.992	211.953 #
4) L1 Toxaphene-4	17.13	17.11	593.0E6	1054.2E6	446.524	483.581
5) L1 Toxaphene-5	17.59	17.62	651.6E6	510.4E6	479.246	573.364
Sum Toxaphene-1			4292.9E6	3768.0E6	2250.804	2232.292
Average Toxaphene-1					450.161	446.458

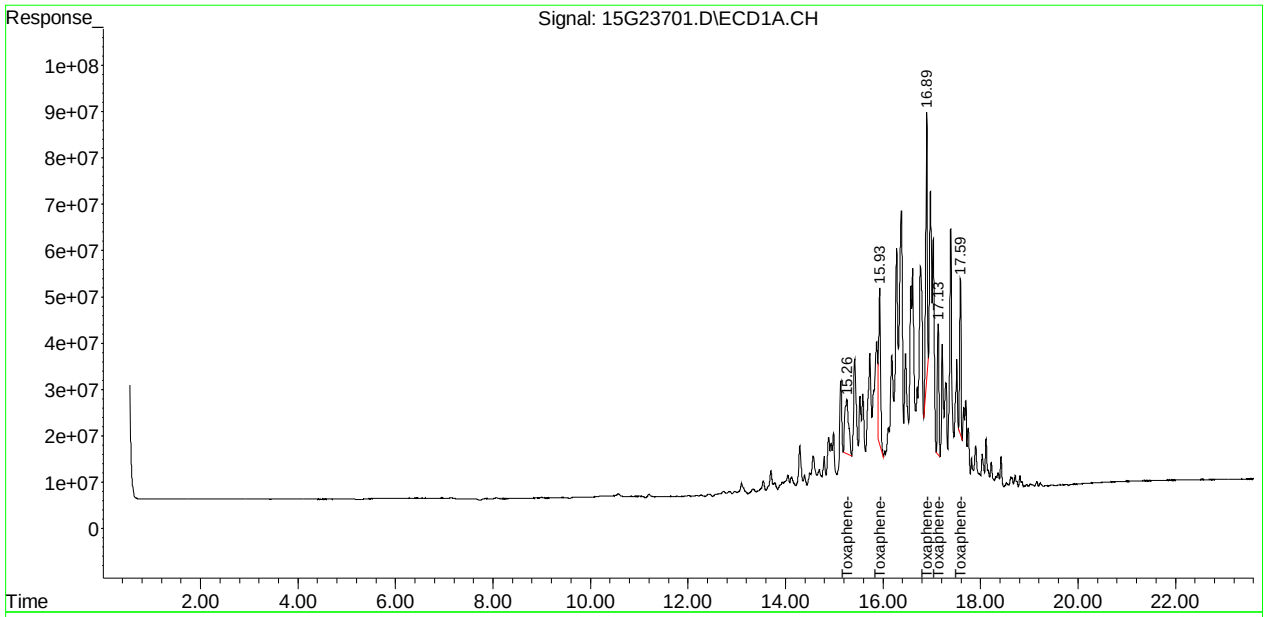
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

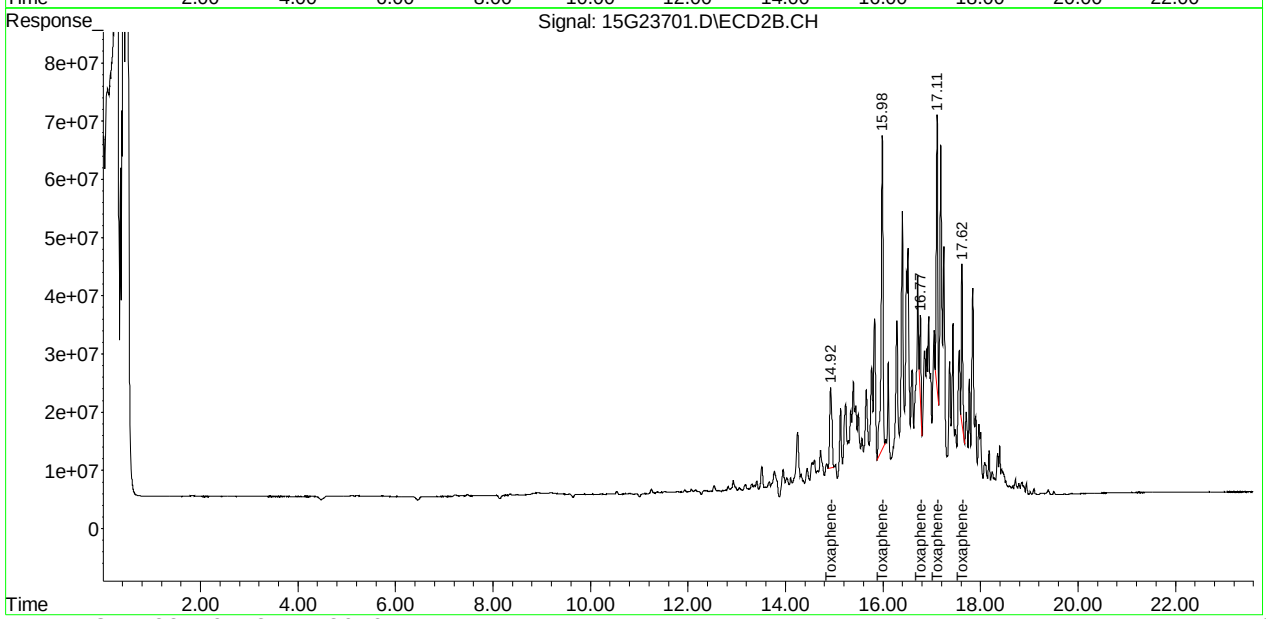
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\092710\
Data File : 15G23701.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2010 18:55 (#1); 27 Sep 2010 19:24 (#2)
Operator : ECL
Sample : WG343903-06 TOX ALT 500 PPB
Misc : 1,1 STD40828
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Sep 28 10:41:47 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Tue Sep 28 10:40:55 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24384.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Dec 2010 11:35 (#1); 14 Dec 2010 12:04 (#2)
Operator : HAV
Sample : WG351417-02 PEST CCV 20 PPB
Misc : 1,1 STD40207
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 14 12:29:43 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.26	9.17	2477.5E6	1928.2E6	21.784	20.202
	Spiked Amount	20.000	Range 30 - 132	Recovery =		108.92%	101.01%
22) S	Decachlorobiphen	18.62	18.89	1672.7E6	1163.5E6	20.874	19.317
	Spiked Amount	20.000	Range 36 - 144	Recovery =		104.37%	96.58%
	Target Compounds						
2)	alpha-BHC	10.55	10.53	3811.4E6	2997.6E6	22.836	21.630
3)	gamma-BHC	11.22	11.26	3536.7E6	2804.6E6	22.686	19.860
4)	beta-BHC	11.42	11.45	1525.8E6	1210.7E6	21.847	18.800
5)	Heptachlor	12.17	12.12	3300.8E6	2728.9E6	21.783	20.006
6)	delta-BHC	11.76	12.01	3610.8E6	3071.7E6	23.596	21.978
7)	Aldrin	12.74	12.72	3093.7E6	2622.2E6	19.924	21.376
8)	Heptachlor Epoxi	13.85	13.78	3194.6E6	2308.5E6	22.505	21.915
9)	gamma-Chlordane	14.07	14.11	3252.5E6	2489.4E6	21.942	21.888
10)	alpha-Chlordane	14.31	14.37	3082.8E6	2361.1E6	22.685	21.488
11)	Endosulfan I	14.54	14.47	2802.9E6	2069.5E6	22.539	22.220
12)	4,4'-DDE	14.46	14.68	2894.9E6	2258.2E6	22.667	21.571
13)	Dieldrin	14.95	14.95	2853.9E6	2392.8E6	22.988	21.931
14)	Endrin	15.35	15.47	2556.1E6	1831.1E6	21.059	19.849
15)	4,4'-DDD	15.48	15.68	2451.3E6	1954.3E6	23.605	22.550
16)	Endosulfan II	15.73	15.83	2503.8E6	2009.8E6	21.075	21.730
17)	4,4'-DDT	15.95	16.18	2314.2E6	1792.2E6	19.571	19.915
18)	Endrin Aldehyde	16.39	16.36	1907.2E6	1450.1E6	20.923	20.360
19)	Endosulfan Sulfa	17.01	16.77	2141.7E6	1758.7E6	22.400	24.398
20)	Methoxychlor	16.69	17.16	1105.3E6	808.0E6	19.583	18.133
21)	Endrin Ketone	17.39	17.48	2505.8E6	1953.8E6	22.998	24.221

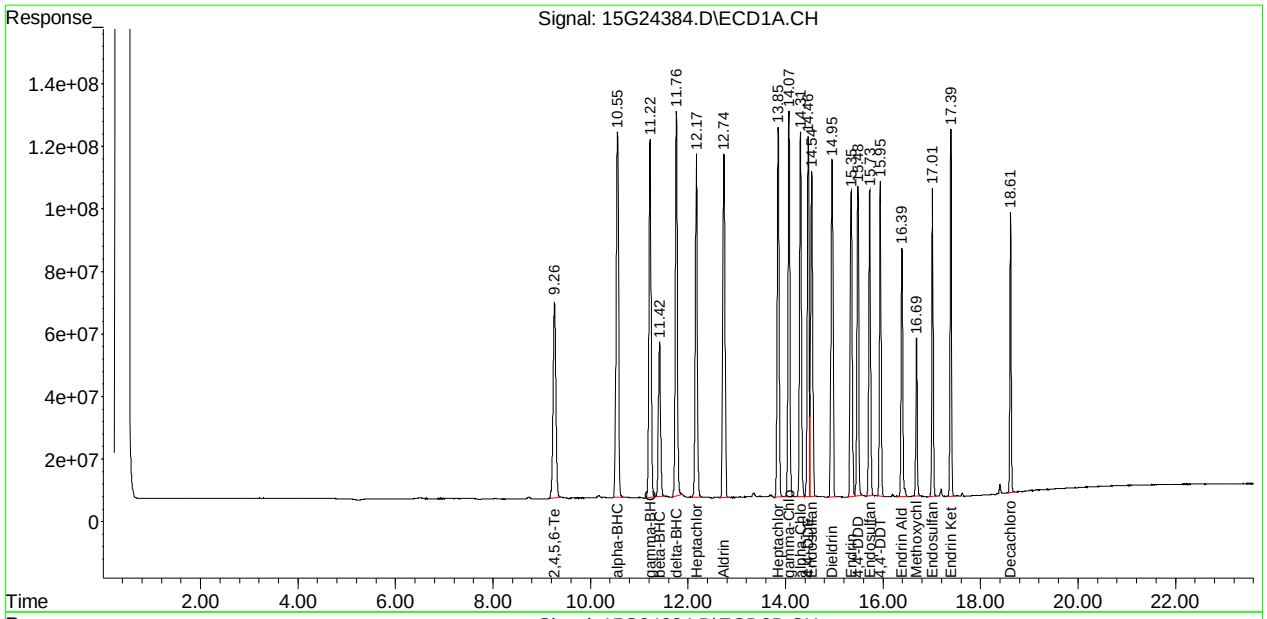
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24384.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Dec 2010 11:35 (#1); 14 Dec 2010 12:04 (#2)
Operator : HAV
Sample : WG351417-02 PEST CCV 20 PPB
Misc : 1,1 STD40207
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 14 12:29:43 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24385.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Dec 2010 12:04 (#1); 14 Dec 2010 12:32 (#2)
Operator : HAV
Sample : WG351418-01 TOX CCV 500 PPB
Misc : 1,1 STD40827
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 15 08:25:07 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Thu Dec 09 11:39:15 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 Toxaphene-1	15.27	14.91	1223.5E6	560.3E6	538.477	586.846
2) L1 Toxaphene-2	15.92	15.97	915.1E6	1679.4E6	522.174	526.172
3) L1 Toxaphene-3	16.88	16.75	1599.1E6	528.2E6	544.724	548.848
4) L1 Toxaphene-4	17.11	17.10	533.2E6	1140.4E6	401.488	523.123 #
5) L1 Toxaphene-5	17.57	17.61	681.9E6	473.8E6	501.528	532.255
Sum Toxaphene-1			4952.8E6	4382.1E6	2508.391	2717.244
Average Toxaphene-1					501.678	543.449

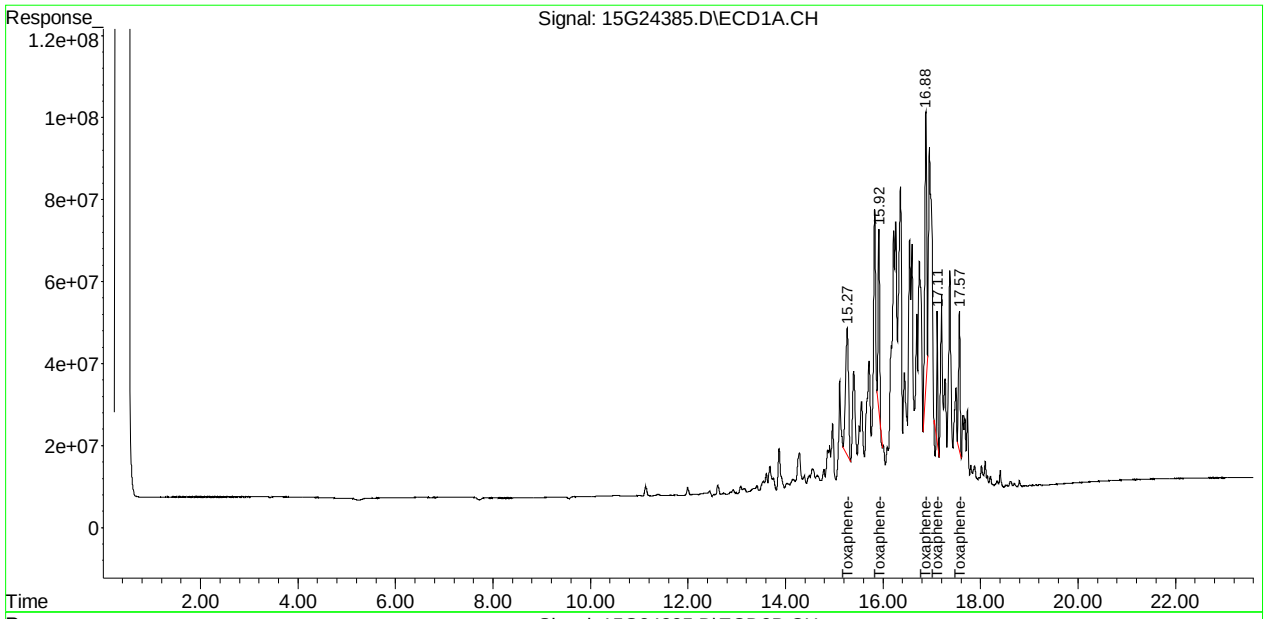
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

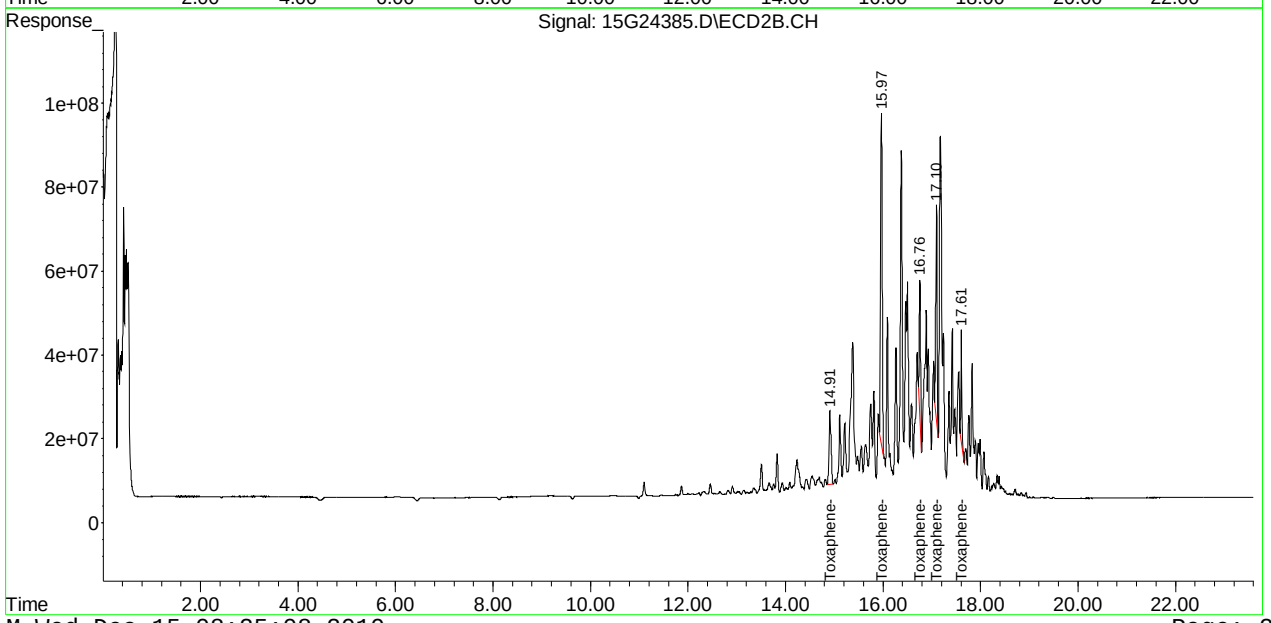
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24385.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Dec 2010 12:04 (#1); 14 Dec 2010 12:32 (#2)
Operator : HAV
Sample : WG351418-01 TOX CCV 500 PPB
Misc : 1,1 STD40827
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 15 08:25:07 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Thu Dec 09 11:39:15 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24398.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Dec 2010 18:12 (#1); 14 Dec 2010 18:40 (#2)
Operator : HAV
Sample : WG351417-03 PEST CCV 10 PPB
Misc : 1,1 STD40207
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 15 09:02:26 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.26	9.17	1256.3E6	973.5E6	11.047	10.200
	Spiked Amount	20.000	Range 30 - 132		Recovery =	55.23%	51.00%
22) S	Decachlorobiphen	18.62	18.89	890.0E6	613.0E6	11.107	10.177
	Spiked Amount	20.000	Range 36 - 144		Recovery =	55.54%	50.89%
	Target Compounds						
2)	alpha-BHC	10.55	10.53	1868.8E6	1422.6E6	11.197	10.265
3)	gamma-BHC	11.22	11.26	1800.1E6	1388.7E6	11.546	9.834
4)	beta-BHC	11.41	11.44	796.5E6	618.2E6	11.404	9.600
5)	Heptachlor	12.17	12.11	1707.7E6	1334.4E6	11.270	9.783
6)	delta-BHC	11.76	12.01	1786.7E6	1414.9E6	11.676	10.123
7)	Aldrin	12.73	12.72	1631.8E6	1315.5E6	10.509	10.724
8)	Heptachlor Epoxi	13.85	13.78	1644.4E6	950.5E6	11.585	9.023
9)	gamma-Chlordane	14.07	14.11	1664.6E6	1245.5E6	11.230	10.950
10)	alpha-Chlordane	14.30	14.37	1475.6E6	1193.5E6	10.859	10.862
11)	Endosulfan I	14.53	14.46	1420.6E6	883.5E6	11.423	9.486
12)	4,4'-DDE	14.46	14.68	1490.4E6	1121.0E6	11.670	10.708
13)	Dieldrin	14.95	14.94	1214.4E6	1199.9E6	9.782	10.998
14)	Endrin	15.35	15.47	1344.0E6	843.2E6	11.073	9.140
15)	4,4'-DDD	15.48	15.67	1224.5E6	1007.3E6	11.792	11.622
16)	Endosulfan II	15.73	15.83	1335.4E6	1021.3E6	11.241	11.042
17)	4,4'-DDT	15.94	16.18	1275.1E6	878.8E6	10.783	9.765
18)	Endrin Aldehyde	16.39	16.36	1066.6E6	677.6E6	11.701	9.513
19)	Endosulfan Sulfa	17.01	16.77	1109.3E6	890.3E6	11.602	12.351
20)	Methoxychlor	16.69	17.15	583.4E6	417.0E6	10.336	9.358
21)	Endrin Ketone	17.39	17.48	1288.4E6	982.4E6	11.825	12.179

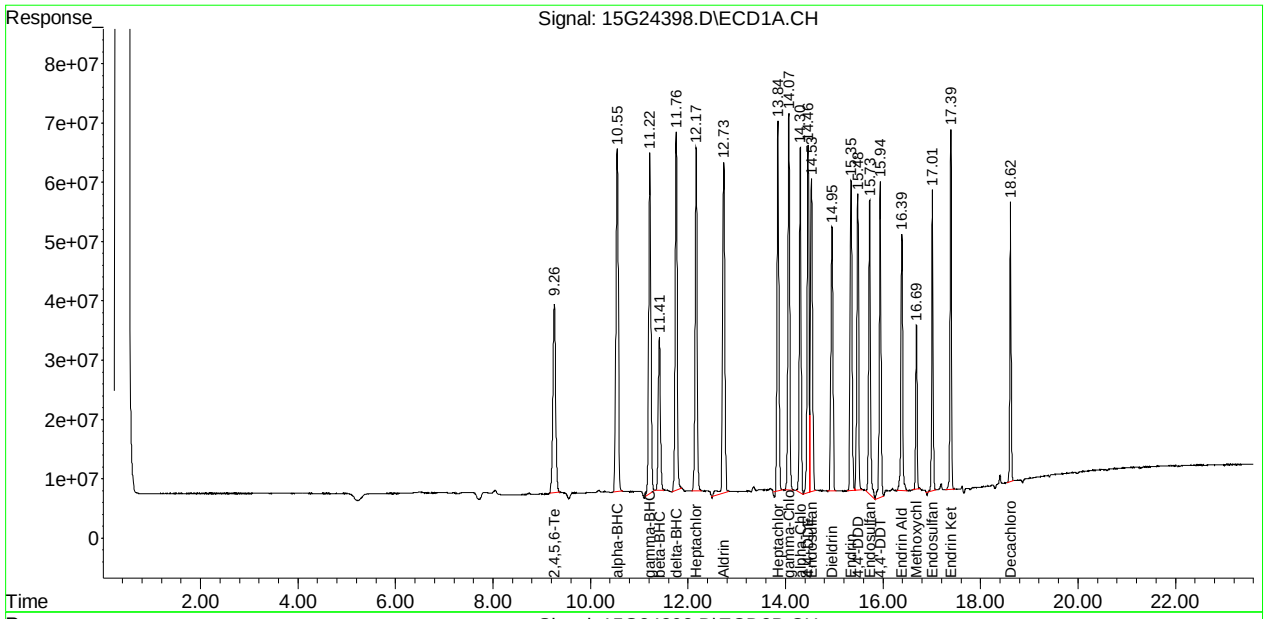
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24398.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Dec 2010 18:12 (#1); 14 Dec 2010 18:40 (#2)
Operator : HAV
Sample : WG351417-03 PEST CCV 10 PPB
Misc : 1,1 STD40207
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 15 09:02:26 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24399.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Dec 2010 18:40 (#1); 14 Dec 2010 19:09 (#2)
Operator : HAV
Sample : WG351418-02 TOX CCV 200 PPB
Misc : 1,1 STD40827
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 15 08:20:55 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Thu Dec 09 11:39:15 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.26	14.91	468.0E6	224.6E6	205.971	235.236
2)	L1 Toxaphene-2	15.92	15.97	364.1E6	631.6E6	207.743	197.891
3)	L1 Toxaphene-3	16.88	16.76	621.6E6	205.3E6	211.742	213.294
4)	L1 Toxaphene-4	17.11	17.10	280.6E6	426.6E6	211.267	195.709
5)	L1 Toxaphene-5	17.57	17.61	258.0E6	177.3E6	189.739	199.218
	Sum Toxaphene-1			1992.2E6	1665.5E6	1026.463	1041.348
Average	Toxaphene-1					205.293	208.270

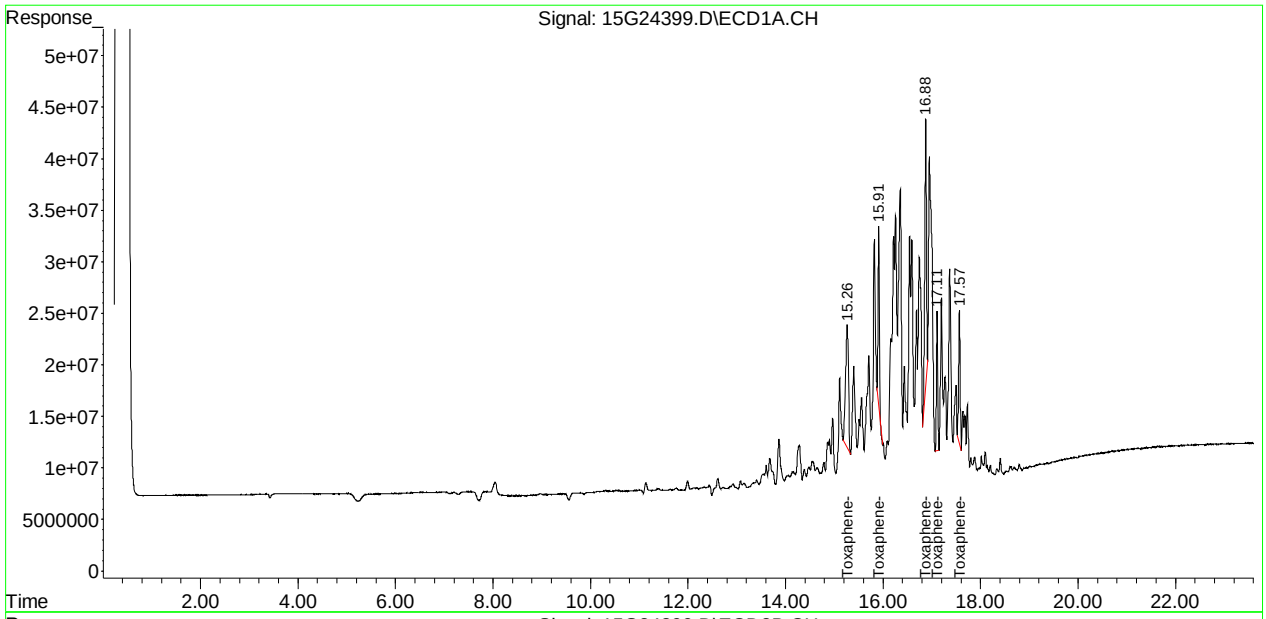
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

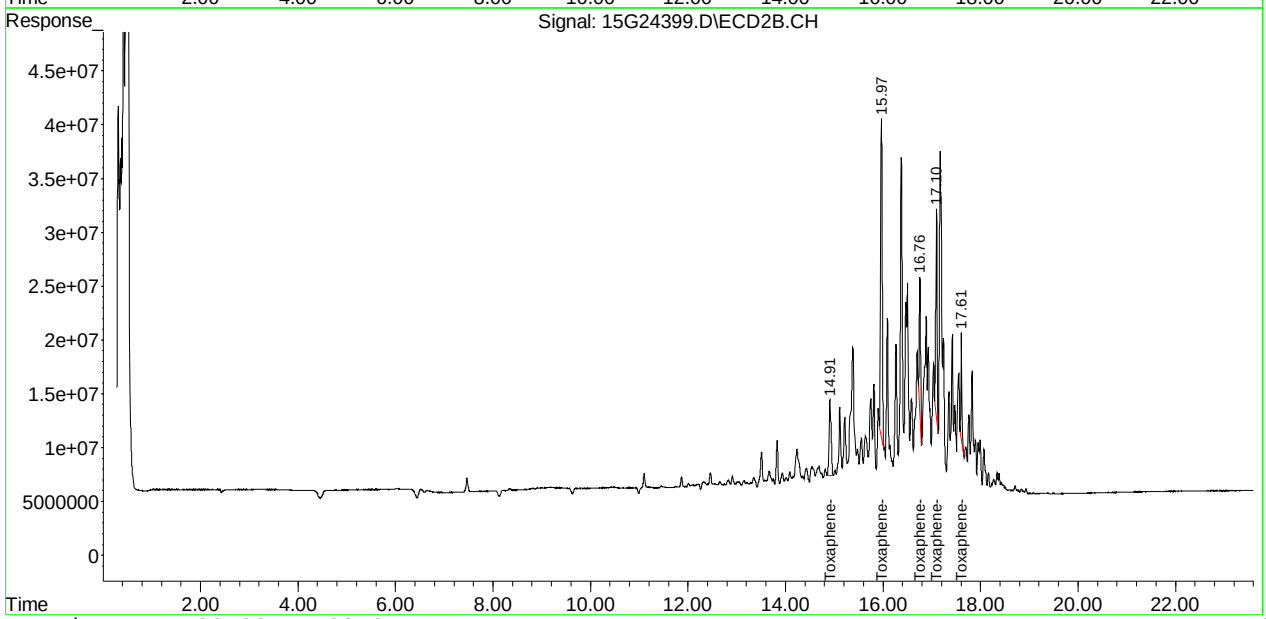
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24399.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Dec 2010 18:40 (#1); 14 Dec 2010 19:09 (#2)
Operator : HAV
Sample : WG351418-02 TOX CCV 200 PPB
Misc : 1,1 STD40827
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 15 08:20:55 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Thu Dec 09 11:39:15 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





TOX.M Wed Dec 15 08:23:51 2010 Page: 2

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24413.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Dec 2010 1:17 (#1); 15 Dec 2010 1:45 (#2)
Operator : HAV
Sample : WG351417-05 PEST CCV 20 PPB
Misc : 1,1 STD40207
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 15 09:04:06 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.26	9.17	2456.2E6	1911.5E6	21.597	20.027
	Spiked Amount	20.000	Range 30 - 132		Recovery =	107.99%	100.13%
22) S	Decachlorobiphen	18.61	18.89	1456.5E6	1000.2E6	18.176	16.606
	Spiked Amount	20.000	Range 36 - 144		Recovery =	90.88%	83.03%
	Target Compounds						
2)	alpha-BHC	10.55	10.53	3754.2E6	2895.8E6	22.493	20.895
3)	gamma-BHC	11.22	11.26	3499.1E6	2757.3E6	22.445	19.525
4)	beta-BHC	11.41	11.44	1527.5E6	1189.1E6	21.871	18.464
5)	Heptachlor	12.17	12.12	3253.0E6	2576.7E6	21.468	18.891
6)	delta-BHC	11.76	12.01	3574.1E6	2824.2E6	23.356	20.207
7)	Aldrin	12.73	12.72	2999.8E6	2536.2E6	19.319	20.675
8)	Heptachlor Epoxi	13.84	13.78	3088.5E6	2077.3E6	21.758	19.720
9)	gamma-Chlordane	14.07	14.11	3128.3E6	2327.0E6	21.104	20.460
10)	alpha-Chlordane	14.30	14.37	2917.6E6	2207.0E6	21.470	20.085
11)	Endosulfan I	14.53	14.46	2666.3E6	1817.0E6	21.440	19.508
12)	4,4'-DDE	14.46	14.68	2793.2E6	2088.6E6	21.871	19.951
13)	Dieldrin	14.95	14.94	2717.7E6	2216.4E6	21.891	20.314
14)	Endrin	15.34	15.47	2472.2E6	1673.0E6	20.367	18.135
15)	4,4'-DDD	15.48	15.68	2292.1E6	1783.7E6	22.073	20.581
16)	Endosulfan II	15.72	15.83	2352.8E6	1832.9E6	19.804	19.817
17)	4,4'-DDT	15.94	16.18	2160.3E6	1594.0E6	18.270	17.712
18)	Endrin Aldehyde	16.39	16.36	1807.5E6	1255.5E6	19.830	17.627
19)	Endosulfan Sulfa	17.01	16.77	1913.6E6	1533.3E6	20.015	21.271
20)	Methoxychlor	16.68	17.16	1015.4E6	699.7E6	17.989	15.704
21)	Endrin Ketone	17.39	17.48	2191.0E6	1652.7E6	20.108	20.488

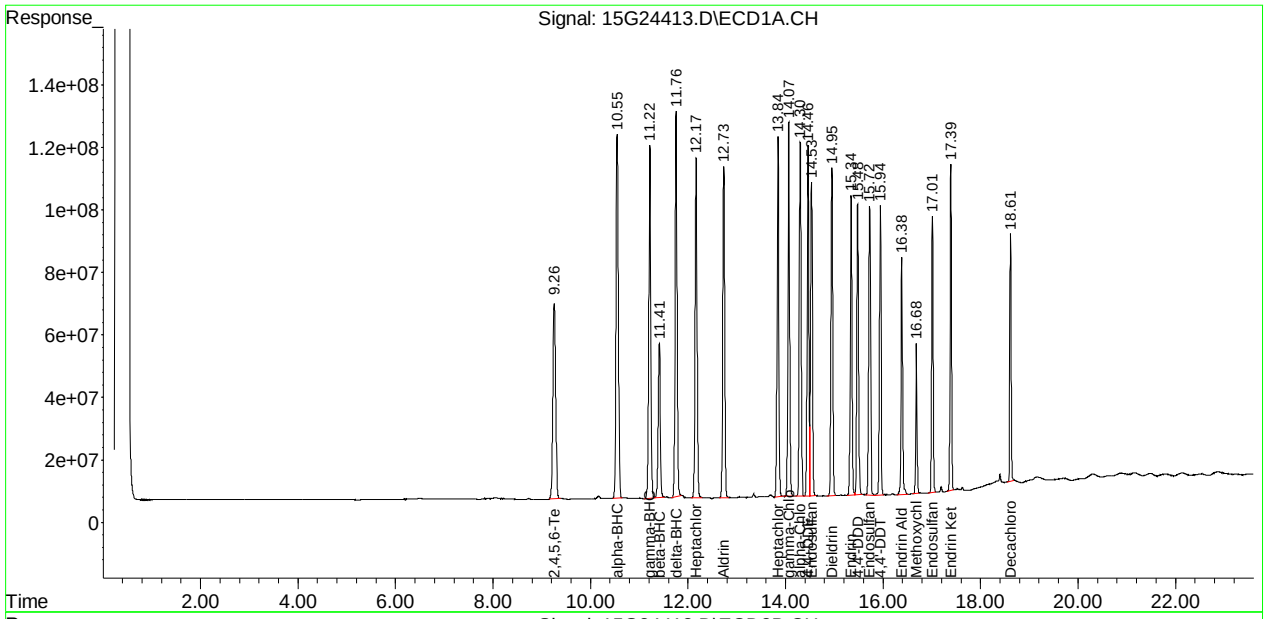
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24413.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Dec 2010 1:17 (#1); 15 Dec 2010 1:45 (#2)
Operator : HAV
Sample : WG351417-05 PEST CCV 20 PPB
Misc : 1,1 STD40207
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 15 09:04:06 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24414.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Dec 2010 1:45 (#1); 15 Dec 2010 2:14 (#2)
Operator : HAV
Sample : WG351418-03 TOX CCV 500 PPB
Misc : 1,1 STD40827
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 15 08:22:12 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Thu Dec 09 11:39:15 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.26	14.91	1161.1E6	528.9E6	511.018	553.935
2)	L1 Toxaphene-2	15.91	15.97	843.7E6	1523.6E6	481.425	477.356
3)	L1 Toxaphene-3	16.87	16.75	1441.3E6	475.8E6	490.988	494.408
4)	L1 Toxaphene-4	17.11	17.09	657.8E6	894.9E6	495.267	410.535
5)	L1 Toxaphene-5	17.57	17.60	580.5E6	389.7E6	426.995	437.723
	Sum Toxaphene-1			4684.4E6	3812.9E6	2405.694	2373.957
Average	Toxaphene-1					481.139	474.791

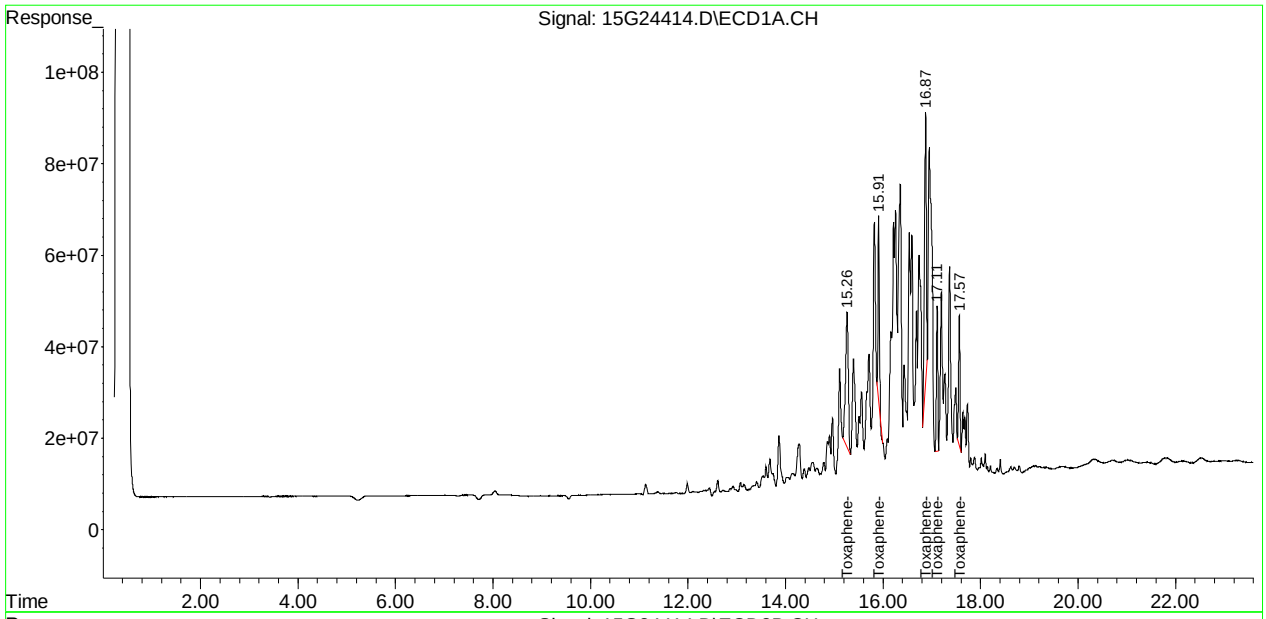
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

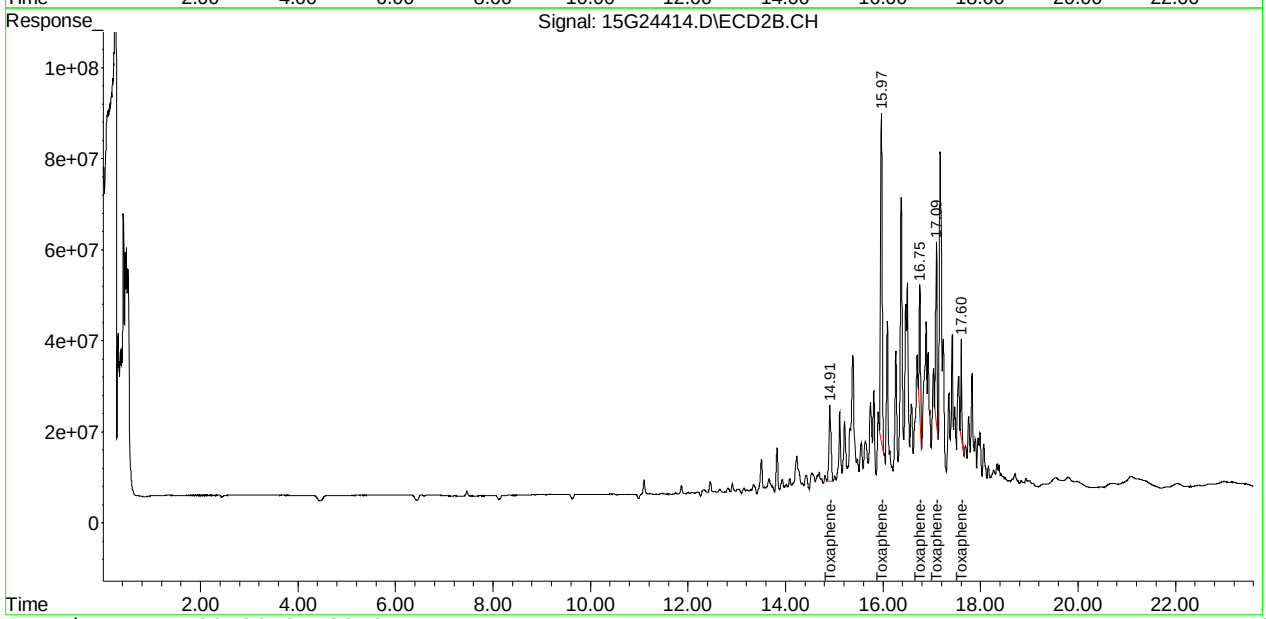
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24414.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Dec 2010 1:45 (#1); 15 Dec 2010 2:14 (#2)
Operator : HAV
Sample : WG351418-03 TOX CCV 500 PPB
Misc : 1,1 STD40827
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 15 08:22:12 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Thu Dec 09 11:39:15 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24383.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Dec 2010 11:07 (#1); 14 Dec 2010 11:35 (#2)
Operator : HAV
Sample : WG351417-01 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 14 12:06:57 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 30 - 132		Recovery =		0.00%#	0.00%#
22) S	Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 36 - 144		Recovery =		0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	14.46	14.68	111.6E6	91693226	0.873	0.876
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	15.35	15.47	5883.6E6	4061.2E6	48.473	44.022
15)	4,4'-DDD	15.48	15.68	228.5E6	176.8E6	2.200	2.040
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	15.94	16.18	5248.2E6	3957.0E6	44.384	43.969
18)	Endrin Aldehyde	16.39	16.36	156.0E6	149.3E6	1.712	2.096
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	17.39	17.48	316.1E6	332.2E6	2.901	4.118 #

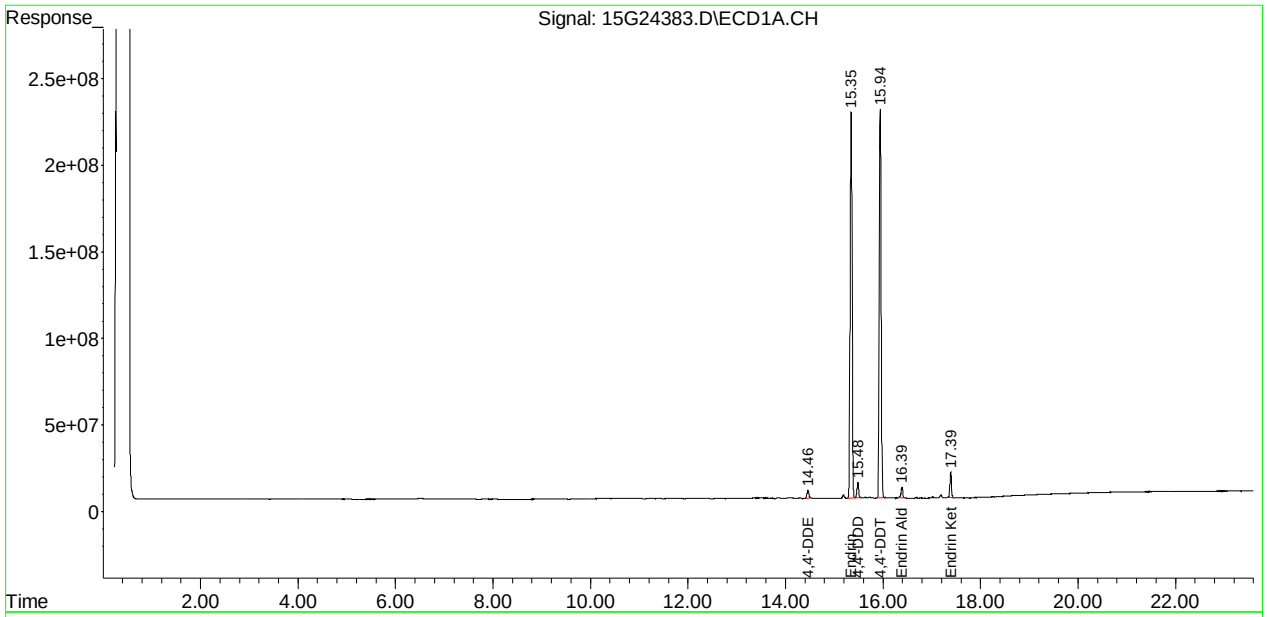
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

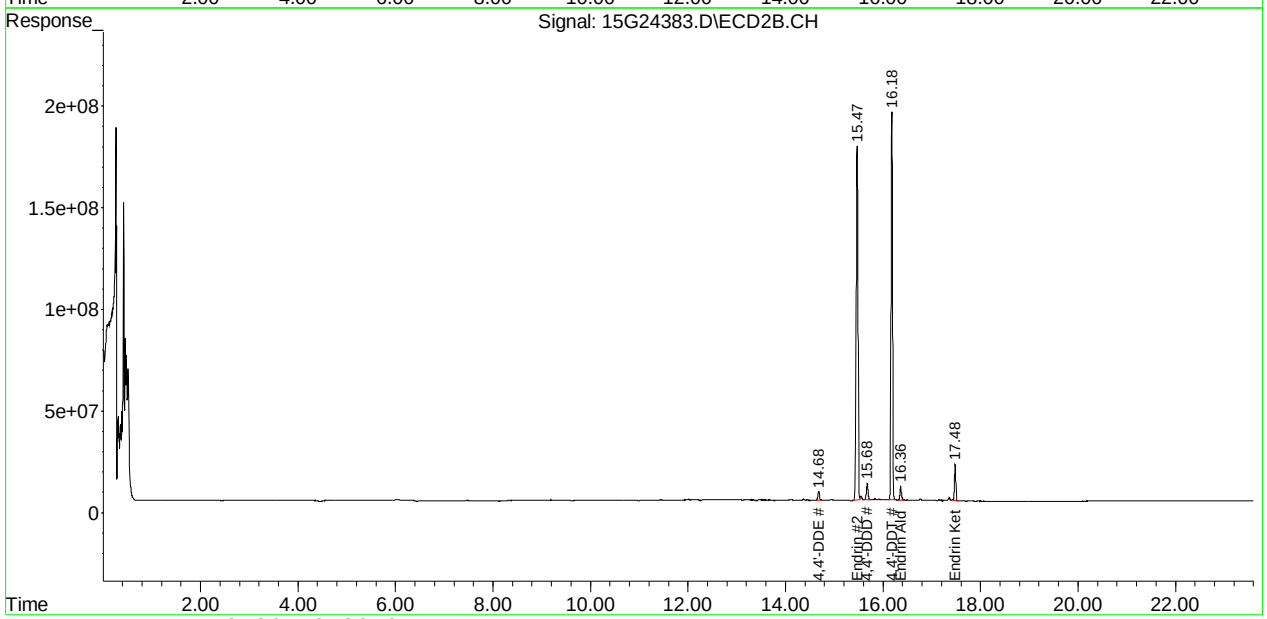
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24383.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Dec 2010 11:07 (#1); 14 Dec 2010 11:35 (#2)
Operator : HAV
Sample : WG351417-01 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 14 12:06:57 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24412.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Dec 2010 00:49 (#1); 15 Dec 2010 1:17 (#2)
Operator : HAV
Sample : WG351417-04 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 96 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 15 09:03:33 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount	20.000	Range 30 - 132	Recovery	=	0.00%#	0.00%#
22) S	Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount	20.000	Range 36 - 144	Recovery	=	0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	14.46	14.68	148.8E6	79745337	1.165	0.762 #
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	15.34	15.47	5502.7E6	3752.0E6	45.335	40.671
15)	4,4'-DDD	15.48	15.67	186.2E6	132.6E6	1.793	1.530
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	15.94	16.18	4721.6E6	3527.6E6	39.931	39.198
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	17.39	17.48	220.4E6	280.0E6	2.022	3.471 #

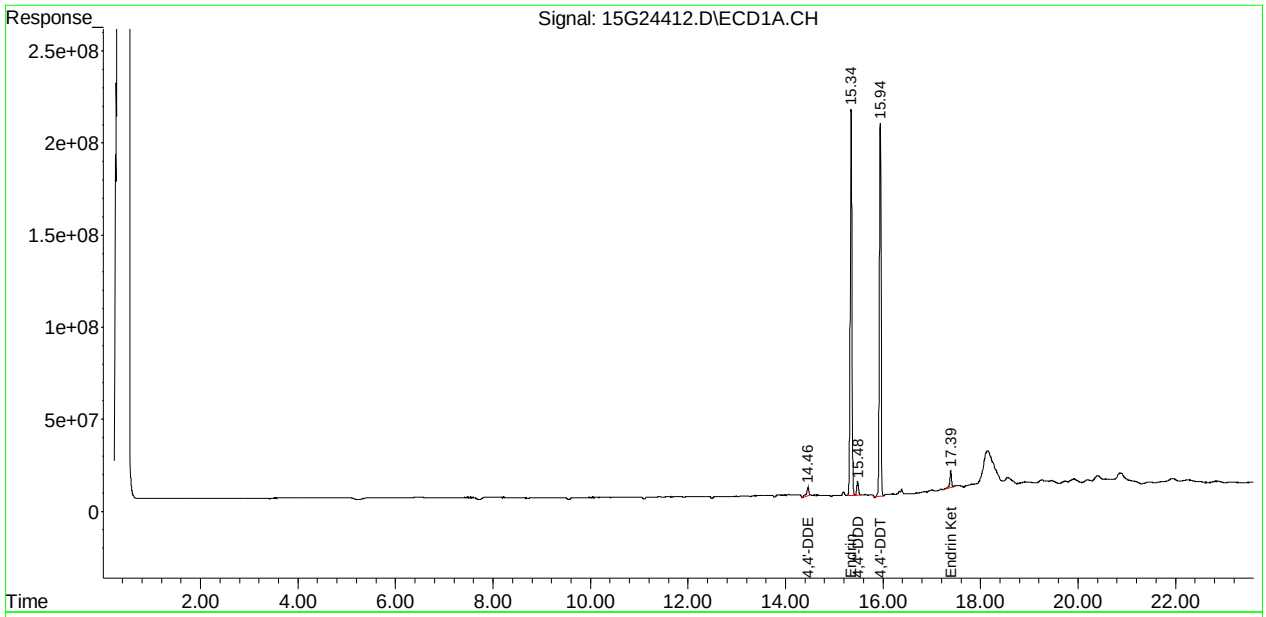
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

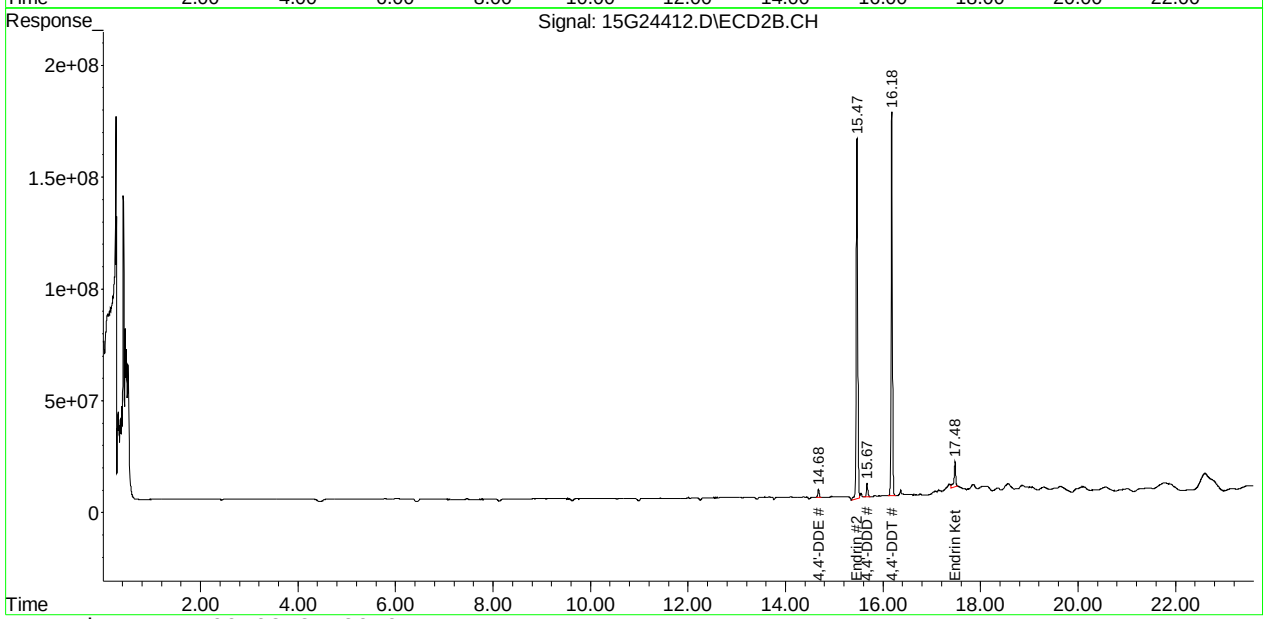
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24412.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Dec 2010 00:49 (#1); 15 Dec 2010 1:17 (#2)
Operator : HAV
Sample : WG351417-04 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 96 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 15 09:03:33 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





RETENTION TIME WINDOWS

Lab Name: Microbac Laboratories

Instrument ID: HP 15

GC Column: RTx-CLP (Front)

	STANDARD #1	STANDARD #2	STANDARD #3
Date Run	8/27/09	8/28/09	9/1/09
File #	15G18733	15G18777	15G18817

COMPOUND	STD #1 RT	STD #2 RT	STD #3 RT	RT WIN
alpha-BHC	10.90	10.89	10.89	0.017
gamma-BHC	11.58	11.57	11.56	0.030
beta-BHC	11.77	11.76	11.75	0.030
Heptachlor	12.53	12.51	12.51	0.035
delta-BHC	12.12	12.11	12.10	0.030
Aldrin	13.09	13.08	13.08	0.017
Heptachlor Epoxide	14.22	14.21	14.20	0.030
gamma-Chlordane	14.44	14.43	14.42	0.030
alpha-Chlordane	14.67	14.66	14.66	0.017
Endosulfan I	14.91	14.90	14.90	0.017
4,4'-DDE	14.82	14.81	14.80	0.030
Dieldrin	15.33	15.32	15.31	0.030
Endrin	15.73	15.72	15.71	0.030
4,4'-DDD	15.84	15.83	15.83	0.017
Endosulfan II	16.09	16.09	16.08	0.017
4,4'-DDT	16.28	16.27	16.27	0.017
Endrin Aldehyde	16.73	16.73	16.72	0.017
Endosulfan Sulfate	17.34	17.34	17.33	0.017
Methoxychlor	16.99	16.98	16.97	0.030
Endrin Ketone	17.71	17.70	17.70	0.017
2,4,5,6-Tetrachloro-M-Xylene	9.60	9.59	9.59	0.017
Decachlorobiphenyl	18.89	18.89	18.88	0.017

RETENTION TIME WINDOWS

Lab Name: Microbac Laboratories

Instrument ID: HP 15
GC Column: RTx-CLP II (Rear)

	STANDARD #1	STANDARD #2	STANDARD #3
Date Run	8/27/09	8/28/09	9/1/09
File #	15G18733	15G18777	15G18817

COMPOUND	STD #1 RT	STD #2 RT	STD #3 RT	RT WIN
alpha-BHC	10.70	10.70	10.70	0.000
gamma-BHC	11.44	11.44	11.43	0.017
beta-BHC	11.61	11.61	11.61	0.000
Heptachlor	12.30	12.30	12.29	0.017
delta-BHC	12.18	12.19	12.18	0.017
Aldrin	12.91	12.91	12.90	0.017
Heptachlor Epoxide	13.96	13.97	13.96	0.017
gamma-Chlordane	14.30	14.30	14.30	0.000
alpha-Chlordane	14.56	14.56	14.56	0.000
Endosulfan I	14.66	14.66	14.66	0.000
4,4'-DDE	14.87	14.87	14.86	0.017
Dieldrin	15.14	15.14	15.14	0.000
Endrin	15.67	15.67	15.67	0.000
4,4'-DDD	15.86	15.86	15.86	0.000
Endosulfan II	16.02	16.02	16.01	0.017
4,4'-DDT	16.35	16.35	16.35	0.000
Endrin Aldehyde	16.54	16.54	16.53	0.017
Endosulfan Sulfate	16.93	16.93	16.93	0.000
Methoxychlor	17.30	17.30	17.30	0.000
Endrin Ketone	17.63	17.63	17.63	0.000
2,4,5,6-Tetrachloro-M-Xylene	9.33	9.33	9.33	0.000
Decachlorobiphenyl	19.03	19.03	19.03	0.000

2.1.1.5 Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24387.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Dec 2010 13:00 (#1); 14 Dec 2010 13:29 (#2)
Operator : HAV
Sample : WG351206-01 BLANK
Misc : 7,1 SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 13:15:05 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

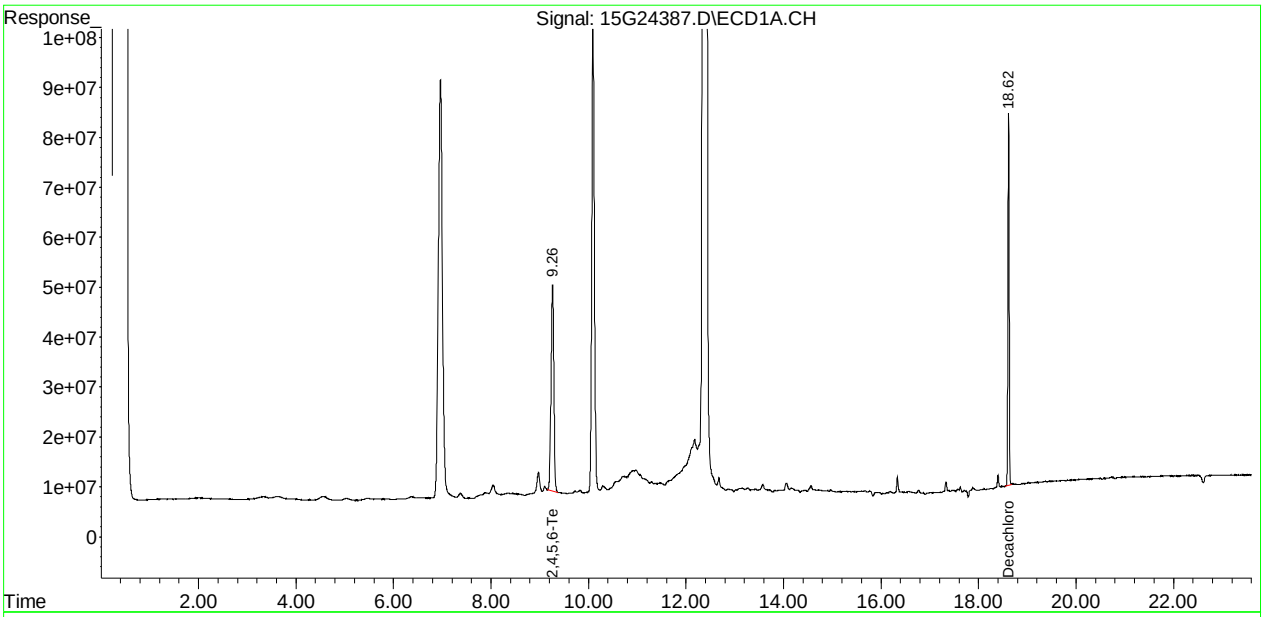
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.26	9.17	1629.9E6	1300.9E6	14.332	13.630
	Spiked Amount	20.000	Range 29 - 133		Recovery =	71.66%	68.15%
22) S	Decachlorobiphen	18.62	18.89	1389.6E6	965.3E6	17.342	16.027
	Spiked Amount	20.000	Range 30 - 173		Recovery =	86.71%	80.14%
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D. d	N.D. d
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.

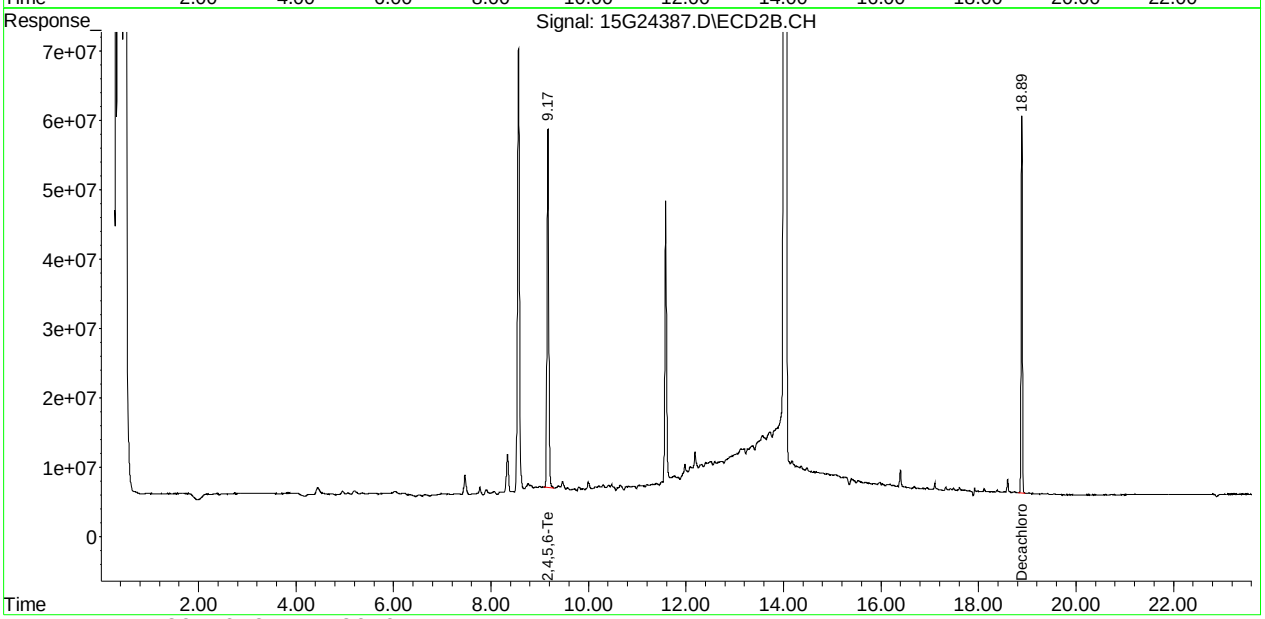
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24387.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Dec 2010 13:00 (#1); 14 Dec 2010 13:29 (#2)
Operator : HAV
Sample : WG351206-01 BLANK
Misc : 7,1 SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 13:15:05 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24388.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Dec 2010 13:29 (#1); 14 Dec 2010 13:57 (#2)
Operator : HAV
Sample : WG351206-02 LCS
Misc : 7,1 SOIL
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 15 09:12:01 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

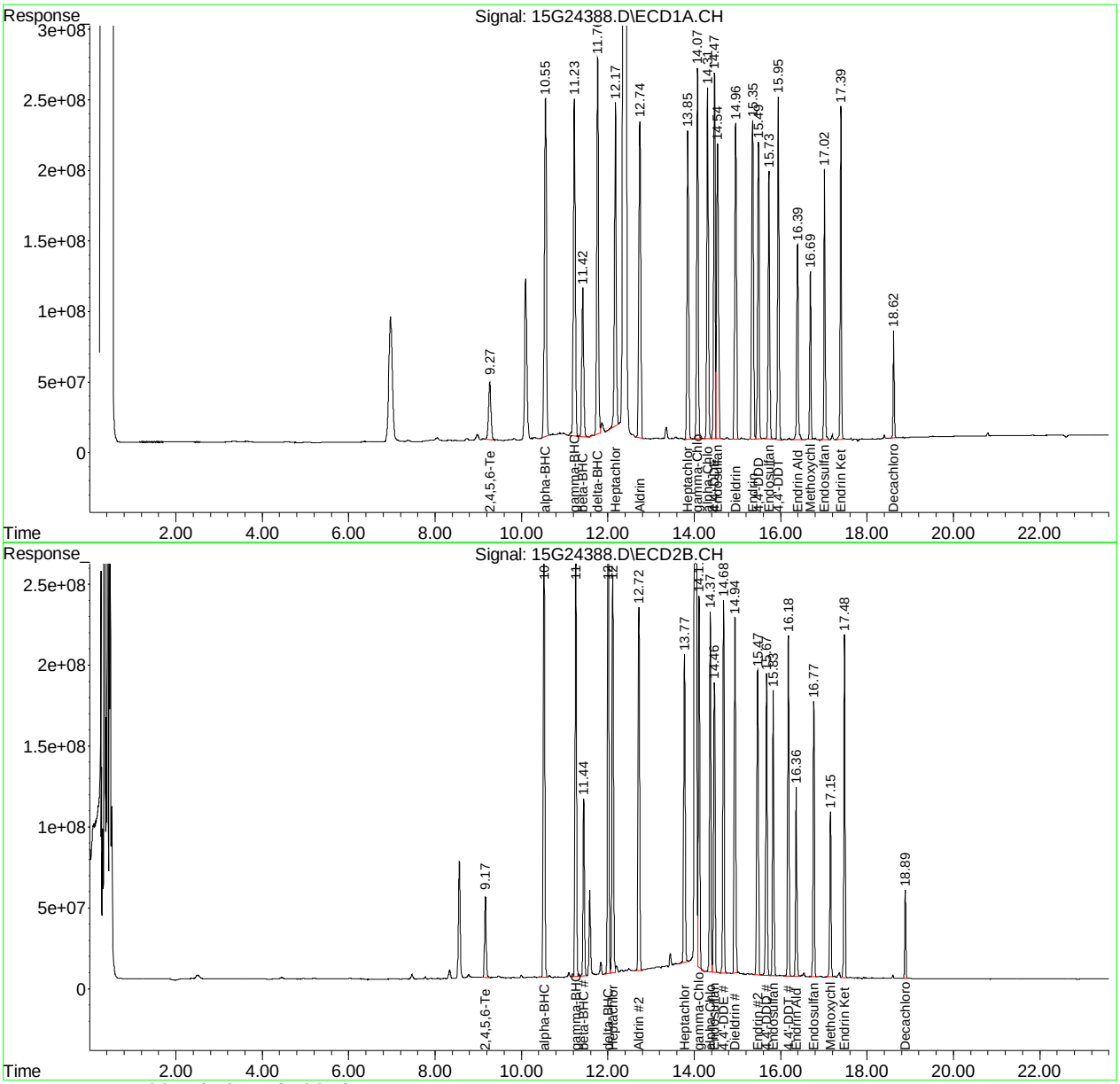
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.27	9.17	1594.2E6	1263.4E6	14.018	13.237
	Spiked Amount	20.000	Range 29 - 133		Recovery =	70.09%	66.19%
22) S	Decachlorobiphen	18.62	18.89	1402.7E6	976.0E6	17.505	16.205
	Spiked Amount	20.000	Range 30 - 173		Recovery =	87.52%	81.02%
	Target Compounds						
2)	alpha-BHC	10.56	10.52	7820.4E6	6064.0E6	46.855	43.757
3)	gamma-BHC	11.23	11.26	7396.7E6	5824.9E6	47.445	41.247
4)	beta-BHC	11.42	11.44	3209.0E6	2433.6E6	45.948	37.789
5)	Heptachlor	12.17	12.11	6848.3E6	5820.2E6	45.194	42.671
6)	delta-BHC	11.76	12.01	7718.7E6	6342.4E6	50.440	45.381
7)	Aldrin	12.74	12.72	6374.4E6	5283.4E6	41.052	43.071
8)	Heptachlor Epoxi	13.85	13.77	5914.4E6	4446.9E6	41.665	42.215
9)	gamma-Chlordane	14.07	14.11	6872.9E6	5156.9E6	46.365	45.341
10)	alpha-Chlordane	14.31	14.37	6513.4E6	5091.8E6	47.931	46.338
11)	Endosulfan I	14.54	14.46	5635.4E6	4235.6E6	45.314	45.477
12)	4,4'-DDE	14.47	14.68	6488.2E6	5052.4E6	50.803	48.261
13)	Dieldrin	14.96	14.94	5962.6E6	5061.4E6	48.028	46.390
14)	Endrin	15.35	15.47	5933.0E6	4367.9E6	48.880	47.347
15)	4,4'-DDD	15.49	15.67	5148.4E6	4111.1E6	49.578	47.435
16)	Endosulfan II	15.73	15.83	4879.6E6	3950.4E6	41.073	42.712
17)	4,4'-DDT	15.95	16.18	5553.6E6	4352.3E6	46.967	48.362
18)	Endrin Aldehyde	16.39	16.36	3330.3E6	2451.2E6	36.536	34.415
19)	Endosulfan Sulfa	17.02	16.77	4152.7E6	3365.3E6	43.433	46.687
20)	Methoxychlor	16.69	17.15	2486.5E6	1924.3E6	44.053	43.189
21)	Endrin Ketone	17.39	17.48	5017.0E6	3864.6E6	46.045	47.908

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24388.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Dec 2010 13:29 (#1); 14 Dec 2010 13:57 (#2)
Operator : HAV
Sample : WG351206-02 LCS
Misc : 7,1 SOIL
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 15 09:12:01 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\121410\
Data File : 15G24396.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Dec 2010 17:15 (#1); 14 Dec 2010 17:44 (#2)
Operator : HAV
Sample : WG351206-03 LCS DUP
Misc : 7,1 SOIL
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 15 09:14:06 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.26	9.17	1752.9E6	1365.7E6	15.413	14.309
	Spiked Amount	20.000	Range 30 - 132		Recovery =	77.07%	71.54%
22) S	Decachlorobiphen	18.61	18.89	1472.8E6	1026.1E6	18.380	17.036
	Spiked Amount	20.000	Range 36 - 144		Recovery =	91.90%	85.18%
	Target Compounds						
2)	alpha-BHC	10.55	10.53	8270.0E6	6284.6E6	49.549	45.348
3)	gamma-BHC	11.22	11.26	7836.0E6	6007.9E6	50.263	42.542
4)	beta-BHC	11.41	11.44	3381.7E6	2546.9E6	48.420	39.547
5)	Heptachlor	12.17	12.12	7247.4E6	5871.2E6	47.828	43.045
6)	delta-BHC	11.76	12.01	8167.2E6	6324.0E6	53.372	45.249
7)	Aldrin	12.73	12.72	6671.6E6	5480.7E6	42.966	44.679
8)	Heptachlor Epoxi	13.85	13.78	6196.9E6	4411.4E6	43.655	41.877
9)	gamma-Chlordane	14.07	14.11	7235.6E6	5315.8E6	48.812	46.738
10)	alpha-Chlordane	14.30	14.37	6927.7E6	5271.5E6	50.979	47.974
11)	Endosulfan I	14.53	14.47	6086.9E6	4371.1E6	48.945	46.931
12)	4,4'-DDE	14.46	14.68	6834.2E6	5208.6E6	53.513	49.754
13)	Dieldrin	14.95	14.95	6623.2E6	5170.1E6	53.348	47.386
14)	Endrin	15.34	15.47	6284.9E6	4611.5E6	51.779	49.987
15)	4,4'-DDD	15.48	15.68	5317.2E6	4221.1E6	51.203	48.703
16)	Endosulfan II	15.72	15.83	5190.5E6	4040.3E6	43.690	43.683
17)	4,4'-DDT	15.94	16.18	5801.1E6	4454.0E6	49.060	49.492
18)	Endrin Aldehyde	16.39	16.36	3252.1E6	2328.0E6	35.678	32.684
19)	Endosulfan Sulfa	17.01	16.77	4344.8E6	3435.1E6	45.442	47.656
20)	Methoxychlor	16.68	17.16	2625.2E6	2009.0E6	46.510	45.089
21)	Endrin Ketone	17.39	17.48	5287.9E6	3946.8E6	48.531	48.926

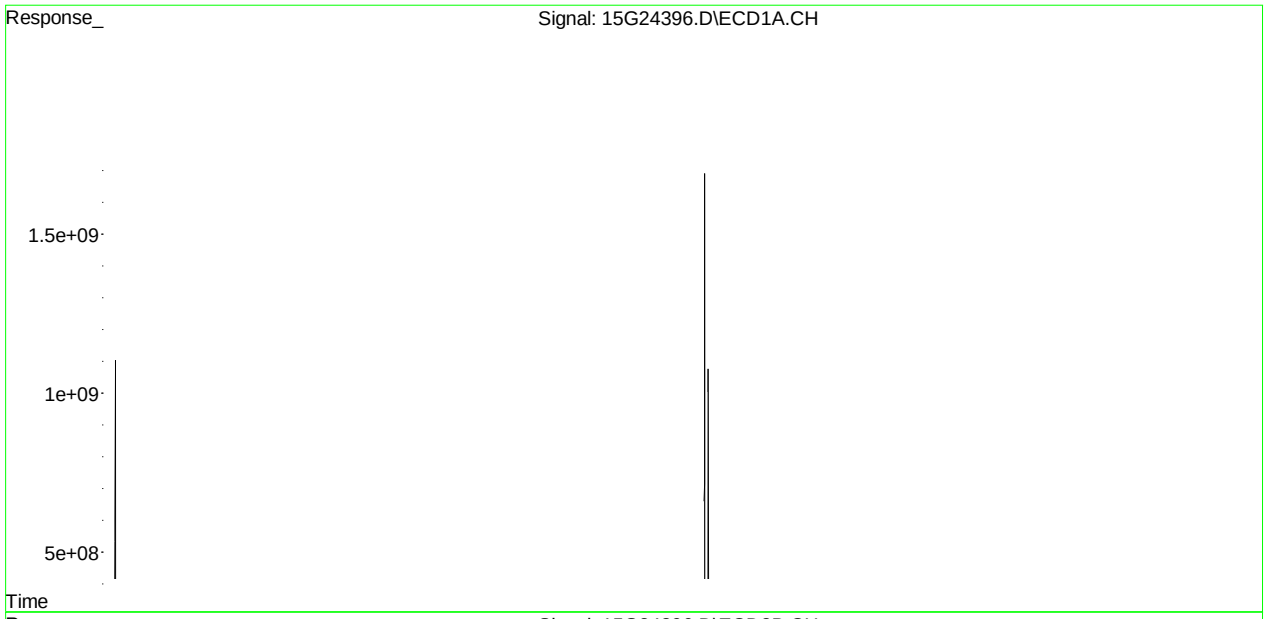
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\121410\
Data File : 15G24396.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Dec 2010 17:15 (#1); 14 Dec 2010 17:44 (#2)
Operator : HAV
Sample : WG351206-03 LCS DUP
Misc : 7,1 SOIL
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 15 09:14:06 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24389.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Dec 2010 13:57 (#1); 14 Dec 2010 14:26 (#2)
Operator : HAV
Sample : WG351206-04 LCS TOX
Misc : 7,1 SOIL
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 13:15:38 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.26	9.17	1712.2E6	1331.0E6	15.055	13.945
	Spiked Amount	20.000	Range 29 - 133		Recovery =	75.28%	69.73%
22) S	Decachlorobiphen	18.62	18.89	1515.1E6	1049.6E6	18.907	17.427
	Spiked Amount	20.000	Range 30 - 173		Recovery =	94.53%	87.13%
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D. d	N.D. d
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16)	Endosulfan II	0.00	0.00	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.00	0.00	0	0	N.D. d	N.D. d
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D. d	N.D. d
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.00	0.00	0	0	N.D. d	N.D. d
21)	Endrin Ketone	0.00	0.00	0	0	N.D. d	N.D. d

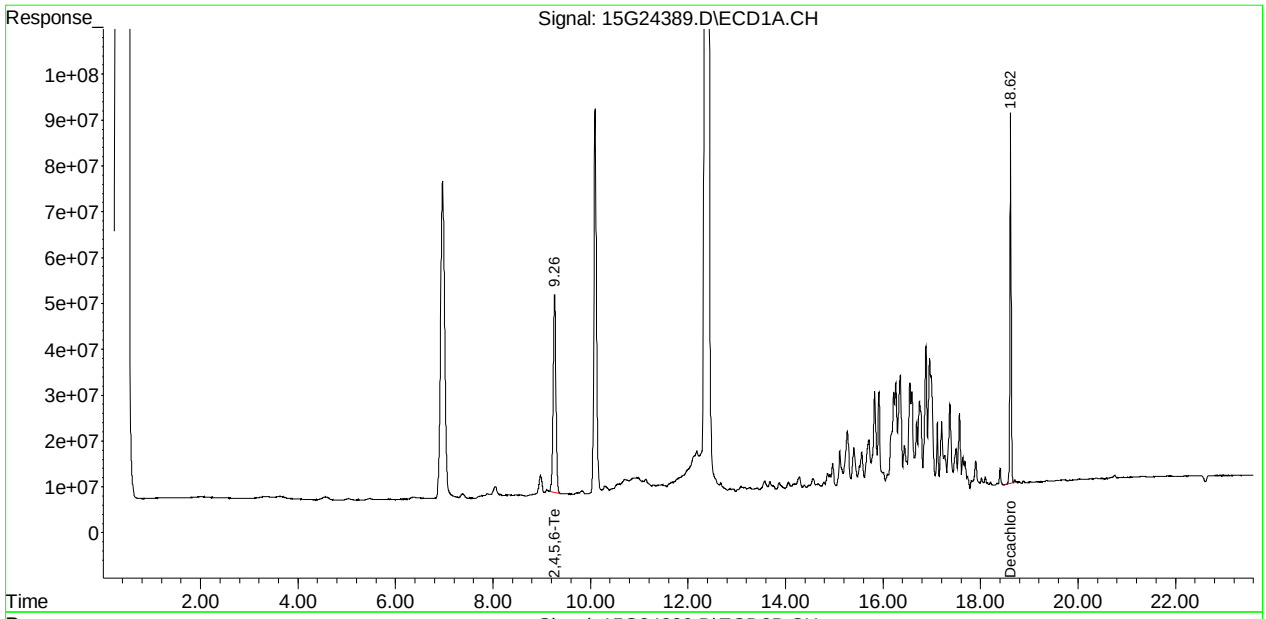
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

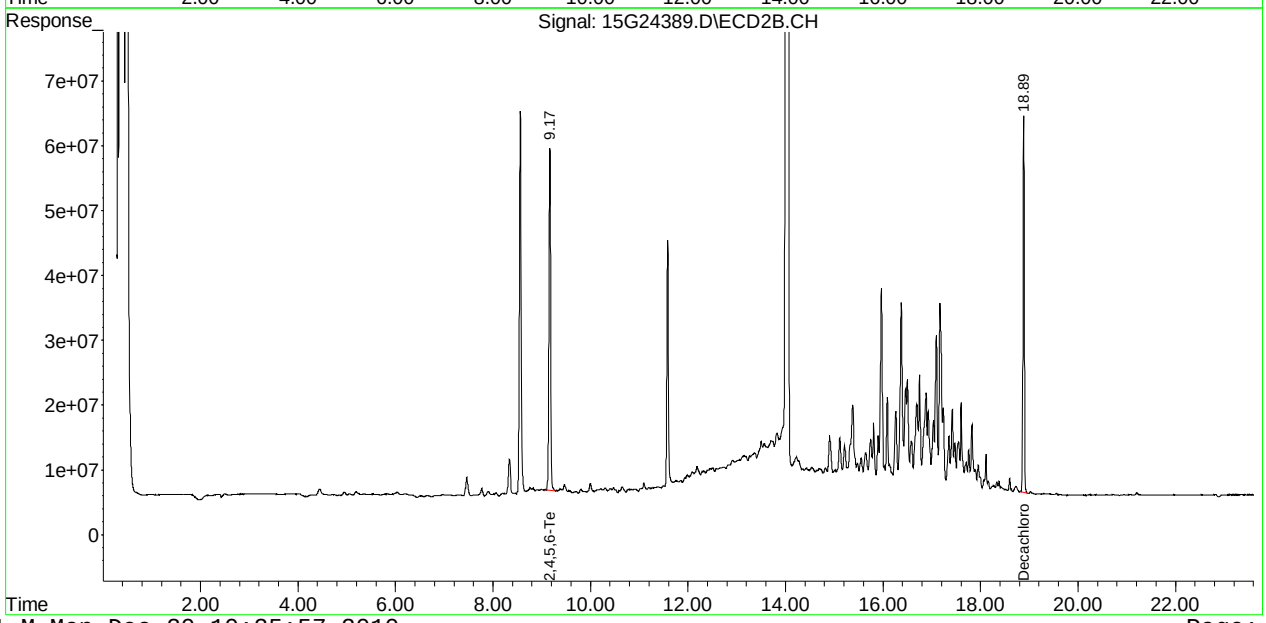
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\121410\
Data File : 15G24389.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Dec 2010 13:57 (#1); 14 Dec 2010 14:26 (#2)
Operator : HAV
Sample : WG351206-04 LCS TOX
Misc : 7,1 SOIL
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 13:15:38 2010
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION September 27, 2010
QLast Update : Thu Dec 09 11:38:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





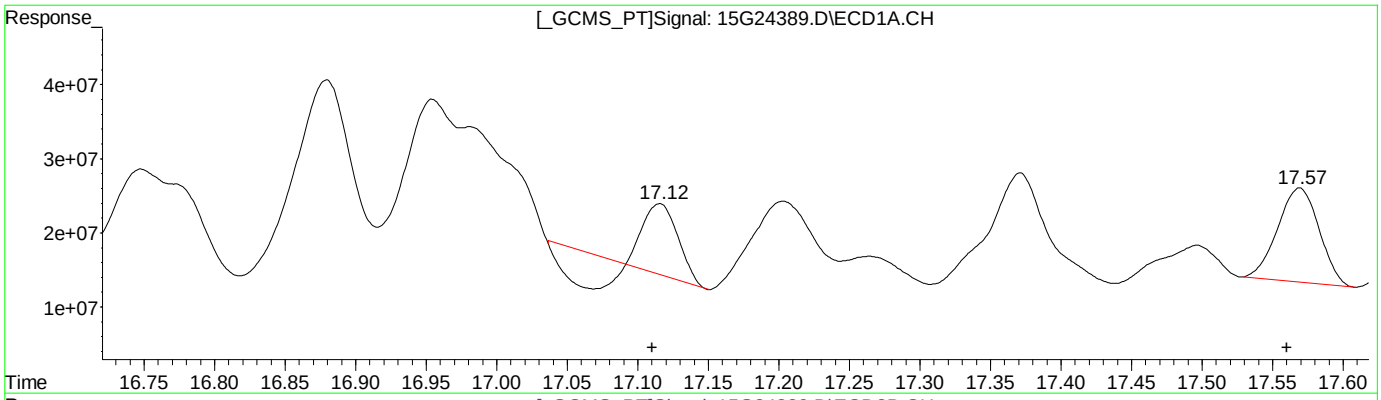
8081.M Mon Dec 20 10:25:57 2010 Page: 2

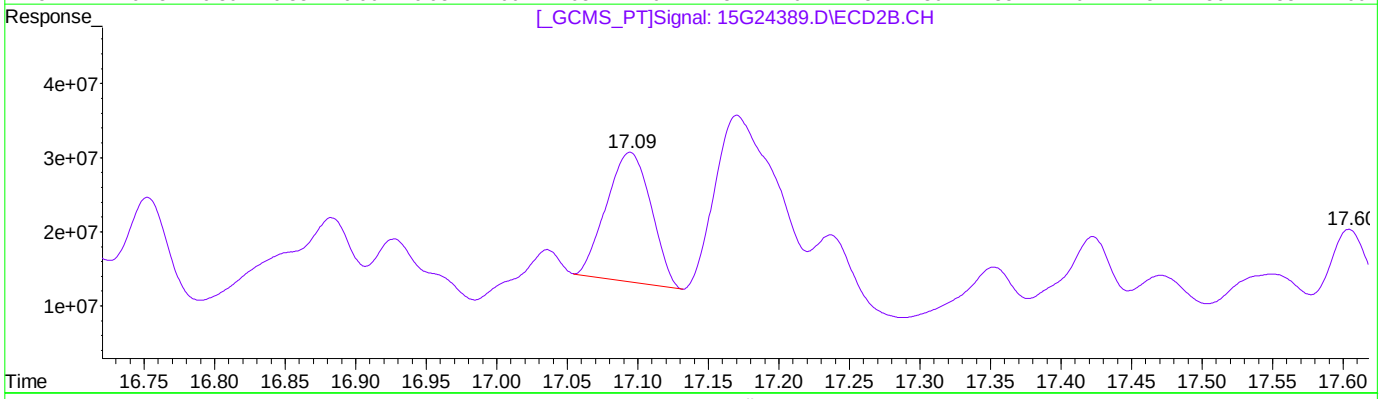
Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\121410\
Data File : 15G24389.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 14 Dec 2010 13:57 (#1); 14 Dec 2010 14:26 (#2)
Operator : HAV
Sample   : WG351206-04 LCS TOX
Misc   : 7,1 SOIL
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 17 15:10:08 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Thu Dec 09 11:39:15 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(4) Toxaphene-4 (L1)

R.T.	Response	Conc
17.12	104822396	78.93
17.57	259263510	190.69

(4) Toxaphene-4 #2 (L1)

R.T.	Response	Conc
17.09	384777111	176.51
17.60	171655189	192.83

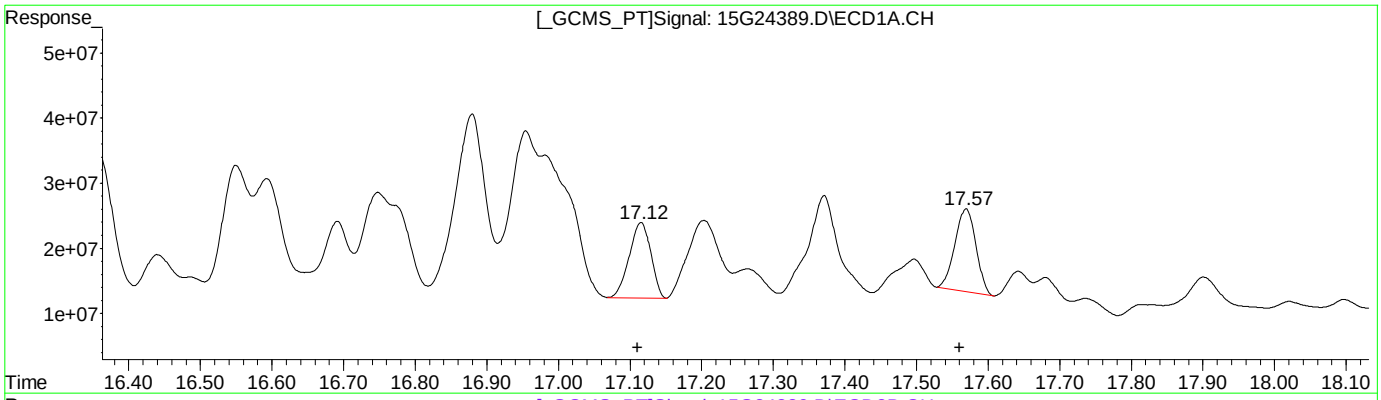
(+) = Expected Retention Time

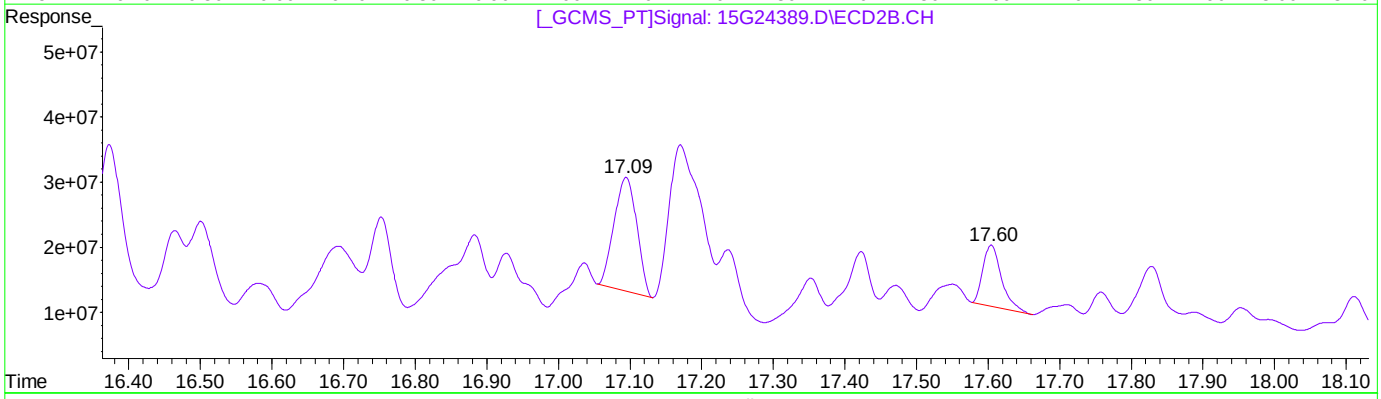
Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\121410\
Data File : 15G24389.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 14 Dec 2010 13:57 (#1); 14 Dec 2010 14:26 (#2)
Operator : HAV
Sample   : WG351206-04 LCS TOX
Misc   : 7,1 SOIL
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Dec 17 15:10:08 2010
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX September 27, 2010
QLast Update : Thu Dec 09 11:39:15 2010
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(4) Toxaphene-4 #2 (L1)

R.T.	Response	Conc
17.12	243385064	183.26
17.57	259263510	190.69

(4) Toxaphene-4 #2 (L1)

R.T.	Response	Conc
17.09	384777111	176.51
17.60	171655189	192.83

(+) = Expected Retention Time
TOX.M Fri Dec 17 15:10:53 2010

Analyst: 12/20/2010 12:42 Supervisor: 12/20/2010 13:49 Page: 1

#4 - System establishes incorrect baseline

2.2 General Chemistry Data

2.2.1 Percent Solids Data

2.2.1.1 Raw Data

LABORATORY REPORT

L10120298

12/14/10 11:39

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CT Laboratories
1230 Lange Court

Baraboo, WI 53913
Attention: Patrick Letterer

Project Number: 2694.006
Project: CT Labs
Site: CT LABS

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
877664	L10120298-01	D2216-90	1	09-DEC-10
877666	L10120298-02	D2216-90	1	09-DEC-10

Microbac Laboratories Inc.

Report Number: **L10120298**

Report Date : **December 14, 2010**

Sample Number:	**L10120298-01**	PrePrep Method:	**NONE**	Instrument:	**BAL001**
Client ID:	**877664**	Prep Method:	**D2216-90**	Prep Date:	**12/13/2010 08:53**
Matrix:	**Soil**	Analytical Method:	**D2216-90**	Cal Date:	
Workgroup Number:	**WG351113**	Analyst:	**JDH**	Run Date:	**12/13/2010 08:53**
Collect Date:	**12/07/2010 13:25**	Dilution:	**1**	File ID:	**B1.351113-0158**
Sample Tag:	**01**	Units:	**weight %**		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	**10-02-6**	**99.0**		**1.00**	**1.00**

Report Number: **L10120298**
Report Date : **December 14, 2010**

Sample Number:	L10120298-02	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	877666	Prep Method:	D2216-90	Prep Date:	12/13/2010 08:53
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG351113	Analyst:	JDH	Run Date:	12/13/2010 08:53
Collect Date:	12/07/2010 13:55	Dilution:	1	File ID:	B1.351113-0159
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	98.5		1.00	1.00

Example Percent Solids Calculations

1.0 Calculating the percent solids of a sample.

$$\%Solids = \frac{WT3 - WT1}{WT2 - WT1} \times F$$

Where:	
WT1 = Weight, in grams, of the empty container	1.30 g
WT2 = Weight, in grams, of the container and wet sample	21.274 g
WT3 = Weight, in grams, of the container and dried sample	5.21 g
F = Factor to get units as percent weight	100
%Solids = Percent solids present in sample.	19.58%

2.0 Calculating the percent moisture of a sample.

% Moisture = 100 - % Solids from 1.0 calculation

Microbac Laboratories Inc.

PERCENT SOLIDS

Workgroup (AAB#):WG351113 Analyst:JDH ADT(on):12/10/2010 11:55
Method:D2216-90 Instrument:BAL001 ADT(off):12/13/2010 08:53
SOP:K0003 Rev:10

SAMPLE NUMBER	EMPTY PAN WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C	PERCENT SOLID	PERCENT MOISTURE
L10120155-01	1.34	20.22	18.72			92.06	
L10120155-02	1.31	24.15	21.77			89.58	
L10120222-01	1.3	15.26	13.33			86.17	
L10120222-02	1.31	19.63	17.16			86.52	
L10120222-03	1.32	26.3	22.9			86.39	
L10120222-04	1.31	23.1	19.66			84.21	
L10120222-05	1.34	19.85	17.35			86.49	
L10120222-06	1.33	27.72	24.42			87.50	
L10120222-07	1.32	21.08	18.73			88.11	
L10120222-08	1.31	25.58	22.82			88.63	
L10120222-09	1.31	23.29	20.29			86.35	
L10120222-10	1.33	22.64	19.61			85.78	
L10120222-11	1.32	25.17	22.26			87.80	
L10120252-01	1.3	24.52	20.79			83.94	
L10120252-02	1.31	25.73	20.81			79.85	
L10120252-03	1.31	25.73	20.81			79.85	
L10120252-04	1.31	25.73	20.81			79.85	
L10120252-05	1.3	22.96	19.21			82.69	
L10120252-06	1.29	35.55	29.03			80.97	
L10120252-07	1.28	24.61	19.05			76.17	
L10120254-01	1.31	19.72	15.79			78.65	
L10120269-01	1.32	14.99	14.14			93.78	
L10120269-02	1.3	16.74	15.43			91.52	
L10120269-03	1.31	22.18	21.83			98.32	
L10120269-04	1.29	29.13	28.22			96.73	
L10120269-05	1.3	23.95	23.7			98.90	
L10120269-06	1.31	33.31	32.97			98.94	
L10120270-01	1.31	28.04	26.81			95.40	
L10120270-02	1.32	27.19	25.88			94.94	
L10120270-03	1.34	22.6	20.85			91.77	
L10120270-04	1.32	19.94	18.78			93.77	
L10120270-05	1.33	26.24	24.3			92.21	
L10120270-06	1.33	22.97	20.67			89.37	
L10120270-07	1.32	24.39	22.27			90.81	
L10120270-08	1.33	29.75	27.1			90.68	
L10120270-09	1.32	21.98	21.19			96.18	
L10120270-10	1.31	22.78	21.9			95.90	
L10120270-11	1.33	23.23	22.61			97.17	
L10120270-12	1.33	23.23	22.61			97.17	
L10120270-13	1.33	23.23	22.61			97.17	
L10120270-14	1.31	22.96	21.7			94.18	
L10120270-15	1.31	12.86	10.56			80.09	

PERCENT_SOLIDS - Modified 04/24/2008
PDF ID: 1863897
Report generated: 12/13/2010 09:01

Microbac Laboratories Inc.

PERCENT SOLIDS

Workgroup (AAB#):WG351113 Analyst:JDH ADT(on):12/10/2010 11:55
Method:D2216-90 Instrument:BAL001 ADT(off):12/13/2010 08:53
SOP:K0003 Rev:10

SAMPLE NUMBER	EMPTY PAN WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C	PERCENT SOLID	PERCENT MOISTURE
L10120270-16	1.31	14.69	11.95			79.52	
L10120270-17	1.31	23.03	20.36			87.71	
L10120270-18	1.33	28.91	28.05			96.88	
L10120270-19	1.32	21.49	20.96			97.37	
L10120270-20	1.33	28.73	27.08			93.98	
L10120270-21	1.31	30.5	29			94.86	
L10120270-22	1.3	30.47	29.26			95.85	
L10120270-23	1.3	35.93	35.39			98.44	
L10120270-24	1.3	30.49	29.96			98.18	
L10120270-25	1.3	27.45	26.51			96.41	
L10120270-26	1.31	29.32	28.28			96.29	
L10120286-04	1.31	15.83	1.79			3.306	
L10120290-01	1.29	29.7	25.64			85.71	
L10120290-02	1.32	15.74	13.43			83.98	
L10120290-03	1.31	32.45	27.5			84.10	
L10120290-04	1.33	18.26	15.86			85.82	
L10120290-05	1.32	18.44	16.08			86.21	
L10120290-06	1.32	21.74	19.13			87.22	
L10120290-07	1.32	23.01	19.29			82.85	
L10120290-08	1.35	24.79	22.67			90.96	
L10120290-09	1.32	37.44	33.57			89.29	
L10120290-10	1.33	29.34	27			91.65	
L10120290-11	1.3	32.23	29.28			90.46	
L10120298-01	1.32	16.03	15.88			98.98	
L10120298-02	1.28	23.87	23.53			98.49	
WG351113-01	1.33	32.11	29.28			90.81	9.194
WG351113-02	1.31	24.15	21.77			89.58	10.42
WG351113-03	1.29	24.25	22.18			90.98	9.016
WG351113-04	1.28	19.87	18.56			92.95	7.047
WG351113-05	1.28	24.61	19.05			76.17	23.83
WG351113-06	1.28	14.78	12			79.41	20.59

Analyst: Justin Hasson

PERCENT_SOLIDS - Modified 04/24/2008
PDF ID: 1863897
Report generated: 12/13/2010 09:01

3.0 Attachments

Microbac Laboratories Inc.
Analyst Listing
December 22, 2010

ADC – ANTHONY D. CANTER	AJF – AMANDA J. FICKIESEN	ALB – ANNIE L. BROWN
ALV – AMY L. VALENTINE	AML – TONY M. LONG	AZH – AFTER HOURS
BLG – BRENDA L. GREENWALT	BRG – BRENDA R. GREGORY	CAA – CASSIE A. AUGENSTEIN
CAF – CHERYL A. FLOWERS	CEB – CHAD E. BARNES	CLC – CHRYS L. CRAWFORD
CLS – CARA L. STRICKLER	CLW – CHARISSA L. WINTERS	CPD – CHAD P. DAVIS
CSH – CHRIS S. HILL	DDE – DEBRA D. ELLIOTT	DEL – DON E. LIGHTFRITZ
DEV – DAVID E. VANDENBERG	DGB – DOUGLAS G. BUTCHER	DIH – DEANNA I. HESSON
DLB – DAVID L. BUMGARNER	DLP – DOROTHY L. PAYNE	DLR – DIANNA L. RAUCH
ECL – ERIC C. LAWSON	EDA – ERIN D. AGEE	ERP – ERIN R. PORTER
FJB – FRANCES J. BOLDEN	HAV – HEMA VILASAGAR	HJR – HOLLY J. REED
JAL – JOHN A. LENT	JBK – JEREMY B. KINNEY	JDH – JUSTIN D. HESSON
JKT – JANE K. THOMPSON	JWR – JOHN W. RICHARDS	JWS – JACK W. SHEAVES
JYH – JI Y. HU	KEB – KATIE E. BARNES	KHR – KIM H. RHODES
KRA – KATHY R. ALBERTSON	LKN – LINDA K. NEDEFF	LSB – LESLIE S. BUCINA
MDA – MIKE D. ALBERTSON	MDC – MIKE D. COCHRAN	MES – MARY E. SCHILLING
MMB – MAREN M. BEERY	MRT – MICHELLE R. TAYLOR	MSW – MATT S. WILSON
PDM – PIERCE D. MORRIS	PWD – PAUL W. DENT	RAH – ROY A. HALSTEAD
RB – BOB BUCHANAN	REK – BOB E. KYER	RLK – ROBIN L. KLINGER
RWC – RODNEY W. CAMPBELL	SLM – STEPHANIE L. MOSSBURG	SLP – SHERI L. PFALZGRAF
TIP – TAE I. PARRISH	TMB – TIFFANY M. BAILEY	TMM – TAMMY M. MORRIS
VC – VICKI COLLIER	WJB – WILL J. BEASLEY	WTD – WADE T. DELONG

Microbac Laboratories Inc.
List of Valid Qualifiers
December 22, 2010

Qualkey: DOD

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	The reported result is associated with a contaminated method blank.
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	The BOD unseeded dilution water blank exceeded 0.2 mg/L
C	Confirmed by GC/MS
CG	Confluent growth
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration; sample matrix interference.
J	Estimated value ; the analyte concentration was greater than the highest standard
J	Estimated value ; the analyte concentration was less than the low standard (LOQ)
J	The reported result is an estimated value.
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Nontarget analyte; the analyte is a tentativlely identified compound (TIC) by GC/MS
NA	Not applicable
ND	Not detected at or above the reporting limit (RL).
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Analyte was not detected. The concentration is below the reported LOD.
UJ	Undetected; the analyte was analyzed for, but not detected.
UQ	Undetected; the analyte was analyzed for, but not detected.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

*****Special Notes for Organic Analytes**

Qualkey: DOD

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound an are matrix dependent.

CT LABORATORIES

delivering more than data from your environmental analyses

1230 Lange Court • Baraboo, WI 53913 • 608-356-2760
www.ctlaboratories.com

Upon Receipt of Samples, please verify that samples were received in acceptable condition then sign this form and fax to (608)356-2766 or email to the project manager. **Sample temperature, upon receipt, must be recorded on this document unless thermal preservation is not a method requirement.**

Ship to: **Microbac**
158 Starlight Drive
Marietta, OH 45750

Return Invoice and Results to: **CT Laboratories**
Pat Letterer
1230 Lange Court
Baraboo WI 53913
pletterer@ctlaboratories.com

PURCHASE ORDER # 82743 MICROBAC ***The PO# must appear on all invoice and reports!***

Date Due: Standard TAT ***RUSH TURNAROUND NEEDED? Y or (N) (Circle One)***

Report results as EDD? N (Y) (Circle one and indicate type: ADR A1 & A3) Data Deliverable Package LEVEL: Level IV

VML 12-8-10

CTLabs ID#	Sample Date/Time	Matrix	Sample Description	Analyses / Method		Cost
877664	12/2/2010 1325	SOIL	ASTU5-MI-B	PESTICIDES	SW8081	
877666	12/2/2010 1355	SOIL	ASTU5-MI-S	PESTICIDES	↓	

Relinquished by: Jodi Herstad
Date/Time: 12/8/10 1400

Received by:
Date/Time:
COMMENTS:

Microbac OVD 221000010928
Received: 12/09/2010 10:43
By: BRENDA GREENWALT
Brenda Greenwalt

REPORT ALL SOLIDS ON A DRY WEIGHT BASIS UNLESS OTHERWISE INDICATED

Samples are to be analyzed following QSM v. 4.1

Samples are Multi Incremental samples and grinding was completed on 12/7/10. Hold times start on this date.

1000010928

COOLER INSPECTION

Received: 12/09/2010 10:43
Delivery Method: FedEx
Opened By: Brenda Greenwalt
Comments:

Login(s): L10120298|

Cooler(s)

Cooler #	Temp Gun	Temp	Tracking #	COC #	Comments
0015121	H	2.0	345750465100000345123003492520 12		

1	Yes	Were shipping coolers sealed?
2	Yes	Were custody seals intact?
3	Yes	Were cooler temperatures in range of 0-6?
4	Yes	Was ice present?
5	Yes	Were COC's received/information complete/signed and dated?
6	Yes	Were sample containers and labels intact and match COC?
7	Yes	Were the correct containers and volumes received?
8	Yes	Were samples received within EPA hold times?
9	NA	Were correct perservatives used? (water only)
10	NA	Were pH ranges acceptable? (voa's excluded)
11	NA	Were VOA samples free of headspace (less than 6mm)?

Discrepancies:

Microbac - Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750
Tel: (740)373-4071 Fax: (740)373-4835

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L10120298
Account: 2694
Project: 2694.006
Samples: 2
Due Date: 20-DEC-2010

Samplenum	Container ID	Products
L10120298-01	775728	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	09-DEC-2010 15:21	RLK	
2	ANALYZ	W1	WET	10-DEC-2010 11:07	JDH	RLK
3	STORE	EXT	W1	13-DEC-2010 15:01	JKT	CSH
4	STORE	W1	A2	20-DEC-2010 14:11	BLG	BLG

Samplenum	Container ID	Products
L10120298-02	775729	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	09-DEC-2010 15:21	RLK	
2	ANALYZ	W1	WET	10-DEC-2010 11:07	JDH	RLK
3	STORE	EXT	W1	13-DEC-2010 15:00	JKT	CSH
4	STORE	W1	A2	20-DEC-2010 14:11	BLG	BLG

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

CHAIN OF CUSTODY,
PM CONFIRMATION
AND
SAMPLE CONDITION FORMS
DOCUMENTS

Big Blue

Rev. 3/2006

Chain of Custody

Page _____ of _____

Company: USACE
Project Contact: Derek Kinder
Telephone: 502-315-6393
Project Name: Ore Storage
Project Number:
Project Location:
Sampled By: Derek Kinder

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other CERCLA

CT LABORATORIES
delivering more than data from your environmental analyses
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Folder #: 82743
Company: USACE - LOUISVILLE
Project: RAVENNA
Logged By: JLS PM: PM

Mail Report To:
Company:
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:
TAL Metals also analyze for Mercury + CrVI
Also, "AST" samples will be given a new Sample ID at a later date

NO potential Asbestos in these samples

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	Filt? Y/N	WDNR Well ID #	**Matrix:		VOC	SVOC	TAL Metals	Pest/PCBs	MI sample Prep		Total # of Containers	Preservation*	Lab ID #
				Fill in Spaces with Bottles per Test												
12/2/10	1355	Grab	ASTUS-VOC-B			Soil		X								
12/2/10	1350	Grab	ASTUS-VOC-S			Soil		X								
12/2/10	1300-1325	MI	ASTUS-MI-B			Soil			X	X	X	X				
12/2/10	1325-1355	MI	ASTUS-MI-S			Soil			X	X	X	X				
12/2/10	1095	Grab	DLAss-033-0001-SO			Soil		X								
12/2/10	1110	Grab	DLAss-043-0001-SO			Soil		X								

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Derek Kinder	12/2/10 1700		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
Fedex			12/3/10 1115

Ice Present (Yes) No
Temperature 1.9°
Cooler # CTLabs XXXX
AML 12-3-10 1035

**Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Page 1500

Little Blue

Rev. 3/2006

Chain of Custody

Page _____ of _____

Company: USACE
Project Contact: Derek Kinder
Telephone: 502-315-6393
Project Name: Ore Storage
Project Number:
Project Location:
Sampled By: Derek Kinder

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other CERCLA

CT LABORATORIES
delivering more than data from your environmental analyses

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Lab Use Only
Place Header Sticker Here

Mail Report To:
Company:
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:
These samples may potentially Contain Asbestos

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	Filt? Y/N	WDNR Well ID #	**Matrix:	VOC							Total # of Containers	Preservation*	Lab ID #
				Fill in Spaces with Bottles per Test												
12/2/10	0930	Grab	DLAss-003-0001-SO			Soil	X	MS/MSD						9		
12/2/10	0935	Grab	DLAss-003-0002-SO			Soil	X							3		
12/2/10	0950	Grab	DLAss-023-0001-SO			Soil	X							3		
12/2/10	1020	Grab	DLAss-015-0001-SO			Soil	X							3		

*** Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Derek Kinder	12/2/10 1700		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
FedEx			12/3/10 1115

Ice Present (Yes) No
Temperature 3.2°
Cooler # Test America
RMC, 12-3-10, 1035

****Matrix**
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Letterer, Pat

From: Kinder, Derek S LRL [Derek.S.Kinder@usace.army.mil]
Sent: Wednesday, December 08, 2010 2:58 PM
To: Letterer, Pat
Cc: Pat F. Ryan
Subject: RE: Ravenna Samples (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Pat,

The 4 samples that were not provided official sample IDs sent last week are as follows (previous ID as on COC, the new official ID to be used)

(ASTU5-MI-S, DAAss-040-0001-SO)
(ASTU5-MI-B, DAAss-041-0001-SO)
(ASTU5-VOC-S, DAAss-042-0001-SO)
(ASTU5-VOC-B, DAAss-043-0001-SO)

Pat Ryan, this is to show you where we stopped with the sample numbering.

Thanks,

Derek Kinder, EIT, LSIT
Civil/Environmental Engineer
Environmental Branch
Louisville District
US Army Corps of Engineers
502-315-6393

Comments on our Environmental Services are invited:
http://ice.disa.mil/index.cfm?fa=card&site_id=915&service_provider_id=115446

-----Original Message-----
From: Letterer, Pat [mailto:pletterer@ctlaboratories.com]
Sent: Wednesday, December 08, 2010 10:33 AM
To: Kinder, Derek S LRL
Subject: RE: Ravenna Samples (UNCLASSIFIED)

Thanks Derek!

Patrick Letterer
Project Manager
CTLaboratories
1230 Lange Court
Baraboo, WI 53913
Phone: 800-228-3012
Fax: 608-356-2766
e-mail: pletterer@ctlaboratories.com
<<http://www.ctlaboratories.com/>>
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individual(s) named in the header information. If this transmission has been received in error, please inform CT Laboratories of the error and destroy the attached document. CT Laboratories assumes no liability for any document or attachment once the transmission has been completed from our facility.

-----Original Message-----
From: Kinder, Derek S LRL [mailto:Derek.S.Kinder@usace.army.mil]
Sent: Wednesday, December 08, 2010 9:28 AM
To: Letterer, Pat

Subject: RE: Ravenna Samples (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Pat,

I will work to get you those sample IDs by COB today. And as far as I know no more RVAAP samples will be coming from USACE this month. I can't speak for all the RVAAP contractors.

Thanks,

Derek Kinder, EIT, LSIT
Civil/Environmental Engineer
Environmental Branch
Louisville District
US Army Corps of Engineers
502-315-6393

Comments on our Environmental Services are invited:
http://ice.disa.mil/index.cfm?fa=card&site_id=915&service_provider_id=11
5446

-----Original Message-----
From: Letterer, Pat [mailto:pletterer@ctlaboratories.com]
Sent: Wednesday, December 08, 2010 10:20 AM
To: Kinder, Derek S LRL
Subject: Ravenna Samples

Hi Derek

The COC for the last weeks Ravenna samples had a note that there would be revised sample descriptions provided for the UST samples. Do you have those?
Also, is there any other sampling scheduled for Ravenna for the rest of the month? Trying to figure out what else will be coming in for the month.

Thanks

Patrick Letterer
Project Manager
CTLaboratories
1230 Lange Court
Baraboo, WI 53913
Phone: 800-228-3012
Fax: 608-356-2766
e-mail: pletterer@ctlaboratories.com
<<http://www.ctlaboratories.com/>>
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CT Laboratories assumes no liability for any document or attachment once the transmission has been completed from our facility.

Classification: UNCLASSIFIED
Caveats: NONE

Folder #: 82743

PM LOGIN CONFIRMATION

Company: USACE - LOUISVILLE **Contract #:** 2263 **Project:** RAVENNA **Proj #:** W912QR-10-D-0024

PO Number: **Invoice #:** 82880 **Project Manager:** *PML*

Date Received: 12/03/10 **Log Date:** 12/3/2010 **Projected Sample Disposal Date:** 4 **days from receipt date**

Report To: DEREK KINDER CC:
600 DR MLKJ PLACE
PO BOX 59 ROOM 921
LOUISVILLE, KY 40201-0059
Phone: : Fax:
Rep. E-Mail

Invoice To : CC:
USACE FINANCE CENTER (UFC)
5733 INTEGRITY DR
MILLINGTON, TN 38054-5005
Phone: Fax:
EMail:

Collected By:
Collector's Phone:

Arrival Temperature: oC

SAMPLE #: 877662 DESCR: DAASS-043-0001-SO MATRIX: SOIL SAMPLED: 12/2/2010 Time: 1355 CLIENT SAMPLE #:

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				12/16/2010	12/15/2010		Validated
779	VOC 8260 QSM				12/16/2010	12/15/2010		Logged

SAMPLE #: 877663 DESCR: DAASS-042-0001-SO MATRIX: SOIL SAMPLED: 12/2/2010 Time: 1350 CLIENT SAMPLE #:

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				12/16/2010	12/15/2010		Validated
779	VOC 8260 QSM				12/16/2010	12/15/2010		Logged

SAMPLE #: 877664 DESCR: DAASS-041-0001-SO MATRIX: SOIL SAMPLED: 12/2/2010 Time: 1325 CLIENT SAMPLE #:

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT					12/15/2010		Logged
559	SUB PESTICIDES					12/15/2010		Logged
780	SVOC 8270 QSM				1/17/2011	12/15/2010		NeedPrep

Folder #: 82743 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 877664 **DESCR:** DAASS-041-0001-SO **MATRIX:** SOIL **SAMPLED:** 12/2/2010 **Time:** 1325 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
817	ICP QSM					12/15/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM					12/15/2010		NeedPrep
828	ICP NA QSM					12/15/2010		NeedPrep
833	MERCURY QSM					12/15/2010		NeedPrep
855	PCB QSM				1/17/2011	12/15/2010		NeedPrep
946	HOMOGEN/M.I. PREP					12/15/2010		Logged
951	HEX CHROME QSM SOIL				12/15/2010	12/15/2010		Logged

Folder #: 82743 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 877666 **DESCR:** DAASS-040-0001-SO **MATRIX:** SOIL **SAMPLED:** 12/2/2010 **Time:** 1355 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT					12/15/2010		Logged
559	SUB PESTICIDES					12/15/2010		Logged
780	SVOC 8270 QSM				1/17/2011	12/15/2010		NeedPrep
817	ICP QSM					12/15/2010		NeedPrep
		Aluminum						
		Antimony						
		Arsenic						
		Barium						
		Beryllium						
		Cadmium						
		Calcium						
		Chromium						
		Cobalt						
		Copper						
		Iron						
		Lead						
		Magnesium						
		Manganese						
		Nickel						
		Selenium						
		Silver						
		Thallium						
		Vanadium						
		Zinc						
827	ICP K QSM					12/15/2010		NeedPrep
828	ICP NA QSM					12/15/2010		NeedPrep
833	MERCURY QSM					12/15/2010		NeedPrep
855	PCB QSM				1/17/2011	12/15/2010		NeedPrep
946	HOMOGEN/M.I. PREP					12/15/2010		Logged

Folder #: 82743 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 877666 **DESCR:** DAASS-040-0001-SO **MATRIX:** SOIL **SAMPLED:** 12/2/2010 **Time:** 1355 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
951	HEX CHROME QSM SOIL				12/15/2010	12/15/2010		Logged

SAMPLE #: 877667 **DESCR:** DLASS-033-0001-SO **MATRIX:** SOIL **SAMPLED:** 12/2/2010 **Time:** 1045 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				12/16/2010	12/15/2010		Validated
779	VOC 8260 QSM				12/16/2010	12/15/2010		Logged

SAMPLE #: 877668 **DESCR:** DLASS-043-0001-SO **MATRIX:** SOIL **SAMPLED:** 12/2/2010 **Time:** 1110 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				12/16/2010	12/15/2010		Validated
779	VOC 8260 QSM				12/16/2010	12/15/2010		Logged

SAMPLE #: 877669 **DESCR:** DLASS-003-0001-SO **MATRIX:** SOIL **SAMPLED:** 12/2/2010 **Time:** 0930 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT			***DESIGNATED MATRIX SPIKE***	12/16/2010	12/15/2010		Validated
779	VOC 8260 QSM			***DESIGNATED MATRIX SPIKE***	12/16/2010	12/15/2010		Logged

SAMPLE #: 877670 **DESCR:** DLASS-003-0002-SO **MATRIX:** SOIL **SAMPLED:** 12/2/2010 **Time:** 0935 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				12/16/2010	12/15/2010		Validated
779	VOC 8260 QSM				12/16/2010	12/15/2010		Logged

SAMPLE #: 877671 **DESCR:** DLASS-023-0001-SO **MATRIX:** SOIL **SAMPLED:** 12/2/2010 **Time:** 0950 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				12/16/2010	12/15/2010		Validated
779	VOC 8260 QSM				12/16/2010	12/15/2010		Logged

Folder #: 82743 **Company:** *USACE - LOUISVILLE* **Project:** RAVENNA

SAMPLE #: 877672 **DESCR:** DLASS-015-0001-SO **MATRIX:** SOIL **SAMPLED:** 12/2/2010 **Time:** 1020 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				12/16/2010	12/15/2010		Validated
779	VOC 8260 QSM				12/16/2010	12/15/2010		Logged

Invoice Number: 82880 **Preliminary Invoice Estimate:** $ 1,626.00

Item	Matrix	Quantity	Price	Expedited TAT Surcharge	Total
HEX CHROME QSM SOIL	SOIL	2	$ 52.50	0.00	$ 105.00
HOMOGEN/M.I. PREP	SOIL	2	$ 57.75	0.00	$ 115.50
ICP K QSM	SOIL	2	$ 5.00	0.00	$ 10.00
ICP NA QSM	SOIL	2	$ 5.00	0.00	$ 10.00
ICP QSM Aluminum	SOIL	2	$ 5.00	0.00	$ 10.00
ICP QSM Antimony	SOIL	2	$ 5.00	0.00	$ 10.00
ICP QSM Arsenic	SOIL	2	$ 5.00	0.00	$ 10.00
ICP QSM Barium	SOIL	2	$ 5.00	0.00	$ 10.00
ICP QSM Beryllium	SOIL	2	$ 5.00	0.00	$ 10.00
ICP QSM Cadmium	SOIL	2	$ 5.00	0.00	$ 10.00
ICP QSM Calcium	SOIL	2	$ 5.00	0.00	$ 10.00
ICP QSM Chromium	SOIL	2	$ 5.00	0.00	$ 10.00
ICP QSM Cobalt	SOIL	2	$ 5.00	0.00	$ 10.00
ICP QSM Copper	SOIL	2	$ 5.00	0.00	$ 10.00
ICP QSM Iron	SOIL	2	$ 5.00	0.00	$ 10.00
ICP QSM Lead	SOIL	2	$ 5.00	0.00	$ 10.00
ICP QSM Magnesium	SOIL	2	$ 5.00	0.00	$ 10.00
ICP QSM Manganese	SOIL	2	$ 5.00	0.00	$ 10.00
ICP QSM Nickel	SOIL	2	$ 5.00	0.00	$ 10.00
ICP QSM Selenium	SOIL	2	$ 5.00	0.00	$ 10.00
ICP QSM Silver	SOIL	2	$ 5.00	0.00	$ 10.00
ICP QSM Thallium	SOIL	2	$ 5.00	0.00	$ 10.00
ICP QSM Vanadium	SOIL	2	$ 5.00	0.00	$ 10.00
ICP QSM Zinc	SOIL	2	$ 5.00	0.00	$ 10.00
MERCURY QSM	SOIL	2	$ 26.25	0.00	$ 52.50
PCB QSM	SOIL	2	$ 73.50	0.00	$ 147.00
SOLIDS,PERCENT	SOIL	10	$ 0.00	0.00	$ 0.00
SUB PESTICIDES	SOIL	2	$ 0.00	0.00	$ 0.00
SVOC 8270 QSM	SOIL	2	$ 220.00	0.00	$ 440.00

VOC 8260 QSM	SOIL	8	$ 68.25	0.00	$ 546.00
Temporary Fuel Surcharge on lab supplies and services (if applicable):					$ 0.00

Bottle Information

Container	# Containers	Tests
FOR LABEL ONLY	**4**	SOIL PREP/MIX
MEOH TARED	**20**	VOC
SOLIDS	**12**	%SOL,CR6,HG,ICP,K,NA
UNPRES GL	**2**	8270,PCB,PEST

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Condition Report

Folder #: 82743
Client: USACE - LOUISVILLE

Print Date / Time: 12/03/2010 11:17
Received Date / Time / By: 12/03/2010 1035 PML

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

Log-In Date / Time / By: 12/03/2010 1115 JLS
PM: PML

Coolers: CT LAB, 1 TEST AMER
Custody Seals Present : **Y**

Temperature: 1.9,3.2 C On Ice: **Y**
COC Present:? **Y** Complete? **Y**

Seal Intact? **Y**
Ship Method: FEDEX EXPRESS
Adequate Packaging: **Y**

Numbers: DATED AND SIGNED
Tracking Number: 873125493230,873125493241
Temp Blank Enclosed? **Y**

Notes: SAMPLES REC'D ON ICE. 1 CUSTODY SEAL INTACT ON EACH COOLER DATED 12/2/10 AND SIGNED
1 MEOH VIAL FOR ASTUS-VOC-S REC'D W/OUT MEOH PRESERVATIVE- APPEARS TO HAVE LEAKED OUT DUE TO THREADS ON VIALS DIRTY FROM SAMPLE AND NOT CLEANED OFF.

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
877662 DAASS-043-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
877662 DAASS-043-0001-SO					
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 2				
877663 DAASS-042-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
877663 DAASS-042-0001-SO					
	MEOH TARED	9		VOC	
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 2				
877664 DAASS-041-0001-SO					
	SOLIDS	1		%SOL,CR6,HG,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
877664 DAASS-041-0001-SO					
	UNPRES GL	1		8270,PCB,PEST	
	Total # of Containers of Type (*UNPRES GL*) = 1				
877664 DAASS-041-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
877666 DAASS-040-0001-SO					
	SOLIDS	1		%SOL,CR6,HG,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
877666 DAASS-040-0001-SO					
	UNPRES GL	1		8270,PCB,PEST	
	Total # of Containers of Type (*UNPRES GL*) = 1				
877666 DAASS-040-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
877667 DLASS-033-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
877667 DLASS-033-0001-SO					
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 2				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
877668 DLASS-043-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
877668 DLASS-043-0001-SO					
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 2				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
877669 DLASS-003-0001-SO					
	SOLIDS	1		%SOL	
	SOLIDS	1		%SOL	
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 3				
877669 DLASS-003-0001-SO					
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 6				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
877670 DLASS-003-0002-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
877670 DLASS-003-0002-SO					
	MEOH TARED	1		VOC	

		MEOH TARED	1		VOC
		Total # of Containers of Type (*MEOH TARED*) = 2			

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
877671 DLASS-023-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
877671 DLASS-023-0001-SO					
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 2				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
877672 DLASS-015-0001-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
877672 DLASS-015-0001-SO					
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 2				

Condition Code	*Condition Description*
9	Incorrectly Preserved

550

1000

FedEx Express US Airbill

FedEx Tracking Number 8731 2549 3241

Recipient's Copy

RECIPIENT: PEEL HERE

fedex.com 1.800.GoFedEx 1.800.463.3339

1 From This portion can be removed for Recipient's records.

Date 12/2/10 FedEx Tracking Number 873125493241

Sender's Name Derek Kinder Phone 502-554-3515 502 315-6535

Company ARMY CORPS OF ENGINEERS

Address 600 MARTIN LUTHER KING BVD Dept./Floor/Suite/Room

City LOUISVILLE State KY ZIP 40202-2230

2 Your Internal Billing Reference

3 To

Recipient's Name Pat Letterer Phone 608 356-2760

Company CT Laboratories

Address 1230 Lange Court

We cannot deliver to P.O. boxes or P.O. ZIP codes.

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Baraboo State WI ZIP 53913

0422861410

8731 2549 3241

4a Express Package Service * To most locations. Packages up to 150 lbs.

- FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available. ✓
- FedEx First Overnight — Earliest next business morning delivery to select locations.*
- FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. Packages over 150 lbs.

- FedEx 1Day Freight — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx 1Day Freight Booking No.
- FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- FedEx Envelope*
- FedEx Pak* — Includes FedEx Small Pak and FedEx Large Pak.
- FedEx Box
- FedEx Tube
- Other ✓

6 Special Handling and Delivery Signature Options

- SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- No Signature Required — Package may be left without obtaining a signature for delivery.
- Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods? One box must be checked.

- No ✓
- Yes As per attached Shipper's Declaration.
- Yes Shipper's Declaration not required.
- Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg
- Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No.

- Sender Acct. No. in Section 1 will be billed. ✓
- Recipient
- Third Party
- Credit Card
- Cash/Check

Total Packages 1 Total Weight 25 Credit Card Auth.

605

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

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CUSTODY SEAL

Person Collecting Sample Derek Kinder Sample No. ____

Date Collected 12/2/10 Time Collected ____

Ice Present (Yes) No

Temperature 3.2°

Initials PML

Date 12-3-10 Time 1035

Cooler # Test America

Tape + Custody Seal Intact

549

1000

FedEx Express US Airbill

FedEx Tracking Number 8731 2549 3230

Recipient's Copy

RECIPIENT: PEEL HERE

fedex.com 1.800.GoFedEx 1.800.463.3339

1 From This portion can be removed for Recipient's records.

Date 12/2/10 FedEx Tracking Number 873125493230

Sender's Name Derek Kinder Phone 502 554-3515 502 315-6535

Company ARMY CORPS OF ENGINEERS

Address 600 MARTIN LUTHER KING 572B Dept./Floor/Suite/Room

City LOUISVILLE State KY ZIP 40202-2230

2 Your Internal Billing Reference

3 To

Recipient's Name Pat Lefferer Phone 608 336-2760

Company CT Laboratories

Address 1730 Large Court

We cannot deliver to P.O. boxes or P.O. ZIP codes.

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Baraboo State WI ZIP 53913

042285141O

8731 2549 3230

4a Express Package Service * To most locations. Packages up to 150 lbs.

- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.*
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. Packages over 150 lbs.

- [ ] FedEx 1Day Freight — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx 1Day Freight Booking No.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak and FedEx Large Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

- [ ] Cargo Aircraft Only

7 Payment Bill to:

Obtain recip. Acct. No. [ ]

Enter FedEx Acct. No. or Credit Card No. below.

- [x] Sender — Acct. No. in Section 1 will be billed
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages 1 Total Weight 30 lbs. Credit Card Auth.

unless you declare a higher value. See the current FedEx Service Guide for details.

605

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CUSTODY SEAL

Person Collecting Sample Derek Kinder (Signature) Sample No.

Date Collected 12/2/10 Time Collected

NSW SN-1M

Ice Present (Yes) No

Temperature 1.9°

Initials PML

Date 12-3-10 Time 1035

Cooler # CTLabs XXX

Tape + Custody Seal Intact

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-50067-1

SDG No.:

Lab File ID: 50512001.D DFTPP Injection Date: 05/12/2015

Instrument ID: A4HP9 DFTPP Injection Time: 07:17

Analysis Batch No.: 180308

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	39.3	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	61.1	
70	Less than 2.0% of mass 69	0.1	(0.2)1
127	25.0 - 75.0% of mass 198	52.5	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.5	
275	10.0- 30.0% of mass 198	21.8	
365	Greater than 0.75% of mass 198	3.0	
441	Present, but less than mass 443	8.5	
442	40.0 - 110.0% of mass 198	51.4	
443	15.0 - 24.0% of mass 442	9.5	(18.4)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD5 240-180308/2	50512002.D	05/12/2015	07:38
	STD4 240-180308/3	50512003.D	05/12/2015	08:03
	STD3 240-180308/4	50512004.D	05/12/2015	08:28
	STD2 240-180308/5	50512005.D	05/12/2015	08:53
	STD1 240-180308/6	50512006.D	05/12/2015	09:19
	STD9 240-180308/7	50512007.D	05/12/2015	09:44
	STD8 240-180308/8	50512008.D	05/12/2015	10:09
	STD7 240-180308/9	50512009.D	05/12/2015	10:34
	STD6 240-180308/10	50512010.D	05/12/2015	10:59
	ICV 240-180308/11	50512011.D	05/12/2015	11:25
	MRL 240-180308/12	50512012.D	05/12/2015	11:50
	MB 240-179064/2-A	50512013.D	05/12/2015	12:15
	LCS 240-179064/3-A	50512014.D	05/12/2015	12:40
079SB-0399-0001-RB	240-50067-11	50512019.D	05/12/2015	14:46
	MRL 240-180308/21	50512021.D	05/12/2015	15:37

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-50067-1

SDG No.:

Lab File ID: 50514001.D DFTPP Injection Date: 05/14/2015

Instrument ID: A4HP9 DFTPP Injection Time: 10:03

Analysis Batch No.: 180709

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	47.2	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	72.6	
70	Less than 2.0% of mass 69	0.5	(0.6)1
127	25.0 - 75.0% of mass 198	55.1	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	7.6	
275	10.0- 30.0% of mass 198	22.3	
365	Greater than 0.75% of mass 198	3.0	
441	Present, but less than mass 443	8.0	
442	40.0 - 110.0% of mass 198	50.4	
443	15.0 - 24.0% of mass 442	9.2	(18.2)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-180709/2	50514002.D	05/14/2015	10:24
	MRL 240-180709/3	50514003.D	05/14/2015	10:49
	MB 240-180428/2-A	50514004.D	05/14/2015	11:14
	LCS 240-180428/3-A	50514005.D	05/14/2015	11:39
079SB-0399-0001-RB RE	240-50067-11 RE	50514006.D	05/14/2015	12:03
	MRL 240-180709/7	50514007.D	05/14/2015	12:28

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-50067-1

SDG No.:

Lab File ID: 50519001.D DFTPP Injection Date: 05/19/2015

Instrument ID: A4HP9 DFTPP Injection Time: 15:52

Analysis Batch No.: 181539

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	50.2	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	49.8	
70	Less than 2.0% of mass 69	0.1	(0.2)1
127	25.0 - 75.0% of mass 198	52.5	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.5	
275	10.0- 30.0% of mass 198	17.1	
365	Greater than 0.75% of mass 198	1.7	
441	Present, but less than mass 443	10.5	
442	40.0 - 110.0% of mass 198	62.4	
443	15.0 - 24.0% of mass 442	12.0	(19.3)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD5 240-181539/2	50519002.D	05/19/2015	16:13
	STD4 240-181539/3	50519003.D	05/19/2015	16:38
	STD3 240-181539/4	50519004.D	05/19/2015	17:03
	STD2 240-181539/5	50519005.D	05/19/2015	17:28
	STD1 240-181539/6	50519006.D	05/19/2015	17:53
	STD9 240-181539/7	50519007.D	05/19/2015	18:18
	STD8 240-181539/8	50519008.D	05/19/2015	18:43
	STD7 240-181539/9	50519009.D	05/19/2015	19:08
	STD6 240-181539/10	50519010.D	05/19/2015	19:33
	ICV 240-181539/11	50519011.D	05/19/2015	19:58

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-50067-1

SDG No.:

Lab File ID: 50520001.D DFTPP Injection Date: 05/20/2015

Instrument ID: A4HP9 DFTPP Injection Time: 09:09

Analysis Batch No.: 181588

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	51.1	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	49.5	
70	Less than 2.0% of mass 69	0.2	(0.5)1
127	25.0 - 75.0% of mass 198	53.7	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.5	
275	10.0- 30.0% of mass 198	16.5	
365	Greater than 0.75% of mass 198	1.4	
441	Present, but less than mass 443	8.9	
442	40.0 - 110.0% of mass 198	48.8	
443	15.0 - 24.0% of mass 442	9.0	(18.4)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-181588/2	50520002.D	05/20/2015	09:30
	MRL 240-181588/3	50520003.D	05/20/2015	09:55
	MB 240-179108/22-A	50520004.D	05/20/2015	10:20
	LCS 240-179108/23-A	50520005.D	05/20/2015	10:45
	MB 240-180350/8-A	50520006.D	05/20/2015	11:10
	LCS 240-180350/9-A	50520007.D	05/20/2015	11:35
079SB-0398-0001-SO	240-50067-10	50520008.D	05/20/2015	12:00
079SB-0395M-0001-0002-SO	240-50067-7	50520009.D	05/20/2015	12:25
079SB-0395M-0001-0002-SO MS	240-50067-7 MS	50520010.D	05/20/2015	12:50
079SB-0395M-0001-0002-SO MSD	240-50067-7 MSD	50520011.D	05/20/2015	13:15
079SB-0396M-0001-SO	240-50067-8	50520012.D	05/20/2015	13:40
079SB-0397M-0001-SO	240-50067-9	50520013.D	05/20/2015	14:04
079SB-0390M-0001-SO	240-50067-2	50520014.D	05/20/2015	14:55
079SB-0391M-0001-SO	240-50067-3	50520015.D	05/20/2015	15:20
079SB-0392M-0001-SO	240-50067-4	50520016.D	05/20/2015	15:45
079SB-0393M-0001-SO	240-50067-5	50520017.D	05/20/2015	16:11
079SS-0389M-0001-SO	240-50067-1	50520019.D	05/20/2015	17:01
	MRL 240-181588/20	50520020.D	05/20/2015	17:51
	LODV 240-181588/21	50520021.D	05/20/2015	18:16
	LODV 240-181588/22	50520022.D	05/20/2015	18:41
	LODV 240-181588/23	50520023.D	05/20/2015	19:06

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-50067-1

SDG No.:

Lab File ID: 50520001.D DFTPP Injection Date: 05/20/2015

Instrument ID: A4HP9 DFTPP Injection Time: 09:09

Analysis Batch No.: 181588

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	51.1	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	49.5	
70	Less than 2.0% of mass 69	0.2	(0.5)1
127	25.0 - 75.0% of mass 198	53.7	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.5	
275	10.0- 30.0% of mass 198	16.5	
365	Greater than 0.75% of mass 198	1.4	
441	Present, but less than mass 443	8.9	
442	40.0 - 110.0% of mass 198	48.8	
443	15.0 - 24.0% of mass 442	9.0	(18.4)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	LODV 240-181588/24	50520024.D	05/20/2015	19:31

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-50067-1

SDG No.:

Lab File ID: 50521001.D DFTPP Injection Date: 05/21/2015

Instrument ID: A4HP9 DFTPP Injection Time: 07:32

Analysis Batch No.: 181781

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	49.2	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	48.5	
70	Less than 2.0% of mass 69	0.2	(0.5)1
127	25.0 - 75.0% of mass 198	52.7	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	7.0	
275	10.0- 30.0% of mass 198	15.7	
365	Greater than 0.75% of mass 198	1.4	
441	Present, but less than mass 443	8.8	
442	40.0 - 110.0% of mass 198	47.0	
443	15.0 - 24.0% of mass 442	8.9	(19.0)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-181781/2	50521002.D	05/21/2015	07:55
	MRL 240-181781/3	50521003.D	05/21/2015	08:20
079SB-0394M-0001-SO	240-50067-6	50521006.D	05/21/2015	09:35
	MRL 240-181781/16	50521016.D	05/21/2015	11:15
	LODV 240-181781/17	50521017.D	05/21/2015	12:04
	LODV 240-181781/18	50521018.D	05/21/2015	12:29
	LODV 240-181781/19	50521019.D	05/21/2015	12:54

DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
P.O. BOX 59
LOUISVILLE, KENTUCKY 40201-0059

http://www.lrl.usace.army.mil/

19 APRIL 2012

Engineering Environmental Branch

Mr. Mark Patterson
Base Realignment and Closure Division; Ravenna Army Ammunition Plant
Building 1037
8451 State Route 5
Ravenna, OH 44266-9297

SUBJECT: FINAL Results for Initial Assessment of CC-RVAAP-79 DLA Group 2 Ammunition Storage Area

Dear Mr. Patterson:

This letter presents the analytical results from sampling conducted by the United States Army Corps of Engineers (USACE) on 8 March 2011 for the initial assessment of CC-RVAAP-79 DLA Group 2 Ammunition Storage Area in accordance with the approved Technical Memorandum Work Plan with Subject: Initial Assessment of DLA Area 2 Ore Storage Area dated 28 February 2011.

One primary incremental sample was collected within each sampling area as shown on Figure 1. One primary Volatile Organic Compound (VOC) discrete sample was collected from the center of sample area DL2ss-001. Quality Control and Quality Assurance samples were collected from sample area DL2ss-001 and were analyzed for the Ravenna Army Ammunition Plant full suite of chemicals.

Various ores were historically stored (stock-piled) at the Ravenna facility for the General Services Administration (GSA). The Defense Logistics Agency (DLA), Defense National Stockpile Center (DNSC) leased space at the Ravenna facility for the storage of the ore materials. Many of the ores were allowed to make direct contact with the underlying soils. Historical records indicate that brass ingots were historically stored on the ground surface in the Group 2 Ammunition Storage Area. The DLA Group 2 Ammunition Storage Area was located immediately east of the Group 2 magazine buildings. More specifically, the former ore storage piles were located east of Magazines AC-162, AC-163, AC-165 and AC-166.

Detected chemicals are screened against National Guard Trainee Facility-Wide Cleanup Goals (FWCUG) or other levels as applicable such as background values and Regional Screening Levels (RSL) in accordance with the Final Position Paper for the Application and Use of Facility-Wide Human Health Cleanup Goals (USACE, 1 June 2009). The most stringent screening level of the non-carcinogenic risk value (hazard quotient = 1) and carcinogenic risk

(10^{-5}) are used. Screening of the detected chemicals is presented in Table1. Table 2 summarizes the list of sample analyses.

There is only one detected sample result that exceeds the applicable screening criteria. This sample was collected east of building AC-165. This exceedance occurs in sample DL2ss-001M-0002-SO where the analytical result for Manganese of 1520 mg/kg exceeds the surface soil background concentration of 1450 mg/kg. This sample is a field duplicate of sample DL2ss-001M-0001-SO which has a Manganese concentration of 803 mg/kg, which is well below the background value. This is likely attributed to the variation of naturally occurring manganese in the soil. The analytical result concentration of 1520 mg/kg is only slightly greater than the surface soil background concentration of 1450 mg/kg, and is well below the subsurface soil background concentration of 3030 mg/kg. Therefore, the concentrations of chemicals detected in the soils do not pose unacceptable risks for the Ohio Army National Guard personnel who are currently utilizing this site.

The results of this initial assessment will be included in the next phase of work for CC-RVAAP-79. A new contract to complete a Remedial Investigation at this site was awarded on 15 August 2011.

Please find Tables, Figures, Field Sampling Reports, and Analytical Laboratory reports attached.

If you have any questions, please contact Derek Kinder at 502-315-6393.

Sincerely,

Derek Kinder, P.E.
Civil/Environmental Engineer

Enclosures

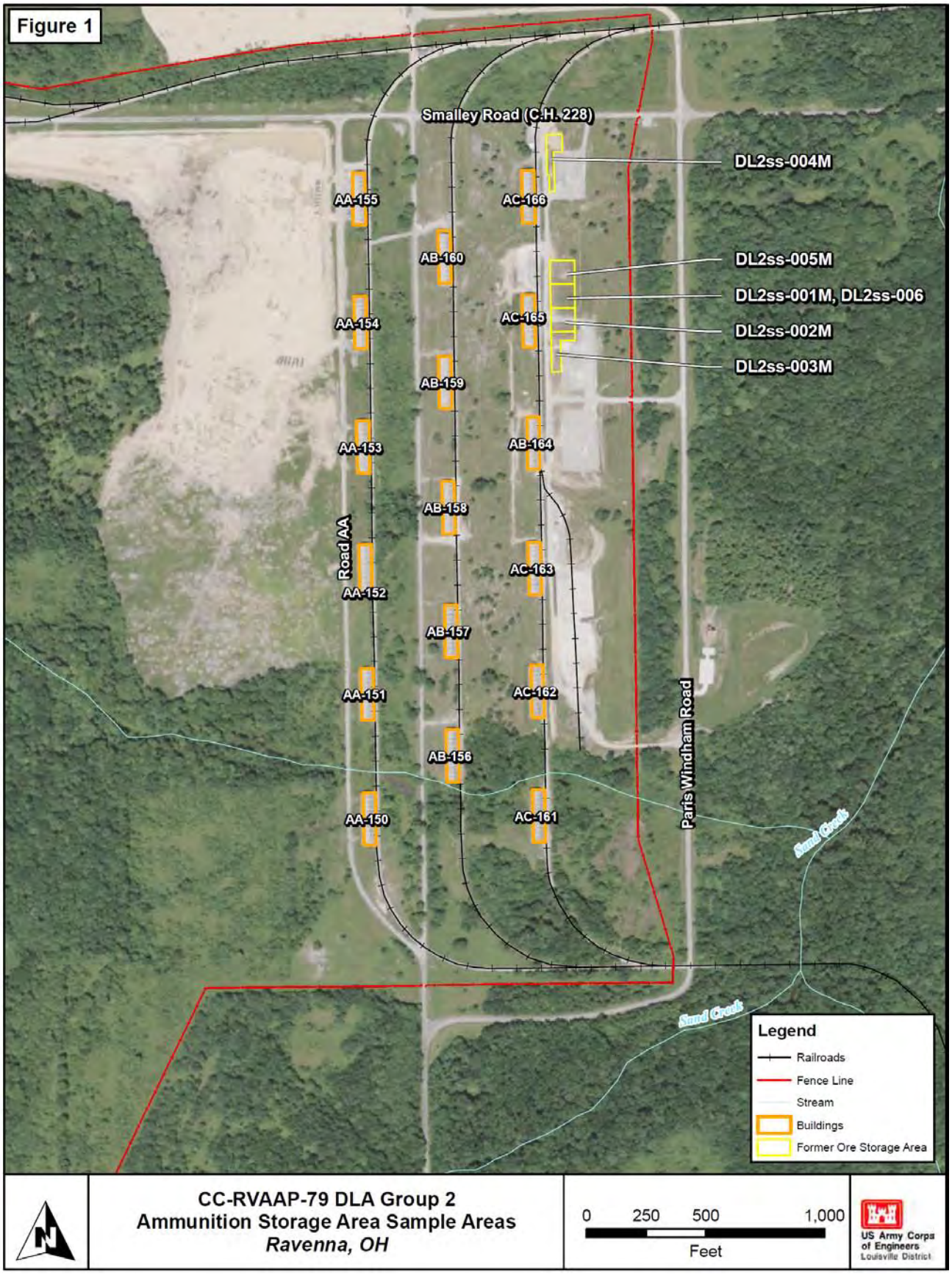
Figure 1
Smalley Road (C.H. 228)
DL2ss-004M
DL2ss-005M
DL2ss-001M, DL2ss-006
DL2ss-002M
DL2ss-003M
AA-155
AC-166
AB-160
AA-154
AC-165
AB-159
AA-153
AB-164
AB-158
Road AA
AA-152
AC-163
AB-157
AA-151
AC-162
AB-156
AA-150
AC-161
Paris Windham Road
Sand Creek
Sand Creek
Legend
Railroads
Fence Line
Stream
Buildings
Former Ore Storage Area
CC-RVAAP-79 DLA Group 2
Ammunition Storage Area Sample Areas
Ravenna, OH
0 250 500 1,000
Feet
US Army Corps of Engineers
Louisville District

Table 1 Screening of Detected Chemicals

	Sample Description	Analyte	Result	DL	Units	Qualifiers	National Guard Trainee FWCUG	Background Value (if > FWCUG)	RSL	Applicable Screening Value Note
Metals	DL2SS-001M-0001-SO	Aluminum	12600	0.04	mg/kg	M	34960			HI
	DL2SS-001M-0001-SO	Antimony	1.3	0.081	mg/kg		1753			HI
	DL2SS-001M-0001-SO	Arsenic	8.1	0.13	mg/kg		27.8			CR
	DL2SS-001M-0001-SO	Barium	124	0.0081	mg/kg	B	3506			HI
	DL2SS-001M-0001-SO	Beryllium	0.44	0.004	mg/kg				160	RSL HI
	DL2SS-001M-0001-SO	Cadmium	0.23	0.006	mg/kg	M	109			CR
	DL2SS-001M-0001-SO	Calcium	3350	0.06	mg/kg					EN
	DL2SS-001M-0001-SO	Chromium	156	0.019	mg/kg	M	1000000			HI
	DL2SS-001M-0001-SO	Cobalt	10.1	0.015	mg/kg	M	70.03			CR
	DL2SS-001M-0001-SO	Copper	443	0.6	mg/kg		253680			HI
	DL2SS-001M-0001-SO	Hexavalent Chromium	3.9	2.6	mg/kg	JM	16.4			HI
	DL2SS-001M-0001-SO	Iron	20500	3	mg/kg	M	1000000			HI
	DL2SS-001M-0001-SO	Lead	32.2	0.04	mg/kg				400	RSL HI
	DL2SS-001M-0001-SO	Magnesium	1590	0.12	mg/kg					EN
	DL2SS-001M-0001-SO	Manganese	803	0.16	mg/kg	Y,M	351	1450		BG
	DL2SS-001M-0001-SO	Mercury	0.031	0.0024	mg/kg	Y	1722			HI
	DL2SS-001M-0001-SO	Nickel	12	0.018	mg/kg		126391			HI
	DL2SS-001M-0001-SO	Potassium	997	11	mg/kg					EN
	DL2SS-001M-0001-SO	Selenium	0.081	0.07	mg/kg	J			390	RSL HI
	DL2SS-001M-0001-SO	Sodium	60.4	4	mg/kg					EN
	DL2SS-001M-0001-SO	Thallium	1.3	0.04	mg/kg	M	477			HI
	DL2SS-001M-0001-SO	Vanadium	17.3	0.011	mg/kg		23045			HI
	DL2SS-001M-0001-SO	Zinc	292	0.04	mg/kg	M	1000000			HI
SVOCs	DL2SS-001M-0001-SO	Benzo(a)anthracene	53	25	ug/kg	J	47700			CR
	DL2SS-001M-0001-SO	Benzo(a)pyrene	46	23	ug/kg	J	4770			CR
	DL2SS-001M-0001-SO	Benzo(b)fluoranthene	86	25	ug/kg		47700			CR
	DL2SS-001M-0001-SO	Benzo(g,h,i)perylene	40	22	ug/kg	J	38151000			HI for Pyrene[1]
	DL2SS-001M-0001-SO	Benzo(k)fluoranthene	48	25	ug/kg	J	477000			CR
	DL2SS-001M-0001-SO	Benzoic acid	450	290	ug/kg	J			240000000	RSL HI
	DL2SS-001M-0001-SO	Bis(2-ethylhexyl)phthalate	110	88	ug/kg	J			3500	RSL CR
	DL2SS-001M-0001-SO	Chrysene	74	25	ug/kg	J	4774000			CR
	DL2SS-001M-0001-SO	Di-n-butylphthalate	120	80	ug/kg	J			6100000	RSL HI
	DL2SS-001M-0001-SO	Fluoranthene	150	26	ug/kg		50868000			HI
	DL2SS-001M-0001-SO	Indeno(1,2,3-cd)pyrene	39	23	ug/kg	J	47700			CR
	DL2SS-001M-0001-SO	Phenanthrene	76	26	ug/kg	J			17000000	RSL HI for Anthracene[1]
	DL2SS-001M-0001-SO	Pyrene	90	26	ug/kg		38151000			HI

J Estimated value

B Analyte detected in associated Method Blank

M Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits

Y Replicate/Duplicate precision outside acceptance limits

HI = National Guard Trainee FWCUG Hazard Index = 1

CR = National Guard Trainee FWCUG Cancer Risk 10^{-5}

BG = Background Value

EN = Essential Nutrient

RSL HI = Regional Screening Level Hazard Index = 1

RSL CR = Regional Screening Level Cancer Risk 10^{-5}

[1] = Surrogate Chemical

DL = Detection Limit

Table 1 Screening of Detected Chemicals

	Sample Description	Analyte	Result	DL	Units	Qualifiers	National Guard Trainee FWCUG	Background Value (if > FWCUG)	RSL	Applicable Screening Value Note
Metals	DL2SS-001M-0002-SO	Aluminum	12500	0.04	mg/kg		34960			HI
	DL2SS-001M-0002-SO	Antimony	0.59	0.081	mg/kg		1753			HI
	DL2SS-001M-0002-SO	Arsenic	9.2	0.13	mg/kg		27.8			CR
	DL2SS-001M-0002-SO	Barium	119	0.0081	mg/kg	B	3506			HI
	DL2SS-001M-0002-SO	Beryllium	0.53	0.04	mg/kg				160	RSL HI
	DL2SS-001M-0002-SO	Cadmium	0.22	0.006	mg/kg		109			CR
	DL2SS-001M-0002-SO	Calcium	3550	0.06	mg/kg					EN
	DL2SS-001M-0002-SO	Chromium	69.2	0.019	mg/kg		1000000			HI
	DL2SS-001M-0002-SO	Cobalt	10	0.015	mg/kg		70.03			CR
	DL2SS-001M-0002-SO	Copper	358	0.6	mg/kg		253680			HI
	DL2SS-001M-0002-SO	Hexavalent Chromium	2.8	2.6	mg/kg	J	16.4			HI
	DL2SS-001M-0002-SO	Iron	20800	3	mg/kg		1000000			HI
	DL2SS-001M-0002-SO	Lead	34	0.04	mg/kg				400	RSL HI
	DL2SS-001M-0002-SO	Magnesium	1610	0.12	mg/kg					EN
	DL2SS-001M-0002-SO	Manganese	1520	0.16	mg/kg		351	1450		BG
	DL2SS-001M-0002-SO	Mercury	0.023	0.0024	mg/kg		1722			HI
	DL2SS-001M-0002-SO	Nickel	12.8	0.018	mg/kg		126391			HI
	DL2SS-001M-0002-SO	Potassium	748	11	mg/kg					EN
	DL2SS-001M-0002-SO	Sodium	42	4	mg/kg					EN
	DL2SS-001M-0002-SO	Thallium	1.4	0.04	mg/kg		477			HI
	DL2SS-001M-0002-SO	Vanadium	17.7	0.011	mg/kg		23045			HI
	DL2SS-001M-0002-SO	Zinc	245	0.04	mg/kg		1000000			HI
SVOCs	DL2SS-001M-0002-SO	Benzo(a)anthracene	45	25	ug/kg	J	47700			CR
	DL2SS-001M-0002-SO	Benzo(a)pyrene	49	23	ug/kg	J	4770			CR
	DL2SS-001M-0002-SO	Benzo(b)fluoranthene	87	25	ug/kg		47700			CR
	DL2SS-001M-0002-SO	Benzo(g,h,i)perylene	36	22	ug/kg	J	38151000			HI for Pyrene
	DL2SS-001M-0002-SO	Benzo(k)fluoranthene	42	25	ug/kg	J	477000			CR
	DL2SS-001M-0002-SO	Chrysene	59	25	ug/kg	J	4774000			CR
	DL2SS-001M-0002-SO	Fluoranthene	69	26	ug/kg	J	50868000			HI
	DL2SS-001M-0002-SO	Indeno(1,2,3-cd)pyrene	39	23	ug/kg	J	47700			CR
	DL2SS-001M-0002-SO	Phenanthrene	26	26	ug/kg	J			17000000	RSL HI for Anthracene[1]
	DL2SS-001M-0002-SO	Pyrene	58	26	ug/kg	J	38151000			HI

J Estimated value

B Analyte detected in associated Method Blank

HI = National Guard Trainee FWCUG Hazard Index = 1

CR = National Guard Trainee FWCUG Cancer Risk 10^{-5}

BG = Background Value

EN = Essential Nutrient

RSL HI = Regional Screening Level Hazard Index = 1

RSL CR = Regional Screening Level Cancer Risk 10^{-5}

[1] = Surrogate Chemical

Highlighted = Result > Screening Criteria

DL = Detection Limit

Table 1 Screening of Detected Chemicals

	Sample Description	Analyte	Result	DL	Units	Qualifiers	National Guard Trainee FWCUG	Background Value (if > FWCUG)	RSL	Applicable Screening Value Note
Metals	DL2SS-001M-0003-SO	Manganese	1200000	41,000	µg/Kg		351000	1450000		BG
	DL2SS-001M-0003-SO	Magnesium	1600000	53,000	µg/Kg					EN
	DL2SS-001M-0003-SO	Cobalt	10000	46	µg/Kg		70030			CR
	DL2SS-001M-0003-SO	Barium	100000	920	µg/Kg		3506000			HI
	DL2SS-001M-0003-SO	Nickel	11000	130	µg/Kg		126391000			HI
	DL2SS-001M-0003-SO	Aluminum	11000000	20,000	µg/Kg		34960000			HI
	DL2SS-001M-0003-SO	Chromium	12000	76	µg/Kg		1000000000			HI
	DL2SS-001M-0003-SO	Calcium	2300000	11,000	µg/Kg					EN
	DL2SS-001M-0003-SO	Lead	20000	31	µg/Kg				400000	RSL HI
	DL2SS-001M-0003-SO	Vanadium	21000	48	µg/Kg		23045000			HI
	DL2SS-001M-0003-SO	Thallium	210	48	µg/Kg		477000			HI
	DL2SS-001M-0003-SO	Iron	23000000	280,000	µg/Kg		1000000000			HI
	DL2SS-001M-0003-SO	Antimony	310	23	µg/Kg		1753000			HI
	DL2SS-001M-0003-SO	Zinc	330000	3,800	µg/Kg		1000000000			HI
	DL2SS-001M-0003-SO	Cadmium	380	34	µg/Kg		109000			CR
	DL2SS-001M-0003-SO	Copper	410000	1,100	µg/Kg		253680000			HI
	DL2SS-001M-0003-SO	Beryllium	470	74	µg/Kg				160000	RSL HI
	DL2SS-001M-0003-SO	Selenium	620	150	µg/Kg				390000	RSL HI
	DL2SS-001M-0003-SO	Potassium	770000	28,000	µg/Kg					EN
	DL2SS-001M-0003-SO	Arsenic	8200	40	µg/Kg		27800			BG
	DL2SS-001M-0003-SO	Silver	35	36	µg/Kg		31049000			HI
	DL2SS-001M-0003-SO	Sodium	39000	9,100	µg/Kg	J				EN
	DL2SS-001M-0003-SO	Mercury	35	1.2	µg/Kg		1722			HI
SVOCs	DL2SS-001M-0003-SO	Di-n-butyl phthalate	10	6.4	µg/Kg	J			6100000	RSL HI
	DL2SS-001M-0003-SO	Anthracene	12	4.9	µg/Kg	J			17000000	RSL HI
	DL2SS-001M-0003-SO	Phenanthrene	17	3.4	µg/Kg	J			17000000	RSL HI for Anthracene[1]
	DL2SS-001M-0003-SO	Bis(2-ethylhexyl) phthalate	21	8.9	µg/Kg	J			3500	RSL CR
	DL2SS-001M-0003-SO	Benzo(g,h,i)perylene	21	9.2	µg/Kg	J	38151000			HI for Pyrene
	DL2SS-001M-0003-SO	Butylbenzyl phthalate	22	7.3	µg/Kg	J			12000000	RSL CR
	DL2SS-001M-0003-SO	Benzo(a)pyrene	34	4.9	µg/Kg	J	4770			CR
	DL2SS-001M-0003-SO	Benzo(a)anthracene	35	4.8	µg/Kg	J	47700			CR
	DL2SS-001M-0003-SO	Chrysene	44	5.1	µg/Kg	J	4774000			CR
	DL2SS-001M-0003-SO	Pyrene	45	8.7	µg/Kg	J	38151000			HI
	DL2SS-001M-0003-SO	Fluoranthene	52	4.8	µg/Kg	J	50868000			HI
	DL2SS-001M-0003-SO	Acenaphthylene	9.3	3.1	µg/Kg	J			3400000	RSL HI for Acenapthene[1]
	DL2SS-001M-0003-SO	Benzo(k)fluoranthene	24	9.9	µg/Kg	Jm	477000			CR
	DL2SS-001M-0003-SO	Benzo(b)fluoranthene	60	5.7	µg/Kg	Jm	47700			CR

J Estimated concentration
M Manual integration used to determine area response

HI = National Guard Trainee FWCUG Hazard Index = 1
CR = National Guard Trainee FWCUG Cancer Risk 10^{-5}
BG = Background Value
EN = Essential Nutrient
RSL HI = Regional Screening Level Hazard Index = 1
RSL CR = Regional Screening Level Cancer Risk 10^{-5}
[1] = Surrogate Chemical
Highlighted = Result > Screening Criteria
DL = Detection Limit

	Sample Description	Analyte	Result	DL	Units	Qualifiers	National Guard Trainee FWCUG	Background Value (if > FWCUG)	RSL	Applicable Screening Value Note
Metals	DL2SS-002M-0001-SO	Aluminum	12400	0.04	mg/kg		34960			HI
	DL2SS-002M-0001-SO	Antimony	0.46	0.081	mg/kg		1753			HI
	DL2SS-002M-0001-SO	Arsenic	8.7	0.13	mg/kg		27.8			CR
	DL2SS-002M-0001-SO	Barium	115	0.0081	mg/kg	B	3506			HI
	DL2SS-002M-0001-SO	Beryllium	0.66	0.04	mg/kg				160	RSL HI
	DL2SS-002M-0001-SO	Cadmium	0.28	0.0061	mg/kg		109			CR
	DL2SS-002M-0001-SO	Calcium	11700	0.061	mg/kg					EN
	DL2SS-002M-0001-SO	Chromium	66.7	0.019	mg/kg		1000000			HI
	DL2SS-002M-0001-SO	Cobalt	7.2	0.015	mg/kg		70.03			CR
	DL2SS-002M-0001-SO	Copper	722	0.61	mg/kg		253680			HI
	DL2SS-002M-0001-SO	Hexavalent Chromium	4.9	2.6	mg/kg	J	16.4			HI
	DL2SS-002M-0001-SO	Iron	21000	3	mg/kg		1000000			HI
	DL2SS-002M-0001-SO	Lead	36.4	0.04	mg/kg				400	RSL HI
	DL2SS-002M-0001-SO	Magnesium	1750	0.12	mg/kg					EN
	DL2SS-002M-0001-SO	Manganese	886	0.16	mg/kg		351	1450		BG
	DL2SS-002M-0001-SO	Mercury	0.029	0.0024	mg/kg		1722			HI
	DL2SS-002M-0001-SO	Nickel	10.8	0.018	mg/kg		126391			HI
	DL2SS-002M-0001-SO	Potassium	859	11	mg/kg					EN
	DL2SS-002M-0001-SO	Sodium	60.9	4	mg/kg					EN
	DL2SS-002M-0001-SO	Thallium	0.73	0.04	mg/kg		477			HI
	DL2SS-002M-0001-SO	Vanadium	15.6	0.011	mg/kg		23045			HI
	DL2SS-002M-0001-SO	Zinc	508	0.04	mg/kg		1000000			HI

J Estimated value
B Analyte detected in associated Method Blank

HI = National Guard Trainee FWCUG Hazard Index = 1
CR = National Guard Trainee FWCUG Cancer Risk 10^{-5}
BG = Background Value
EN = Essential Nutrient
RSL HI = Regional Screening Level Hazard Index = 1
RSL CR = Regional Screening Level Cancer Risk 10^{-5}
DL = Detection Limit

Table 1 Screening of Detected Chemicals

	Sample Description	Analyte	Result	DL	Units	Qualifiers	National Guard Trainee FWCUG	Background Value (if > FWCUG)	RSL	Applicable Screening Value Note
Metals	DL2SS-003M-0001-SO	Aluminum	13300	0.04	mg/kg		34960			HI
	DL2SS-003M-0001-SO	Antimony	0.73	0.081	mg/kg		1753			HI
	DL2SS-003M-0001-SO	Arsenic	9.3	0.13	mg/kg		27.8			CR
	DL2SS-003M-0001-SO	Barium	73.1	0.0081	mg/kg	B	3506			HI
	DL2SS-003M-0001-SO	Beryllium	0.47	0.04	mg/kg				160	RSL HI
	DL2SS-003M-0001-SO	Cadmium	0.17	0.006	mg/kg		109			CR
	DL2SS-003M-0001-SO	Calcium	4690	0.06	mg/kg					EN
	DL2SS-003M-0001-SO	Chromium	89.7	0.019	mg/kg		1000000			HI
	DL2SS-003M-0001-SO	Cobalt	7	0.015	mg/kg		70.03			CR
	DL2SS-003M-0001-SO	Copper	159	0.06	mg/kg		253680			HI
	DL2SS-003M-0001-SO	Iron	20500	3	mg/kg		1000000			HI
	DL2SS-003M-0001-SO	Lead	35.8	0.04	mg/kg				400	RSL HI
	DL2SS-003M-0001-SO	Magnesium	2010	0.12	mg/kg					EN
	DL2SS-003M-0001-SO	Manganese	628	0.16	mg/kg		351	1450		BG
	DL2SS-003M-0001-SO	Mercury	0.024	0.0024	mg/kg		1722			HI
	DL2SS-003M-0001-SO	Nickel	12.9	0.018	mg/kg		126391			HI
	DL2SS-003M-0001-SO	Potassium	731	11	mg/kg					EN
	DL2SS-003M-0001-SO	Sodium	42.6	4	mg/kg					EN
	DL2SS-003M-0001-SO	Thallium	0.6	0.04	mg/kg		477			HI
	DL2SS-003M-0001-SO	Vanadium	16.9	0.011	mg/kg		23045			HI
	DL2SS-003M-0001-SO	Zinc	128	0.04	mg/kg		1000000			HI
	B Analyte detected in associated Method Blank									
	HI = National Guard Trainee FWCUG Hazard Index = 1									
	CR = National Guard Trainee FWCUG Cancer Risk 10^{-5}									
	BG = Background Value									
	EN = Essential Nutrient									
	RSL HI = Regional Screening Level Hazard Index = 1									
	RSL CR = Regional Screening Level Cancer Risk 10^{-5}									
	DL = Detection Limit									

	Sample Description	Analyte	Result	DL	Units	Qualifiers	National Guard Trainee FWCUG	Background Value (if > FWCUG)	RSL	Applicable Screening Value Note
Metals	DL2SS-004M-0001-SO	Aluminum	12300	0.04	mg/kg		34960			HI
	DL2SS-004M-0001-SO	Antimony	0.82	0.081	mg/kg		1753			HI
	DL2SS-004M-0001-SO	Arsenic	8.5	0.13	mg/kg		27.8			CR
	DL2SS-004M-0001-SO	Barium	80.3	0.0081	mg/kg	B	3506			HI
	DL2SS-004M-0001-SO	Beryllium	0.49	0.04	mg/kg				160	RSL HI
	DL2SS-004M-0001-SO	Cadmium	0.25	0.006	mg/kg		109			CR
	DL2SS-004M-0001-SO	Calcium	5740	0.06	mg/kg					EN
	DL2SS-004M-0001-SO	Chromium	95.4	0.019	mg/kg		1000000			HI
	DL2SS-004M-0001-SO	Cobalt	7.3	0.015	mg/kg		70.03			CR
	DL2SS-004M-0001-SO	Copper	72.5	0.06	mg/kg		253680			HI
	DL2SS-004M-0001-SO	Hexavalent Chromium	4.9	2.6	mg/kg	J	16.4			HI
	DL2SS-004M-0001-SO	Iron	18500	3	mg/kg		1000000			HI
	DL2SS-004M-0001-SO	Lead	32.2	0.04	mg/kg				400	RSL HI
	DL2SS-004M-0001-SO	Magnesium	2040	0.12	mg/kg					EN
	DL2SS-004M-0001-SO	Manganese	748	0.16	mg/kg		351	1450		BG
	DL2SS-004M-0001-SO	Mercury	0.028	0.0024	mg/kg		1722			HI
	DL2SS-004M-0001-SO	Nickel	14.5	0.018	mg/kg		126391			HI
	DL2SS-004M-0001-SO	Potassium	937	11	mg/kg					EN
	DL2SS-004M-0001-SO	Sodium	56.6	4	mg/kg					EN
	DL2SS-004M-0001-SO	Thallium	0.64	0.04	mg/kg		477			HI
	DL2SS-004M-0001-SO	Vanadium	14.9	0.011	mg/kg		23045			HI
	DL2SS-004M-0001-SO	Zinc	116	0.04	mg/kg		1000000			HI
	J Estimated value									
	B Analyte detected in associated Method Blank									
	HI = National Guard Trainee FWCUG Hazard Index = 1									
	CR = National Guard Trainee FWCUG Cancer Risk 10^{-5}									
	BG = Background Value									
	EN = Essential Nutrient									
	RSL HI = Regional Screening Level Hazard Index = 1									
	RSL CR = Regional Screening Level Cancer Risk 10^{-5}									
	DL = Detection Limit									

Table 1 Screening of Detected Chemicals

	Sample Description	Analyte	Result	DL	Units	Qualifiers	National Guard Trainee FWCUG	Background Value (if > FWCUG)	RSL	Applicable Screening Value Note
Metals	DL2SS-005M-0001-SO	Aluminum	12900	0.04	mg/kg		34960			HI
	DL2SS-005M-0001-SO	Antimony	0.32	0.08	mg/kg		1753			HI
	DL2SS-005M-0001-SO	Arsenic	9.7	0.13	mg/kg		27.8			CR
	DL2SS-005M-0001-SO	Barium	62.4	0.008	mg/kg	B	3506			HI
	DL2SS-005M-0001-SO	Beryllium	0.46	0.04	mg/kg				160	RSL HI
	DL2SS-005M-0001-SO	Cadmium	0.21	0.006	mg/kg		109			CR
	DL2SS-005M-0001-SO	Calcium	1870	0.06	mg/kg					EN
	DL2SS-005M-0001-SO	Chromium	38.2	0.019	mg/kg		1000000			HI
	DL2SS-005M-0001-SO	Cobalt	7.5	0.015	mg/kg		70.03			CR
	DL2SS-005M-0001-SO	Copper	194	0.06	mg/kg		253680			HI
	DL2SS-005M-0001-SO	Iron	20100	3	mg/kg		1000000			HI
	DL2SS-005M-0001-SO	Lead	31.4	0.04	mg/kg				400	RSL HI
	DL2SS-005M-0001-SO	Magnesium	1900	0.12	mg/kg					EN
	DL2SS-005M-0001-SO	Manganese	782	0.16	mg/kg		351	1450		BG
	DL2SS-005M-0001-SO	Mercury	0.028	0.0024	mg/kg		1722			HI
	DL2SS-005M-0001-SO	Nickel	12.7	0.018	mg/kg		126391			HI
	DL2SS-005M-0001-SO	Potassium	578	11	mg/kg					EN
	DL2SS-005M-0001-SO	Sodium	25	4	mg/kg					EN
	DL2SS-005M-0001-SO	Thallium	0.68	0.04	mg/kg		477			HI
	DL2SS-005M-0001-SO	Vanadium	17	0.011	mg/kg		23045			HI
	DL2SS-005M-0001-SO	Zinc	180	0.04	mg/kg		1000000			HI

B Analyte detected in associated Method Blank

HI = National Guard Trainee FWCUG Hazard Index = 1

CR = National Guard Trainee FWCUG Cancer Risk 10^{-5}

BG = Background Value

EN = Essential Nutrient

RSL HI = Regional Screening Level Hazard Index = 1

RSL CR = Regional Screening Level Cancer Risk 10^{-5}

DL = Detection Limit

	Sample Description	Analyte	Result	DL	Units	Qualifiers	RSL	Applicable Screening Value Note
VOCs	DLSS-006-0003-SO	Acetone	110	0.39	µg/Kg-dry		61000000	RSL HI
	DLSS-006-0003-SO	2-Butanone	8.2	0.49	µg/Kg-dry		28000000	RSL HI

HI = National Guard Trainee FWCUG Hazard Index = 1

CR = National Guard Trainee FWCUG Cancer Risk 10^{-5}

BG = Background Value

EN = Essential Nutrient

RSL HI = Regional Screening Level Hazard Index = 1

RSL CR = Regional Screening Level Cancer Risk 10^{-5}

DL = Detection Limit

Table 2 Summary List of Samples and Analysis

Description			Analysis							
Location	Sample Type	Sample ID	EXPL	PROP	MET	PCP	SVOC	PCB	PEST	VOC
Group 2	Primary	DL2ss-001M-0001-SO	x	x	x	x	x	x	x	
Group 2	Blind Duplicate	DL2ss-001M-0002-SO	x	x	x	x	x	x	x	
Group 2	Field Duplicate	DL2ss-001M-0003-SO	x	x	x	x	x	x	x	
Group 2	MS		x	x	x	x	x	x	x	
Group 2	MSD		x	x	x	x	x	x	x	
Group 2	VOC	DL2ss-006-0001-SO								x
Group 2	VOC Blind Duplicate	DL2ss-006-0002-SO								x
Group 2	VOC Field Duplicate	DL2ss-006-0003-SO								x
Group 2	VOC MS									x
Group 2	VOC MSD									x
Group 2	Primary	DL2ss-002M-0001-SO			x					
Group 2	Primary	DL2ss-003M-0001-SO			x					
Group 2	Primary	DL2ss-004M-0001-SO			x					
Group 2	Primary	DL2ss-005M-0001-SO			x					

Triplicate

Field Sampling Report

Project Name: RAVENNA ARMY AMMUNITION PLANT, RAVENNA, OHIO SAMPLING AT GROUP 2 ORE STORAGE AREAS

Location ID: DL2ss-001M-001-SO, 0002-SO, 0003-SO

Date: 3/8/11 **Weather Conditions** Clear, Cool **Temperature** 33°F

Sampling Information

Source	Groundwater / Product		Surface Water		Soils / Sediments / Sludge			
Method	Bailer		Sample Bottle		Scoop		Trowel	
	Pump		Bacon Bomb		Bowl		Hand Auger	
	Micro-purge				Push Probe	X	Plastic Liner	
Type/Construction					Mattocks			
Miscellaneous	**Well Purging Form** Yes - No							

Sample Collection: 1010 hrs **Sample Type:** Composite - (MI) - Grab If MI, # of increments taken: 30 **Location:** Plotted on Map - (Staked in Field) Estimated -

Sample Depth: 0-1 FT (below surface) Measured - (Surveyed) **Decon:** Dedicated - Each Day - (Each Location)

Field Parameters (at time of sample)		**Analytical Parameters**				**Other Parameters**			
PID / FID Readings:	ppm	VOC		TPH GRO		Corrosivity			
Background:		SVOC	X	TPH DRO		Reactivity Sulfide/Cyanide			
		Explosives	X	Chromium +6	X	Ignitability			
Sample:	ppm	Propellants	X	Nitrate					
Water Level	FT	TAL Metals + Hg	X	Asbestos		**QA Samples**			
Temperature	°C	Pesticides/PCBs	X	Pentachlorophenol		MS/MSD	(Yes) / No 0001		NA
Sp. Conductance:	uMHOs	Cyanides				Duplicate ID	(Yes) / No		NA
pH	units	TOC				Equipment Rinse ID	Yes / No		NA
Turbidity	N.T.U.	Grain Size				Trip Blank ID	Yes / No		NA

Sample Description

Color: _____ Odor: _____

Staining: _____

Texture: _____

Sorting: _____

Plasticity: _____

Moisture: _____

0-1" dark organic material

1"-5" gray cohesive clay + silt

5"-12" light brown to reddish cohesive dry clay w/ silt + sand

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Derek Kinder / Eric Cheng (Please Print)

Signature: _____

Reviewed by: ERIC CHENG (Please Print)

Signature: _____ Date: 3/14/11

Field Sampling Report

Project Name: RAVENNA ARMY AMMUNITION PLANT, RAVENNA, OHIO SAMPLING AT GROUP 2 ORE STORAGE AREAS

Location ID: DL2ss-002M-0001-SO

Date: 3/8/11 **Weather Conditions** Partly Cloudy, Cool **Temperature** 37°F

Sampling Information

Source	Groundwater / Product		Surface Water		Soils / Sediments / Sludge			
Method	Bailer		Sample Bottle		Scoop		Trowel	
	Pump		Bacon Bomb		Bowl		Hand Auger	
	Micro-purge				Push Probe	X	Plastic Liner	
Type/Construction					Mattocks			
Miscellaneous	**Well Purging Form** Yes - No							

Sample Collection: 11:30 hrs **Sample Type:** Composite - (MI) - Grab If MI, # of increments taken: 30 **Location:** Plotted on Map - (Staked in Field) Estimated -

Sample Depth: 0-1 FT (below surface) Measured - (Surveyed) **Decon:** Dedicated - Each Day - (Each Location)

Field Parameters (at time of sample)		**Analytical Parameters**				**Other Parameters**			
PID / FID Readings:		VOC		TPH GRO		Corrosivity			
Background:	ppm	SVOC		TPH DRO		Reactivity Sulfide/Cyanide			
		Explosives		Chromium +6	X	Ignitability			
Sample:	ppm	Propellants		Nitrate					
Water Level	FT	TAL Metals +Hg	X	Asbestos		**QA Samples**			
Temperature	°C	Pesticides/PCBs		Pentachlorophenol		MS/MSD	Yes / No		NA
Sp. Conductance:	uMHOs	Cyanides				Duplicate ID	Yes / No		NA
pH	units	TOC				Equipment Rinse ID	Yes / No		NA
Turbidity	N.T.U.	Grain Size				Trip Blank ID	Yes / No		NA

Sample Description

Color: Odor: Staining:

Texture: Sorting:

Plasticity:

Moisture:

0-1" dark organic topsoil
1-5" brown silty clay
5-12" light brown to light red cohesive clay

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID:

Name:

Agency/Company:

Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Eric Cheng (Please Print)

Signature: Eric Cheng

Reviewed by: Derek Kinder (Please Print)

Signature: Derek Kinder Date: 3/10/11

Field Sampling Report

Project Name: RAVENNA ARMY AMMUNITION PLANT, RAVENNA, OHIO SAMPLING AT GROUP 2 ORE STORAGE AREAS

Location ID: DL2 ss-003M-0001-SO **Weather Conditions:** partly cloudy / ~~clear~~, cool **Temperature:** 37°F

Date: 3/8/11

Sampling Information

Source	Groundwater / Product		Surface Water		Soils / Sediments / Sludge			
Method	Bailer		Sample Bottle		Scoop		Trowel	
	Pump		Bacon Bomb		Bowl		Hand Auger	
	Micro-purge				Push Probe	X	Plastic Liner	
Type/Construction					Mattocks			
Miscellaneous	Well Purging Form Yes - No							

Sample Collection: 1110 hrs **Sample Type:** Composite - (M) - Grab If MI, # of increments taken: 30 **Location:** Plotted on Map - Staked in Field - Estimated -

Sample Depth: 0-1 FT (below surface) Measured (Surveyed) **Decon:** Dedicated - Each Day - (Each Location)

Field Parameters (at time of sample)		Analytical Parameters				Other Parameters			
PID / FID Readings:		VOC		TPH GRO		Corrosivity			
Background:	ppm	SVOC		TPH DRO		Reactivity Sulfide/Cyanide			
		Explosives		Chromium +6	X	Ignitability			
Sample:	ppm	Propellants		Nitrate					
Water Level	FT	TAL Metals +Hg	X	Asbestos		QA Samples			
Temperature	°C	Pesticides/PCBs		Pentachlorophenol		MS/MSD	Yes / No		NA
Sp. Conductance:	uMHOs	Cyanides				Duplicate ID	Yes / No		NA
pH	units	TOC				Equipment Rinse ID	Yes / No		NA
Turbidity	N.T.U.	Grain Size				Trip Blank ID	Yes / No		NA

Sample Description

Color: Col Odor: Odor: Staining: Staining:

Texture: Texture: Sorting: Sorting:

Plasticity: Plasticity:

Moisture: Moisture:

0-1" dark organic material
1"-5" grey cohesive clay+silt
5"-12" light brown to redish cohesive dry clay w/silt + sand

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID:

Name:

Agency/Company:

Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Derek Kinder (Please Print) Reviewed by: ERIC CHENG (Please Print)

Signature: Signature: Date: 3/14/11

Field Sampling Report

Project Name: RAVENNA ARMY AMMUNITION PLANT, RAVENNA, OHIO SAMPLING AT GROUP 2 ORE STORAGE AREAS

Location ID: NLSS-004M-0001-SO

Date: 3/8/11 **Weather Conditions** Clear, Cool **Temperature** 30°F

Sampling Information

Source	Groundwater / Product		Surface Water		Soils / Sediments / Sludge			
Method	Bailer		Sample Bottle		Scoop		Trowel	
	Pump		Bacon Bomb		Bowl		Hand Auger	
	Micro-purge				Push Probe	X	Plastic Liner	
Type/Construction					Mattocks			
Miscellaneous	**Well Purging Form** Yes - No							

Sample Collection: 0930 hrs **Sample Type:** Composite - (MI) - Grab If MI, # of increments taken: 30 **Location:** Plotted on Map (Staked in Field) Estimated -

Sample Depth: 0-1 FT (below surface) Measured - (Surveyed) **Decon:** Dedicated - Each Day - (Each Location)

Field Parameters (at time of sample)		**Analytical Parameters**				**Other Parameters**			
PID / FID Readings:	ppm	VOC		TPH GRO		Corrosivity			
Background:		SVOC		TPH DRO		Reactivity Sulfide/Cyanide			
		Explosives		Chromium +6	X	Ignitability			
Sample:	ppm	Propellants		Nitrate					
Water Level	FT	TAL Metals +HG	X	Asbestos		**QA Samples**			
Temperature	°C	Pesticides/PCBs		Pentachlorophenol		MS/MSD	Yes / No		NA
Sp. Conductance:	uMHOs	Cyanides				Duplicate ID	Yes / No		NA
pH	units	TOC				Equipment Rinse ID	Yes / No		NA
Turbidity	N.T.U.	Grain Size				Trip Blank ID	Yes / No		NA

Sample Description

Color: Dark Brown Monolithic fill

Odor: Staining:

Texture: Sorting:

Plasticity:

Moisture:

Loose silty Clay

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID:

Name:

Agency/Company:

Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Derek Kinder (Please Print) Signature:

Reviewed by: Eric Cheng (Please Print) Signature: Date: 3/14/11

Field Sampling Report

Project Name: RAVENNA ARMY AMMUNITION PLANT, RAVENNA, OHIO SAMPLING AT GROUP 2 ORE STORAGE AREAS

Location ID: DL2-005M-0001-SO

Date: 3/8/11 **Weather Conditions** Clear, Cool **Temperature** 33°F

Sampling Information

Source	Groundwater / Product		Surface Water		Soils / Sediments / Sludge			
Method	Bailer		Sample Bottle		Scoop		Trowel	
	Pump		Bacon Bomb		Bowl		Hand Auger	
	Micro-purge				Push Probe	X	Plastic Liner	
Type/Construction					Mattocks			
Miscellaneous	**Well Purging Form** Yes - No							

Sample Collection: 1010 hrs

Sample Type: Composite - (MI) - Grab
If MI, # of increments taken: 30

Location: Plotted on Map - (Staked in Field)
Estimated -

Sample Depth: 0-1 FT (below surface)

Measured - (Surveyed)

Decon: Dedicated - Each Day - (Each Location)

Field Parameters (at time of sample)		**Analytical Parameters**				**Other Parameters**			
PID / FID Readings:		VOC		TPH GRO		Corrosivity			
Background:	ppm	SVOC		TPH DRO		Reactivity Sulfide/Cyanide			
		Explosives		Chromium +6	X	Ignitability			
Sample:	ppm	Propellants		Nitrate					
Water Level	FT	TAL Metals +Hg	X	Asbestos		**QA Samples**			
Temperature	°C	Pesticides/PCBs		Pentachlorophenol		MS/MSD	Yes / No		NA
Sp. Conductance:	uMHOs	Cyanides				Duplicate ID	Yes / No		NA
pH	units	TOC				Equipment Rinse ID	Yes / No		NA
Turbidity	N.T.U.	Grain Size				Trip Blank ID	Yes / No		NA

Sample Description

Color: Odor: Staining:

Texture: Sorting:

Plasticity:

Moisture:

Light Brown to Yellowish Clay
Moisture - w/ Silt

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID:

Name:

Agency/Company:

Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Derek Kinder / Tom Chapman (Please Print)

Signature:

Reviewed by: ERIC CHENG (Please Print)

Signature:

Date: 3/14/11

VOCs

Field Sampling Report

Project Name: RAVENNA ARMY AMMUNITION PLANT, RAVENNA, OHIO SAMPLING AT GROUP 2 ORE STORAGE AREAS

Location ID: DL2ss-006-0001-SO, DL2ss-006-0002-SO, DL2ss-0003-SO Triplicate

Date: 3/8/11 **Weather Conditions** Partly Cloudy, Cool **Temperature** 37°F

Sampling Information

Source	Groundwater / Product		Surface Water		Soils / Sediments / Sludge			
Method	Bailer		Sample Bottle		Scoop		Trowel	
	Pump		Bacon Bomb		Bowl		Hand Auger	
	Micro-purge				~~Push Probe~~ DSK	X	Plastic Liner	
Type/Construction					Mattocks		TerraCore	X
Miscellaneous	Well Purging Form Yes - No							

Sample Collection: 1115 hrs

Sample Type: Composite - MI - (Grab) If MI, # of increments taken: _____

Location: Plotted on Map - (Staked in Field) Estimated -

Sample Depth: 0-1' FT (below surface)

Measured - (Surveyed)

Decon: (Dedicated) - Each Day - Each Location

Taken from appx middle of sampling area.

Field Parameters (at time of sample)		Analytical Parameters				Other Parameters			
PID / FID Readings:		VOC	X	TPH GRO		Corrosivity			
Background:	ppm	SVOC		TPH DRO		Reactivity Sulfide/Cyanide			
		Explosives		Chromium +6		Ignitability			
Sample:	ppm	Propellants		Nitrate					
Water Level	FT	TAL Metals		Asbestos		QA Samples			
Temperature	°C	Pesticides/PCBs		Pentachlorophenol		MS/MSD	(Yes) / No 0001		NA
Sp. Conductance:	uMHOs	Cyanides				Duplicate ID	(Yes) / No		NA
pH	units	TOC				Equipment Rinse ID	Yes / No		NA
Turbidity	N.T.U.	Grain Size				Trip Blank ID	Yes / No		NA

Sample Description

Color: _____ Odor: _____ Staining: _____

Texture: _____ Sorting: _____

Plasticity: _____

Moisture: _____

light brown to red and grey cohesive wet clay w/ silt & sand

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Derek Kinder (Please Print)

Signature: DSK

Reviewed by: ERIC CHENG (Please Print)

Signature: EC Date: 3/14/11

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ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Sample Condition Report
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

For analyses that require NELAP accreditation, all analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted in this document.

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ANALYTICAL REPORT

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

Project Name: RAVENNA - GROUP 2 ORE
Contract #: 2263
Project #: W912QR-10-D-0024
Folder #: 83966
Purchase Order #: TASK ORDER 0010

Arrival Temperature: See COC
Report Date: 3/31/2011
Date Received: 3/9/2011
Reprint Date: 3/31/2011

CT LAB#: 898909 Sample Description: DL2SS-001M-0001-SO Sampled: 3/8/2011 1010

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	99.3	%				1			03/16/2011 17:00	KMB	EPA 8000C
Hexavalent Chromium	3.9	mg/kg	2.6	8.7	10	1	J M	3/21/2011 14:00	03/22/2011 13:00	EJC	EPA 3060A/7196A ^
Nitrocellulose	<13	mg/kg	13	44	100	1	M	3/22/2011 09:00	03/26/2011 09:19	RLD	EPA 9056M
Metals Results											
Aluminum	12600	mg/kg	0.040	0.12	0.24	1	M	3/15/2011 10:00	03/16/2011 22:38	NAH	EPA 6010C ^
Antimony	1.3	mg/kg	0.081	0.27	0.54	1		3/15/2011 10:00	03/16/2011 22:38	NAH	EPA 6010C ^
Arsenic	8.1	mg/kg	0.13	0.45	0.91	1		3/15/2011 10:00	03/16/2011 22:38	NAH	EPA 6010C ^
Barium	124	mg/kg	0.0081	0.027	0.048	1	B	3/15/2011 10:00	03/16/2011 22:38	NAH	EPA 6010C ^
Beryllium	0.44	mg/kg	0.0040	0.012	0.024	1		3/15/2011 10:00	03/16/2011 22:38	NAH	EPA 6010C ^
Cadmium	0.23	mg/kg	0.0060	0.021	0.042	1	M	3/15/2011 10:00	03/16/2011 22:38	NAH	EPA 6010C ^
Calcium	3350	mg/kg	0.060	0.20	0.91	1		3/15/2011 10:00	03/16/2011 22:38	NAH	EPA 6010C ^
Chromium	156	mg/kg	0.019	0.063	0.25	1	M	3/15/2011 10:00	03/16/2011 22:38	NAH	EPA 6010C ^
Cobalt	10.1	mg/kg	0.015	0.049	0.099	1	M	3/15/2011 10:00	03/16/2011 22:38	NAH	EPA 6010C ^
Copper	443	mg/kg	0.60	2.0	3.8	10		3/15/2011 10:00	03/16/2011 21:08	NAH	EPA 6010C ^
Iron	20500	mg/kg	3.0	10	18	10	M	3/15/2011 10:00	03/16/2011 21:08	NAH	EPA 6010C ^
Lead	32.2	mg/kg	0.040	0.14	0.24	1		3/15/2011 10:00	03/16/2011 22:38	NAH	EPA 6010C ^
Magnesium	1590	mg/kg	0.12	0.40	0.73	1		3/15/2011 10:00	03/16/2011 22:38	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 898909 Sample Description: DL2SS-001M-0001-SO Sampled: 3/8/2011 1010

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Manganese	803	mg/kg	0.16	0.52	1.2	10	Y,M	3/15/2011 10:00	03/16/2011 21:08	NAH	EPA 6010C ^
Nickel	12.0	mg/kg	0.018	0.061	0.12	1		3/15/2011 10:00	03/16/2011 22:38	NAH	EPA 6010C ^
Selenium	0.081	mg/kg	0.070	0.21	0.42	1	J	3/15/2011 10:00	03/16/2011 22:38	NAH	EPA 6010C ^
Silver	<0.017	mg/kg	0.017	0.056	0.22	1		3/15/2011 10:00	03/16/2011 22:38	NAH	EPA 6010C ^
Thallium	1.3	mg/kg	0.040	0.14	0.56	1	M	3/15/2011 10:00	03/16/2011 22:38	NAH	EPA 6010C ^
Vanadium	17.3	mg/kg	0.011	0.034	0.14	1		3/15/2011 10:00	03/16/2011 22:38	NAH	EPA 6010C ^
Zinc	292	mg/kg	0.040	0.12	0.48	1	M	3/15/2011 10:00	03/16/2011 22:38	NAH	EPA 6010C ^
Potassium	997	mg/kg	11	36	150	1		3/15/2011 10:00	03/21/2011 13:46	NAH	EPA 6010C ^
Sodium	60.4	mg/kg	4.0	13	52	1		3/15/2011 10:00	03/21/2011 13:46	NAH	EPA 6010C ^
Mercury	0.031	mg/kg	0.0024	0.0080	0.0080	1	Y	3/21/2011 14:25	03/22/2011 10:30	AMA	EPA 7471A ^
Organic Results											
1,2,4-Trichlorobenzene	<21	ug/kg	21	70	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
1,2-Dichlorobenzene	<24	ug/kg	24	80	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
1,3-Dichlorobenzene	<20	ug/kg	20	68	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
1,4-Dichlorobenzene	<19	ug/kg	19	64	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
1-Methylnaphthalene	<25	ug/kg	25	84	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C
2,4,5-Trichlorophenol	<130	ug/kg	130	450	510	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
2,4,6-Trichlorophenol	<130	ug/kg	130	450	510	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
2,4-Dichlorophenol	<120	ug/kg	120	410	510	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
2,4-Dimethylphenol	<100	ug/kg	100	330	400	1	M	3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
2,4-Dinitrophenol	<700	ug/kg	700	2300	2000	1	M	3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
2,4-Dinitrotoluene	<24	ug/kg	24	80	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
2,6-Dichlorophenol	<140	ug/kg	140	490	510	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
2,6-Dinitrotoluene	<24	ug/kg	24	82	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
2-Chloronaphthalene	<23	ug/kg	23	77	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
2-Chlorophenol	<340	ug/kg	340	1100	510	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
2-Methylnaphthalene	<25	ug/kg	25	84	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
2-Methylphenol	<430	ug/kg	430	1400	1000	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 898909 Sample Description: DL2SS-001M-0001-SO Sampled: 3/8/2011 1010

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Nitroaniline	<23	ug/kg	23	79	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
2-Nitrophenol	<280	ug/kg	280	950	510	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
3 & 4-Methylphenol	<660	ug/kg	660	2200	2000	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
3,3'-Dichlorobenzidine	<150	ug/kg	150	500	510	1	M	3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
3-Nitroaniline	<22	ug/kg	22	73	1000	1	M	3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
4,6-Dinitro-2-methylphenol	<270	ug/kg	270	910	1000	1	M	3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
4-Bromophenyl-phenyl ether	<25	ug/kg	25	84	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
4-Chloro-3-methylphenol	<380	ug/kg	380	1300	510	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
4-Chloroaniline	<39	ug/kg	39	130	400	1	M,Y	3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
4-Chlorophenyl-phenyl ether	<26	ug/kg	26	88	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
4-Nitroaniline	<30	ug/kg	30	100	1000	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
4-Nitrophenol	<400	ug/kg	400	1300	1000	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Acenaphthene	<24	ug/kg	24	81	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Acenaphthylene	<24	ug/kg	24	82	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Acetophenone	<76	ug/kg	76	250	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Aniline	<31	ug/kg	31	100	400	1	M	3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C
Anthracene	<24	ug/kg	24	82	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Azobenzene & 1,2-Diphenylhydra	<56	ug/kg	56	180	810	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Benzidine	<960	ug/kg	960	3200	2000	1	M	3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Benzo(a)anthracene	53	ug/kg	25	85	400	1	J	3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Benzo(a)pyrene	46	ug/kg	23	79	400	1	J	3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Benzo(b)fluoranthene	86	ug/kg	25	86	400	1	J	3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Benzo(g,h,i)perylene	40	ug/kg	22	74	400	1	J	3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Benzo(k)fluoranthene	48	ug/kg	25	86	400	1	J	3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Benzoic acid	450	ug/kg	290	990	2000	1	J	3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Benzyl alcohol	<84	ug/kg	84	280	1000	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Bis(2-chloroethoxy)methane	<23	ug/kg	23	77	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Bis(2-chloroethyl)ether	<25	ug/kg	25	85	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Bis(2-chloroisopropyl)ether	<30	ug/kg	30	100	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 898909 Sample Description: DL2SS-001M-0001-SO Sampled: 3/8/2011 1010

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bis(2-ethylhexyl)phthalate	110	ug/kg	88	290	1000	1	J	3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Butylbenzylphthalate	<74	ug/kg	74	240	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Carbazole	<28	ug/kg	28	95	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Chrysene	74	ug/kg	25	85	400	1	J	3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Di-n-butylphthalate	120	ug/kg	80	260	400	1	J	3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Di-n-octylphthalate	<60	ug/kg	60	200	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Dibenzo(a,h)anthracene	<22	ug/kg	22	76	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Dibenzofuran	<24	ug/kg	24	82	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Diethylphthalate	<65	ug/kg	65	220	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Dimethylphthalate	<64	ug/kg	64	210	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Fluoranthene	150	ug/kg	26	87	400	1	J	3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Fluorene	<25	ug/kg	25	86	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Hexachlorobenzene	<28	ug/kg	28	95	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Hexachlorobutadiene	<63	ug/kg	63	210	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Hexachlorocyclopentadiene	<53	ug/kg	53	170	400	1	Y	3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Hexachloroethane	<33	ug/kg	33	110	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Indeno(1,2,3-cd)pyrene	39	ug/kg	23	76	400	1	J	3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Isophorone	<51	ug/kg	51	170	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
N-Nitroso-di-n-propylamine	<71	ug/kg	71	230	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
N-Nitrosodimethylamine	<79	ug/kg	79	260	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
N-Nitrosodiphenylamine & Diphn	<51	ug/kg	51	160	810	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
N-Nitrosopyrrolidine	<57	ug/kg	57	190	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Naphthalene	<21	ug/kg	21	72	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Nitrobenzene	<60	ug/kg	60	200	400	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Pentachlorophenol	<240	ug/kg	240	810	1000	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Phenanthrene	76	ug/kg	26	89	400	1	J	3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Phenol	<160	ug/kg	160	540	510	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Pyrene	90	ug/kg	26	87	400	1	J	3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^
Pyridine	<39	ug/kg	39	130	400	1	Q,M	3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 898909 Sample Description: DL2SS-001M-0001-SO Sampled: 3/8/2011 1010

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Surr: 2,4,6-Tribromophenol	73	% Recovery	35	125	35-125	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C
Surr: 2-Fluorobiphenyl	71	% Recovery	45	105	45-105	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C
Surr: 2-Fluorophenol	57	% Recovery	35	105	35-105	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C
Surr: Nitrobenzene-d5	64	% Recovery	35	100	35-100	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C
Surr: Phenol-d5	69	% Recovery	40	100	40-100	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C
Surr: Terphenyl-d14	73	% Recovery	30	125	30-125	1		3/21/2011 10:30	03/23/2011 17:40	RPN	EPA 8270C
Aroclor-1016	<10	ug/kg	10	35	100	1		3/18/2011 11:00	03/21/2011 14:59	JJY	EPA 8082A ^
Aroclor-1221	<20	ug/kg	20	66	100	1		3/18/2011 11:00	03/21/2011 14:59	JJY	EPA 8082A ^
Aroclor-1232	<27	ug/kg	27	91	100	1		3/18/2011 11:00	03/21/2011 14:59	JJY	EPA 8082A ^
Aroclor-1242	<29	ug/kg	29	97	100	1		3/18/2011 11:00	03/21/2011 14:59	JJY	EPA 8082A ^
Aroclor-1248	<29	ug/kg	29	98	100	1		3/18/2011 11:00	03/21/2011 14:59	JJY	EPA 8082A ^
Aroclor-1254	<23	ug/kg	23	76	100	1		3/18/2011 11:00	03/21/2011 14:59	JJY	EPA 8082A ^
Aroclor-1260	<12	ug/kg	12	38	100	1		3/18/2011 11:00	03/21/2011 14:59	JJY	EPA 8082A ^
Aroclor-1262	<21	ug/kg	21	71	100	1		3/18/2011 11:00	03/21/2011 14:59	JJY	EPA 8082A ^
Aroclor-1268	<28	ug/kg	28	93	100	1		3/18/2011 11:00	03/21/2011 14:59	JJY	EPA 8082A ^
Surr: DCBP	112	% Recovery	60	125	60-125	1		3/18/2011 11:00	03/21/2011 14:59	JJY	EPA 8082A
Nitroguanidine	<0.060	mg/kg	0.060	0.21	0.25	1		3/23/2011 14:30	03/28/2011 09:25		EPA 8330
1,2-Dinitrobenzene	104	% Recovery	50	150	50-150	1		3/23/2011 14:30	03/28/2011 09:25		EPA 8330
1,3,5-Trinitrobenzene	<0.13	mg/kg	0.13	0.43	0.50	1		3/23/2011 13:30	03/25/2011 15:03		EPA 8330B
1,3-Dinitrobenzene	<0.080	mg/kg	0.080	0.26	0.40	1		3/23/2011 13:30	03/25/2011 15:03		EPA 8330B
2,4,6-Trinitrotoluene	<0.090	mg/kg	0.090	0.31	0.40	1		3/23/2011 13:30	03/25/2011 15:03		EPA 8330B
2,4-Dinitrotoluene	<0.080	mg/kg	0.080	0.25	0.50	1		3/23/2011 13:30	03/25/2011 15:03		EPA 8330B
2,6-Dinitrotoluene	<0.070	mg/kg	0.070	0.24	0.25	1		3/23/2011 13:30	03/25/2011 15:03		EPA 8330B
2-Amino-4,6-dinitrotoluene	<0.050	mg/kg	0.050	0.18	0.25	1		3/23/2011 13:30	03/25/2011 15:03		EPA 8330B
2-Nitrotoluene	<0.090	mg/kg	0.090	0.28	0.50	1		3/23/2011 13:30	03/25/2011 15:03		EPA 8330B
3,5-Dinitroaniline	<0.090	mg/kg	0.090	0.28	0.40	1		3/23/2011 13:30	03/25/2011 15:03		EPA 8330B
3-Nitrotoluene	<0.070	mg/kg	0.070	0.24	0.25	1		3/23/2011 13:30	03/25/2011 15:03		EPA 8330B
4-Amino-2,6-dinitrotoluene	<0.070	mg/kg	0.070	0.24	0.25	1		3/23/2011 13:30	03/25/2011 15:03		EPA 8330B

Solid sample results reported on a Dry Weight Basis

CT LAB#: 898909 Sample Description: DL2SS-001M-0001-SO Sampled: 3/8/2011 1010

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4-Nitrotoluene	<0.070	mg/kg	0.070	0.24	0.40	1		3/23/2011 13:30	03/25/2011 15:03		EPA 8330B
HMX	<0.12	mg/kg	0.12	0.39	0.40	1		3/23/2011 13:30	03/25/2011 15:03		EPA 8330B
Nitrobenzene	<0.040	mg/kg	0.040	0.14	0.25	1		3/23/2011 13:30	03/25/2011 15:03		EPA 8330B
Nitroglycerin	<0.50	mg/kg	0.50	1.8	2.0	1	Y	3/23/2011 13:30	03/25/2011 15:03		EPA 8330B
PETN	<0.50	mg/kg	0.50	1.8	2.0	1		3/23/2011 13:30	03/25/2011 15:03		EPA 8330B
RDX	<0.14	mg/kg	0.14	0.46	0.50	1		3/23/2011 13:30	03/25/2011 15:03		EPA 8330B
Tetryl	<0.090	mg/kg	0.090	0.30	0.40	1		3/23/2011 13:30	03/25/2011 15:03		EPA 8330B
1,2-Dinitrobenzene	107	% Recovery	75	127	75-127	1		3/23/2011 13:30	03/25/2011 15:03		EPA 8330B
Soil Homogenization and Prep	COMPLETED					1			03/14/2011 00:00	DAB	LAB SOP
Sub Lab Results											
Pesticides	ATTACHED					1			03/31/2011 00:00	PML	SW8081

CT LAB#: 898914 Sample Description: DL2SS-002M-0001-SO Sampled: 3/8/2011 1130

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	99.0	%				1			03/16/2011 17:00	KMB	EPA 8000C
Hexavalent Chromium	4.9	mg/kg	2.6	8.7	10	1	J	3/21/2011 14:00	03/22/2011 13:00	EJC	EPA 3060A/7196A ^
Metals Results											
Aluminum	12400	mg/kg	0.040	0.12	0.24	1		3/15/2011 10:00	03/16/2011 23:40	NAH	EPA 6010C ^
Antimony	0.46	mg/kg	0.081	0.27	0.55	1	J	3/15/2011 10:00	03/18/2011 14:25	NAH	EPA 6010C ^
Arsenic	8.7	mg/kg	0.13	0.45	0.91	1		3/15/2011 10:00	03/16/2011 23:40	NAH	EPA 6010C ^
Barium	115	mg/kg	0.0081	0.027	0.048	1	B	3/15/2011 10:00	03/16/2011 23:40	NAH	EPA 6010C ^
Beryllium	0.66	mg/kg	0.040	0.12	0.24	10		3/15/2011 10:00	03/16/2011 22:08	NAH	EPA 6010C ^
Cadmium	0.28	mg/kg	0.0061	0.021	0.042	1		3/15/2011 10:00	03/16/2011 23:40	NAH	EPA 6010C ^
Calcium	11700	mg/kg	0.061	0.20	0.91	1		3/15/2011 10:00	03/16/2011 23:40	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 898914 Sample Description: DL2SS-002M-0001-SO Sampled: 3/8/2011 1130

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chromium	66.7	mg/kg	0.019	0.064	0.25	1		3/15/2011 10:00	03/16/2011 23:40	NAH	EPA 6010C ^
Cobalt	7.2	mg/kg	0.015	0.049	0.099	1		3/15/2011 10:00	03/16/2011 23:40	NAH	EPA 6010C ^
Copper	722	mg/kg	0.61	2.0	3.8	10		3/15/2011 10:00	03/16/2011 22:08	NAH	EPA 6010C ^
Iron	21000	mg/kg	3.0	10	18	10		3/15/2011 10:00	03/16/2011 22:08	NAH	EPA 6010C ^
Lead	36.4	mg/kg	0.040	0.14	0.24	1		3/15/2011 10:00	03/16/2011 23:40	NAH	EPA 6010C ^
Magnesium	1750	mg/kg	0.12	0.40	0.73	1		3/15/2011 10:00	03/16/2011 23:40	NAH	EPA 6010C ^
Manganese	886	mg/kg	0.16	0.53	1.2	10		3/15/2011 10:00	03/16/2011 22:08	NAH	EPA 6010C ^
Nickel	10.8	mg/kg	0.018	0.062	0.12	1		3/15/2011 10:00	03/16/2011 23:40	NAH	EPA 6010C ^
Selenium	<0.071	mg/kg	0.071	0.21	0.42	1		3/15/2011 10:00	03/16/2011 23:40	NAH	EPA 6010C ^
Silver	<0.017	mg/kg	0.017	0.057	0.22	1		3/15/2011 10:00	03/16/2011 23:40	NAH	EPA 6010C ^
Thallium	0.73	mg/kg	0.040	0.14	0.57	1		3/15/2011 10:00	03/16/2011 23:40	NAH	EPA 6010C ^
Vanadium	15.6	mg/kg	0.011	0.034	0.14	1		3/15/2011 10:00	03/16/2011 23:40	NAH	EPA 6010C ^
Zinc	508	mg/kg	0.040	0.12	0.48	1		3/15/2011 10:00	03/16/2011 23:40	NAH	EPA 6010C ^
Potassium	859	mg/kg	11	36	150	1		3/15/2011 10:00	03/21/2011 14:02	NAH	EPA 6010C ^
Sodium	60.9	mg/kg	4.0	13	53	1		3/15/2011 10:00	03/21/2011 14:02	NAH	EPA 6010C ^
Mercury	0.029	mg/kg	0.0024	0.0080	0.0080	1		3/21/2011 14:25	03/22/2011 10:41	AMA	EPA 7471A ^
Organic Results											
Soil Homogenization and Prep	COMPLETED					1			03/14/2011 00:00	DAB	LAB SOP

CT LAB#: 898915 Sample Description: DL2SS-003M-0001-SO Sampled: 3/8/2011 1110

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	99.2	%				1			03/16/2011 17:00	KMB	EPA 8000C
Hexavalent Chromium	<2.6	mg/kg	2.6	8.7	10	1		3/21/2011 14:00	03/22/2011 13:00	EJC	EPA 3060A/7196A ^
Metals Results											
Aluminum	13300	mg/kg	0.040	0.12	0.24	1		3/15/2011 10:00	03/16/2011 23:46	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 898915 Sample Description: DL2SS-003M-0001-SO Sampled: 3/8/2011 1110

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Antimony	0.73	mg/kg	0.081	0.27	0.54	1		3/15/2011 10:00	03/18/2011 14:32	NAH	EPA 6010C ^
Arsenic	9.3	mg/kg	0.13	0.45	0.91	1		3/15/2011 10:00	03/16/2011 23:46	NAH	EPA 6010C ^
Barium	73.1	mg/kg	0.0081	0.027	0.048	1	B	3/15/2011 10:00	03/16/2011 23:46	NAH	EPA 6010C ^
Beryllium	0.47	mg/kg	0.040	0.12	0.24	10		3/15/2011 10:00	03/16/2011 22:14	NAH	EPA 6010C ^
Cadmium	0.17	mg/kg	0.0060	0.021	0.042	1		3/15/2011 10:00	03/16/2011 23:46	NAH	EPA 6010C ^
Calcium	4690	mg/kg	0.060	0.20	0.91	1		3/15/2011 10:00	03/16/2011 23:46	NAH	EPA 6010C ^
Chromium	89.7	mg/kg	0.019	0.064	0.25	1		3/15/2011 10:00	03/16/2011 23:46	NAH	EPA 6010C ^
Cobalt	7.0	mg/kg	0.015	0.049	0.099	1		3/15/2011 10:00	03/16/2011 23:46	NAH	EPA 6010C ^
Copper	159	mg/kg	0.060	0.20	0.38	1		3/15/2011 10:00	03/16/2011 23:46	NAH	EPA 6010C ^
Iron	20500	mg/kg	3.0	10	18	10		3/15/2011 10:00	03/16/2011 22:14	NAH	EPA 6010C ^
Lead	35.8	mg/kg	0.040	0.14	0.24	1		3/15/2011 10:00	03/16/2011 23:46	NAH	EPA 6010C ^
Magnesium	2010	mg/kg	0.12	0.40	0.73	1		3/15/2011 10:00	03/16/2011 23:46	NAH	EPA 6010C ^
Manganese	628	mg/kg	0.16	0.52	1.2	10		3/15/2011 10:00	03/16/2011 22:14	NAH	EPA 6010C ^
Nickel	12.9	mg/kg	0.018	0.061	0.12	1		3/15/2011 10:00	03/16/2011 23:46	NAH	EPA 6010C ^
Selenium	<0.071	mg/kg	0.071	0.21	0.42	1		3/15/2011 10:00	03/16/2011 23:46	NAH	EPA 6010C ^
Silver	<0.017	mg/kg	0.017	0.056	0.22	1		3/15/2011 10:00	03/16/2011 23:46	NAH	EPA 6010C ^
Thallium	0.60	mg/kg	0.040	0.14	0.56	1		3/15/2011 10:00	03/16/2011 23:46	NAH	EPA 6010C ^
Vanadium	16.9	mg/kg	0.011	0.034	0.14	1		3/15/2011 10:00	03/16/2011 23:46	NAH	EPA 6010C ^
Zinc	128	mg/kg	0.040	0.12	0.48	1		3/15/2011 10:00	03/16/2011 23:46	NAH	EPA 6010C ^
Potassium	731	mg/kg	11	36	150	1		3/15/2011 10:00	03/21/2011 14:05	NAH	EPA 6010C ^
Sodium	42.6	mg/kg	4.0	13	52	1	J	3/15/2011 10:00	03/21/2011 14:05	NAH	EPA 6010C ^
Mercury	0.024	mg/kg	0.0024	0.0080	0.0080	1		3/21/2011 14:25	03/22/2011 10:47	AMA	EPA 7471A ^

Organic Results

Soil Homogenization and Prep	COMPLETED					1			03/14/2011 00:00	DAB	LAB SOP

CT LAB#: 898916 Sample Description: DL2SS-001M-0002-SO Sampled: 3/8/2011 1010

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method

Solid sample results reported on a Dry Weight Basis

CT LAB#: 898916 Sample Description: DL2SS-001M-0002-SO Sampled: 3/8/2011 1010

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	99.3	%				1			03/16/2011 17:00	KMB	EPA 8000C
Hexavalent Chromium	2.8	mg/kg	2.6	8.7	10	1	J	3/21/2011 14:00	03/22/2011 13:00	EJC	EPA 3060A/7196A ^
Nitrocellulose	<13	mg/kg	13	44	100	1		3/22/2011 09:00	03/26/2011 10:13	RLD	EPA 9056M
Metals Results											
Aluminum	12500	mg/kg	0.040	0.12	0.24	1		3/15/2011 10:00	03/16/2011 23:53	NAH	EPA 6010C ^
Antimony	0.59	mg/kg	0.081	0.27	0.54	1		3/15/2011 10:00	03/18/2011 14:38	NAH	EPA 6010C ^
Arsenic	9.2	mg/kg	0.13	0.45	0.91	1		3/15/2011 10:00	03/16/2011 23:53	NAH	EPA 6010C ^
Barium	119	mg/kg	0.0081	0.027	0.048	1	B	3/15/2011 10:00	03/16/2011 23:53	NAH	EPA 6010C ^
Beryllium	0.53	mg/kg	0.040	0.12	0.24	10		3/15/2011 10:00	03/16/2011 22:20	NAH	EPA 6010C ^
Cadmium	0.22	mg/kg	0.0060	0.021	0.042	1		3/15/2011 10:00	03/16/2011 23:53	NAH	EPA 6010C ^
Calcium	3550	mg/kg	0.060	0.20	0.91	1		3/15/2011 10:00	03/16/2011 23:53	NAH	EPA 6010C ^
Chromium	69.2	mg/kg	0.019	0.063	0.25	1		3/15/2011 10:00	03/16/2011 23:53	NAH	EPA 6010C ^
Cobalt	10.0	mg/kg	0.015	0.049	0.099	1		3/15/2011 10:00	03/16/2011 23:53	NAH	EPA 6010C ^
Copper	358	mg/kg	0.60	2.0	3.8	10		3/15/2011 10:00	03/16/2011 22:20	NAH	EPA 6010C ^
Iron	20800	mg/kg	3.0	10	18	10		3/15/2011 10:00	03/16/2011 22:20	NAH	EPA 6010C ^
Lead	34.0	mg/kg	0.040	0.14	0.24	1		3/15/2011 10:00	03/16/2011 23:53	NAH	EPA 6010C ^
Magnesium	1610	mg/kg	0.12	0.40	0.73	1		3/15/2011 10:00	03/16/2011 23:53	NAH	EPA 6010C ^
Manganese	1520	mg/kg	0.16	0.52	1.2	10		3/15/2011 10:00	03/16/2011 22:20	NAH	EPA 6010C ^
Nickel	12.8	mg/kg	0.018	0.061	0.12	1		3/15/2011 10:00	03/16/2011 23:53	NAH	EPA 6010C ^
Selenium	<0.070	mg/kg	0.070	0.21	0.42	1		3/15/2011 10:00	03/16/2011 23:53	NAH	EPA 6010C ^
Silver	<0.017	mg/kg	0.017	0.056	0.22	1		3/15/2011 10:00	03/16/2011 23:53	NAH	EPA 6010C ^
Thallium	1.4	mg/kg	0.040	0.14	0.56	1		3/15/2011 10:00	03/16/2011 23:53	NAH	EPA 6010C ^
Vanadium	17.7	mg/kg	0.011	0.034	0.14	1		3/15/2011 10:00	03/16/2011 23:53	NAH	EPA 6010C ^
Zinc	245	mg/kg	0.040	0.12	0.48	1		3/15/2011 10:00	03/16/2011 23:53	NAH	EPA 6010C ^
Potassium	748	mg/kg	11	36	150	1		3/15/2011 10:00	03/21/2011 14:13	NAH	EPA 6010C ^
Sodium	42.0	mg/kg	4.0	13	52	1	J	3/15/2011 10:00	03/21/2011 14:13	NAH	EPA 6010C ^
Mercury	0.023	mg/kg	0.0024	0.0080	0.0080	1		3/21/2011 14:25	03/22/2011 10:48	AMA	EPA 7471A ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 898916 Sample Description: DL2SS-001M-0002-SO Sampled: 3/8/2011 1010

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results											
1,2,4-Trichlorobenzene	<21	ug/kg	21	69	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
1,2-Dichlorobenzene	<24	ug/kg	24	79	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
1,3-Dichlorobenzene	<20	ug/kg	20	67	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
1,4-Dichlorobenzene	<19	ug/kg	19	63	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
1-Methylnaphthalene	<25	ug/kg	25	83	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C
2,4,5-Trichlorophenol	<130	ug/kg	130	440	500	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
2,4,6-Trichlorophenol	<130	ug/kg	130	440	500	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
2,4-Dichlorophenol	<120	ug/kg	120	410	500	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
2,4-Dimethylphenol	<99	ug/kg	99	330	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
2,4-Dinitrophenol	<690	ug/kg	690	2300	2000	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
2,4-Dinitrotoluene	<24	ug/kg	24	79	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
2,6-Dichlorophenol	<140	ug/kg	140	480	500	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
2,6-Dinitrotoluene	<24	ug/kg	24	81	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
2-Chloronaphthalene	<23	ug/kg	23	76	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
2-Chlorophenol	<340	ug/kg	340	1100	500	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
2-Methylnaphthalene	<25	ug/kg	25	83	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
2-Methylphenol	<420	ug/kg	420	1400	1000	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
2-Nitroaniline	<23	ug/kg	23	78	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
2-Nitrophenol	<280	ug/kg	280	940	500	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
3 & 4-Methylphenol	<650	ug/kg	650	2200	2000	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
3,3'-Dichlorobenzidine	<150	ug/kg	150	490	500	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
3-Nitroaniline	<22	ug/kg	22	72	1000	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
4,6-Dinitro-2-methylphenol	<270	ug/kg	270	900	1000	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
4-Bromophenyl-phenyl ether	<25	ug/kg	25	83	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
4-Chloro-3-methylphenol	<380	ug/kg	380	1300	500	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
4-Chloroaniline	<39	ug/kg	39	130	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
4-Chlorophenyl-phenyl ether	<26	ug/kg	26	87	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 898916 Sample Description: DL2SS-001M-0002-SO Sampled: 3/8/2011 1010

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4-Nitroaniline	<30	ug/kg	30	100	1000	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
4-Nitrophenol	<400	ug/kg	400	1300	1000	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Acenaphthene	<24	ug/kg	24	80	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Acenaphthylene	<24	ug/kg	24	81	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Acetophenone	<75	ug/kg	75	250	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Aniline	<31	ug/kg	31	100	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C
Anthracene	<24	ug/kg	24	81	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Azobenzene & 1,2-Diphenylhydra	<55	ug/kg	55	180	800	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Benzidine	<950	ug/kg	950	3200	2000	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Benzo(a)anthracene	45	ug/kg	25	84	400	1	J	3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Benzo(a)pyrene	49	ug/kg	23	78	400	1	J	3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Benzo(b)fluoranthene	87	ug/kg	25	85	400	1	J	3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Benzo(g,h,i)perylene	36	ug/kg	22	73	400	1	J	3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Benzo(k)fluoranthene	42	ug/kg	25	85	400	1	J	3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Benzoic acid	<290	ug/kg	290	980	2000	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Benzyl alcohol	<83	ug/kg	83	280	1000	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Bis(2-chloroethoxy)methane	<23	ug/kg	23	76	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Bis(2-chloroethyl)ether	<25	ug/kg	25	84	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Bis(2-chloroisopropyl)ether	<30	ug/kg	30	99	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Bis(2-ethylhexyl)phthalate	<87	ug/kg	87	290	1000	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Butylbenzylphthalate	<73	ug/kg	73	240	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Carbazole	<28	ug/kg	28	94	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Chrysene	59	ug/kg	25	84	400	1	J	3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Di-n-butylphthalate	<79	ug/kg	79	260	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Di-n-octylphthalate	<59	ug/kg	59	200	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Dibenzo(a,h)anthracene	<22	ug/kg	22	75	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Dibenzofuran	<24	ug/kg	24	81	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Diethylphthalate	<64	ug/kg	64	220	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Dimethylphthalate	<63	ug/kg	63	210	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 898916 Sample Description: DL2SS-001M-0002-SO Sampled: 3/8/2011 1010

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Fluoranthene	69	ug/kg	26	86	400	1	J	3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Fluorene	<25	ug/kg	25	85	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Hexachlorobenzene	<28	ug/kg	28	94	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Hexachlorobutadiene	<62	ug/kg	62	210	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Hexachlorocyclopentadiene	<52	ug/kg	52	170	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Hexachloroethane	<33	ug/kg	33	110	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Indeno(1,2,3-cd)pyrene	39	ug/kg	23	75	400	1	J	3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Isophorone	<50	ug/kg	50	170	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
N-Nitroso-di-n-propylamine	<70	ug/kg	70	230	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
N-Nitrosodimethylamine	<78	ug/kg	78	260	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
N-Nitrosodiphenylamine & Diphn	<50	ug/kg	50	160	800	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
N-Nitrosopyrrolidine	<56	ug/kg	56	190	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Naphthalene	<21	ug/kg	21	71	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Nitrobenzene	<59	ug/kg	59	200	400	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Pentachlorophenol	<240	ug/kg	240	800	1000	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Phenanthrene	26	ug/kg	26	88	400	1	J	3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Phenol	<160	ug/kg	160	530	500	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Pyrene	58	ug/kg	26	86	400	1	J	3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Pyridine	<39	ug/kg	39	130	400	1	Q	3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C ^
Surr: 2,4,6-Tribromophenol	56	% Recovery	35	125	35-125	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C
Surr: 2-Fluorobiphenyl	62	% Recovery	45	105	45-105	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C
Surr: 2-Fluorophenol	49	% Recovery	35	105	35-105	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C
Surr: Nitrobenzene-d5	56	% Recovery	35	100	35-100	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C
Surr: Phenol-d5	58	% Recovery	40	100	40-100	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C
Surr: Terphenyl-d14	64	% Recovery	30	125	30-125	1		3/21/2011 10:30	03/23/2011 18:34	RPN	EPA 8270C
Aroclor-1016	<10	ug/kg	10	35	100	1		3/18/2011 11:00	03/21/2011 15:46	JJY	EPA 8082A ^
Aroclor-1221	<20	ug/kg	20	66	100	1		3/18/2011 11:00	03/21/2011 15:46	JJY	EPA 8082A ^
Aroclor-1232	<27	ug/kg	27	90	100	1		3/18/2011 11:00	03/21/2011 15:46	JJY	EPA 8082A ^
Aroclor-1242	<29	ug/kg	29	96	100	1		3/18/2011 11:00	03/21/2011 15:46	JJY	EPA 8082A ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 898916 Sample Description: DL2SS-001M-0002-SO Sampled: 3/8/2011 1010

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Aroclor-1248	<29	ug/kg	29	97	100	1		3/18/2011 11:00	03/21/2011 15:46	JJY	EPA 8082A ^
Aroclor-1254	<23	ug/kg	23	76	100	1		3/18/2011 11:00	03/21/2011 15:46	JJY	EPA 8082A ^
Aroclor-1260	<12	ug/kg	12	38	100	1		3/18/2011 11:00	03/21/2011 15:46	JJY	EPA 8082A ^
Aroclor-1262	<21	ug/kg	21	71	100	1		3/18/2011 11:00	03/21/2011 15:46	JJY	EPA 8082A ^
Aroclor-1268	<28	ug/kg	28	92	100	1		3/18/2011 11:00	03/21/2011 15:46	JJY	EPA 8082A ^
Surr: DCBP	109	% Recovery	60	125	60-125	1		3/18/2011 11:00	03/21/2011 15:46	JJY	EPA 8082A
Nitroguanidine	<0.059	mg/kg	0.059	0.21	0.25	1		3/23/2011 14:30	03/28/2011 10:04		EPA 8330
1,2-Dinitrobenzene	97	% Recovery	50	150	50-150	1		3/23/2011 14:30	03/28/2011 10:04		EPA 8330
1,3,5-Trinitrobenzene	<0.13	mg/kg	0.13	0.43	0.50	1		3/23/2011 13:30	03/25/2011 16:32		EPA 8330B
1,3-Dinitrobenzene	<0.079	mg/kg	0.079	0.26	0.40	1		3/23/2011 13:30	03/25/2011 16:32		EPA 8330B
2,4,6-Trinitrotoluene	<0.089	mg/kg	0.089	0.31	0.40	1		3/23/2011 13:30	03/25/2011 16:32		EPA 8330B
2,4-Dinitrotoluene	<0.079	mg/kg	0.079	0.25	0.50	1		3/23/2011 13:30	03/25/2011 16:32		EPA 8330B
2,6-Dinitrotoluene	<0.069	mg/kg	0.069	0.24	0.25	1		3/23/2011 13:30	03/25/2011 16:32		EPA 8330B
2-Amino-4,6-dinitrotoluene	<0.050	mg/kg	0.050	0.18	0.25	1		3/23/2011 13:30	03/25/2011 16:32		EPA 8330B
2-Nitrotoluene	<0.089	mg/kg	0.089	0.28	0.50	1		3/23/2011 13:30	03/25/2011 16:32		EPA 8330B
3,5-Dinitroaniline	<0.089	mg/kg	0.089	0.28	0.40	1		3/23/2011 13:30	03/25/2011 16:32		EPA 8330B
3-Nitrotoluene	<0.069	mg/kg	0.069	0.24	0.25	1		3/23/2011 13:30	03/25/2011 16:32		EPA 8330B
4-Amino-2,6-dinitrotoluene	<0.069	mg/kg	0.069	0.24	0.25	1		3/23/2011 13:30	03/25/2011 16:32		EPA 8330B
4-Nitrotoluene	<0.069	mg/kg	0.069	0.24	0.40	1		3/23/2011 13:30	03/25/2011 16:32		EPA 8330B
HMX	<0.12	mg/kg	0.12	0.39	0.40	1		3/23/2011 13:30	03/25/2011 16:32		EPA 8330B
Nitrobenzene	<0.040	mg/kg	0.040	0.14	0.25	1		3/23/2011 13:30	03/25/2011 16:32		EPA 8330B
Nitroglycerin	<0.50	mg/kg	0.50	1.8	2.0	1		3/23/2011 13:30	03/25/2011 16:32		EPA 8330B
PETN	<0.50	mg/kg	0.50	1.8	2.0	1		3/23/2011 13:30	03/25/2011 16:32		EPA 8330B
RDX	<0.14	mg/kg	0.14	0.46	0.50	1		3/23/2011 13:30	03/25/2011 16:32		EPA 8330B
Tetryl	<0.089	mg/kg	0.089	0.30	0.40	1		3/23/2011 13:30	03/25/2011 16:32		EPA 8330B
1,2-Dinitrobenzene	118	% Recovery	75	127	75-127	1		3/23/2011 13:30	03/25/2011 16:32		EPA 8330B
Soil Homogenization and Prep	COMPLETED					1			03/14/2011 00:00	DAB	LAB SOP

Solid sample results reported on a Dry Weight Basis

CT LAB#: 898916 Sample Description: DL2SS-001M-0002-SO Sampled: 3/8/2011 1010

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Sub Lab Results											
Pesticides	ATTACHED					1			03/31/2011 00:00	PML	SW8081

CT LAB#: 898917 Sample Description: DL2SS-004M-0001-SO Sampled: 3/8/2011 0930

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	99.3	%				1			03/16/2011 17:00	KMB	EPA 8000C
Hexavalent Chromium	4.9	mg/kg	2.6	8.7	10	1	J	3/21/2011 14:00	03/22/2011 13:00	EJC	EPA 3060A/7196A ^
Metals Results											
Aluminum	12300	mg/kg	0.040	0.12	0.24	1		3/15/2011 10:00	03/16/2011 23:59	NAH	EPA 6010C ^
Antimony	0.82	mg/kg	0.081	0.27	0.54	1		3/15/2011 10:00	03/18/2011 14:45	NAH	EPA 6010C ^
Arsenic	8.5	mg/kg	0.13	0.45	0.91	1		3/15/2011 10:00	03/16/2011 23:59	NAH	EPA 6010C ^
Barium	80.3	mg/kg	0.0081	0.027	0.048	1	B	3/15/2011 10:00	03/16/2011 23:59	NAH	EPA 6010C ^
Beryllium	0.49	mg/kg	0.040	0.12	0.24	10		3/15/2011 10:00	03/16/2011 22:26	NAH	EPA 6010C ^
Cadmium	0.25	mg/kg	0.0060	0.021	0.042	1		3/15/2011 10:00	03/16/2011 23:59	NAH	EPA 6010C ^
Calcium	5740	mg/kg	0.060	0.20	0.91	1		3/15/2011 10:00	03/16/2011 23:59	NAH	EPA 6010C ^
Chromium	95.4	mg/kg	0.019	0.063	0.25	1		3/15/2011 10:00	03/16/2011 23:59	NAH	EPA 6010C ^
Cobalt	7.3	mg/kg	0.015	0.049	0.099	1		3/15/2011 10:00	03/16/2011 23:59	NAH	EPA 6010C ^
Copper	72.5	mg/kg	0.060	0.20	0.38	1		3/15/2011 10:00	03/16/2011 23:59	NAH	EPA 6010C ^
Iron	18500	mg/kg	3.0	10	18	10		3/15/2011 10:00	03/16/2011 22:26	NAH	EPA 6010C ^
Lead	32.2	mg/kg	0.040	0.14	0.24	1		3/15/2011 10:00	03/16/2011 23:59	NAH	EPA 6010C ^
Magnesium	2040	mg/kg	0.12	0.40	0.73	1		3/15/2011 10:00	03/16/2011 23:59	NAH	EPA 6010C ^
Manganese	748	mg/kg	0.16	0.52	1.2	10		3/15/2011 10:00	03/16/2011 22:26	NAH	EPA 6010C ^
Nickel	14.5	mg/kg	0.018	0.061	0.12	1		3/15/2011 10:00	03/16/2011 23:59	NAH	EPA 6010C ^
Selenium	<0.070	mg/kg	0.070	0.21	0.42	1		3/15/2011 10:00	03/16/2011 23:59	NAH	EPA 6010C ^
Silver	<0.017	mg/kg	0.017	0.056	0.22	1		3/15/2011 10:00	03/16/2011 23:59	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 898917 Sample Description: DL2SS-004M-0001-SO Sampled: 3/8/2011 0930

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Thallium	0.64	mg/kg	0.040	0.14	0.56	1		3/15/2011 10:00	03/16/2011 23:59	NAH	EPA 6010C ^
Vanadium	14.9	mg/kg	0.011	0.034	0.14	1		3/15/2011 10:00	03/16/2011 23:59	NAH	EPA 6010C ^
Zinc	116	mg/kg	0.040	0.12	0.48	1		3/15/2011 10:00	03/16/2011 23:59	NAH	EPA 6010C ^
Potassium	937	mg/kg	11	36	150	1		3/15/2011 10:00	03/21/2011 14:15	NAH	EPA 6010C ^
Sodium	56.6	mg/kg	4.0	13	52	1		3/15/2011 10:00	03/21/2011 14:15	NAH	EPA 6010C ^
Mercury	0.028	mg/kg	0.0024	0.0080	0.0080	1		3/21/2011 14:25	03/22/2011 10:50	AMA	EPA 7471A ^
Organic Results											
Soil Homogenization and Prep	COMPLETED					1			03/14/2011 00:00	DAB	LAB SOP

CT LAB#: 898918 Sample Description: DL2SS-005M-0001-SO Sampled: 3/8/2011 1010

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	99.4	%				1			03/16/2011 17:00	KMB	EPA 8000C
Hexavalent Chromium	<2.6	mg/kg	2.6	8.7	10	1		3/21/2011 14:00	03/22/2011 13:00	EJC	EPA 3060A/7196A ^
Metals Results											
Aluminum	12900	mg/kg	0.040	0.12	0.24	1		3/15/2011 10:00	03/17/2011 00:06	NAH	EPA 6010C ^
Antimony	0.32	mg/kg	0.080	0.27	0.54	1	J	3/15/2011 10:00	03/18/2011 14:51	NAH	EPA 6010C ^
Arsenic	9.7	mg/kg	0.13	0.45	0.91	1		3/15/2011 10:00	03/17/2011 00:06	NAH	EPA 6010C ^
Barium	62.4	mg/kg	0.0080	0.027	0.048	1	B	3/15/2011 10:00	03/17/2011 00:06	NAH	EPA 6010C ^
Beryllium	0.46	mg/kg	0.040	0.12	0.24	10		3/15/2011 10:00	03/16/2011 22:32	NAH	EPA 6010C ^
Cadmium	0.21	mg/kg	0.0060	0.021	0.042	1		3/15/2011 10:00	03/17/2011 00:06	NAH	EPA 6010C ^
Calcium	1870	mg/kg	0.060	0.20	0.91	1		3/15/2011 10:00	03/17/2011 00:06	NAH	EPA 6010C ^
Chromium	38.2	mg/kg	0.019	0.063	0.25	1		3/15/2011 10:00	03/17/2011 00:06	NAH	EPA 6010C ^
Cobalt	7.5	mg/kg	0.015	0.049	0.099	1		3/15/2011 10:00	03/17/2011 00:06	NAH	EPA 6010C ^
Copper	194	mg/kg	0.060	0.20	0.38	1		3/15/2011 10:00	03/17/2011 00:06	NAH	EPA 6010C ^
Iron	20100	mg/kg	3.0	10	18	10		3/15/2011 10:00	03/16/2011 22:32	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 898918 Sample Description: DL2SS-005M-0001-SO Sampled: 3/8/2011 1010

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Lead	31.4	mg/kg	0.040	0.14	0.24	1		3/15/2011 10:00	03/17/2011 00:06	NAH	EPA 6010C ^
Magnesium	1900	mg/kg	0.12	0.40	0.72	1		3/15/2011 10:00	03/17/2011 00:06	NAH	EPA 6010C ^
Manganese	782	mg/kg	0.16	0.52	1.2	10		3/15/2011 10:00	03/16/2011 22:32	NAH	EPA 6010C ^
Nickel	12.7	mg/kg	0.018	0.061	0.12	1		3/15/2011 10:00	03/17/2011 00:06	NAH	EPA 6010C ^
Selenium	<0.070	mg/kg	0.070	0.21	0.42	1		3/15/2011 10:00	03/17/2011 00:06	NAH	EPA 6010C ^
Silver	<0.017	mg/kg	0.017	0.056	0.22	1		3/15/2011 10:00	03/17/2011 00:06	NAH	EPA 6010C ^
Thallium	0.68	mg/kg	0.040	0.14	0.56	1		3/15/2011 10:00	03/17/2011 00:06	NAH	EPA 6010C ^
Vanadium	17.0	mg/kg	0.011	0.034	0.14	1		3/15/2011 10:00	03/17/2011 00:06	NAH	EPA 6010C ^
Zinc	180	mg/kg	0.040	0.12	0.48	1		3/15/2011 10:00	03/17/2011 00:06	NAH	EPA 6010C ^
Potassium	578	mg/kg	11	36	140	1		3/15/2011 10:00	03/21/2011 14:18	NAH	EPA 6010C ^
Sodium	25.0	mg/kg	4.0	13	52	1	J	3/15/2011 10:00	03/21/2011 14:18	NAH	EPA 6010C ^
Mercury	0.028	mg/kg	0.0024	0.0079	0.0079	1		3/21/2011 14:25	03/22/2011 10:52	AMA	EPA 7471A ^
Organic Results											
Soil Homogenization and Prep	COMPLETED					1			03/14/2011 00:00	DAB	LAB SOP

CT LAB#: 898919 Sample Description: DL2SS-006-0001-SO Sampled: 3/8/2011 1115

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	78.6	%				1			03/16/2011 17:00	KMB	EPA 8000C
Organic Results											
1,1,1-Trichloroethane	<14	ug/kg	14	45	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
1,1,2,2-Tetrachloroethane	<8.5	ug/kg	8.5	30	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
1,1,2-Trichloroethane	<11	ug/kg	11	37	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
1,1-Dichloroethane	<16	ug/kg	16	52	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
1,1-Dichloroethene	<23	ug/kg	23	74	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
1,2-Dibromoethane	<14	ug/kg	14	48	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 898919 Sample Description: DL2SS-006-0001-SO Sampled: 3/8/2011 1115

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dichloroethane	<17	ug/kg	17	55	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
1,2-Dichloropropane	<9.9	ug/kg	9.9	31	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
2-Butanone	<140	ug/kg	140	480	710	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
2-Hexanone	<96	ug/kg	96	330	710	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
4-Methyl-2-pentanone	<120	ug/kg	120	380	710	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
Acetone	<89	ug/kg	89	300	1400	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
Benzene	<7.1	ug/kg	7.1	26	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
Bromochloromethane	<11	ug/kg	11	37	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
Bromodichloromethane	<13	ug/kg	13	43	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
Bromoform	<8.5	ug/kg	8.5	30	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
Bromomethane	<43	ug/kg	43	140	140	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
Carbon disulfide	<21	ug/kg	21	72	140	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
Carbon tetrachloride	<16	ug/kg	16	52	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
Chlorobenzene	<11	ug/kg	11	35	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
Chloroethane	<27	ug/kg	27	92	140	1	Y	3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
Chloroform	<13	ug/kg	13	45	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
Chloromethane	<35	ug/kg	35	120	140	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
cis-1,2-Dichloroethene	<14	ug/kg	14	48	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
cis-1,3-Dichloropropene	<14	ug/kg	14	45	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
Dibromochloromethane	<11	ug/kg	11	37	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
Ethylbenzene	<11	ug/kg	11	35	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
m & p-Xylene	<26	ug/kg	26	85	140	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
Methylene chloride	<57	ug/kg	57	180	140	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
o-Xylene	<11	ug/kg	11	35	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
Styrene	<8.5	ug/kg	8.5	28	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
Tetrachloroethene	<11	ug/kg	11	38	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
Toluene	<9.9	ug/kg	9.9	35	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
trans-1,2-Dichloroethene	<16	ug/kg	16	54	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
trans-1,3-Dichloropropene	<9.9	ug/kg	9.9	33	140	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 898919 Sample Description: DL2SS-006-0001-SO Sampled: 3/8/2011 1115

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Trichloroethene	<14	ug/kg	14	45	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
Trichlorofluoromethane	<18	ug/kg	18	60	140	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
Vinyl chloride	<20	ug/kg	20	67	71	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B ^
1,2 Dichloroethane-d4	104	% Recovery	72	117	72-117	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B
Bromofluorobenzene	101	% Recovery	85	120	85-120	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B
d8-Toluene	105	% Recovery	85	115	85-115	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B
Dibromofluoromethane	106	% Recovery	77	119	77-119	1		3/10/2011 08:30	03/10/2011 14:09	APG	EPA 8260B

CT LAB#: 898920 Sample Description: DL2SS-006-0002-SO Sampled: 3/8/2011 1115

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Solids, Percent	77.9	%				1			03/16/2011 17:00	KMB	EPA 8000C
Organic Results											
1,1,1-Trichloroethane	<11	ug/kg	11	36	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
1,1,2,2-Tetrachloroethane	<6.7	ug/kg	6.7	23	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
1,1,2-Trichloroethane	<8.9	ug/kg	8.9	29	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
1,1-Dichloroethane	<12	ug/kg	12	41	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
1,1-Dichloroethene	<18	ug/kg	18	58	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
1,2-Dibromoethane	<11	ug/kg	11	38	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
1,2-Dichloroethane	<13	ug/kg	13	43	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
1,2-Dichloropropane	<7.8	ug/kg	7.8	24	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
2-Butanone	<110	ug/kg	110	380	560	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
2-Hexanone	<76	ug/kg	76	260	560	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
4-Methyl-2-pentanone	<91	ug/kg	91	300	560	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
Acetone	<70	ug/kg	70	230	1100	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
Benzene	<5.6	ug/kg	5.6	20	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^

Solid sample results reported on a Dry Weight Basis

CT LAB#: 898920 Sample Description: DL2SS-006-0002-SO Sampled: 3/8/2011 1115

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromochloromethane	<8.9	ug/kg	8.9	29	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
Bromodichloromethane	<10	ug/kg	10	33	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
Bromoform	<6.7	ug/kg	6.7	23	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
Bromomethane	<33	ug/kg	33	110	110	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
Carbon disulfide	<17	ug/kg	17	57	110	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
Carbon tetrachloride	<12	ug/kg	12	41	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
Chlorobenzene	<8.9	ug/kg	8.9	28	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
Chloroethane	<21	ug/kg	21	72	110	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
Chloroform	<10	ug/kg	10	36	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
Chloromethane	<28	ug/kg	28	93	110	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
cis-1,2-Dichloroethene	<11	ug/kg	11	38	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
cis-1,3-Dichloropropene	<11	ug/kg	11	36	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
Dibromochloromethane	<8.9	ug/kg	8.9	29	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
Ethylbenzene	<8.9	ug/kg	8.9	28	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
m & p-Xylene	<20	ug/kg	20	67	110	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
Methylene chloride	<44	ug/kg	44	140	110	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
o-Xylene	<8.9	ug/kg	8.9	28	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
Styrene	<6.7	ug/kg	6.7	22	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
Tetrachloroethene	<8.9	ug/kg	8.9	30	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
Toluene	<7.8	ug/kg	7.8	28	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
trans-1,2-Dichloroethene	<12	ug/kg	12	42	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
trans-1,3-Dichloropropene	<7.8	ug/kg	7.8	26	110	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
Trichloroethene	<11	ug/kg	11	36	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
Trichlorofluoromethane	<14	ug/kg	14	47	110	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
Vinyl chloride	<16	ug/kg	16	52	56	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B ^
1,2 Dichloroethane-d4	104	% Recovery	72	117	72-117	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B
Bromofluorobenzene	103	% Recovery	85	120	85-120	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B
d8-Toluene	107	% Recovery	85	115	85-115	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B
Dibromofluoromethane	107	% Recovery	77	119	77-119	1		3/10/2011 08:30	03/10/2011 14:48	APG	EPA 8260B

Solid sample results reported on a Dry Weight Basis

Notes: ^ Indicates the laboratory is NELAP accredited for this analyte by the indicated matrix and method.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report has been specifically prepared to satisfy project or program requirements. The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Level of uncertainty measurements only provided upon pre-approved request.

Submitted by: PML r
Project Manager
608-356-2760

QC Qualifiers

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

Current CT Laboratories Certifications

Illinois NELAP ID# 200046

Kansas NELAP ID# E-10368

Kentucky ID# 0023

Pennsylvania NELAP ID# 68-04201

New Jersey NELAP ID# WI001

North Dakota ID# R-171

Wisconsin (WDNR) Chemistry ID# 157066030

Wisconsin (DATCP) Bacteriology ID# 105-289

DoD-ELAP Accreditation Cert # ADE-1453

GA EPD Stipulation

Accreditor:	IL NELAP
Accreditation ID:	200046
Scope:	Hazardous/Solid Waste Non-potable water
Effective:	11/19/2009
Expires:	09/30/2010

Rev. 3/2006

Chain of Custody

Page _____ of _____

Company: USACE
Project Contact: Derek Kinder
Telephone: 502-315-6393
Project Name: Group 2 ore Piles
Project Number: T&E Order 10
Project Location: RVAAP
Sampled By: DK, TC, EC

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

ENVIRONMENTAL LABORATORIES
delivering more than data from your environmental goals
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ellabs.com

Turnaround Time
Normal RUSH*
Date Needed _____
*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 5
subject to change without notice.

Folder #: 83966
Company: USACE - LOUISVILLE
Project: RAVENNA
Logged By: TLS PM: PM

Mail Report To:
Company:
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:
PO No.

Client Special Instructions:
Natft: Metals w/ cl, de
#J + Cr-VI

Landfill License Number:

83966

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	Well ID #	Matrix:	VOCs	Explosives	Propellants	1	PCP	SVOC	PCB	Pest/Herbs	Total # of Containers	Preservation*	Lab ID #
				Filt? Y/N												
				Fill in Spaces with Bottles per Test												
3/8/11	1010		DL2ss-001M-0001-SO		S		X	X	X	X	X	X	X			898907
3/8/11	1130		DL2ss-002M-0001-SO		S				X							898914
3/8/11	1110		DL2ss-003M-0001-SO		S				X							898915
3/8/11	1010		DL2ss-001M-0002-SO		S		X	X	X	X	X	X	X			898916

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By	Date/Time	Relinquished By:	Date/Time
Derek Kinder	3/8/11 1700		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
Fedex	1700		3/9/11 1154

Ice Present Yes No
Temperature 1.8°
Cooler# 3734
3/9/11 1130

**Matrix
S-Soil A-Air SI-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Rev. 3/2006

Chain of Custody

Page _____ of _____

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Company: USACE
Project Contact: Derek Kinder
Telephone: 502 315 6348
Project Name: Group 2 Dre Piles
Project Number: Tuck Ordder 10
Project Location: RVAAP
Sampled By: EC, TC, DK

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%, subject to change without notice.

Lab Use Only
Place Header Sticker Here:

Mail Report To:
Company:
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:
Note: Metals Include Hg & Cr VI

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	Matrix**	Explosives	Propellants	Metals	PCP	SVOCs	PCBs	Perchlorate	VOCs	Total # of Containers	Preservation*	Lab ID #
3/8/11	0930		DL22S-004M-0001-SO		S			X	-			-				898917
3/8/11	1010		DL2SS-005M-0001-SO		S			X	-							898918
3/8/11	1115		DL2SS-006M-0001-SO		S			X					X	6	MS/MSD	898919
3/8/11	1145		DL2SS-006M-0002-SO		S			X					X			898920

Fill in Spaces with Bottles per Test

Filt? Y/N

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

** Matrix
S-Soil A-Air SI-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Derek Kinder	3/8/11 1700		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
Fed ex	1700		3/9/11 1158

Ice Present Yes No
Temperature 2 ex. f
Cooler # 3728
3/9/11 1130

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Laboratory Report Number: L11030544

Client: Patrick Letterer, 1230 Lange Court, Baraboo, WI, 53913

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box below at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

Kathy Albertson	*Team Chemist/Data Specialist*	Kathy.Albertson@microbac.com
Stephanie Mossburg	*Team Chemist/Data Specialist*	Stephanie.Mossburg@microbac.com
Tony Long	*Team Chemist/Data Specialist*	Tony.Long@microbac.com
Amanda Fickiesen	*Client Services Specialist*	Amanda.Fickiesen@microbac.com
Annie Brown	*Client Services Specialist*	Annie.Brown@microbac.com

This report was reviewed on March 29, 2011.

Stephanie Mossburg - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the DoD QSM and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in this report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, DoD ELAP certification number 2936.01. The reported results are related only to the samples analyzed as received.

This report was certified on March 29, 2011.

David Vandenberg - Managing Director

State of origin: Kansas
Accrediting authority: Department of Health and Environment ID:E-10290
QAPP: DOD Ver 4.1
This report contains a total of 128 pages.

Look closer. Go further. Do more.

Microbac REPORT L11030544
PREPARED FOR CT Laboratories
WORK ID:

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1.0 Introduction

LABORATORY REPORT

L11030544

03/29/11 15:25

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CT Laboratories
1230 Lange Court

Baraboo, WI 53913
Attention: Patrick Letterer

Project Number: 2694.005
Project: Kansas AAP
Site: PARSONS KANSAS

Sample Summary

Client ID	Lab ID	Date Collected	Date Received
898909	L11030544-01	03/08/2011 10:10	03/16/2011
898916	L11030544-02	03/08/2011 10:10	03/16/2011

L1_A_PROD_COVER - Modified 02/06/2008
PDF File ID: 1953146
Report generated: 03/29/2011 15:25

Report Number: **L11030544**
Report Date : **March 29, 2011**

Sample Number: **L11030544-01**
Client ID: **898909**
Matrix: **Soil**
Workgroup Number: **WG359406**
Collect Date: **03/08/2011 10:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8081A**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP15**
Prep Date: **03/18/2011 08:38**
Cal Date: **02/18/2011 23:19**
Run Date: **03/22/2011 20:35**
File ID: **15G25552.F**
Percent Solid: **98.1**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		UQ	1.78	0.355
4,4'-DDE	72-55-9		UQ	1.78	0.355
4,4'-DDT	50-29-3		UQ	1.78	0.355
Aldrin	309-00-2		UQ	1.78	0.355
alpha Chlordane	5103-71-9		UQ	1.78	0.355
alpha-BHC	319-84-6		UQ	1.78	0.355
beta-BHC	319-85-7		UQ	1.78	0.355
delta-BHC	319-86-8		UQ	1.78	0.355
Dieldrin	60-57-1		UQ	1.78	0.355
Endosulfan I	959-98-8		UQ	1.78	0.355
Endosulfan II	33213-65-9		UQ	1.78	0.355
Endosulfan sulfate	1031-07-8		UQ	1.78	0.355
Endrin	72-20-8		UQ	1.78	0.355
Endrin aldehyde	7421-93-4		UQ	1.78	0.355
gamma Chlordane	5103-74-2		UQ	1.78	0.355
gamma-BHC (Lindane)	58-89-9		UQ	1.78	0.355
Heptachlor	76-44-8		UQ	1.78	0.355
Heptachlor epoxide	1024-57-3		UQ	1.78	0.355
Methoxychlor	72-43-5		UQ	1.78	0.355
Toxaphene	8001-35-2		UQ	35.5	18.0

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	51.0	70	125	*
Decachlorobiphenyl	75.2	55	130	

UQ Undetected; the analyte was analyzed for, but not detected.
*** Surrogate or spike compound out of range**

Sample Number: **L11030544-01**
Client ID: **898909**
Matrix: **Soil**
Workgroup Number: **WG359746**
Collect Date: **03/08/2011 10:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL013**
Prep Date: **03/24/2011 13:27**
Cal Date:
Run Date: **03/24/2011 13:27**
File ID: **B1.359746-0109**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	98.1		1.00	1.00

Sample Number: **L11030544-02**
Client ID: **898916**
Matrix: **Soil**
Workgroup Number: **WG359406**
Collect Date: **03/08/2011 10:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8081A**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP15**
Prep Date: **03/18/2011 08:38**
Cal Date: **02/18/2011 23:19**
Run Date: **03/22/2011 21:03**
File ID: **15G25553.F**
Percent Solid: **97.9**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		UQ	1.82	0.365
4,4'-DDE	72-55-9		UQ	1.82	0.365
4,4'-DDT	50-29-3		UQ	1.82	0.365
Aldrin	309-00-2		UQ	1.82	0.365
alpha Chlordane	5103-71-9		UQ	1.82	0.365

Report Number: **L11030544**
Report Date : **March 29, 2011**

Sample Number: **L11030544-02**
Client ID: **898916**
Matrix: **Soil**
Workgroup Number: **WG359406**
Collect Date: **03/08/2011 10:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8081A**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP15**
Prep Date: **03/18/2011 08:38**
Cal Date: **02/18/2011 23:19**
Run Date: **03/22/2011 21:03**
File ID: **15G25553.F**
Percent Solid: **97.9**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
alpha-BHC	319-84-6		UQ	1.82	0.365
beta-BHC	319-85-7		UQ	1.82	0.365
delta-BHC	319-86-8		UQ	1.82	0.365
Dieldrin	60-57-1		UQ	1.82	0.365
Endosulfan I	959-98-8		UQ	1.82	0.365
Endosulfan II	33213-65-9		UQ	1.82	0.365
Endosulfan sulfate	1031-07-8		UQ	1.82	0.365
Endrin	72-20-8		UQ	1.82	0.365
Endrin aldehyde	7421-93-4		UQ	1.82	0.365
gamma Chlordane	5103-74-2		UQ	1.82	0.365
gamma-BHC (Lindane)	58-89-9		UQ	1.82	0.365
Heptachlor	76-44-8		UQ	1.82	0.365
Heptachlor epoxide	1024-57-3		UQ	1.82	0.365
Methoxychlor	72-43-5		UQ	1.82	0.365
Toxaphene	8001-35-2		UQ	36.5	18.5

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	64.9	70	125	*
Decachlorobiphenyl	74.9	55	130	

UQ Undetected; the analyte was analyzed for, but not detected.
*** Surrogate or spike compound out of range**

Sample Number: **L11030544-02**
Client ID: **898916**
Matrix: **Soil**
Workgroup Number: **WG359746**
Collect Date: **03/08/2011 10:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL013**
Prep Date: **03/24/2011 13:27**
Cal Date:
Run Date: **03/24/2011 13:27**
File ID: **B1.359746-0110**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	97.9		1.00	1.00

Login Number: L11030544

Department: Login

Chain of Custody:

Shipment Conditions

COC #	Cooler #	Temperature
	0015684	2.0

Sample Management: All samples were received intact.

Sample Identification

Lab ID	Client ID
L11030544-01	898909
L11030544-02	898916

Narrative ID: 23522
Approved By: Stephanie Mossburg

2.0 Full Sample Data Package

2.1 Semivolatiles Data

2.1.1 Pesticide GC Data (8081)

2.1.1.1 Summary Data

Microbac Laboratories Inc.
GC PESTICIDES

Microbac Login No: L11030544

METHOD

Preparation: SW- 846 3550B(Soils)/3510C(Waters)/3580A (Waste dilution)

Analysis: SW-846 8081

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration: All acceptance criteria were met.

BATCH QA/QC

Method Blank: The blank yielded a % recovery for the surrogate 2,4,5,6-tetrachloro-m-xylene that was below the acceptance limit. All other acceptance criteria were met.

Labortory Control Sample: The LCS and LCS-TOX yielded % recoveries for the surrogate 2,4,5,6-tetrachloro-m-xylene that were below the acceptance limit. All other acceptance criteria were met.

Matrix Spikes: The MS/MSD results were not associated with this sample delivery group.

SAMPLES

Surrogates: Samples 01 and 02 yielded % recoveries for 2,4,5,6-tetrachloro-m-xylene that were below the acceptance limit. All other acceptance criteria were met.

Endrin/DDT Breakdown: All acceptance criteria were met.

Samples: For all samples which yielded results with an RPD of greater than 40% between the primary and confirmation column the appropriate flag was applied. All acceptance criteria were met.

Manual Integration Reason Codes

Microbac laboratory management has identified four general cases with valid reasons supporting the use of manual integration techniques.

Reason #1: Data System Fails to Select Correct Peak
In some cases the chromatography system selects and integrates the ”wrong peak”. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

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

Reason #3: Improperly Integrated Isomers and/or coeluting compounds.
This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

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

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

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: ECL

Approved: 24-MAR-11

LABORATORY REPORT

L11030544

03/29/11 15:25

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CT Laboratories
1230 Lange Court

Baraboo, WI 53913
Attention: Patrick Letterer

Project Number: 2694.005
Project: Kansas AAP
Site: PARSONS KANSAS

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
898909	L11030544-01	8081A	1	16-MAR-11
898916	L11030544-02	8081A	1	16-MAR-11

Report Number: **L11030544**
Report Date : **March 29, 2011**

Sample Number:	L11030544-01	PrePrep Method:	NONE	Instrument:	HP15
Client ID:	898909	Prep Method:	3550B	Prep Date:	03/18/2011 08:38
Matrix:	Soil	Analytical Method:	8081A	Cal Date:	02/18/2011 23:19
Workgroup Number:	WG359406	Analyst:	ECL	Run Date:	03/22/2011 20:35
Collect Date:	03/08/2011 10:10	Dilution:	1	File ID:	15G25552.F
Sample Tag:	01	Units:	ug/kg	Percent Solid:	98.1

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		UQ	1.78	0.355
4,4'-DDE	72-55-9		UQ	1.78	0.355
4,4'-DDT	50-29-3		UQ	1.78	0.355
Aldrin	309-00-2		UQ	1.78	0.355
alpha Chlordane	5103-71-9		UQ	1.78	0.355
alpha-BHC	319-84-6		UQ	1.78	0.355
beta-BHC	319-85-7		UQ	1.78	0.355
delta-BHC	319-86-8		UQ	1.78	0.355
Dieldrin	60-57-1		UQ	1.78	0.355
Endosulfan I	959-98-8		UQ	1.78	0.355
Endosulfan II	33213-65-9		UQ	1.78	0.355
Endosulfan sulfate	1031-07-8		UQ	1.78	0.355
Endrin	72-20-8		UQ	1.78	0.355
Endrin aldehyde	7421-93-4		UQ	1.78	0.355
gamma Chlordane	5103-74-2		UQ	1.78	0.355
gamma-BHC (Lindane)	58-89-9		UQ	1.78	0.355
Heptachlor	76-44-8		UQ	1.78	0.355
Heptachlor epoxide	1024-57-3		UQ	1.78	0.355
Methoxychlor	72-43-5		UQ	1.78	0.355
Toxaphene	8001-35-2		UQ	35.5	18.0

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	51.0	70	125	*
Decachlorobiphenyl	75.2	55	130	

UQ Undetected; the analyte was analyzed for, but not detected.
* Surrogate or spike compound out of range

Report Number: **L11030544**
Report Date : **March 29, 2011**

Sample Number: **L11030544-02**
Client ID: **898916**
Matrix: **Soil**
Workgroup Number: **WG359406**
Collect Date: **03/08/2011 10:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8081A**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP15**
Prep Date: **03/18/2011 08:38**
Cal Date: **02/18/2011 23:19**
Run Date: **03/22/2011 21:03**
File ID: **15G25553.F**
Percent Solid: **97.9**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		UQ	1.82	0.365
4,4'-DDE	72-55-9		UQ	1.82	0.365
4,4'-DDT	50-29-3		UQ	1.82	0.365
Aldrin	309-00-2		UQ	1.82	0.365
alpha Chlordane	5103-71-9		UQ	1.82	0.365
alpha-BHC	319-84-6		UQ	1.82	0.365
beta-BHC	319-85-7		UQ	1.82	0.365
delta-BHC	319-86-8		UQ	1.82	0.365
Dieldrin	60-57-1		UQ	1.82	0.365
Endosulfan I	959-98-8		UQ	1.82	0.365
Endosulfan II	33213-65-9		UQ	1.82	0.365
Endosulfan sulfate	1031-07-8		UQ	1.82	0.365
Endrin	72-20-8		UQ	1.82	0.365
Endrin aldehyde	7421-93-4		UQ	1.82	0.365
gamma Chlordane	5103-74-2		UQ	1.82	0.365
gamma-BHC (Lindane)	58-89-9		UQ	1.82	0.365
Heptachlor	76-44-8		UQ	1.82	0.365
Heptachlor epoxide	1024-57-3		UQ	1.82	0.365
Methoxychlor	72-43-5		UQ	1.82	0.365
Toxaphene	8001-35-2		UQ	36.5	18.5

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	64.9	70	125	*
Decachlorobiphenyl	74.9	55	130	

UQ Undetected; the analyte was analyzed for, but not detected.
* Surrogate or spike compound out of range

2.1.1.2 QC Summary Data

Example 8081 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

$$RF = \frac{As}{Cs}$$

where:	Example:
A_s = Area of the compound being measured in the standard	10000
C_s = Concentration of the compound being measured (ng/mL)	100
	RF = 100

2.0 Calculating the concentration (C) of a compound in water using data from prep log and quantitation report:*

$$C = \frac{(A_x)(Vf)(D)}{(RF)(Vi)}$$

where:	Example:
A_x = Area of the compound begin measured	10000
Vf = Final volume of sample extract (mL). (prep log)	1
D = Dilution factor for sample as a multiplier (10X=10)	1
RF = Response factor from ICAL calculated above.	100
Vi = Initial volume of sample (mL). (prep log)	1000
	C(ug/L) = 0.1

3.0 Calculating the concentration (C) of a compound in soil using data from prep log and quantitation report:*

$$C = \frac{(A_x)(Vf)(D)}{(RF)(Wi)}$$

where:	Example:
A_x = Area of the compound begin measured	10000
Vf = Final volume of sample extract (mL). (prep log)	1
D = Dilution factor for sample as a multiplier (10X=10)	1
RF = Response factor from ICAL calculated above.	100
Wi = Initial weight of sample (g).	30
	C(ug/kg) = 3.333333

* Concentrations appearing on instrument quantitation reports are on-column results and do not take into account initial volume, final volume and dilution factor.

Microbac Laboratories Inc.
Sample Extract Log

Workgroup: WG359333
Analyst: CPD
Spike Analyst: CPD
Method: 3550B
Run Date: 03/18/2011 08:38
SOP: EXP02 Revison 15
Spike Witness: RAH
Surr Solution: STD43926

Hexane Lot #: COA15273
Purified Lab Sand Lot #: COA14882
Na2SO4, Anhydrous,Powder Lot #: COA14768
Sodium Sulfate,Anhydrous,Granular (Lot #: COA15226
Florisil Disposable Column Lot #: COA15102
94:6 Hexane:Ether Lot #: RGT15873
50:50 Hexane:Ether Lot #: RGT15852

	SAMPLE #	Type	Reference	pH	Prod	Init Amnt	Surr Amnt	Spike Amnt	Spike Sol	Final Vol	Color
1	L11030544-01	SAMP			8081	28.38 g	.2 mL			10 mL	Transparent
2	L11030544-02	SAMP			8081	27.73 g	.2 mL			10 mL	Transparent
3	L11030612-09	RS01			8081	29.93 g	.2 mL			10 mL	Transparent
4	L11030612-10	MS01	L11030612-09		8081	27.81 g	.2 mL	.25 mL	STD42746	10 mL	Transparent
5	L11030612-11	SD01	L11030612-09		8081	30.84 g	.2 mL	.25 mL	STD42746	10 mL	Transparent
6	L11030612-12	SAMP			8081	31.49 g	.2 mL			10 mL	Transparent
7	L11030612-13	SAMP			8081	27.86 g	.2 mL			10 mL	Colored
8	L11030612-14	SAMP			8081	27.57 g	.2 mL			10 mL	Transparent
9	L11030612-17	SAMP			8081	28.45 g	.2 mL			10 mL	Colored
10	L11030612-18	SAMP			8081	27.3 g	.2 mL			10 mL	Colored
11	L11030612-19	SAMP			8081	28.76 g	.2 mL			10 mL	Colored
12	L11030612-20	SAMP			8081	28.71 g	.2 mL			10 mL	Colored
13	L11030612-21	RS02			8081	29.48 g	.2 mL			10 mL	Transparent
14	L11030612-24	SAMP			8081	27.29 g	.2 mL			10 mL	Colored
15	L11030612-25	SAMP			8081	28.45 g	.2 mL			10 mL	Transparent
16	L11030612-26	SAMP			8081	27.41 g	.2 mL			10 mL	Colored
17	L11030612-27	SAMP			8081	27.71 g	.2 mL			10 mL	Colored
18	L11030612-28	SAMP			8081	28.77 g	.2 mL			10 mL	Colored
19	L11030612-29	SAMP			8081	28.83 g	.2 mL			10 mL	Colored
20	L11030612-30	SAMP			8081	28.84 g	.2 mL			10 mL	Transparent
21	L11030612-31	SAMP			8081	27.35 g	.2 mL			10 mL	Colored
22	L11030612-32	SAMP			8081	27.3 g	.2 mL			10 mL	Colored
23	WG359333-01	REF	L11030612-09		8081	29.93 g	.2 mL			10 mL	Transparent
24	WG359333-02	BLANK			8081	30 g	.2 mL			10 mL	Transparent
25	WG359333-03	LCS			8081	30 g	.2 mL	.25 mL	STD42746	10 mL	Transparent
26	WG359333-04	LCS_TOX			8081	30 g	.2 mL	.1 mL	STD43919	10 mL	Transparent
27	WG359333-05	MS	L11030612-09		8081	27.81 g	.2 mL	.25 mL	STD42746	10 mL	Transparent
28	WG359333-06	MSD	L11030612-09		8081	30.84 g	.2 mL	.25 mL	STD42746	10 mL	Transparent

Clean-ups	
Florisil	3620B

Analyst: [signature]

Reviewer: [signature]

EXTRACT - Modified 10/22/2008
PDF ID: 1949166
Report generated: 03/28/2011 14:34

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 021811
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD43387 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD43926 Calibration STD:

Comments: All samples from file 15G25068 to the end need rerun. The syringe bent and didn't inject.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	15G25040.F	WG357038-01 ENDRIN/DDT	1	1	STD39983	02/18/11 14:48
2	15G25040.R	WG357038-01 ENDRIN/DDT	1	1	STD39983	02/18/11 15:16
3	15G25041.F	PEST CCV 20 PPB	1	1	STD43387	02/18/11 15:16
4	15G25041.R	PEST CCV 20 PPB	1	1	STD43387	02/18/11 15:45
5	15G25042.F	WG357035-01 TOX ICAL 2000 PPB	1	1	STD43915	02/18/11 17:39
6	15G25042.R	WG357035-01 TOX ICAL 2000 PPB	1	1	STD43915	02/18/11 18:07
7	15G25043.F	WG357035-02 TOX ICAL 1000 PPB	1	1	STD43915	02/18/11 18:07
8	15G25043.R	WG357035-02 TOX ICAL 1000 PPB	1	1	STD43915	02/18/11 18:36
9	15G25044.F	WG357035-03 TOX ICAL 500 PPB	1	1	STD43915	02/18/11 18:36
10	15G25044.R	WG357035-03 TOX ICAL 500 PPB	1	1	STD43915	02/18/11 19:04
11	15G25045.F	WG357035-04 TOX ICAL 200 PPB	1	1	STD43915	02/18/11 19:04
12	15G25045.R	WG357035-04 TOX ICAL 200 PPB	1	1	STD43915	02/18/11 19:33
13	15G25046.F	WG357035-05 TOX ICAL 100 PPB	1	1	STD43915	02/18/11 19:33
14	15G25046.R	WG357035-05 TOX ICAL 100 PPB	1	1	STD43915	02/18/11 20:01
15	15G25047.F	WG357035-05 TOX ALT 500 PPB	1	1	STD43915	02/18/11 20:01
16	15G25047.R	WG357035-05 TOX ALT 500 PPB	1	1	STD43915	02/18/11 20:29
17	15G25048.F	WG357037-01 PEST ICAL 200 PPB	1	1	STD43387	02/18/11 20:29
18	15G25048.R	WG357037-01 PEST ICAL 200 PPB	1	1	STD43387	02/18/11 20:58
19	15G25049.F	WG357037-02 PEST ICAL 100 PPB	1	1	STD43387	02/18/11 20:58
20	15G25049.R	WG357037-02 PEST ICAL 100 PPB	1	1	STD43387	02/18/11 21:26
21	15G25050.F	WG357037-03 PEST ICAL 20 PPB	1	1	STD43387	02/18/11 21:26
22	15G25050.R	WG357037-03 PEST ICAL 20 PPB	1	1	STD43387	02/18/11 21:54
23	15G25051.F	WG357037-04 PEST ICAL 10 PPB	1	1	STD43387	02/18/11 21:54
24	15G25051.R	WG357037-04 PEST ICAL 10 PPB	1	1	STD43387	02/18/11 22:23
25	15G25052.F	WG357037-05 PEST ICAL 4 PPB	1	1	STD43387	02/18/11 22:23
26	15G25052.R	WG357037-05 PEST ICAL 4 PPB	1	1	STD43387	02/18/11 22:51
27	15G25053.F	WG357037-06 PEST ICAL 1 PPB	1	1	STD43387	02/18/11 22:51
28	15G25053.R	WG357037-06 PEST ICAL 1 PPB	1	1	STD43387	02/18/11 23:19
29	15G25054.F	WG357037-07 PEST ALT 20 PPB	1	1	STD43387	02/18/11 23:19
30	15G25054.R	WG357037-07 PEST ALT 20 PPB	1	1	STD43387	02/18/11 23:48
31	15G25055.F	L11020282-01 10x	1	10		02/18/11 23:48
32	15G25055.R	L11020282-01 10x	1	10		02/19/11 00:16
33	15G25056.F	L11020281-06 10x	7	10	SOIL	02/19/11 00:16
34	15G25056.R	L11020281-06 10x	7	10	SOIL	02/19/11 00:44

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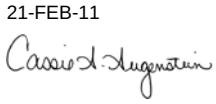


Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 021811
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

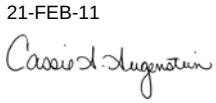
Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD43387 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD43926

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
35	15G25057.F	L11020281-14 100x	7	100	SOIL	02/19/11 00:44
36	15G25057.R	L11020281-14 100x	7	100	SOIL	02/19/11 01:13
37	15G25058.F	L11020281-21 100x	7	100	SOIL	02/19/11 01:13
38	15G25058.R	L11020281-21 100x	7	100	SOIL	02/19/11 01:41
39	15G25059.F	HEXANE	1	1		02/19/11 01:41
40	15G25059.R	HEXANE	1	1		02/19/11 02:09
41	15G25060.F	WG356905-01 BLANK	1	1		02/19/11 02:09
42	15G25060.R	WG356905-01 BLANK	1	1		02/19/11 02:38
43	15G25061.F	WG356905-02 LCS	1	1		02/19/11 02:38
44	15G25061.R	WG356905-02 LCS	1	1		02/19/11 03:06
45	15G25062.F	WG356905-03 LCS DUP	1	1		02/19/11 03:06
46	15G25062.R	WG356905-03 LCS DUP	1	1		02/19/11 03:35
47	15G25063.F	WG356905-04 TOX LCS	1	1		02/19/11 03:35
48	15G25063.R	WG356905-04 TOX LCS	1	1		02/19/11 04:03
49	15G25064.F	WG356906-01 FBLANK	17	1		02/19/11 04:03
50	15G25064.R	WG356906-01 FBLANK	17	1		02/19/11 04:31
51	15G25065.F	WG357038-02 ENDRIN/DDT	1	1	STD39983	02/19/11 04:31
52	15G25065.R	WG357038-02 ENDRIN/DDT	1	1	STD39983	02/19/11 05:00
53	15G25066.F	WG357038-03 PEST CCV 20 PPB	1	1	STD43387	02/19/11 05:00
54	15G25066.R	WG357038-03 PEST CCV 20 PPB	1	1	STD43387	02/19/11 05:28
55	15G25067.F	WG357036-01 TOX CCV 500 PPB	1	1	STD43915	02/19/11 05:28
56	15G25067.R	WG357036-01 TOX CCV 500 PPB	1	1	STD43915	02/19/11 05:56
57	15G25068.F	L11020354-01	17	1		02/19/11 05:56
58	15G25068.R	L11020354-01	17	1		02/19/11 06:24
59	15G25069.F	L11020354-02	17	1		02/19/11 06:24
60	15G25069.R	L11020354-02	17	1		02/19/11 06:53
61	15G25070.F	L11020378-01	17	1		02/19/11 06:53
62	15G25070.R	L11020378-01	17	1		02/19/11 07:21
63	15G25071.F	L11020434-01	1	1		02/19/11 07:21
64	15G25071.R	L11020434-01	1	1		02/19/11 07:49
65	15G25072.F	L11020447-05	1	1		02/19/11 07:49
66	15G25072.R	L11020447-05	1	1		02/19/11 08:18
67	15G25073.F	WG356521-02 BLANK	7	1	SOIL	02/19/11 08:18
68	15G25073.R	WG356521-02 BLANK	7	1	SOIL	02/19/11 08:46
69	15G25074.F	WG356521-03 LCS	7	1	SOIL	02/19/11 08:46
70	15G25074.R	WG356521-03 LCS	7	1	SOIL	02/19/11 09:14
71	15G25075.F	WG356521-04 TOX LCS	7	1	SOIL	02/19/11 09:14

 Approved: 21-FEB-11



Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 021811
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2

Workgroups:

CCV Std: STD43387 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD43926

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
72	15G25075.R	WG356521-04 TOX LCS	7	1	SOIL	02/19/11 09:42

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3				
	PEST CCV 20 PPB: Standard failed high. Needs recalibrated.			

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 032211
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD43387 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD43926 Calibration STD

Comments: The L11030612 samples were diluted due to the viscosity and appearance of the extracts.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	15G25534.F	WG359603-01 ENDRIN/DDT	1	1	STD39983	03/22/11 11:22
2	15G25534.R	WG359603-01 ENDRIN/DDT	1	1	STD39983	03/22/11 11:50
3	15G25535.F	WG359603-02 PEST CCV 20 PPB	1	1	STD43387	03/22/11 11:50
4	15G25535.R	WG359603-02 PEST CCV 20 PPB	1	1	STD43387	03/22/11 12:18
5	15G25536.F	WG359604-01 TOX CCV 500 PPB	1	1	STD43915	03/22/11 13:00
6	15G25536.R	WG359604-01 TOX CCV 500 PPB	1	1	STD43915	03/22/11 13:28
7	15G25537.F	AR1660 500 PPB	1	1	STD43286	03/22/11 13:28
8	15G25537.R	AR1660 500 PPB	1	1	STD43286	03/22/11 13:57
9	15G25538.F	WG359465-01 BLANK	2	1		03/22/11 13:57
10	15G25538.R	WG359465-01 BLANK	2	1		03/22/11 14:25
11	15G25539.F	WG359465-02 LCS	2	1		03/22/11 14:25
12	15G25539.R	WG359465-02 LCS	2	1		03/22/11 14:54
13	15G25540.F	WG359465-03 LCS DUP	2	1		03/22/11 14:54
14	15G25540.R	WG359465-03 LCS DUP	2	1		03/22/11 15:22
15	15G25541.F	L11030330-01 RE	2	1		03/22/11 15:22
16	15G25541.R	L11030330-01 RE	2	1		03/22/11 15:51
17	15G25542.F	WG359491-01 BLANK	2	1		03/22/11 15:51
18	15G25542.R	WG359491-01 BLANK	2	1		03/22/11 16:19
19	15G25543.F	WG359491-02 LCS	2	1		03/22/11 16:19
20	15G25543.R	WG359491-02 LCS	2	1		03/22/11 16:48
21	15G25544.F	WG359491-03 LCS DUP	2	1		03/22/11 16:48
22	15G25544.R	WG359491-03 LCS DUP	2	1		03/22/11 17:16
23	15G25545.F	L11030653-03	2	1		03/22/11 17:16
24	15G25545.R	L11030653-03	2	1		03/22/11 17:45
25	15G25546.F	L11030653-06	2	1		03/22/11 17:45
26	15G25546.R	L11030653-06	2	1		03/22/11 18:13
27	15G25547.F	WG359603-03 PEST CCV 10 PPB	1	1	STD43387	03/22/11 18:13
28	15G25547.R	WG359603-03 PEST CCV 10 PPB	1	1	STD43387	03/22/11 18:41
29	15G25548.F	WG359604-02 TOX CCV 200 PPB	1	1	STD43915	03/22/11 18:41
30	15G25548.R	WG359604-02 TOX CCV 200 PPB	1	1	STD43915	03/22/11 19:10
31	15G25549.F	WG359333-02 BLANK	7	1	SOIL	03/22/11 19:10
32	15G25549.R	WG359333-02 BLANK	7	1	SOIL	03/22/11 19:38
33	15G25550.F	WG359333-03 LCS	7	1	SOIL	03/22/11 19:38
34	15G25550.R	WG359333-03 LCS	7	1	SOIL	03/22/11 20:06

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Cassie L. Augustein

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 032211
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD43387 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD43926

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
35	15G25551.F	WG359333-04 TOX LCS	7	1	SOIL	03/22/11 20:06
36	15G25551.R	WG359333-04 TOX LCS	7	1	SOIL	03/22/11 20:35
37	15G25552.F	L11030544-01	7	1	SOIL	03/22/11 20:35
38	15G25552.R	L11030544-01	7	1	SOIL	03/22/11 21:03
39	15G25553.F	L11030544-02	7	1	SOIL	03/22/11 21:03
40	15G25553.R	L11030544-02	7	1	SOIL	03/22/11 21:31
41	15G25554.F	L11030612-09 REF	7	1	SOIL	03/22/11 21:31
42	15G25554.R	L11030612-09 REF	7	1	SOIL	03/22/11 22:00
43	15G25555.F	L11030612-10 MS	7	1	SOIL	03/22/11 22:00
44	15G25555.R	L11030612-10 MS	7	1	SOIL	03/22/11 22:28
45	15G25556.F	L11030612-11 MSD	7	1	SOIL	03/22/11 22:28
46	15G25556.R	L11030612-11 MSD	7	1	SOIL	03/22/11 22:56
47	15G25557.F	L11030612-12	7	1	SOIL	03/22/11 22:56
48	15G25557.R	L11030612-12	7	1	SOIL	03/22/11 23:25
49	15G25558.F	L11030612-14	7	1	SOIL	03/22/11 23:25
50	15G25558.R	L11030612-14	7	1	SOIL	03/22/11 23:54
51	15G25559.F	WG359603-04 ENDRIN/DDT	1	1	STD39983	03/22/11 23:54
52	15G25559.R	WG359603-04 ENDRIN/DDT	1	1	STD39983	03/23/11 00:22
53	15G25560.F	WG359603-05 PEST CCV 20 PPB	1	1	STD43387	03/23/11 00:22
54	15G25560.R	WG359603-05 PEST CCV 20 PPB	1	1	STD43387	03/23/11 00:50
55	15G25561.F	WG359604-03 TOX CCV 500 PPB	1	1	STD43915	03/23/11 00:50
56	15G25561.R	WG359604-03 TOX CCV 500 PPB	1	1	STD43915	03/23/11 01:19
57	15G25562.F	L11030612-19	7	1	SOIL	03/23/11 01:19
58	15G25562.R	L11030612-19	7	1	SOIL	03/23/11 01:47
59	15G25563.F	L11030612-21	7	1	SOIL	03/23/11 01:47
60	15G25563.R	L11030612-21	7	1	SOIL	03/23/11 02:15
61	15G25564.F	L11030612-25	7	1	SOIL	03/23/11 02:15
62	15G25564.R	L11030612-25	7	1	SOIL	03/23/11 02:44
63	15G25565.F	L11030612-28	7	1	SOIL	03/23/11 02:44
64	15G25565.R	L11030612-28	7	1	SOIL	03/23/11 03:12
65	15G25566.F	L11030612-30	7	1	SOIL	03/23/11 03:12
66	15G25566.R	L11030612-30	7	1	SOIL	03/23/11 03:40
67	15G25567.F	L11030612-26 5x	7	5	SOIL	03/23/11 03:40
68	15G25567.R	L11030612-26 5x	7	5	SOIL	03/23/11 04:09
69	15G25568.F	L11030612-27 5x	7	5	SOIL	03/23/11 04:09
70	15G25568.R	L11030612-27 5x	7	5	SOIL	03/23/11 04:37
71	15G25569.F	L11030612-29 5x	7	5	SOIL	03/23/11 04:37

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Cassie L. Augustein

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 032211
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD43387 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD43926

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
72	15G25569.R	L11030612-29 5x	7	5	SOIL	03/23/11 05:05
73	15G25570.F	L11030612-31 5x	7	5	SOIL	03/23/11 05:05
74	15G25570.R	L11030612-31 5x	7	5	SOIL	03/23/11 05:34
75	15G25571.F	L11030612-32 5x	7	5	SOIL	03/23/11 05:34
76	15G25571.R	L11030612-32 5x	7	5	SOIL	03/23/11 06:02
77	15G25572.F	WG359603-06 PEST CCV 10 PPB	1	1	STD43387	03/23/11 06:02
78	15G25572.R	WG359603-06 PEST CCV 10 PPB	1	1	STD43387	03/23/11 06:30
79	15G25573.F	WG359604-04 TOX CCV 200 PPB	1	1	STD43915	03/23/11 06:30
80	15G25573.R	WG359604-04 TOX CCV 200 PPB	1	1	STD43915	03/23/11 06:59
81	15G25574.F	L11030612-24 10x	7	10	SOIL	03/23/11 06:59
82	15G25574.R	L11030612-24 10x	7	10	SOIL	03/23/11 07:27
83	15G25575.F	L11030612-18 10x	7	10	SOIL	03/23/11 07:27
84	15G25575.R	L11030612-18 10x	7	10	SOIL	03/23/11 07:56
85	15G25576.F	L11030612-20 10x	7	10	SOIL	03/23/11 07:56
86	15G25576.R	L11030612-20 10x	7	10	SOIL	03/23/11 08:24
87	15G25577.F	L11030612-13 20x	7	20	SOIL	03/23/11 08:24
88	15G25577.R	L11030612-13 20x	7	20	SOIL	03/23/11 08:52
89	15G25578.F	L11030612-17 20x	7	20	SOIL	03/23/11 08:52
90	15G25578.R	L11030612-17 20x	7	20	SOIL	03/23/11 09:21
91	15G25579.F	HEXANE	1	1		03/23/11 09:21
92	15G25579.R	HEXANE	1	1		03/23/11 09:49
93	15G25580.F	HEXANE	1	1		03/23/11 09:49
94	15G25580.R	HEXANE	1	1		03/23/11 10:18
95	15G25581.F	WG359603-07 ENDRIN/DDT	1	1	STD39983	03/23/11 10:18
96	15G25581.R	WG359603-07 ENDRIN/DDT	1	1	STD39983	03/23/11 10:46
97	15G25582.F	WG359603-08 PEST CCV 20 PPB	1	1	STD43387	03/23/11 10:46
98	15G25582.R	WG359603-08 PEST CCV 20 PPB	1	1	STD43387	03/23/11 11:14
99	15G25583.F	WG359604-05 TOX CCV 500 PPB	1	1	STD43915	03/23/11 11:14
100	15G25583.R	WG359604-05 TOX CCV 500 PPB	1	1	STD43915	03/23/11 11:43

Comments

Seq.	Rerun	Dil.	Reason	Analytes
37				
	L11030544-01: T-M-X surrogate failed low, no re-extract required.			
39				
	L11030544-02: T-M-X surrogate failed low, no re-extract required.			

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Cassie L. Augustein

Microbac

Microbac Laboratories Inc.

Data Checklist

Date: 18-FEB-2011
Analyst: ECL
Analyst: NA
Method: 8081
Instrument: HP15
Curve Workgroup: NA
Runlog ID: 39114
Analytical Workgroups: L11020282, L11020281

ANALYTICAL	
System Performance Check	NA
DFTPP (MS)	NA
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	X
Average RF	X
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	X
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	X
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	ECL
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	CAA

Primary Reviewer:
19-FEB-2011

Secondary Reviewer:
21-FEB-2011

CHECKLIST1 - Modified 03/05/2008
Generated: FEB-21-2011 12:56:04

Microbac Laboratories Inc.

Data Checklist

Date: 22-MAR-2011
Analyst: ECL
Analyst: NA
Method: 8081
Instrument: HP15
Curve Workgroup: NA
Runlog ID: 39631
Analytical Workgroups: L11030330, L11030653, L11030544, L11030612

ANALYTICAL	
System Performance Check	NA
DFTPP (MS)	NA
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	X
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	X
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	X
Check for completeness	X
Primary Reviewer	ECL
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	CAA

Primary Reviewer:
24-MAR-2011

Secondary Reviewer:
24-MAR-2011

CHECKLIST1 - Modified 03/05/2008
Generated: MAR-24-2011 10:35:26

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8081A AAB#: WG359406

Login Number: L11030544

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
898909	01	03/08/11					03/18/11	9.9	14		03/22/11	4.5	40	
898916	02	03/08/11					03/18/11	9.9	14		03/22/11	4.5	40	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1951876
Report generated 03/24/2011 13:47

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L11030544
Instrument Id: HP15
Workgroup (AAB#): WG359406

Method: 8081
CAL ID: HP15-18-FEB-11
Matrix: Soil

Sample Number	Dilution	Tag	1	2
L11030544-01	1.00	01	51.0	75.2
L11030544-02	1.00	01	64.9	74.9
WG359333-02	1.00	01	59.6	74.5
WG359333-02	1.00	02	63.1	69.2
WG359333-03	1.00	01	65.1	82.0
WG359333-03	1.00	02	69.7	75.7
WG359333-04	1.00	03	66.6	83.1

Surrogates	Surrogate Limits		
1 - 2,4,5,6-Tetrachloro-m-xylene	70	-	125
2 - Decachlorobiphenyl	55	-	130

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1951864
Report generated: 03/24/2011 13:48

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L11030544	Work Group:	WG359406
Blank File ID:	15G25549.F	Blank Sample ID:	WG359333-02
Prep Date:	03/18/11 08:38	Instrument ID:	HP15
Analyzed Date:	03/22/11 19:10	Method:	8081A
Analyst:	ECL		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG359333-03	15G25550.F	03/22/11 19:38	01
LCS_TOX	WG359333-04	15G25551.F	03/22/11 20:06	03
LCS	WG359333-03	15G25550.R	03/22/11 20:06	02
898909	L11030544-01	15G25552.F	03/22/11 20:35	01
898916	L11030544-02	15G25553.F	03/22/11 21:03	01

Report Name: BLANK_SUMMARY
PDF File ID: 1951877
Report generated 03/24/2011 13:47

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11030544 Prep Date: 03/18/11 08:38 Sample ID: WG359333-02
Instrument ID: HP15 Run Date: 03/22/11 19:10 Prep Method: 3550B
File ID: 15G25549.F Analyst: ECL Method: 8081A
Workgroup (AAB#): WG359406 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HP15-18-FEB-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
4,4'-DDD	0.330	1.65	0.330	1	U
4,4'-DDE	0.330	1.65	0.330	1	U
4,4'-DDT	0.330	1.65	0.330	1	U
Aldrin	0.330	1.65	0.330	1	U
alpha Chlordane	0.330	1.65	0.330	1	U
alpha-BHC	0.330	1.65	0.330	1	U
beta-BHC	0.330	1.65	0.330	1	U
delta-BHC	0.330	1.65	0.330	1	U
Dieldrin	0.330	1.65	0.330	1	U
Endosulfan I	0.330	1.65	0.330	1	U
Endosulfan II	0.330	1.65	0.330	1	U
Endosulfan sulfate	0.330	1.65	0.330	1	U
Endrin	0.330	1.65	0.330	1	U
Endrin aldehyde	0.330	1.65	0.330	1	U
gamma Chlordane	0.330	1.65	0.330	1	U
gamma-BHC (Lindane)	0.330	1.65	0.330	1	U
Heptachlor	0.330	1.65	0.330	1	U
Heptachlor epoxide	0.330	1.65	0.330	1	U
Methoxychlor	0.330	1.65	0.330	1	U
Toxaphene	16.7	33.0	16.7	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
2,4,5,6-Tetrachloro-m-xylene	59.6	70	-	125	FAIL
Decachlorobiphenyl	74.5	55	-	130	PASS

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1951878
24-MAR-2011 13:47

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11030544 Run Date: 03/22/2011 Sample ID: WG359333-03
Instrument ID: HP15 Run Time: 19:38 Prep Method: 3550B
File ID: 15G25550.F Analyst: ECL Method: 8081A
Workgroup (AAB#): WG359406 Matrix: Soil Units: ug/kg
QC Key: DOD4 Lot#: STD42746 Cal ID: HP15-18-FEB-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
4,4'-DDD	16.7	15.4	92.2	30 - 135	
4,4'-DDE	16.7	15.7	94.2	70 - 125	
4,4'-DDT	16.7	17.0	102	45 - 140	
Aldrin	16.7	13.2	79.4	45 - 140	
alpha Chlordane	16.7	14.5	87.1	65 - 120	
alpha-BHC	16.7	13.8	82.9	60 - 125	
beta-BHC	16.7	13.8	82.6	60 - 125	
delta-BHC	16.7	14.8	88.5	55 - 130	
Dieldrin	16.7	16.2	97.1	65 - 125	
Endosulfan I	16.7	14.6	87.4	15 - 135	
Endosulfan II	16.7	14.6	87.7	35 - 140	
Endosulfan sulfate	16.7	14.8	88.7	60 - 135	
Endrin	16.7	15.9	95.6	60 - 135	
Endrin aldehyde	16.7	13.0	78.1	35 - 145	
gamma Chlordane	16.7	14.3	86.1	65 - 125	
gamma-BHC (Lindane)	16.7	14.9	89.6	60 - 125	
Heptachlor	16.7	12.5	75.2	50 - 140	
Heptachlor epoxide	16.7	12.4	74.5	65 - 130	
Methoxychlor	16.7	16.1	96.7	55 - 145	

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	65.1	70 - 125	FAIL
Decachlorobiphenyl	82.0	55 - 130	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1951863
Report generated: 03/24/2011 13:47

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11030544 Run Date: 03/22/2011 Sample ID: WG359333-04
Instrument ID: HP15 Run Time: 20:06 Prep Method: 3550B
File ID: 15G25551.F Analyst: ECL Method: 8081A
Workgroup (AAB#): WG359406 Matrix: Soil Units: ug/kg
QC Key: DOD4 Lot#: STD42746 Cal ID: HP15-18-FEB-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Toxaphene	66.7	51.7	77.5	25 - 138	

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	66.6	70 - 125	FAIL
Decachlorobiphenyl	83.1	55 - 130	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1951863
Report generated: 03/24/2011 13:47

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L11030544 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 18-FEB-11 20:29

ICAL Workgroup: WG357035 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
Toxaphene-1		1234000	8.49		
Toxaphene-2		1799000	11.8		
Toxaphene-3		3339000	3.29		
Toxaphene-4		1483000	7.20		
Toxaphene-5		1393000	5.96		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1951880
Report generated 03/24/2011 13:48

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L11030544 **Instrument ID:** HP15
Analytical Method: 8081A **Initial Calibration Date:** 18-FEB-11 23:19
ICAL Workgroup: WG357037 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
4,4'-DDD		116500000	3.48		
4,4'-DDE		142500000	3.58		
4,4'-DDT		117600000	1.77		
Aldrin		154800000	4.40		
Dieldrin		134200000	6.24		
Endosulfan I		137800000	9.12		
Endosulfan II		123200000	7.96		
Endosulfan Sulfate		106600000	7.19		
Endrin		133900000	4.59		
Endrin Aldehyde		98270000	10.6		
Heptachlor		172300000	7.89		
Heptachlor Epoxide		155600000	8.64		
Methoxychlor		57090000	6.10		
alpha-BHC		192600000	7.31		
alpha-Chlordane		151400000	3.81		
beta-BHC		78620000	1.20		
delta-BHC		179500000	8.08		
gamma-BHC		178800000	4.63		
gamma-Chlordane		161700000	1.69		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1951880
Report generated 03/24/2011 13:48

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11030544
Analytical Method: 8081A
Instrument ID: HP15
Initial Calibration Date: 18-FEB-11 20:29
Column ID: F

Analyte	WG357035-01			WG357035-02			WG357035-03		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Toxaphene-1	2000	2649535620	1325000	1000	1262225300	1262000	500	644588697	1289000
Toxaphene-2	2000	3808203820	1904000	1000	1890827410	1891000	500	966427204	1933000
Toxaphene-3	2000	6825382010	3413000	1000	3448119230	3448000	500	1672072080	3344000
Toxaphene-4	2000	3211627030	1606000	1000	1550556650	1551000	500	768921419	1538000
Toxaphene-5	2000	3019075480	1510000	1000	1458088470	1458000	500	712470994	1425000

INT_CAL - Modified 03/06/2008
PDF File ID: 1951880
Report generated 03/24/2011 13:48

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11030544 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 18-FEB-11 20:29

Column ID: F

Analyte	WG357035-04			WG357035-05		
	CONC	RESP	RF	CONC	RESP	RF
Toxaphene-1	200	247380784	1237000	100	126137608	1261000
				500	514561426	1029000
Toxaphene-2	200	368100093	1841000	500	684706629	1369000
				100	185643158	1856000
Toxaphene-3	200	661724856	3309000	500	1568815230	3138000
				100	337982007	3380000
Toxaphene-4	200	289048981	1445000	500	651827342	1304000
				100	145563416	1456000
Toxaphene-5	200	263306367	1317000	100	131438995	1314000
				500	666343361	1333000

INT_CAL - Modified 03/06/2008
PDF File ID: 1951880
Report generated 03/24/2011 13:48

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11030544 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 18-FEB-11 23:19

Column ID: F

Analyte	WG357037-01			WG357037-02			WG357037-03		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
4,4'-DDD	200	22488372600	112400000	100	11813743200	118100000	20.0	2425968600	121300000
4,4'-DDE	200	28109776900	140500000	100	14678702000	146800000	20.0	2956932360	147800000
4,4'-DDT	200	22980065600	114900000	100	11773325600	117700000	20.0	2359022570	118000000
Aldrin	200	28746493100	143700000	100	15147226900	151500000	20.0	3208900870	160400000
Dieldrin	200	23760028100	118800000	100	13517154000	135200000	20.0	2814178860	140700000
Endosulfan I	200	23295424500	116500000	100	12956385800	129600000	20.0	2814714510	140700000
Endosulfan II	200	21397200800	107000000	100	11649856500	116500000	20.0	2483154370	124200000
Endosulfan Sulfate	200	19354805600	96770000	100	10032727000	100300000	20.0	2112560960	105600000
Endrin	200	24619077400	123100000	100	13034927300	130300000	20.0	2770080590	138500000
Endrin Aldehyde	200	16964281300	84820000	100	8884290090	88840000	20.0	1934398140	96720000
Heptachlor	200	30095481900	150500000	100	16095643300	161000000	20.0	3536396140	176800000
Heptachlor Epoxide	200	26954103600	134800000	100	14426322700	144300000	20.0	3171221850	158600000
Methoxychlor	200	10297639100	51490000	100	5433906280	54340000	20.0	1151300260	57570000
alpha-BHC	200	41293366400	206500000	100	20560058800	205600000	20.0	3969372330	198500000
alpha-Chlordane	200	28277541100	141400000	100	15027136900	150300000	20.0	3044984670	152200000
beta-BHC	200	15528442400	77640000	100	7744879830	77450000	20.0	1568081790	78400000
delta-BHC	200	38127712600	190600000	100	19263757500	192600000	20.0	3744816710	187200000
gamma-BHC	200	37067965000	185300000	100	18565379200	185700000	20.0	3646032760	182300000
gamma-Chlordane	200	31405998900	157000000	100	16066389500	160700000	20.0	3246902560	162300000

INT_CAL - Modified 03/06/2008
PDF File ID: 1951880
Report generated 03/24/2011 13:48

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11030544
Analytical Method: 8081A
Instrument ID: HP15
Initial Calibration Date: 18-FEB-11 23:19
Column ID: F

Analyte	WG357037-04			WG357037-05			WG357037-06		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
4,4'-DDD	10.0	1199986710	120000000	4.00	464767266	116200000	1.00	111224952	111200000
4,4'-DDE	10.0	1453440680	145300000	4.00	561358026	140300000	1.00	134356628	134400000
4,4'-DDT	10.0	1204521340	120500000	4.00	476218048	119100000	1.00	115619876	115600000
Aldrin	10.0	1629475630	162900000	4.00	622303628	155600000	1.00	154741189	154700000
Dieldrin	10.0	1312679490	131300000	4.00	558661321	139700000	1.00	139807884	139800000
Endosulfan I	10.0	1433421930	143300000	4.00	583127638	145800000	1.00	150605772	150600000
Endosulfan II	10.0	1273882330	127400000	4.00	530664912	132700000	1.00	131234624	131200000
Endosulfan Sulfate	10.0	1077068280	107700000	4.00	443496255	110900000	1.00	118327721	118300000
Endrin	10.0	1390876410	139100000	4.00	548359194	137100000	1.00	135154249	135200000
Endrin Aldehyde	10.0	1011076380	101100000	4.00	419910178	105000000	1.00	113137232	113100000
Heptachlor	10.0	1798485500	179800000	4.00	717785708	179400000	1.00	186123123	186100000
Heptachlor Epoxide	10.0	1636379760	163600000	4.00	646164126	161500000	1.00	170856368	170900000
Methoxychlor	10.0	594938183	59490000	4.00	241728480	60430000	1.00	59214694.0	59210000
alpha-BHC	10.0	1928568370	192900000	4.00	724289288	181100000	1.00	171078073	171100000
alpha-Chlordane	10.0	1517693460	151800000	4.00	614912751	153700000	1.00	159044484	159000000
beta-BHC	10.0	791026419	79100000	4.00	318880724	79720000	1.00	79420315.0	79420000
delta-BHC	10.0	1823535850	182400000	4.00	673948585	168500000	1.00	155718921	155700000
gamma-BHC	10.0	1815436890	181500000	4.00	693647566	173400000	1.00	164496532	164500000
gamma-Chlordane	10.0	1627219760	162700000	4.00	647999104	162000000	1.00	165313433	165300000

INT_CAL - Modified 03/06/2008
PDF File ID: 1951880
Report generated 03/24/2011 13:48

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L11030544 Run Date: 02/18/2011 Sample ID: WG357035-06
Instrument ID: HP15 Run Time: 20:01 Method: 8081A
File ID: 15G25047.F Analyst: ECL QC Key: DOD4
ICal Workgroup: WG357035 Cal ID: HP15 - 18-FEB-11

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Toxaphene		500	427	ug/L	1630000	14.6	20	

* Exceeds %D Limit

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1951881
Report generated 03/25/2011 08:29

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L11030544 Run Date: 02/18/2011 Sample ID: WG357037-07
Instrument ID: HP15 Run Time: 23:48 Method: 8081A
File ID: 15G25054.R Analyst: ECL QC Key: DOD4
ICal Workgroup: WG357037 Cal ID: HP15 - 18-FEB-11

Analyte		Expected	Found	Units	RF	%D	UCL	Q
4,4'-DDD		20.0	19.9	ug/L	87300000	0.400	20	
4,4'-DDE		20.0	20.2	ug/L	109000000	0.800	20	
4,4'-DDT		20.0	19.9	ug/L	87600000	0.700	20	
Aldrin		20.0	20.0	ug/L	124000000	0.100	20	
alpha-Chlordane		20.0	19.4	ug/L	110000000	3.20	20	
alpha-BHC		20.0	20.6	ug/L	144000000	2.80	20	
beta-BHC		20.0	19.8	ug/L	59100000	0.800	20	
delta-BHC		20.0	19.9	ug/L	137000000	0.600	20	
Dieldrin		20.0	19.6	ug/L	109000000	2.10	20	
Endosulfan I		20.0	20.7	ug/L	97100000	3.50	20	
Endosulfan II		20.0	19.3	ug/L	91300000	3.30	20	
Endosulfan Sulfate		20.0	19.4	ug/L	80700000	3.20	20	
Endrin		20.0	20.4	ug/L	94200000	1.80	20	
Endrin Aldehyde		20.0	19.6	ug/L	68200000	2.00	20	
gamma-Chlordane		20.0	19.7	ug/L	115000000	1.70	20	
gamma-BHC		20.0	19.9	ug/L	134000000	0.600	20	
Heptachlor		20.0	20.0	ug/L	128000000	0	20	
Heptachlor Epoxide		20.0	20.3	ug/L	105000000	1.50	20	
Methoxychlor		20.0	19.6	ug/L	41400000	2.20	20	

* Exceeds %D Limit

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1951881
Report generated 03/25/2011 08:29

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030544 Run Date: 03/22/2011 Sample ID: WG359603-03
Instrument ID: HP15 Run Time: 18:13 Method: 8081A
File ID: 15G25547.F Analyst: ECL QC Key: DOD4
Workgroup (AAB#): WG359406 Cal ID: HP15 - 18-FEB-11
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		10.0	9.99	ug/L	116000000	0.0510	20	
4,4'-DDE		10.0	10.1	ug/L	144000000	1.27	20	
4,4'-DDT		10.0	10.5	ug/L	124000000	5.29	20	
Aldrin		10.0	10.2	ug/L	157000000	1.57	20	
alpha-Chlordane		10.0	9.99	ug/L	151000000	0.0570	20	
alpha-BHC		10.0	9.77	ug/L	188000000	2.35	20	
beta-BHC		10.0	9.78	ug/L	76900000	2.20	20	
delta-BHC		10.0	9.72	ug/L	174000000	2.82	20	
Dieldrin		10.0	10.9	ug/L	146000000	8.68	20	
Endosulfan I		10.0	10.4	ug/L	143000000	3.68	20	
Endosulfan II		10.0	10.6	ug/L	130000000	5.89	20	
Endosulfan Sulfate		10.0	10.1	ug/L	107000000	0.733	20	
Endrin		10.0	10.2	ug/L	136000000	1.59	20	
Endrin Aldehyde		10.0	10.1	ug/L	98900000	0.609	20	
gamma-Chlordane		10.0	9.84	ug/L	159000000	1.56	20	
gamma-BHC		10.0	9.75	ug/L	174000000	2.52	20	
Heptachlor		10.0	10.2	ug/L	175000000	1.68	20	
Heptachlor Epoxide		10.0	10.2	ug/L	159000000	2.07	20	
Methoxychlor		10.0	10.7	ug/L	61200000	7.26	20	
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1951882
Report generated 03/24/2011 13:48

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030544 Run Date: 03/22/2011 Sample ID: WG359604-02
Instrument ID: HP15 Run Time: 18:41 Method: 8081A
File ID: 15G25548.F Analyst: ECL QC Key: DOD4
Workgroup (AAB#): WG359406 Cal ID: HP15 - 18-FEB-11
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		200	209	ug/L	1990000	4.28	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1951882
Report generated 03/24/2011 13:48

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030544 Run Date: 03/23/2011 Sample ID: WG359603-05
Instrument ID: HP15 Run Time: 00:22 Method: 8081A
File ID: 15G25560.F Analyst: ECL QC Key: DOD4
Workgroup (AAB#): WG359406 Cal ID: HP15 - 18-FEB-11
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		20.0	23.0	ug/L	134000000	15.1	20	
4,4'-DDE		20.0	23.5	ug/L	167000000	17.3	20	
4,4'-DDT		20.0	23.8	ug/L	140000000	19.2	20	
Aldrin		20.0	22.5	ug/L	174000000	12.6	20	
alpha-Chlordane		20.0	22.1	ug/L	167000000	10.6	20	
alpha-BHC		20.0	21.6	ug/L	208000000	8.17	20	
beta-BHC		20.0	21.0	ug/L	82400000	4.86	20	
delta-BHC		20.0	21.7	ug/L	195000000	8.56	20	
Dieldrin		20.0	22.1	ug/L	149000000	10.7	20	
Endosulfan I		20.0	22.8	ug/L	157000000	13.9	20	
Endosulfan II		20.0	23.2	ug/L	143000000	15.9	20	
Endosulfan Sulfate		20.0	22.3	ug/L	119000000	11.4	20	
Endrin		20.0	23.0	ug/L	154000000	15.2	20	
Endrin Aldehyde		20.0	22.4	ug/L	110000000	12.1	20	
gamma-Chlordane		20.0	22.1	ug/L	179000000	10.7	20	
gamma-BHC		20.0	21.7	ug/L	194000000	8.69	20	
Heptachlor		20.0	22.1	ug/L	191000000	10.7	20	
Heptachlor Epoxide		20.0	22.3	ug/L	174000000	11.5	20	
Methoxychlor		20.0	23.4	ug/L	66900000	17.1	20	
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1951882
Report generated 03/24/2011 13:48

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030544 Run Date: 03/23/2011 Sample ID: WG359604-03
Instrument ID: HP15 Run Time: 00:50 Method: 8081A
File ID: 15G25561.F Analyst: ECL QC Key: DOD4
Workgroup (AAB#): WG359406 Cal ID: HP15 - 18-FEB-11
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		500	580	ug/L	2220000	16.0	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 1951882
Report generated 03/24/2011 13:48

Microbac Laboratories Inc.

ENDRIN/4,4'-DDT BREAKDOWN (BRKDWN)

Login Number: L11030544 Run Date: 03/22/2011 Sample ID: WG359603-01
Instrument ID: HP15 Run Time: 11:22 Method: 8081
File ID: 15G25534.F Analyst: ECL Column ID: FRONT

DDT BREAKDOWN

Analyte	Response
4,4'-DDD	0
4,4'-DDE	100916008
4,4'-DDT	6376983995

DDT % BREAKDOWN: 1.56

ENDRIN BREAKDOWN

Analyte	Response
ENDRIN	6893557395
ENDRIN ALDEHYDE	0
ENDRIN KETONE	121108608

ENDRIN % BREAKDOWN: 1.73

* Exceeds 15% Criteria

Report Name: BRKDWN
PDF File ID: 1951879
Report generated 03/24/2011 13:48

Microbac Laboratories Inc.

ENDRIN/4,4'-DDT BREAKDOWN (BRKDWN)

Login Number: L11030544 Run Date: 03/22/2011 Sample ID: WG359603-04
Instrument ID: HP15 Run Time: 23:54 Method: 8081
File ID: 15G25559.F Analyst: ECL Column ID: FRONT

DDT BREAKDOWN

Analyte	Response
4,4'-DDD	0
4,4'-DDE	100940551
4,4'-DDT	6228070520

DDT % BREAKDOWN: 1.59

ENDRIN BREAKDOWN

Analyte	Response
ENDRIN	6924047962
ENDRIN ALDEHYDE	0
ENDRIN KETONE	94321371

ENDRIN % BREAKDOWN: 1.34

* Exceeds 15% Criteria

Report Name: BRKDWN
PDF File ID: 1951879
Report generated 03/24/2011 13:48

2.1.1.3 Sample Data

Data Path : C:\MSDCHEM\1\DATA\032211\
Data File : 15G25552.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Mar 2011 20:35 (#1); 22 Mar 2011 21:03 (#2)
Operator : ECL
Sample : L11030544-01
Misc : 7,1 SOIL
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 12:01:13 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

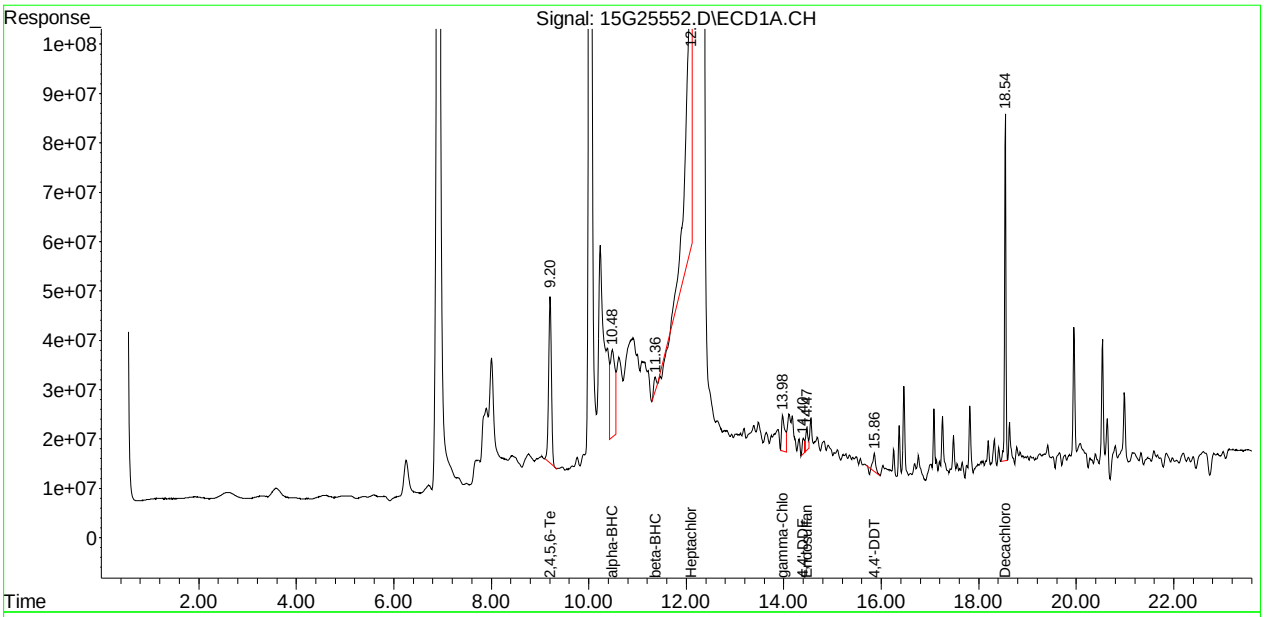
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1) S	2,4,5,6-Tetrachl	9.21	9.14	1324.9E6	972.6E6	10.203	10.077	
	Spiked Amount	20.000	Range 29 - 133		Recovery =	51.02%	50.39%	
22) S	Decachlorobiphen	18.54	18.86	1336.8E6	900.0E6	15.032	14.056	
	Spiked Amount	20.000	Range 30 - 173		Recovery =	75.16%	70.28%	
	Target Compounds							
2)	alpha-BHC	10.48	0.00	1190.4E6	0	6.181	N.D.	#
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.	
4)	beta-BHC	11.36f	0.00	109.5E6	0	1.393	N.D.	#
5)	Heptachlor	12.10	0.00	5364.2E6	0	31.137	N.D.	#
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	13.98	0.00	346.9E6	0	2.146	N.D.	#
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	14.47f	0.00	145.4E6	0	1.055	N.D.	#
12)	4,4'-DDE	14.40f	14.64	97640339	94143469	0.685	0.873	#
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.	
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	15.86	0.00	118.3E6	0	1.006	N.D.	#
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.	
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

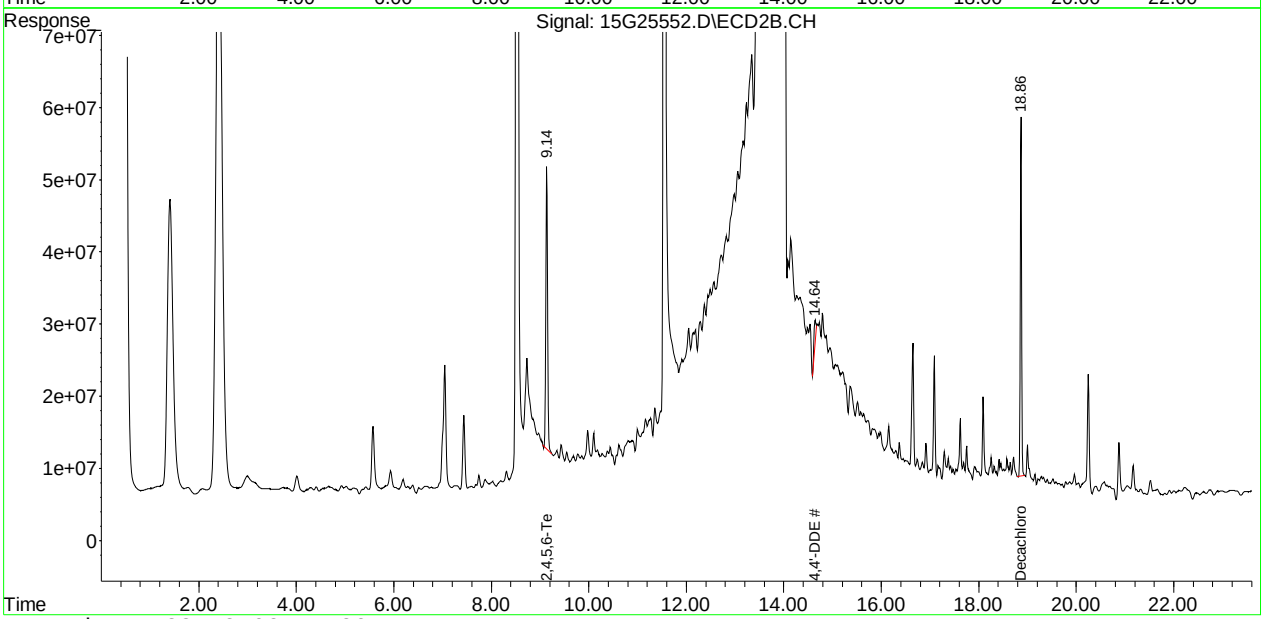
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\032211\
Data File : 15G25552.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Mar 2011 20:35 (#1); 22 Mar 2011 21:03 (#2)
Operator : ECL
Sample : L11030544-01
Misc : 7,1 SOIL
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 12:01:13 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

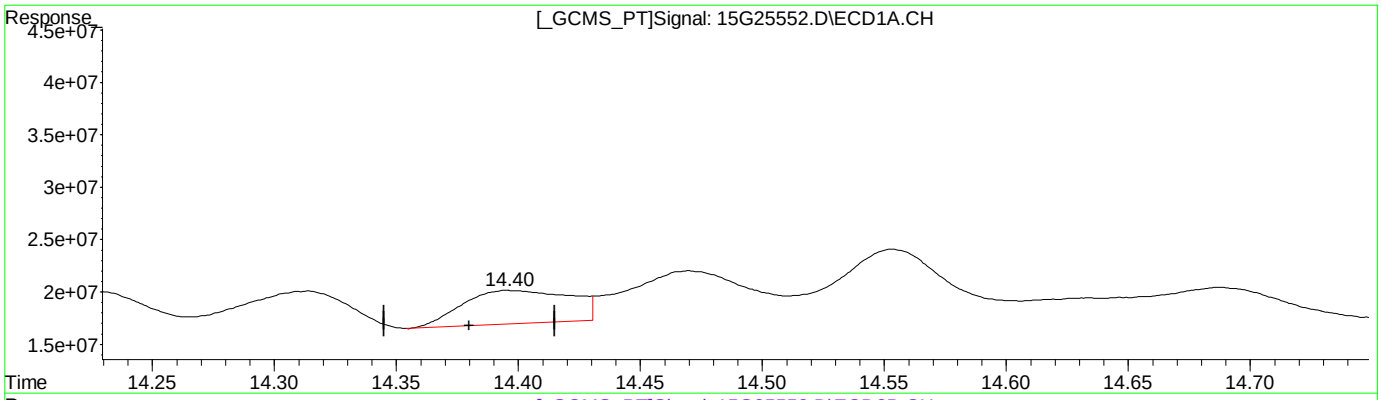


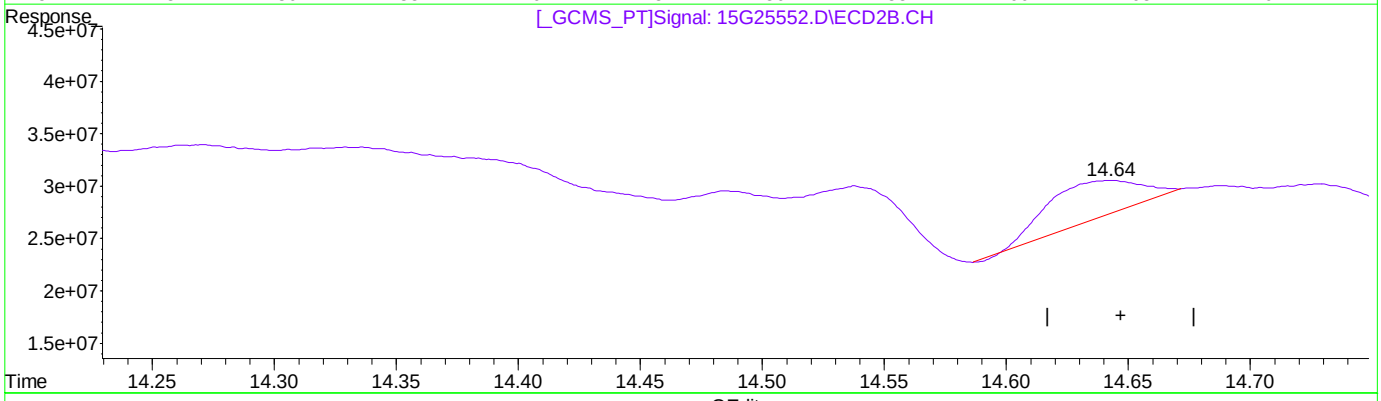


Data Path : C:\MSDChem\1\DATA\032211\
Data File : 15G25552.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 22 Mar 2011 20:35 (#1); 22 Mar 2011 21:03 (#2)
Operator : ECL
Sample   : L11030544-01
Misc   : 7,1 SOIL
ALS Vial : 19   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 12:01:13 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(12) 4,4'-DDE

14.40min 0.685UG/L

response 97640339

(12) 4,4'-DDE #2

14.64min 0.873UG/L

response 94143469

(+) = Expected Retention Time

Data Path : C:\MSDCHEM\1\DATA\032211\
Data File : 15G25553.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Mar 2011 21:03 (#1); 22 Mar 2011 21:31 (#2)
Operator : ECL
Sample : L11030544-02
Misc : 7,1 SOIL
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 12:01:23 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

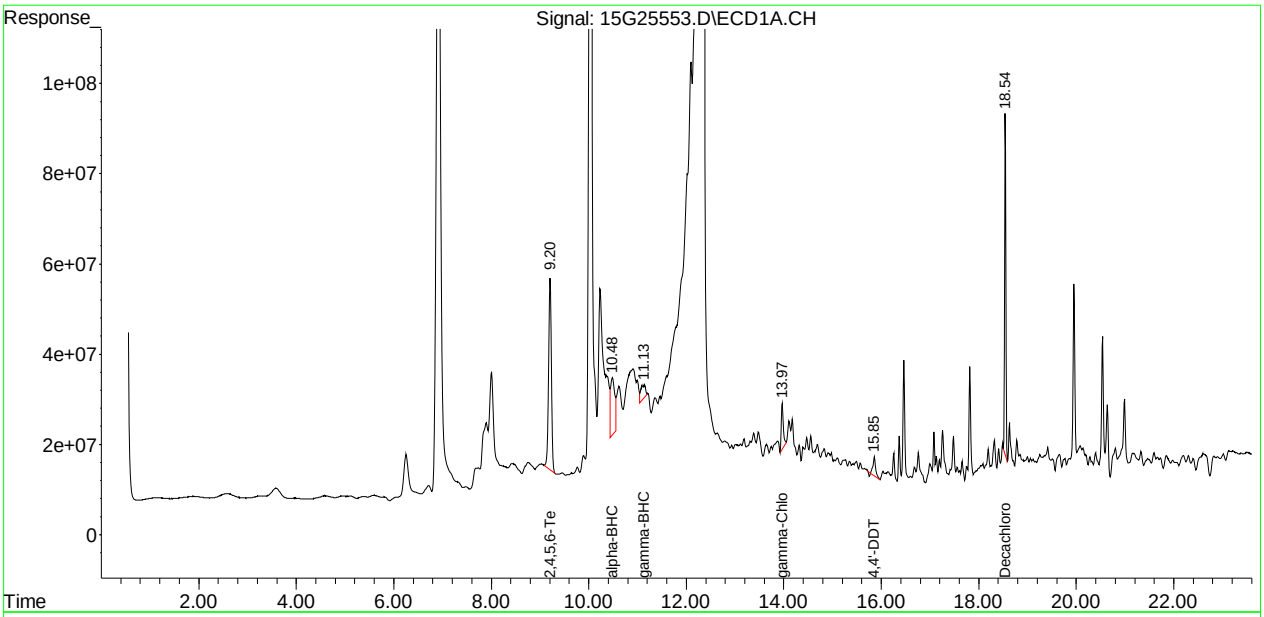
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1)	S 2,4,5,6-Tetrachl	9.20	9.14	1685.4E6	1249.7E6	12.979	12.948	
	Spiked Amount	20.000	Range 29 - 133		Recovery =	64.89%	64.74%	
22)	S Decachlorobiphen	18.54	18.86	1332.3E6	985.1E6	14.981	15.383	
	Spiked Amount	20.000	Range 30 - 173		Recovery =	74.91%	76.92%	
	Target Compounds							
2)	alpha-BHC	10.48	0.00	769.6E6	0	3.996	N.D.	#
3)	gamma-BHC	11.13f	0.00	203.8E6	0	1.140	N.D.	#
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	12.71f	0	225.5E6	N.D.	1.810	#
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	13.96f	0.00	291.4E6	0	1.802	N.D.	#
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.	
12)	4,4'-DDE	0.00	14.64	0	76902312	N.D.	0.713	#
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.	
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	15.86	0.00	152.1E6	0	1.293	N.D.	#
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.	
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

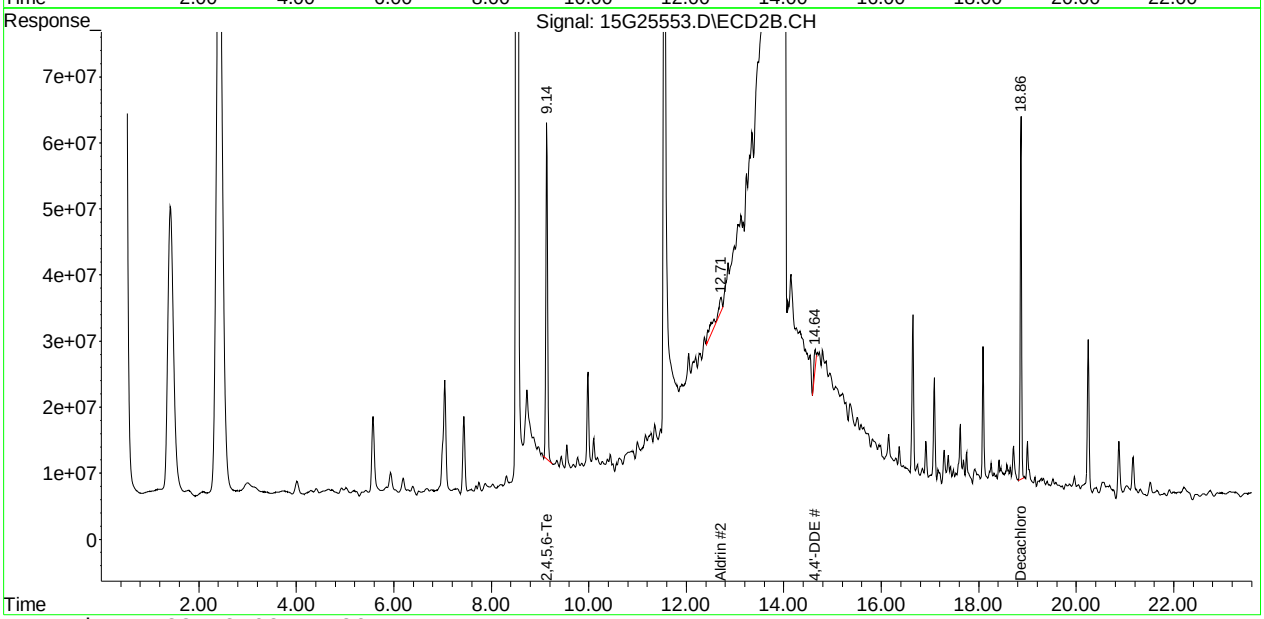
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\032211\
Data File : 15G25553.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Mar 2011 21:03 (#1); 22 Mar 2011 21:31 (#2)
Operator : ECL
Sample : L11030544-02
Misc : 7,1 SOIL
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 12:01:23 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





2.1.1.4 Standards Data

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 17:39 (#1); 18 Feb 2011 18:07 (#2)
Operator : ECL
Sample : WG357035-01 TOX ICAL 2000 PPB
Misc : 1,1 STD43915
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:45:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:00 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

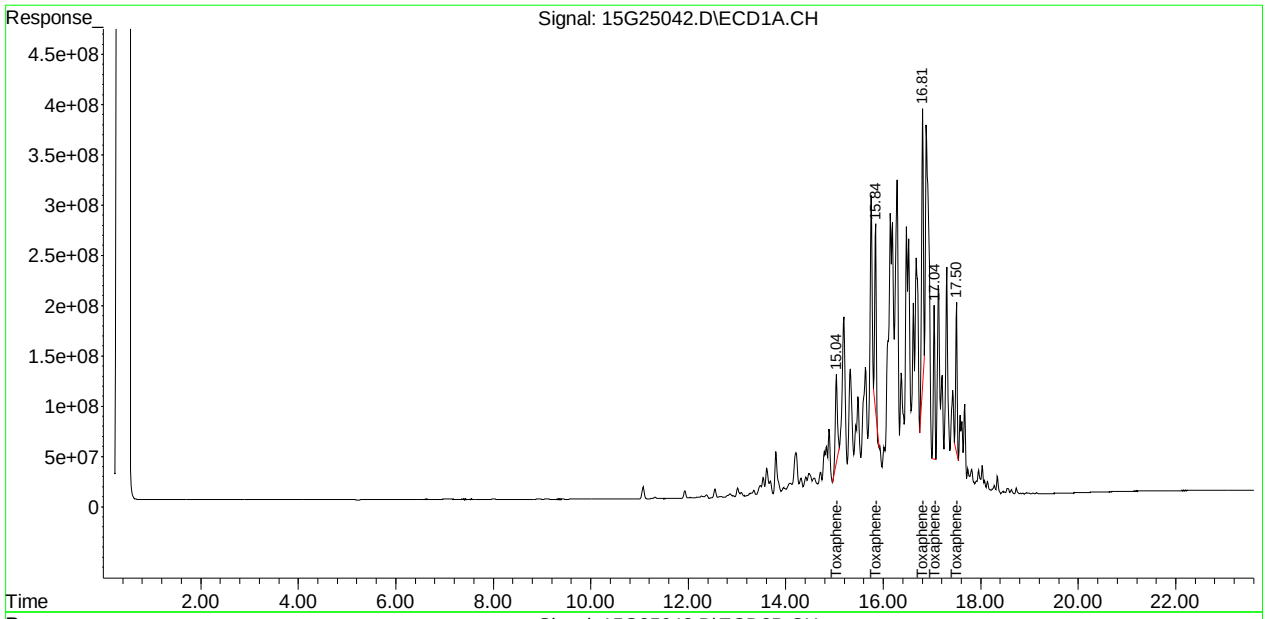
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.04	14.88	2649.5E6	2054.8E6	2148.602	1951.591
2)	L1 Toxaphene-2	15.84	15.94	3808.2E6	6404.3E6	2071.008	1992.766
3)	L1 Toxaphene-3	16.81	16.73	6825.4E6	1988.7E6	2079.119m	2044.988
4)	L1 Toxaphene-4	17.04	17.07	3211.6E6	4523.6E6	2171.403	2031.588
5)	L1 Toxaphene-5	17.50	17.58	3019.1E6	1762.8E6	2179.577	2081.032
	Sum Toxaphene-1			19513.8E6	16734.2E6	10649.710	10101.964
Average	Toxaphene-1					2129.942	2020.393

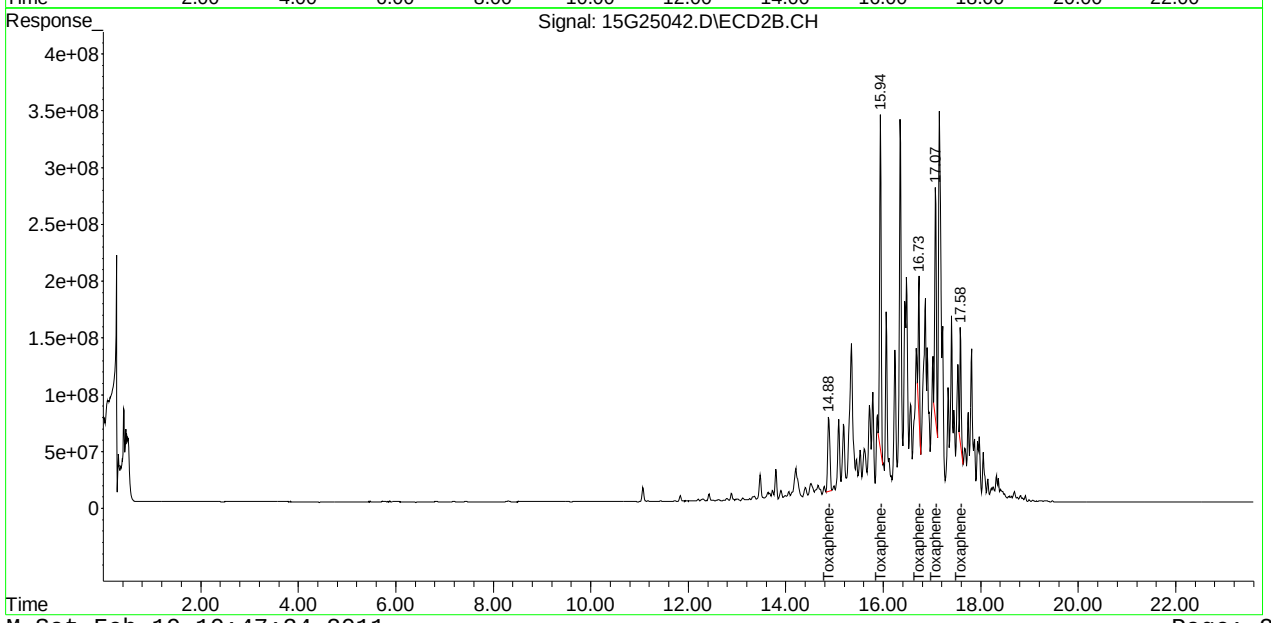
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 17:39 (#1); 18 Feb 2011 18:07 (#2)
Operator : ECL
Sample : WG357035-01 TOX ICAL 2000 PPB
Misc : 1,1 STD43915
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:45:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:00 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

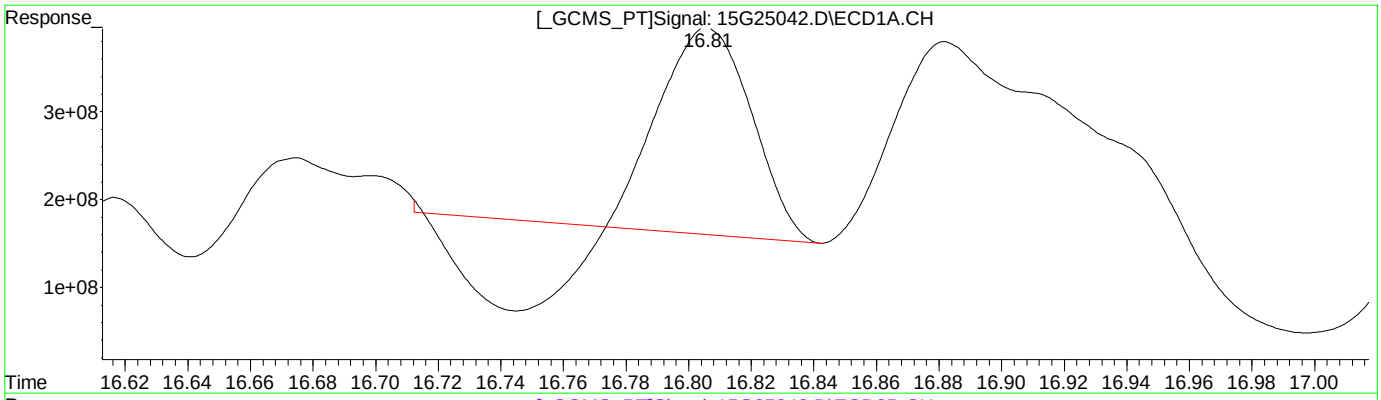


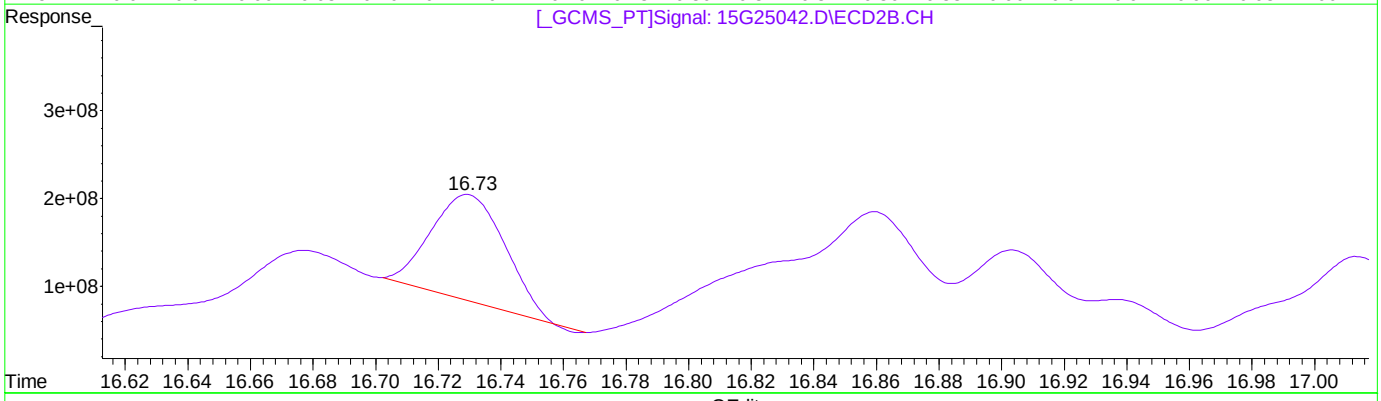


Data Path : C:\MSDChem\1\DATA\021811\
Data File : 15G25042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 18 Feb 2011 17:39 (#1); 18 Feb 2011 18:07 (#2)
Operator : ECL
Sample   : WG357035-01 TOX ICAL 2000 PPB
Misc   : 1,1 STD43915
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:45:07 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:00 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(3) Toxaphene-3 (L1)

R.T.	Response	Conc
16.81	2908516681	885.98
17.04	3211627031	2171.40
17.50	3019075484	2179.58

(3) Toxaphene-3 #2 (L1)

R.T.	Response	Conc
16.73	1988673787	2044.99
17.07	4523621514	2031.59
17.58	1762775633	2081.03

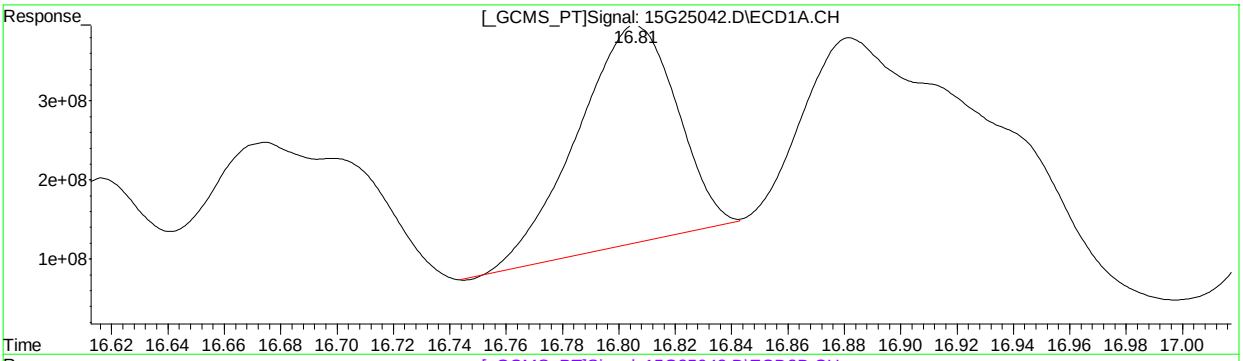
(+) = Expected Retention Time

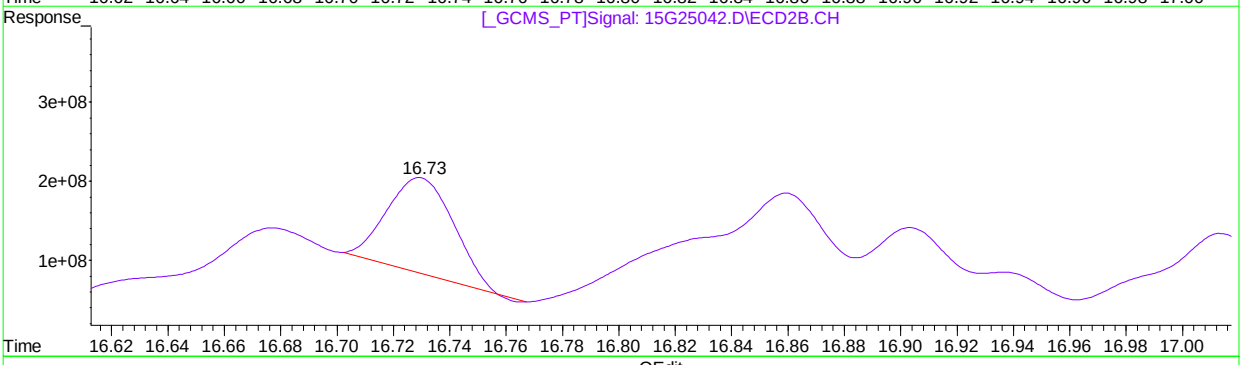
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\021811\
Data File : 15G25042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 18 Feb 2011 17:39 (#1); 18 Feb 2011 18:07 (#2)
Operator : ECL
Sample   : WG357035-01 TOX ICAL 2000 PPB
Misc   : 1,1 STD43915
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:45:07 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:00 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(3) Toxaphene-3 #2 (L1)

R.T.	Response	Conc
16.81	6825382007	2079.12
17.04	3211627031	2171.40
17.50	3019075484	2179.58

(3) Toxaphene-3 #2 (L1)

R.T.	Response	Conc
16.73	1988673787	2044.99
17.07	4523621514	2031.59
17.58	1762775633	2081.03

(+) = Expected Retention Time

Approved: February 19, 2011	Supervisor: February 21, 2011
Reason #4: System Establishes Incorrect Baseline	
Eric C. Turner	Cassie L. Eugenstein

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 18:07 (#1); 18 Feb 2011 18:36 (#2)
Operator : ECL
Sample : WG357035-02 TOX ICAL 1000 PPB
Misc : 1,1 STD43915
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:45:02 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:00 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

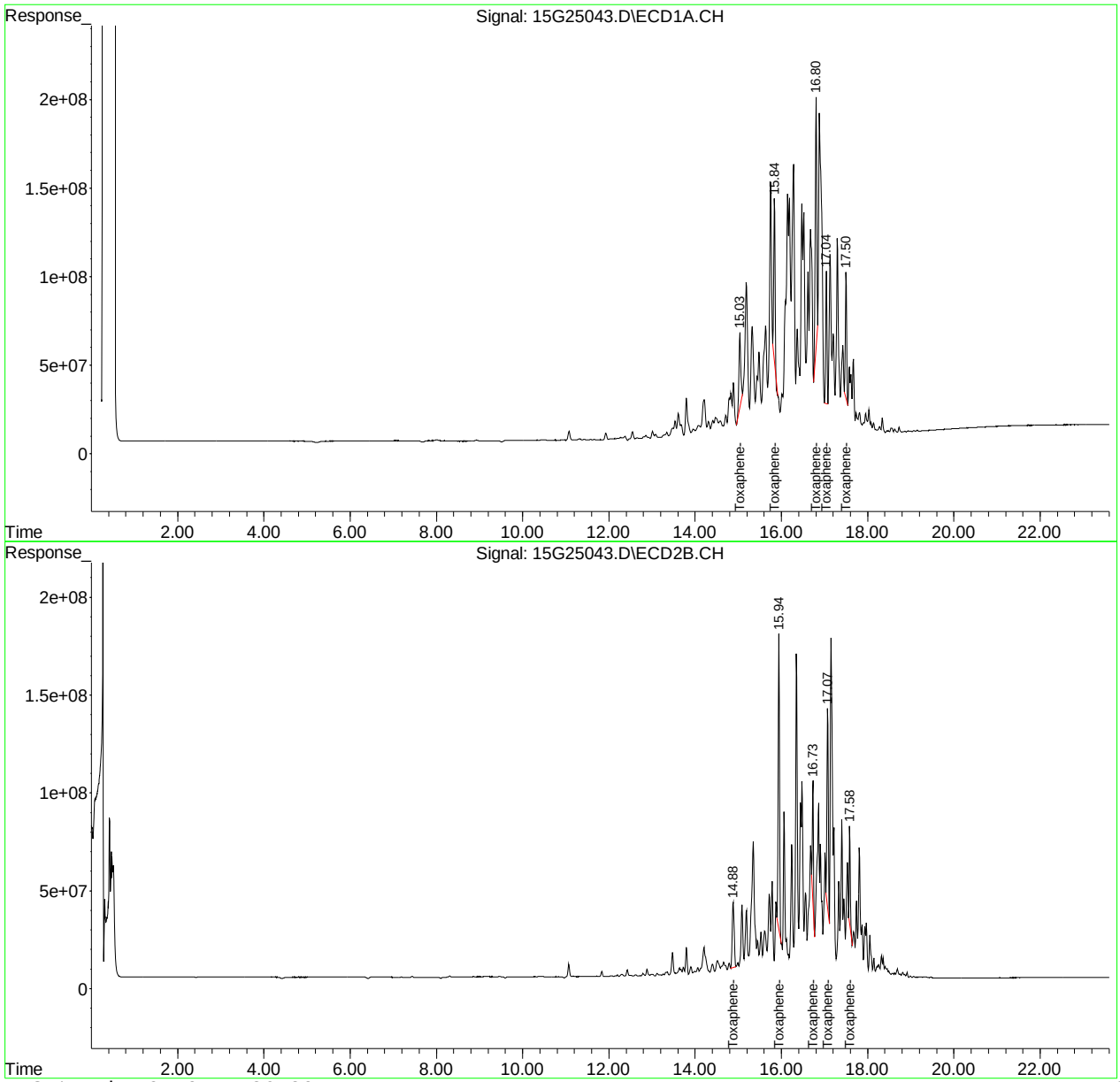
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.04	14.88	1262.2E6	1053.0E6	1023.583	1000.119
2)	L1 Toxaphene-2	15.84	15.94	1890.8E6	3293.4E6	1028.285	1024.772
3)	L1 Toxaphene-3	16.80	16.73	3448.1E6	1017.1E6	1050.351	1045.907
4)	L1 Toxaphene-4	17.04	17.07	1550.6E6	2249.5E6	1048.342	1010.283
5)	L1 Toxaphene-5	17.50	17.58	1458.1E6	882.0E6	1052.646	1041.207
	Sum Toxaphene-1			9609.8E6	8495.0E6	5203.207	5122.289
Average	Toxaphene-1					1040.641	1024.458

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 18:07 (#1); 18 Feb 2011 18:36 (#2)
Operator : ECL
Sample : WG357035-02 TOX ICAL 1000 PPB
Misc : 1,1 STD43915
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:45:02 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:00 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 18:36 (#1); 18 Feb 2011 19:04 (#2)
Operator : ECL
Sample : WG357035-03 TOX ICAL 500 PPB
Misc : 1,1 STD43915
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:44:38 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:44:36 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

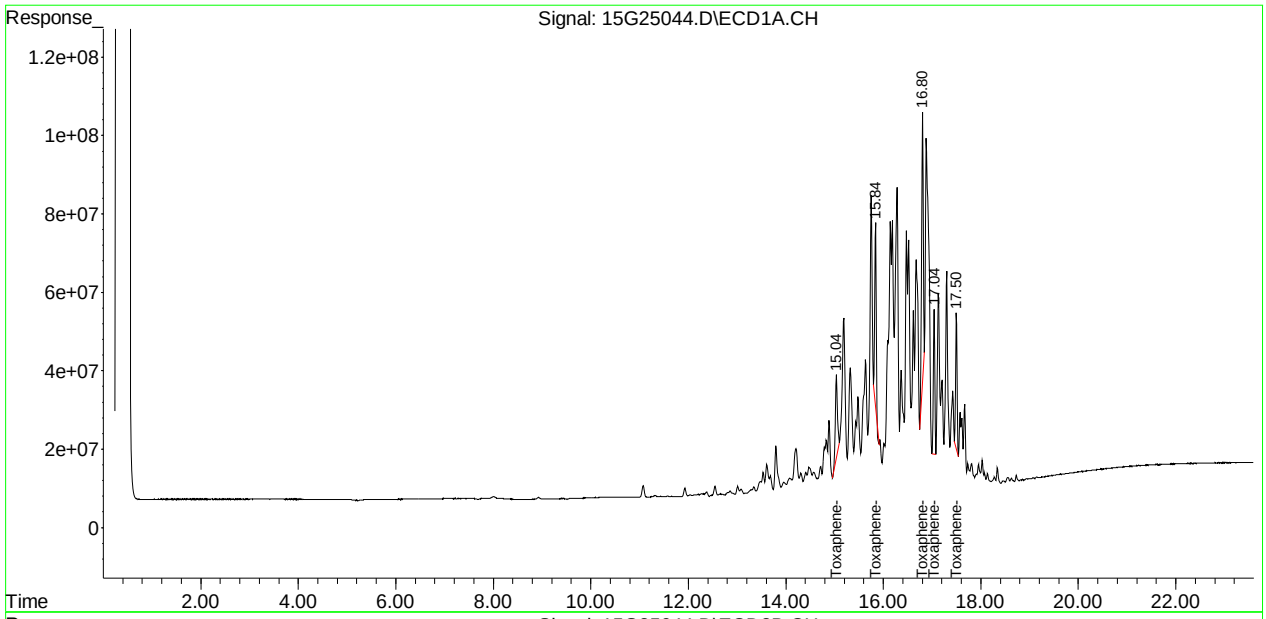
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.04	14.88	644.6E6	548.6E6	535.929	542.269
2)	L1 Toxaphene-2	15.84	15.94	966.4E6	1692.2E6	543.633	544.099
3)	L1 Toxaphene-3	16.80	16.73	1672.1E6	513.2E6	522.828	549.395
4)	L1 Toxaphene-4	17.04	17.07	768.9E6	1154.0E6	530.792	535.204
5)	L1 Toxaphene-5	17.50	17.58	712.5E6	445.6E6	518.131	545.528
	Sum Toxaphene-1			4764.5E6	4353.5E6	2651.313	2716.495
Average	Toxaphene-1					530.263	543.299

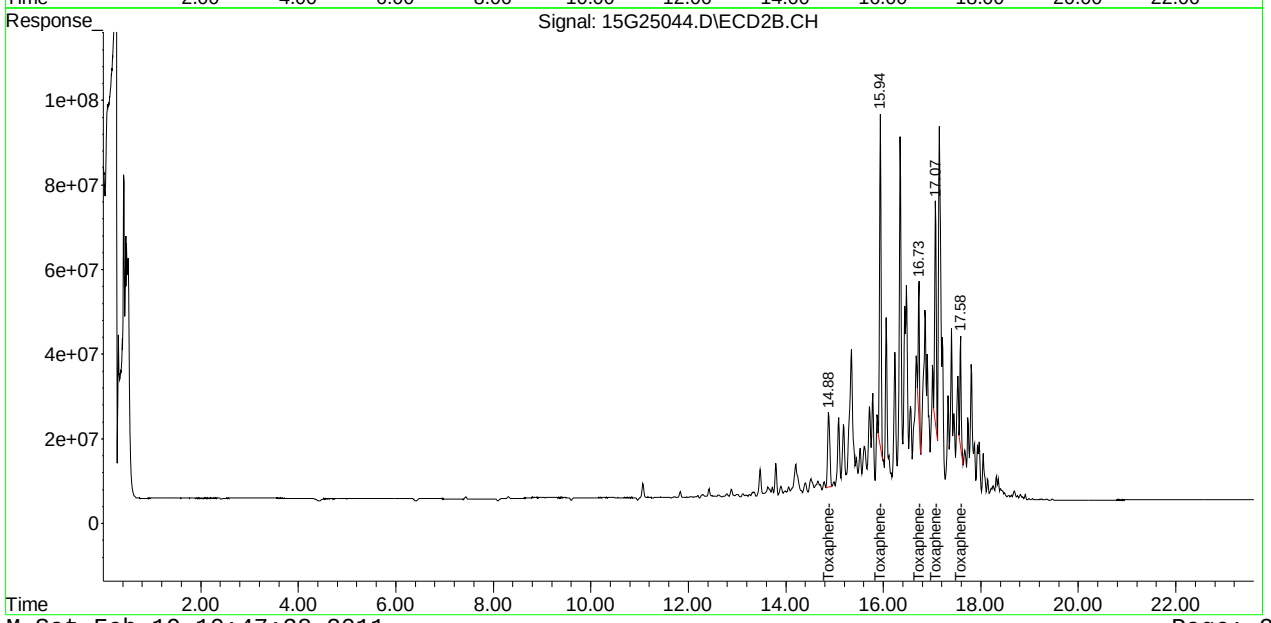
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 18:36 (#1); 18 Feb 2011 19:04 (#2)
Operator : ECL
Sample : WG357035-03 TOX ICAL 500 PPB
Misc : 1,1 STD43915
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:44:38 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:44:36 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25045.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 19:04 (#1); 18 Feb 2011 19:33 (#2)
Operator : ECL
Sample : WG357035-04 TOX ICAL 200 PPB
Misc : 1,1 STD43915
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:44:45 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:44:36 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

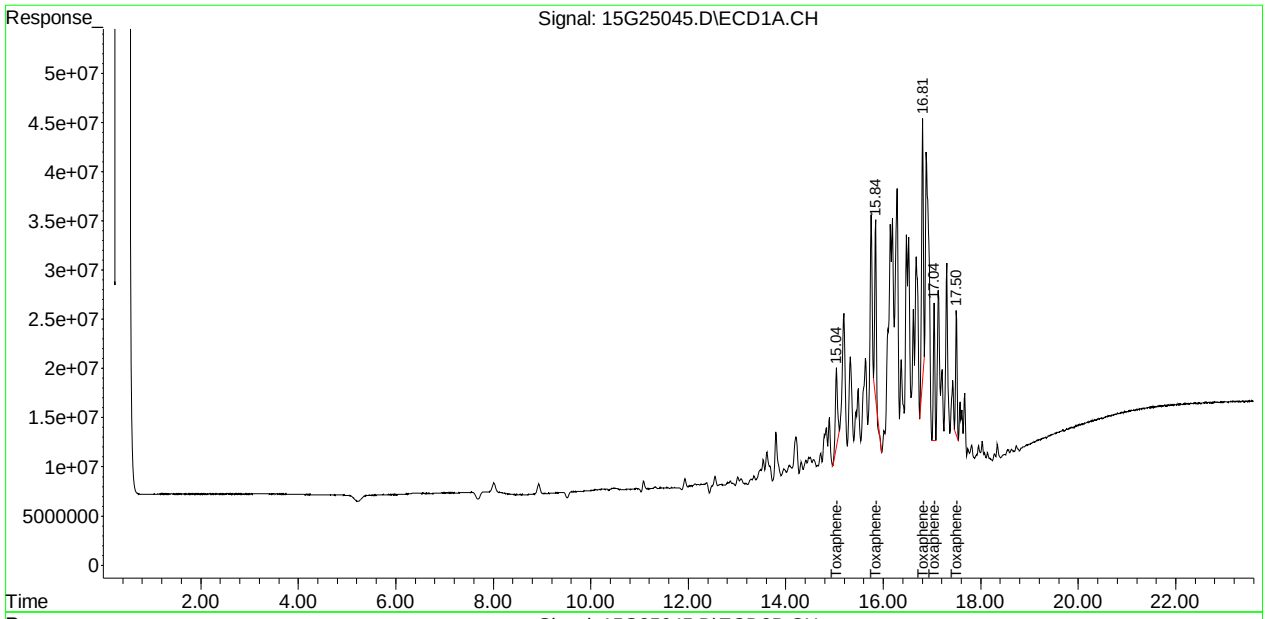
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.04	14.88	247.4E6	223.3E6	205.679	220.698
2)	L1 Toxaphene-2	15.84	15.94	368.1E6	662.2E6	207.063	212.916
3)	L1 Toxaphene-3	16.81	16.73	661.7E6	198.7E6	206.910	212.730
4)	L1 Toxaphene-4	17.04	17.07	289.0E6	467.9E6	199.533	216.991
5)	L1 Toxaphene-5	17.50	17.58	263.3E6	171.5E6	191.485	209.964
	Sum Toxaphene-1			1829.6E6	1723.5E6	1010.669	1073.300
Average	Toxaphene-1					202.134	214.660

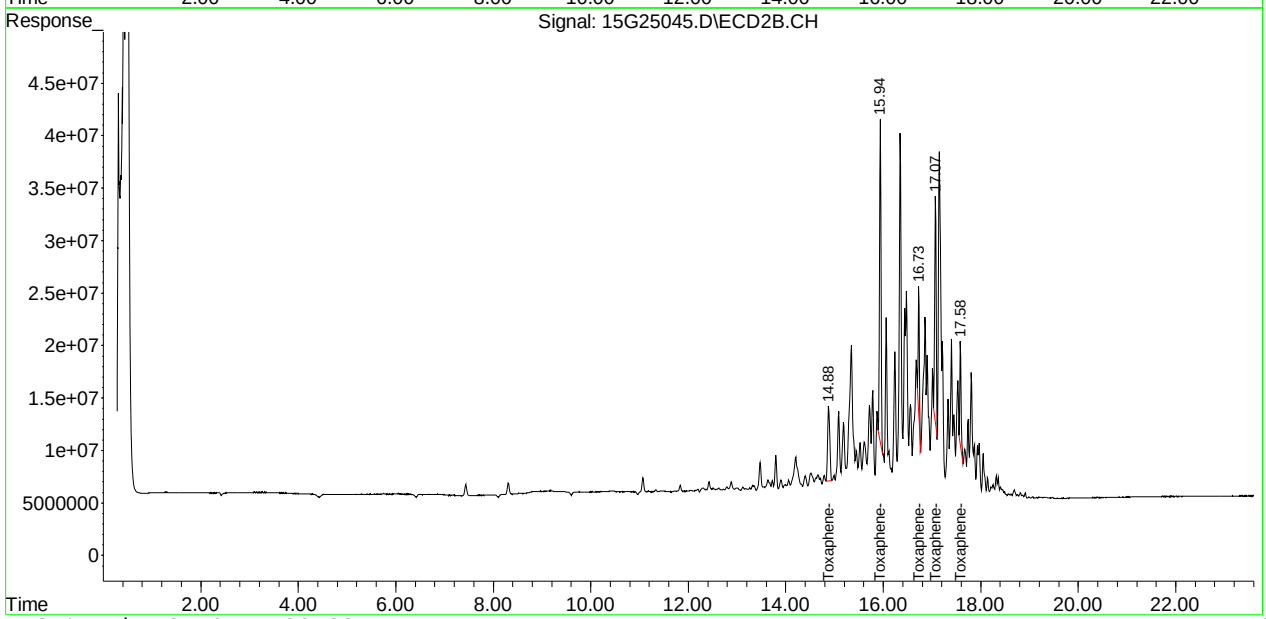
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25045.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 19:04 (#1); 18 Feb 2011 19:33 (#2)
Operator : ECL
Sample : WG357035-04 TOX ICAL 200 PPB
Misc : 1,1 STD43915
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:44:45 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:44:36 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25046.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 19:33 (#1); 18 Feb 2011 20:01 (#2)
Operator : ECL
Sample : WG357035-05 TOX ICAL 100 PPB
Misc : 1,1 STD43915
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:43:50 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:43:46 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

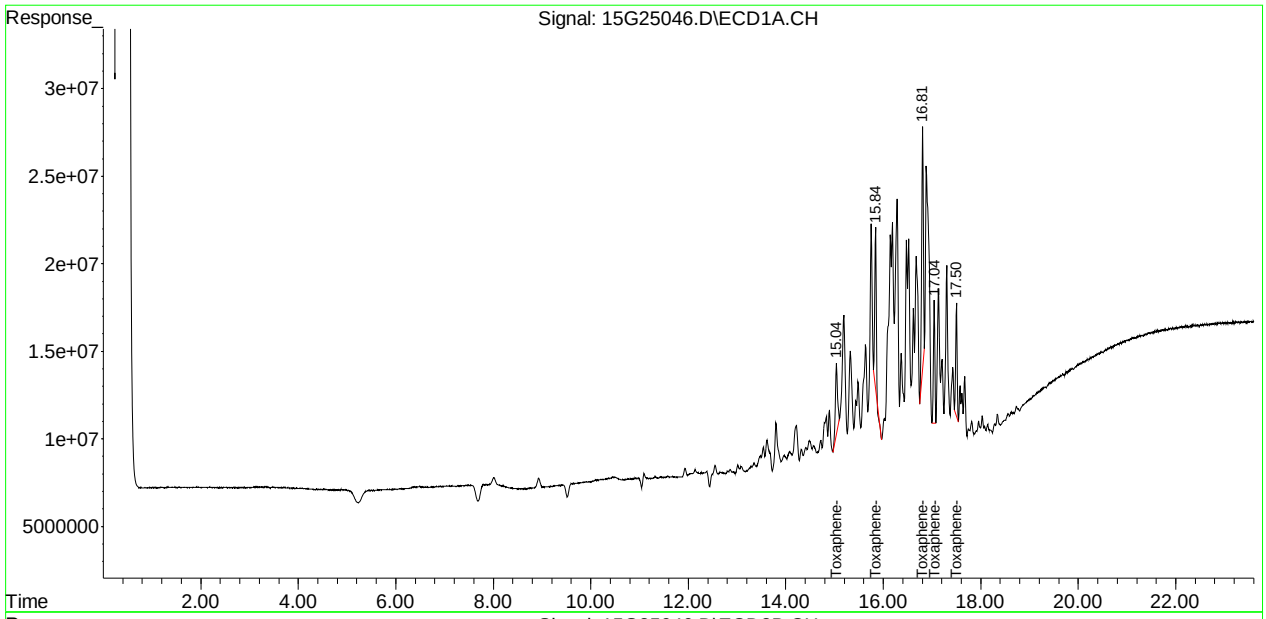
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.04	14.87	126.1E6	117.3E6	111.370	127.008
2)	L1 Toxaphene-2	15.84	15.94	185.6E6	338.7E6	108.561	117.258
3)	L1 Toxaphene-3	16.81	16.73	338.0E6	100.3E6	110.717	116.695
4)	L1 Toxaphene-4	17.04	17.07	145.6E6	233.9E6	103.619	117.243
5)	L1 Toxaphene-5	17.50	17.58	131.4E6	88236450	96.164	117.069
	Sum Toxaphene-1			926.8E6	878.5E6	530.431	595.273
Average	Toxaphene-1					106.086	119.055

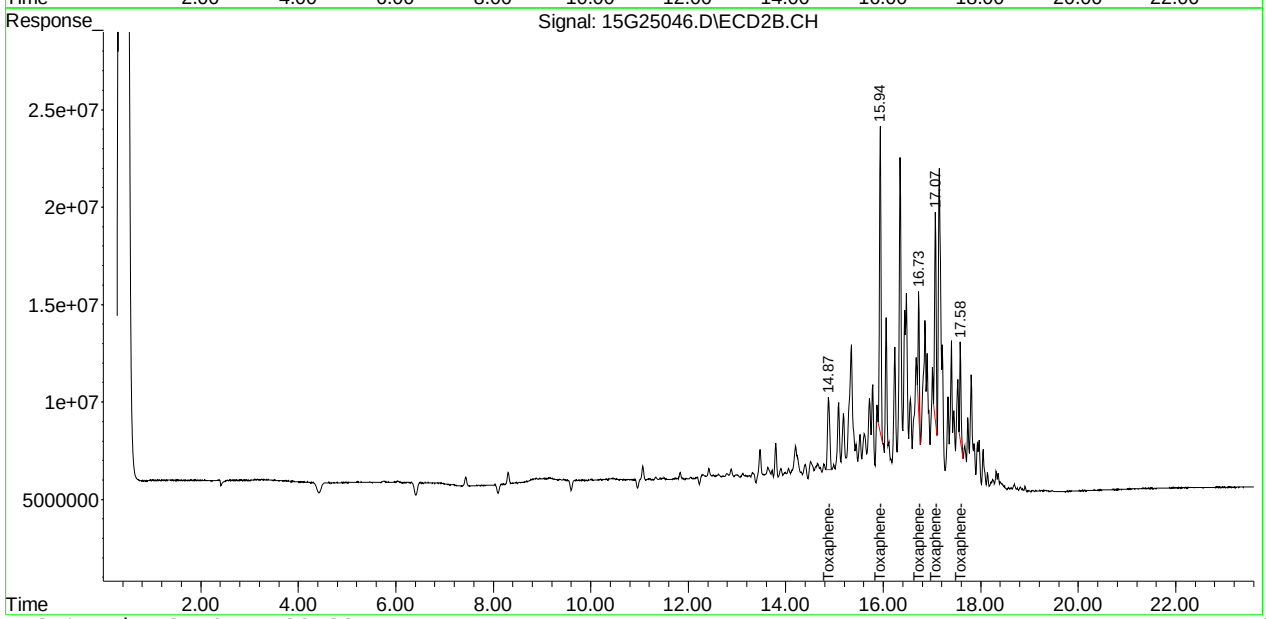
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25046.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 19:33 (#1); 18 Feb 2011 20:01 (#2)
Operator : ECL
Sample : WG357035-05 TOX ICAL 100 PPB
Misc : 1,1 STD43915
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:43:50 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:43:46 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25047.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 20:01 (#1); 18 Feb 2011 20:29 (#2)
Operator : ECL
Sample : WG357035-05 TOX ALT 500 PPB
Misc : 1,1 STD43915
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:46:38 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:34 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

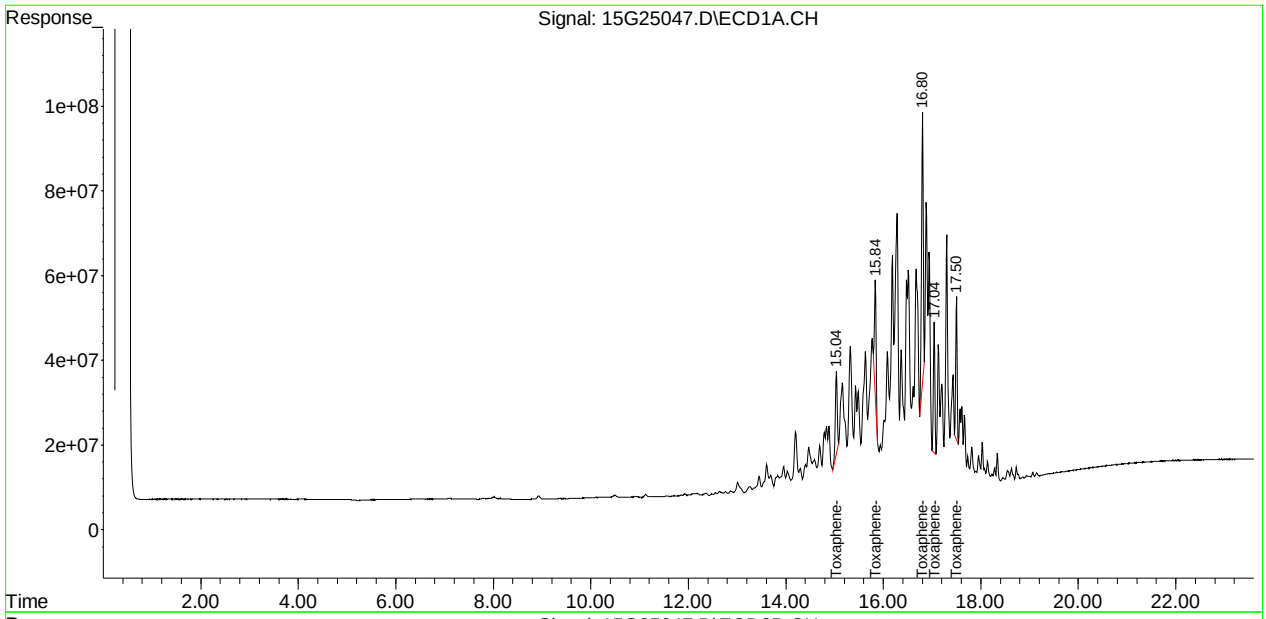
Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 Toxaphene-1	15.04	14.88	514.6E6	525.3E6	403.612	480.488
2) L1 Toxaphene-2	15.84	15.94	684.7E6	1545.3E6	363.251	466.064 #
3) L1 Toxaphene-3	16.80	16.73	1568.8E6	200.5E6	464.328	199.101 #
4) L1 Toxaphene-4	17.04	17.07	651.8E6	1045.3E6	429.111	454.596
5) L1 Toxaphene-5	17.50	17.58	666.3E6	505.8E6	474.368	575.489
Sum Toxaphene-1			4086.3E6	3822.3E6	2134.669	2175.739
Average Toxaphene-1					426.934	435.148

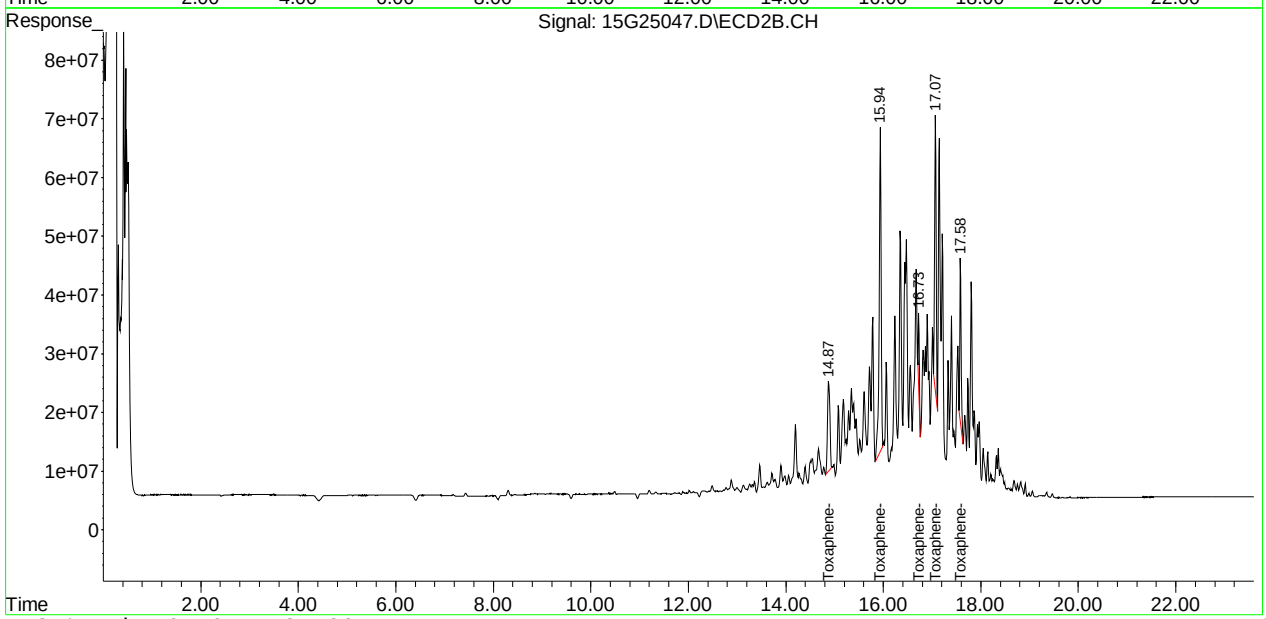
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25047.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 20:01 (#1); 18 Feb 2011 20:29 (#2)
Operator : ECL
Sample : WG357035-05 TOX ALT 500 PPB
Misc : 1,1 STD43915
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:46:38 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:34 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25048.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 20:29 (#1); 18 Feb 2011 20:58 (#2)
Operator : ECL
Sample : WG357037-01 PEST ICAL 200 PPB
Misc : 1,1 STD43387
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:51:06 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:51:04 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

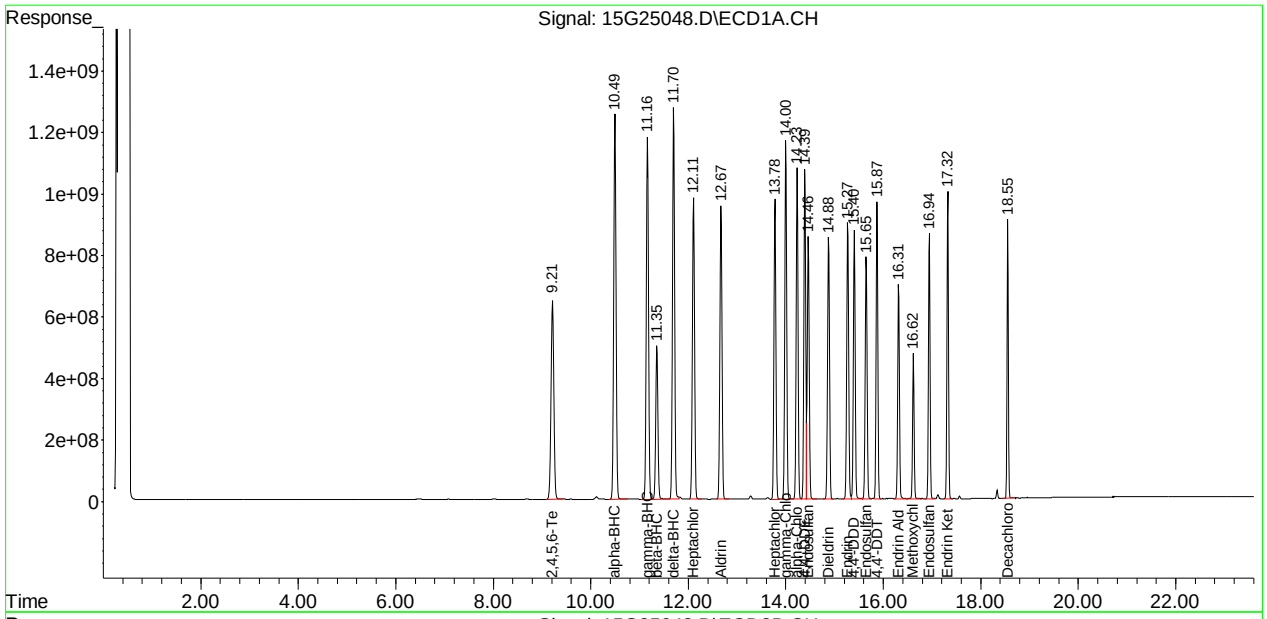
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.21	9.13	25842.3E6	18174.4E6	199.017	188.848
	Spiked Amount 20.000	Range 30 - 132		Recovery =	995.08%#	944.24%#	
22) S	Decachlorobiphen	18.55	18.86	16424.3E6	11680.5E6	184.689	182.412
	Spiked Amount 20.000	Range 36 - 144		Recovery =	923.44%#	912.06%#	
	Target Compounds						
2)	alpha-BHC	10.49	10.49	41293.4E6	28102.0E6	214.410	200.897
3)	gamma-BHC	11.16	11.23	37068.0E6	27238.1E6	207.325	201.419
4)	beta-BHC	11.35	11.41	15528.4E6	11464.1E6	197.505	192.852
5)	Heptachlor	12.11	12.08	30095.5E6	21822.7E6	174.691	170.404
6)	delta-BHC	11.70	11.98	38127.7E6	28050.2E6	212.396	203.813
7)	Aldrin	12.67	12.69	28746.5E6	22310.7E6	185.678	179.082
8)	Heptachlor Epoxi	13.78	13.74	26954.1E6	18308.4E6	173.221	176.810
9)	gamma-Chlordane	14.00	14.08	31406.0E6	22454.0E6	194.249	191.316
10)	alpha-Chlordane	14.23	14.34	28277.5E6	21285.7E6	186.763	186.909
11)	Endosulfan I	14.46	14.43	23295.4E6	16013.9E6	169.112	170.731
12)	4,4'-DDE	14.39	14.65	28109.8E6	20562.0E6	197.210	190.672
13)	Dieldrin	14.88	14.91	23760.0E6	20220.4E6	177.001	182.178
14)	Endrin	15.27	15.43	24619.1E6	16658.6E6	183.889	179.867
15)	4,4'-DDD	15.40	15.64	22488.4E6	16633.4E6	192.952	189.758
16)	Endosulfan II	15.65	15.80	21397.2E6	16605.6E6	173.742	175.817
17)	4,4'-DDT	15.87	16.15	22980.1E6	17180.4E6	195.378	194.755
18)	Endrin Aldehyde	16.31	16.33	16964.3E6	11821.2E6	172.633	169.769
19)	Endosulfan Sulfa	16.94	16.74	19354.8E6	14840.6E6	181.554	177.963
20)	Methoxychlor	16.62	17.13	10297.6E6	7537.6E6	180.379	178.256
21)	Endrin Ketone	17.32	17.45	21452.2E6	15847.1E6	182.181	183.547

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25048.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 20:29 (#1); 18 Feb 2011 20:58 (#2)
Operator : ECL
Sample : WG357037-01 PEST ICAL 200 PPB
Misc : 1,1 STD43387
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:51:06 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:51:04 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25049.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 20:58 (#1); 18 Feb 2011 21:26 (#2)
Operator : ECL
Sample : WG357037-02 PEST ICAL 100 PPB
Misc : 1,1 STD43387
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:51:29 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:51:27 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

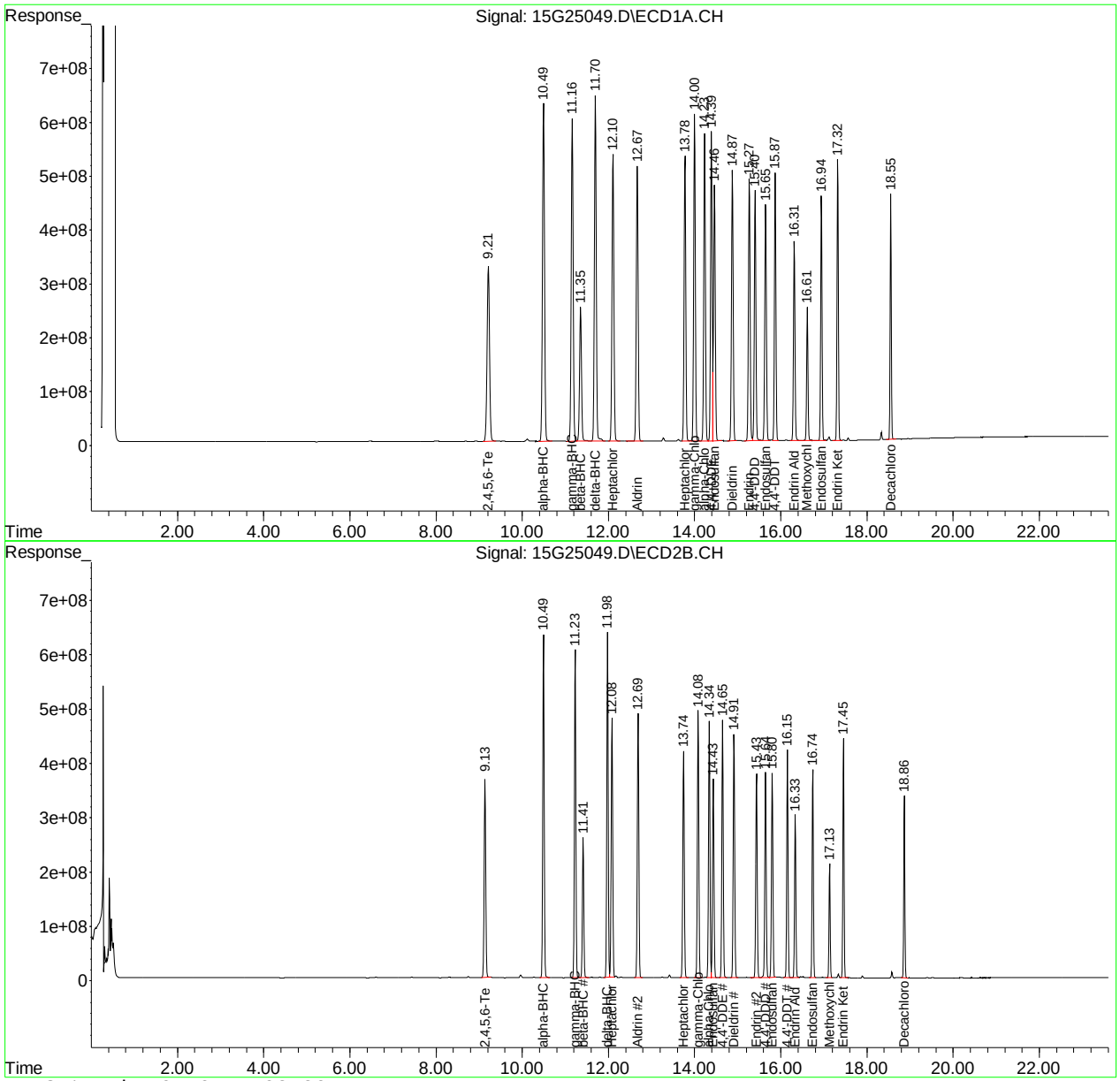
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.21	9.13	12962.8E6	9237.6E6	99.829	95.962
	Spiked Amount	20.000	Range 30 - 132	Recovery =		499.14%#	479.81%#
22) S	Decachlorobiphen	18.55	18.86	8253.9E6	5757.0E6	92.815	89.906
	Spiked Amount	20.000	Range 36 - 144	Recovery =		464.07%#	449.53%#
	Target Compounds						
2)	alpha-BHC	10.49	10.49	20560.1E6	14515.9E6	106.755	103.761
3)	gamma-BHC	11.16	11.23	18565.4E6	13721.5E6	103.838	101.444
4)	beta-BHC	11.35	11.41	7744.9E6	5729.1E6	98.506	96.316
5)	Heptachlor	12.10	12.08	16095.6E6	11642.6E6	93.428	90.912
6)	delta-BHC	11.70	11.98	19263.8E6	14043.5E6	107.311	102.040
7)	Aldrin	12.67	12.69	15147.2E6	11889.7E6	97.838	95.436
8)	Heptachlor Epoxi	13.77	13.74	14426.3E6	10023.4E6	92.711	96.799
9)	gamma-Chlordane	14.00	14.08	16066.4E6	11440.8E6	99.372	97.479
10)	alpha-Chlordane	14.23	14.34	15027.1E6	10885.4E6	99.249	95.584
11)	Endosulfan I	14.46	14.43	12956.4E6	8583.8E6	94.056	91.515
12)	4,4'-DDE	14.39	14.65	14678.7E6	10699.6E6	102.982	99.218
13)	Dieldrin	14.88	14.91	13517.2E6	10627.0E6	100.696	95.745
14)	Endrin	15.27	15.43	13034.9E6	8769.3E6	97.363	94.684
15)	4,4'-DDD	15.40	15.64	11813.7E6	8616.0E6	101.363	98.293
16)	Endosulfan II	15.65	15.80	11649.9E6	8679.6E6	94.595	91.898
17)	4,4'-DDT	15.87	16.15	11773.3E6	8772.0E6	100.098	99.439
18)	Endrin Aldehyde	16.31	16.33	8884.3E6	6199.2E6	90.409	89.030
19)	Endosulfan Sulfa	16.94	16.74	10032.7E6	7643.3E6	94.110	91.655
20)	Methoxychlor	16.61	17.13	5433.9E6	3826.3E6	95.183	90.489
21)	Endrin Ketone	17.32	17.45	11157.7E6	8146.8E6	94.756	94.359

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25049.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 20:58 (#1); 18 Feb 2011 21:26 (#2)
Operator : ECL
Sample : WG357037-02 PEST ICAL 100 PPB
Misc : 1,1 STD43387
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:51:29 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:51:27 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25050.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 21:26 (#1); 18 Feb 2011 21:54 (#2)
Operator : ECL
Sample : WG357037-03 PEST ICAL 20 PPB
Misc : 1,1 STD43387
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:51:43 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:51:42 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

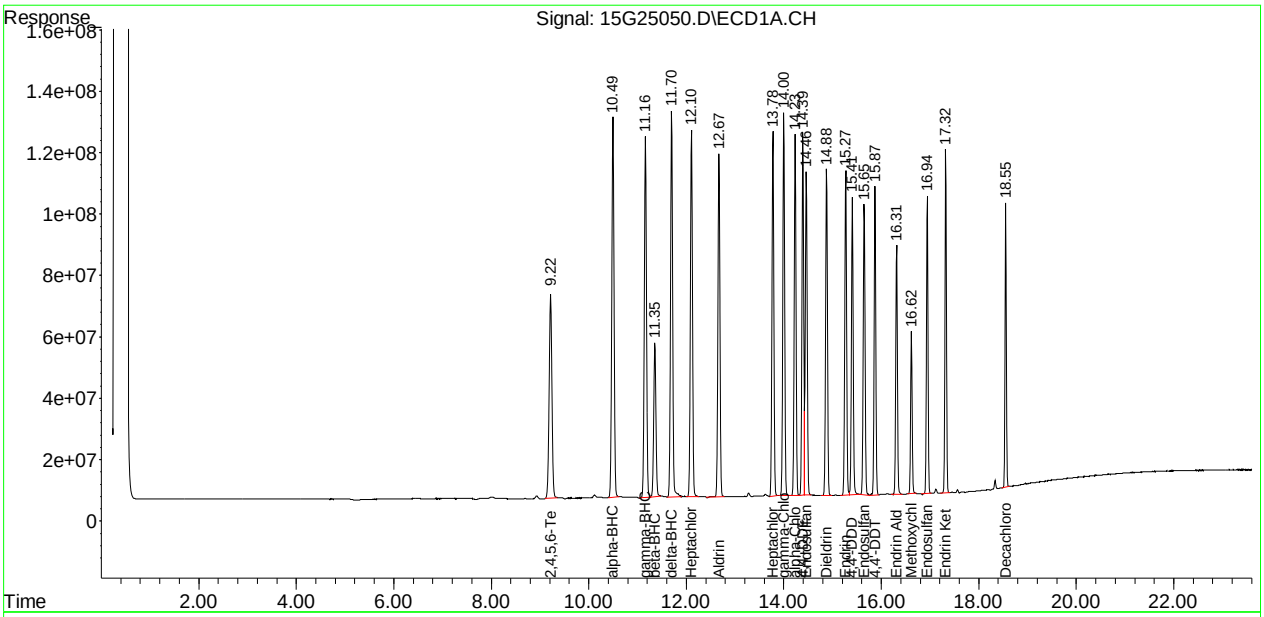
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.22	9.13	2622.8E6	1922.2E6	20.199	19.962
	Spiked Amount	20.000	Range 30 - 132		Recovery =	101.00%	99.81%
22) S	Decachlorobiphen	18.55	18.87	1710.1E6	1221.9E6	19.230	19.083
	Spiked Amount	20.000	Range 36 - 144		Recovery =	96.15%	95.41%
	Target Compounds						
2)	alpha-BHC	10.49	10.49	3969.4E6	2914.1E6	20.610	20.822
3)	gamma-BHC	11.16	11.23	3646.0E6	2759.8E6	20.393	20.403
4)	beta-BHC	11.35	11.41	1568.1E6	1184.0E6	19.944	19.897
5)	Heptachlor	12.11	12.08	3536.4E6	2626.6E6	20.527	20.510
6)	delta-BHC	11.70	11.98	3744.8E6	2824.3E6	20.861	20.521
7)	Aldrin	12.67	12.69	3208.9E6	2599.6E6	20.727	20.866
8)	Heptachlor Epoxi	13.78	13.74	3171.2E6	2133.9E6	20.380	20.607
9)	gamma-Chlordane	14.00	14.08	3246.9E6	2369.3E6	20.082	20.187
10)	alpha-Chlordane	14.23	14.34	3045.0E6	2272.0E6	20.111	19.950
11)	Endosulfan I	14.46	14.43	2814.7E6	1926.3E6	20.433	20.537
12)	4,4'-DDE	14.39	14.65	2956.9E6	2243.2E6	20.745	20.802
13)	Dieldrin	14.88	14.91	2814.2E6	2291.9E6	20.964	20.649
14)	Endrin	15.27	15.44	2770.1E6	1919.4E6	20.691	20.724
15)	4,4'-DDD	15.41	15.64	2426.0E6	1823.7E6	20.815	20.805
16)	Endosulfan II	15.65	15.80	2483.2E6	1910.3E6	20.163	20.226
17)	4,4'-DDT	15.87	16.15	2359.0E6	1816.6E6	20.057	20.592
18)	Endrin Aldehyde	16.31	16.33	1934.4E6	1402.0E6	19.685	20.134
19)	Endosulfan Sulfa	16.94	16.74	2112.6E6	1665.0E6	19.816	19.966
20)	Methoxychlor	16.62	17.13	1151.3E6	837.3E6	20.167	19.801
21)	Endrin Ketone	17.32	17.45	2347.8E6	1739.9E6	19.939	20.152

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25050.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 21:26 (#1); 18 Feb 2011 21:54 (#2)
Operator : ECL
Sample : WG357037-03 PEST ICAL 20 PPB
Misc : 1,1 STD43387
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:51:43 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:51:42 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25051.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 21:54 (#1); 18 Feb 2011 22:23 (#2)
Operator : ECL
Sample : WG357037-04 PEST ICAL 10 PPB
Misc : 1,1 STD43387
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:51:56 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:51:54 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

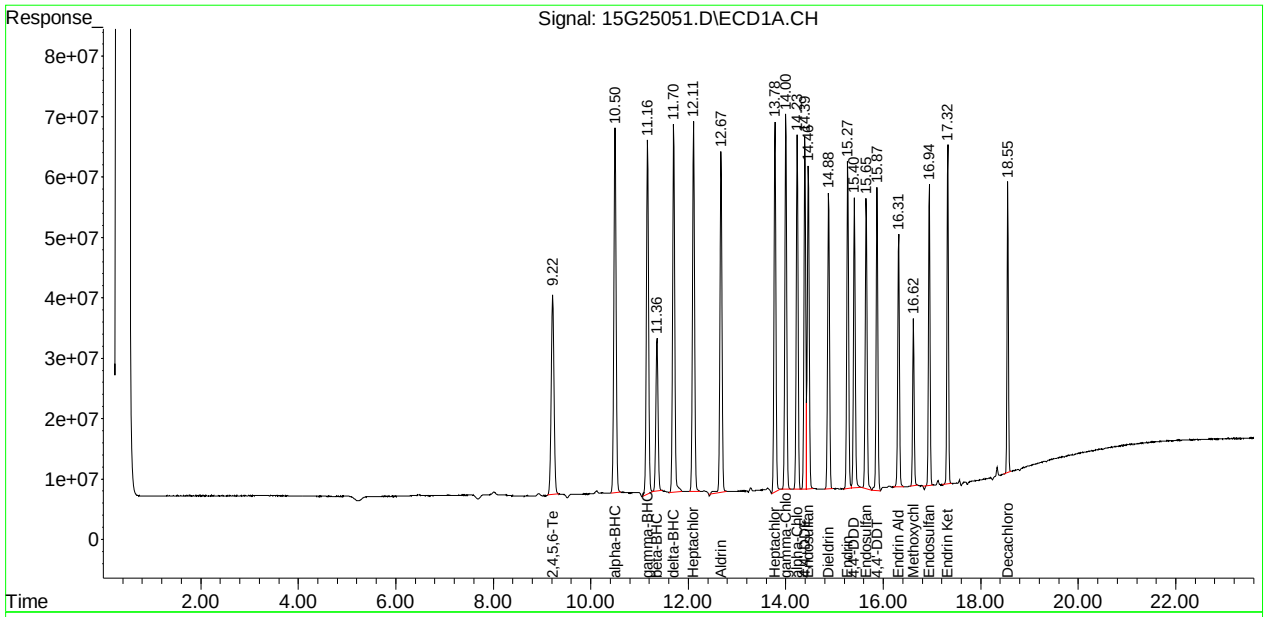
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.22	9.13	1319.5E6	987.2E6	10.162	10.246
	Spiked Amount	20.000	Range 30 - 132		Recovery =	50.81%	51.23%
22) S	Decachlorobiphen	18.55	18.87	895.3E6	643.7E6	10.067	10.053
	Spiked Amount	20.000	Range 36 - 144		Recovery =	50.33%	50.27%
	Target Compounds						
2)	alpha-BHC	10.50	10.49	1928.6E6	1459.4E6	10.014	10.421
3)	gamma-BHC	11.16	11.23	1815.4E6	1388.3E6	10.154	10.262
4)	beta-BHC	11.36	11.41	791.0E6	610.7E6	10.061	10.256
5)	Heptachlor	12.11	12.08	1798.5E6	1362.1E6	10.439	10.636
6)	delta-BHC	11.70	11.98	1823.5E6	1410.2E6	10.158	10.246
7)	Aldrin	12.67	12.69	1629.5E6	1326.1E6	10.525	10.645
8)	Heptachlor Epoxi	13.78	13.74	1636.4E6	1098.1E6	10.516	10.605
9)	gamma-Chlordane	14.00	14.08	1627.2E6	1204.6E6	10.065	10.264
10)	alpha-Chlordane	14.23	14.34	1517.7E6	1164.1E6	10.024	10.222
11)	Endosulfan I	14.46	14.43	1433.4E6	970.7E6	10.406	10.349
12)	4,4'-DDE	14.39	14.65	1453.4E6	1124.1E6	10.197	10.424
13)	Dieldrin	14.88	14.91	1312.7E6	1164.6E6	9.779	10.492
14)	Endrin	15.27	15.44	1390.9E6	960.9E6	10.389	10.375
15)	4,4'-DDD	15.41	15.65	1200.0E6	909.0E6	10.296	10.370
16)	Endosulfan II	15.65	15.80	1273.9E6	985.5E6	10.344	10.434
17)	4,4'-DDT	15.87	16.15	1204.5E6	912.4E6	10.241	10.343
18)	Endrin Aldehyde	16.31	16.33	1011.1E6	721.3E6	10.289	10.359
19)	Endosulfan Sulfa	16.94	16.74	1077.1E6	860.5E6	10.103	10.319
20)	Methoxychlor	16.62	17.13	594.9E6	437.3E6	10.421	10.343
21)	Endrin Ketone	17.32	17.45	1200.6E6	891.7E6	10.196	10.328

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25051.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 21:54 (#1); 18 Feb 2011 22:23 (#2)
Operator : ECL
Sample : WG357037-04 PEST ICAL 10 PPB
Misc : 1,1 STD43387
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:51:56 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:51:54 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25052.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 22:23 (#1); 18 Feb 2011 22:51 (#2)
Operator : ECL
Sample : WG357037-05 PEST ICAL 4 PPB
Misc : 1,1 STD43387
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:52:09 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

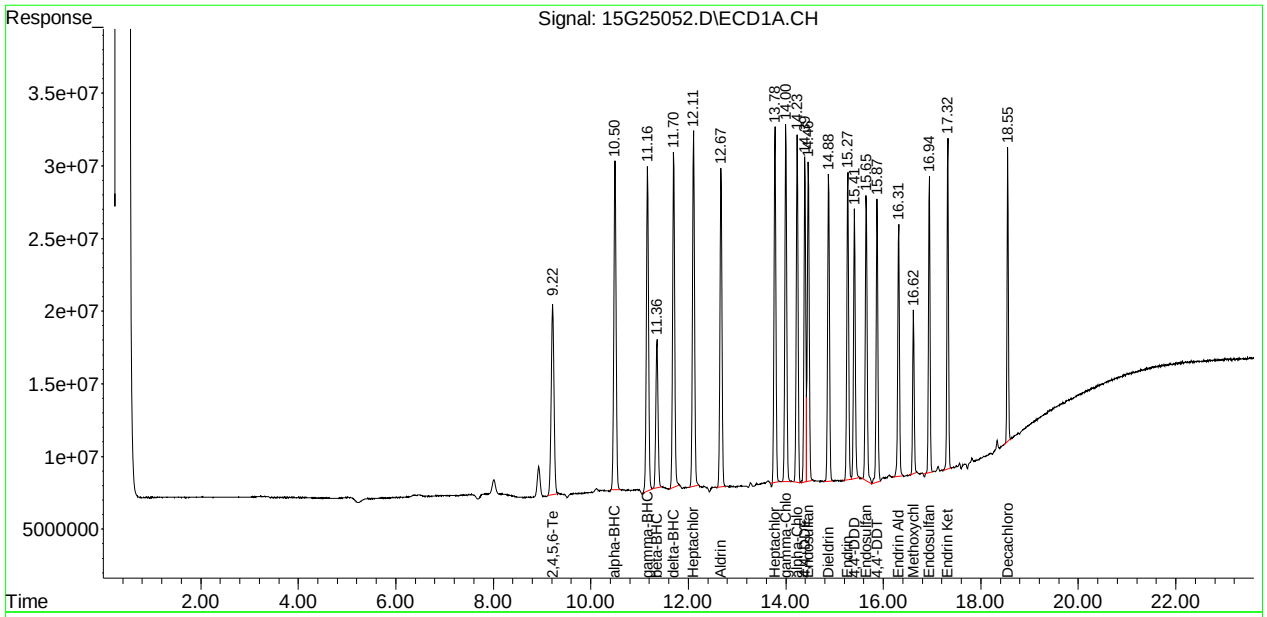
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.22	9.13	519.7E6	393.8E6	4.002	4.081
	Spiked Amount 20.000	Range 30 - 132		Recovery =		20.01%#	20.41%#
22) S	Decachlorobiphen	18.55	18.86	377.3E6	271.1E6	4.243	4.233
	Spiked Amount 20.000	Range 36 - 144		Recovery =		21.22%#	21.16%#
	Target Compounds						
2)	alpha-BHC	10.50	10.49	724.3E6	542.9E6	3.761	3.873
3)	gamma-BHC	11.16	11.23	693.6E6	527.6E6	3.880	3.899
4)	beta-BHC	11.36	11.41	318.9E6	242.7E6	4.056	4.076
5)	Heptachlor	12.11	12.08	717.8E6	538.9E6	4.166	4.208
6)	delta-BHC	11.70	11.98	673.9E6	533.3E6	3.754	3.875
7)	Aldrin	12.67	12.69	622.3E6	509.2E6	4.020	4.087
8)	Heptachlor Epoxi	13.78	13.74	646.2E6	415.1E6	4.153	4.008
9)	gamma-Chlordane	14.00	14.08	648.0E6	473.0E6	4.008	4.030
10)	alpha-Chlordane	14.23	14.34	614.9E6	464.4E6	4.061	4.078
11)	Endosulfan I	14.46	14.43	583.1E6	394.3E6	4.233	4.203
12)	4,4'-DDE	14.39	14.65	561.4E6	429.0E6	3.938	3.978
13)	Dieldrin	14.88	14.91	558.7E6	453.3E6	4.162	4.084
14)	Endrin	15.27	15.43	548.4E6	379.1E6	4.096	4.094
15)	4,4'-DDD	15.41	15.64	464.8E6	351.9E6	3.988	4.014
16)	Endosulfan II	15.65	15.80	530.7E6	395.4E6	4.309	4.187
17)	4,4'-DDT	15.87	16.15	476.2E6	348.1E6	4.049	3.946
18)	Endrin Aldehyde	16.31	16.33	419.9E6	300.7E6	4.273	4.318
19)	Endosulfan Sulfa	16.94	16.74	443.5E6	348.1E6	4.160	4.174
20)	Methoxychlor	16.62	17.13	241.7E6	179.3E6	4.234	4.241
21)	Endrin Ketone	17.32	17.45	489.3E6	355.3E6	4.155	4.115

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25052.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 22:23 (#1); 18 Feb 2011 22:51 (#2)
Operator : ECL
Sample : WG357037-05 PEST ICAL 4 PPB
Misc : 1,1 STD43387
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:52:09 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25053.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 22:51 (#1); 18 Feb 2011 23:19 (#2)
Operator : ECL
Sample : WG357037-06 PEST ICAL 1 PPB
Misc : 1,1 STD43387
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:50:50 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:50:48 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

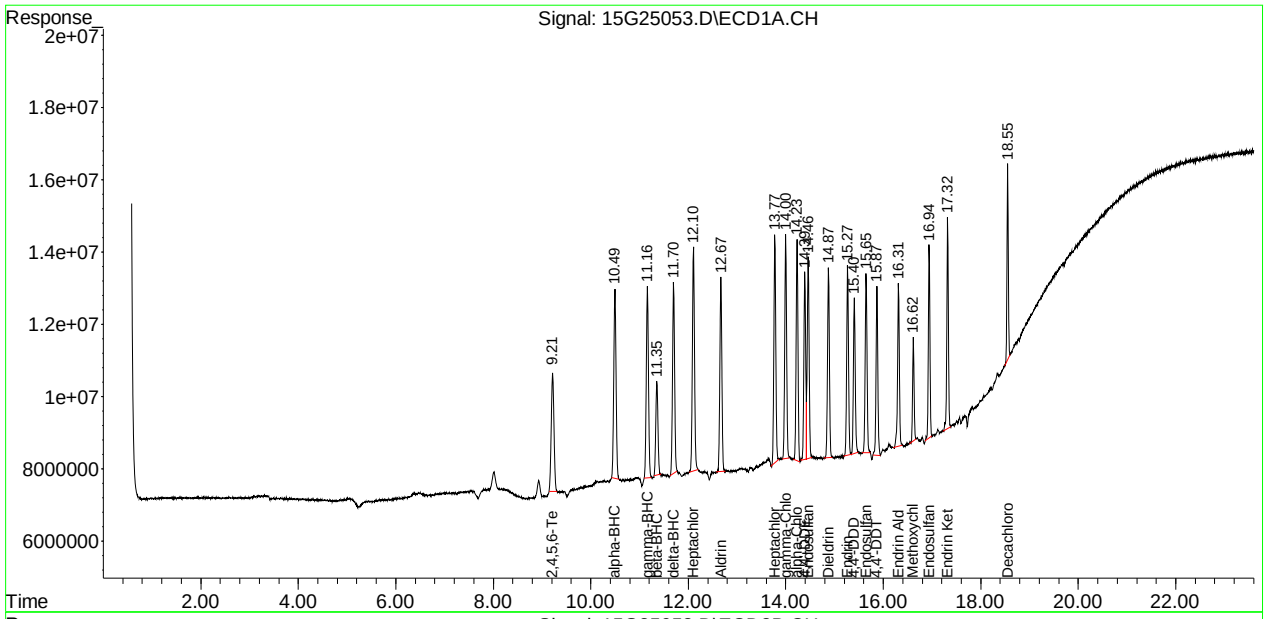
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.22	9.13	127.3E6	102.6E6	0.980	1.066
	Spiked Amount	20.000	Range 30 - 132		Recovery =	4.90%#	5.33%#
22) S	Decachlorobiphen	18.55	18.86	99553837	74990478	1.119	1.171
	Spiked Amount	20.000	Range 36 - 144		Recovery =	5.59%#	5.86%#
	Target Compounds						
2)	alpha-BHC	10.50	10.49	171.1E6	127.9E6	0.888	0.914
3)	gamma-BHC	11.16	11.23	164.5E6	129.7E6	0.920	0.959
4)	beta-BHC	11.35	11.41	79420315	61739604	1.010	1.039
5)	Heptachlor	12.11	12.08	186.1E6	140.6E6	1.080	1.098
6)	delta-BHC	11.70	11.98	155.7E6	129.6E6	0.867	0.941
7)	Aldrin	12.67	12.69	154.7E6	127.2E6	0.999	1.021
8)	Heptachlor Epoxi	13.77	13.74	170.9E6	109.2E6	1.098	1.055
9)	gamma-Chlordane	14.00	14.08	165.3E6	120.3E6	1.022	1.025
10)	alpha-Chlordane	14.23	14.34	159.0E6	121.9E6	1.050	1.071
11)	Endosulfan I	14.46	14.43	150.6E6	104.9E6	1.093	1.119
12)	4,4'-DDE	14.39	14.65	134.4E6	105.4E6	0.943	0.977
13)	Dieldrin	14.88	14.91	139.8E6	114.2E6	1.042	1.029
14)	Endrin	15.27	15.43	135.2E6	97864204	1.010	1.057
15)	4,4'-DDD	15.40	15.64	111.2E6	86556940	0.954	0.987
16)	Endosulfan II	15.65	15.80	131.2E6	103.9E6	1.066	1.100
17)	4,4'-DDT	15.87	16.15	115.6E6	86574497	0.983	0.981
18)	Endrin Aldehyde	16.31	16.33	113.1E6	79281418	1.151	1.139
19)	Endosulfan Sulfa	16.94	16.74	118.3E6	93385128	1.110	1.120
20)	Methoxychlor	16.62	17.13	59214694	47325221	1.037	1.119
21)	Endrin Ketone	17.32	17.45	127.9E6	92347876	1.086	1.070

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25053.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 22:51 (#1); 18 Feb 2011 23:19 (#2)
Operator : ECL
Sample : WG357037-06 PEST ICAL 1 PPB
Misc : 1,1 STD43387
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:50:50 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:50:48 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25054.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 23:19 (#1); 18 Feb 2011 23:48 (#2)
Operator : ECL
Sample : WG357037-07 PEST ALT 20 PPB
Misc : 1,1 STD43387
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:52:34 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

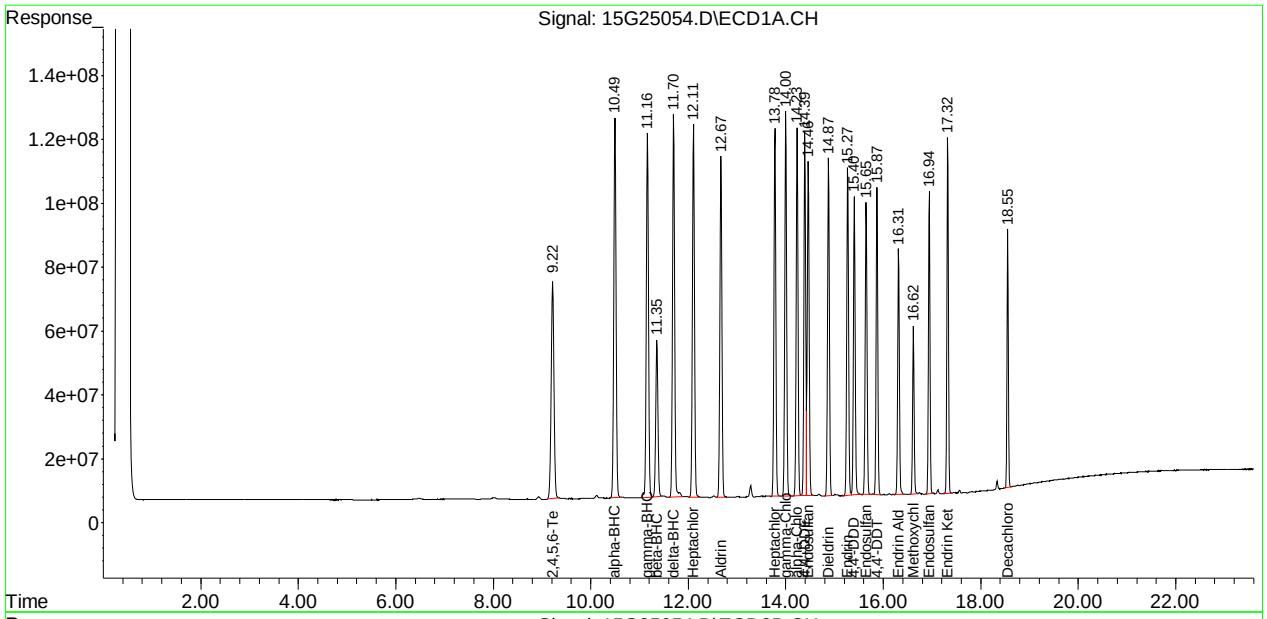
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.22	9.13	2689.9E6	1990.1E6	20.715	20.620
	Spiked Amount	20.000	Range 30 - 132		Recovery =	103.57%	103.10%
22) S	Decachlorobiphen	18.55	18.86	1499.6E6	1066.4E6	16.863	16.653
	Spiked Amount	20.000	Range 36 - 144		Recovery =	84.31%	83.26%
	Target Compounds						
2)	alpha-BHC	10.49	10.49	3819.0E6	2880.9E6	19.830	20.555
3)	gamma-BHC	11.16	11.23	3524.1E6	2689.5E6	19.711	19.878
4)	beta-BHC	11.35	11.41	1529.6E6	1181.5E6	19.455	19.841
5)	Heptachlor	12.11	12.08	3419.6E6	2562.1E6	19.850	20.006
6)	delta-BHC	11.70	11.98	3594.7E6	2736.4E6	20.024	19.882
7)	Aldrin	12.67	12.69	3041.2E6	2488.2E6	19.644	19.972
8)	Heptachlor Epoxi	13.78	13.74	3025.4E6	2101.7E6	19.443	20.297
9)	gamma-Chlordane	14.00	14.08	3129.5E6	2306.8E6	19.356	19.655
10)	alpha-Chlordane	14.23	14.34	2961.9E6	2204.2E6	19.562	19.355
11)	Endosulfan I	14.46	14.43	2760.2E6	1941.4E6	20.038	20.698
12)	4,4'-DDE	14.39	14.65	2838.0E6	2174.5E6	19.911	20.164
13)	Dieldrin	14.88	14.91	2757.3E6	2174.2E6	20.541	19.589
14)	Endrin	15.27	15.43	2632.9E6	1884.7E6	19.666	20.350
15)	4,4'-DDD	15.40	15.64	2314.2E6	1746.5E6	19.856	19.925
16)	Endosulfan II	15.65	15.80	2372.3E6	1826.4E6	19.262	19.338
17)	4,4'-DDT	15.87	16.15	2241.6E6	1752.4E6	19.059	19.865
18)	Endrin Aldehyde	16.31	16.33	1837.4E6	1365.0E6	18.698	19.603
19)	Endosulfan Sulfa	16.94	16.74	2049.3E6	1614.4E6	19.223	19.359
20)	Methoxychlor	16.62	17.13	1134.1E6	827.2E6	19.866	19.562
21)	Endrin Ketone	17.32	17.45	2368.8E6	1757.8E6	20.117	20.360

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25054.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 23:19 (#1); 18 Feb 2011 23:48 (#2)
Operator : ECL
Sample : WG357037-07 PEST ALT 20 PPB
Misc : 1,1 STD43387
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:52:34 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDChem\1\DATA\032211\
Data File : 15G25547.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Mar 2011 18:13 (#1); 22 Mar 2011 18:41 (#2)
Operator : ECL
Sample : WG359603-03 PEST CCV 10 PPB
Misc : 1,1 STD43387
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 10:58:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

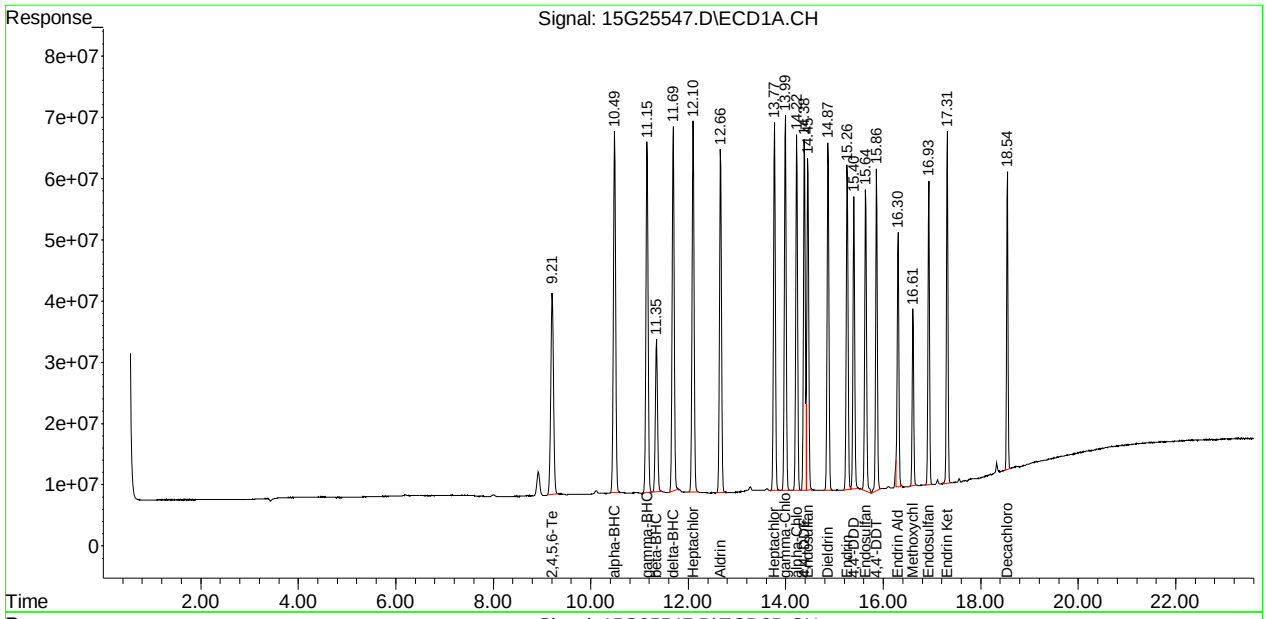
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.21	9.14	1292.9E6	1031.6E6	9.957	10.689
	Spiked Amount	20.000	Range 30 - 132		Recovery =	49.79%	53.45%
22) S	Decachlorobiphen	18.54	18.86	909.0E6	633.7E6	10.221	9.896
	Spiked Amount	20.000	Range 36 - 144		Recovery =	51.11%	49.48%
	Target Compounds						
2)	alpha-BHC	10.49	10.49	1880.7E6	1550.0E6	9.765	11.059
3)	gamma-BHC	11.15	11.23	1742.9E6	1444.0E6	9.748	10.672
4)	beta-BHC	11.35	11.41	769.0E6	629.7E6	9.780	10.575
5)	Heptachlor	12.10	12.08	1751.7E6	1471.1E6	10.168	11.487
6)	delta-BHC	11.69	11.98	1744.5E6	1521.9E6	9.718	11.058
7)	Aldrin	12.66	12.69	1572.4E6	1401.1E6	10.157	11.246
8)	Heptachlor Epoxi	13.77	13.74	1588.2E6	1217.8E6	10.207	11.761
9)	gamma-Chlordane	13.99	14.08	1591.7E6	1262.5E6	9.845	10.757
10)	alpha-Chlordane	14.22	14.34	1513.2E6	1216.3E6	9.994	10.680
11)	Endosulfan I	14.45	14.43	1428.3E6	1116.0E6	10.368	11.898
12)	4,4'-DDE	14.38	14.65	1443.5E6	1180.2E6	10.127	10.944
13)	Dieldrin	14.87	14.91	1458.9E6	1225.8E6	10.868	11.044
14)	Endrin	15.26	15.43	1360.0E6	1065.3E6	10.159	11.502
15)	4,4'-DDD	15.40	15.64	1164.9E6	986.4E6	9.995	11.253
16)	Endosulfan II	15.64	15.80	1304.1E6	1040.9E6	10.589	11.020
17)	4,4'-DDT	15.86	16.15	1238.4E6	895.3E6	10.529	10.149
18)	Endrin Aldehyde	16.30	16.33	988.7E6	816.7E6	10.061m	11.728m
19)	Endosulfan Sulfa	16.93	16.74	1073.9E6	907.9E6	10.073	10.887
20)	Methoxychlor	16.61	17.13	612.3E6	431.4E6	10.726	10.203
21)	Endrin Ketone	17.31	17.45	1209.9E6	944.2E6	10.275	10.936

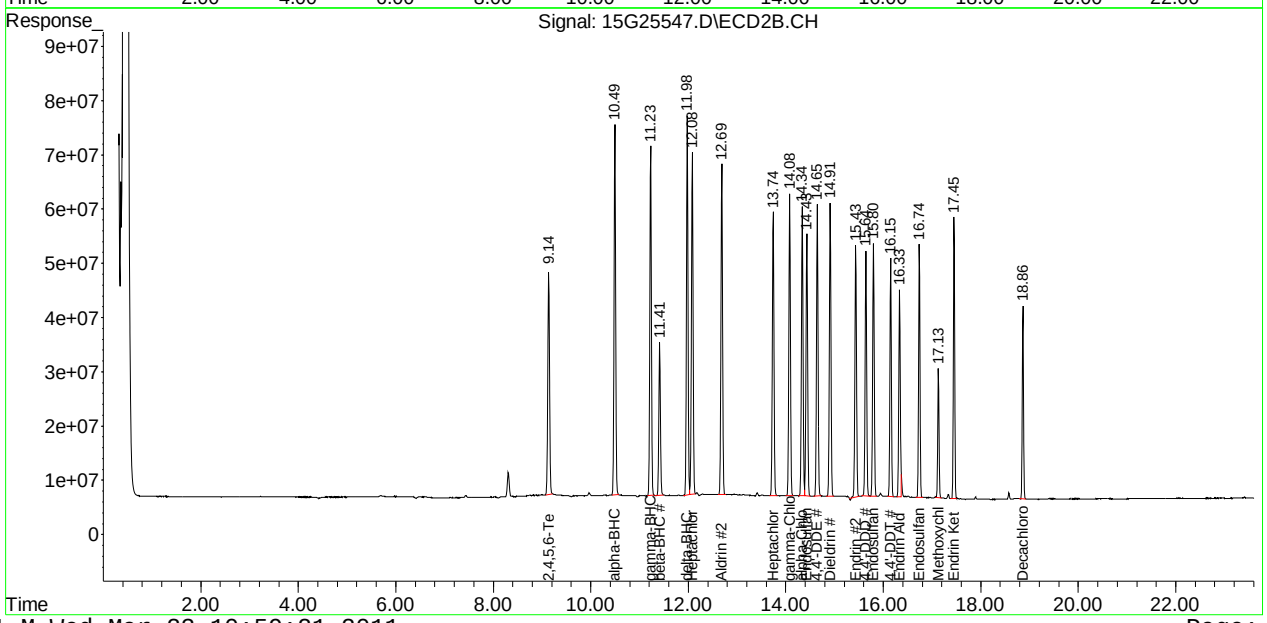
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\032211\
Data File : 15G25547.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Mar 2011 18:13 (#1); 22 Mar 2011 18:41 (#2)
Operator : ECL
Sample : WG359603-03 PEST CCV 10 PPB
Misc : 1,1 STD43387
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 10:58:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

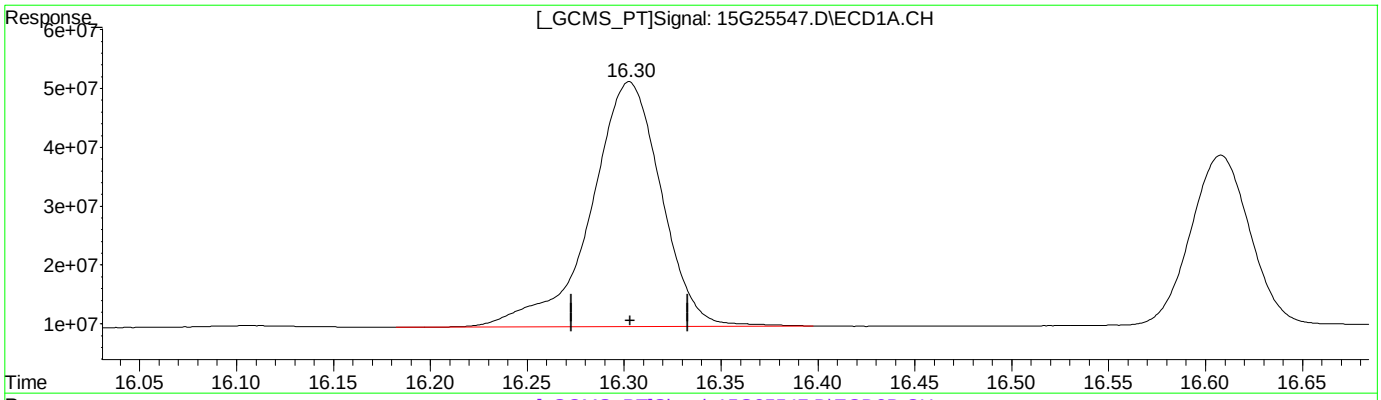


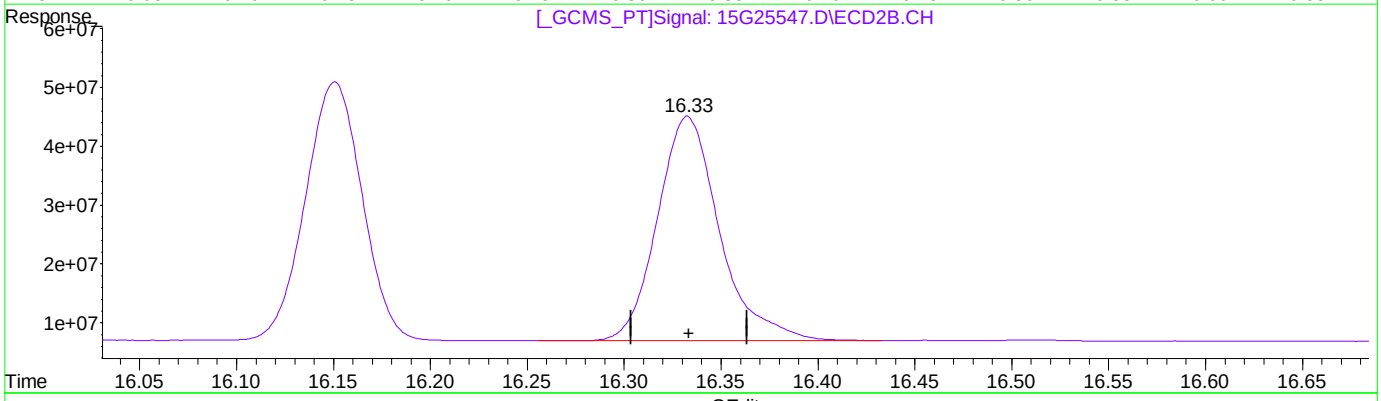


Data Path : C:\MSDChem\1\DATA\032211\
Data File : 15G25547.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 22 Mar 2011 18:13 (#1); 22 Mar 2011 18:41 (#2)
Operator : ECL
Sample   : WG359603-03 PEST CCV 10 PPB
Misc   : 1,1 STD43387
ALS Vial : 14   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 10:57:55 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(18) Endrin Aldehyde

16.30min 10.711UG/L

response 1052587619

(18) Endrin Aldehyde #2

16.33min 12.194UG/L

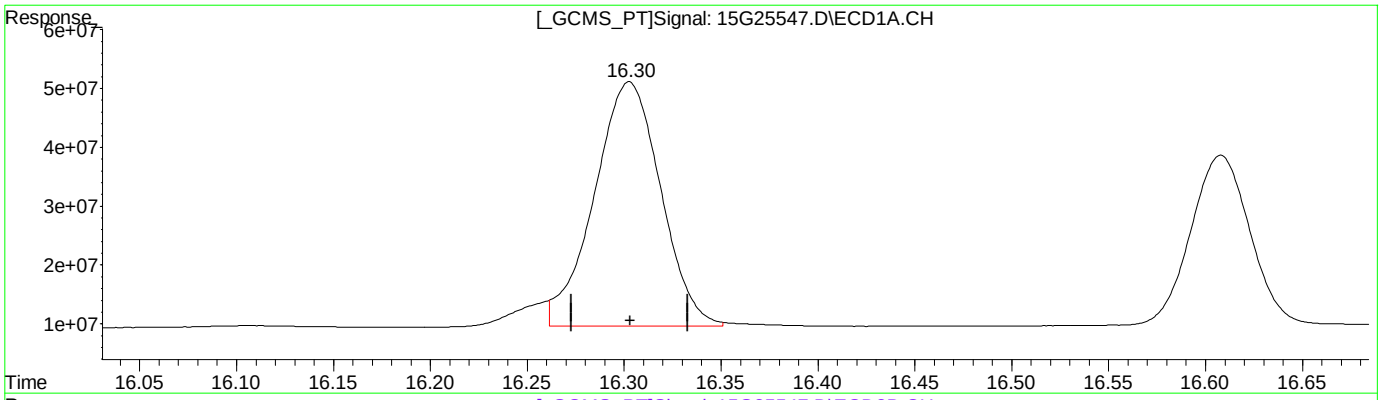
response 849052014

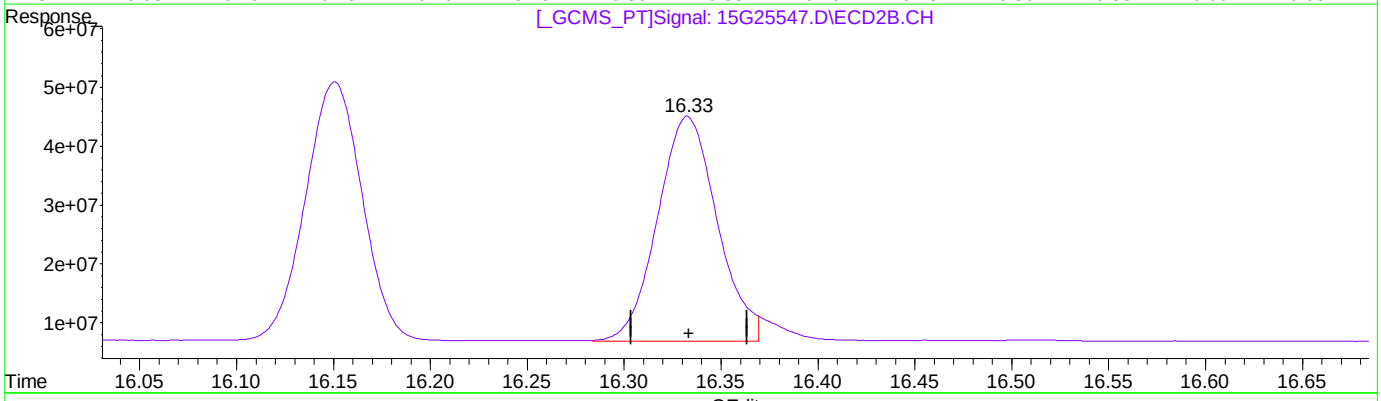
(+) = Expected Retention Time

Data Path : C:\MSDChem\1\DATA\032211\
Data File : 15G25547.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 22 Mar 2011 18:13 (#1); 22 Mar 2011 18:41 (#2)
Operator : ECL
Sample   : WG359603-03 PEST CCV 10 PPB
Misc   : 1,1 STD43387
ALS Vial : 14   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 10:57:55 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(18) Endrin Aldehyde

16.30min 10.061UG/L mint

response 988664313

(18) Endrin Aldehyde #2

16.33min 11.728UG/L mint

response 816655299

(+) = Expected Retention Time
8081.M Wed Mar 23 10:59:03 2011

Analyst: 03/23/2011 14:46 Supervisor: 03/24/2011 10:37

Page: 1

#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Data Path : C:\MSDChem\1\DATA\032211\
Data File : 15G25548.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Mar 2011 18:41 (#1); 22 Mar 2011 19:10 (#2)
Operator : ECL
Sample : WG359604-02 TOX CCV 200 PPB
Misc : 1,1 STD43915
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Mar 23 10:59:27 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Tue Mar 01 09:20:27 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

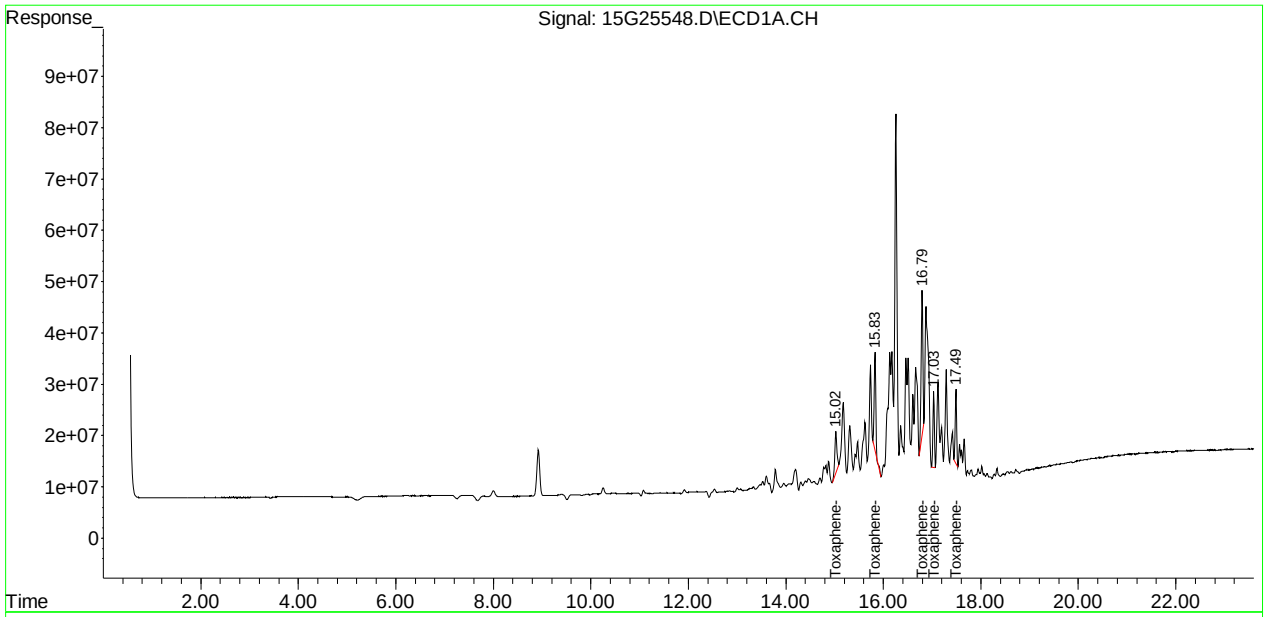
Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 Toxaphene-1	15.03	14.88	247.0E6	255.5E6	193.732	233.669
2) L1 Toxaphene-2	15.83	15.94	435.6E6	702.3E6	231.117	211.812
3) L1 Toxaphene-3	16.80	16.73	704.6E6	210.7E6	208.549	209.204
4) L1 Toxaphene-4	17.03	17.07	306.2E6	421.9E6	201.599	183.496
5) L1 Toxaphene-5	17.49	17.58	291.9E6	172.0E6	207.800	195.730
Sum Toxaphene-1			1985.4E6	1762.4E6	1042.797	1033.911
Average Toxaphene-1					208.559	206.782

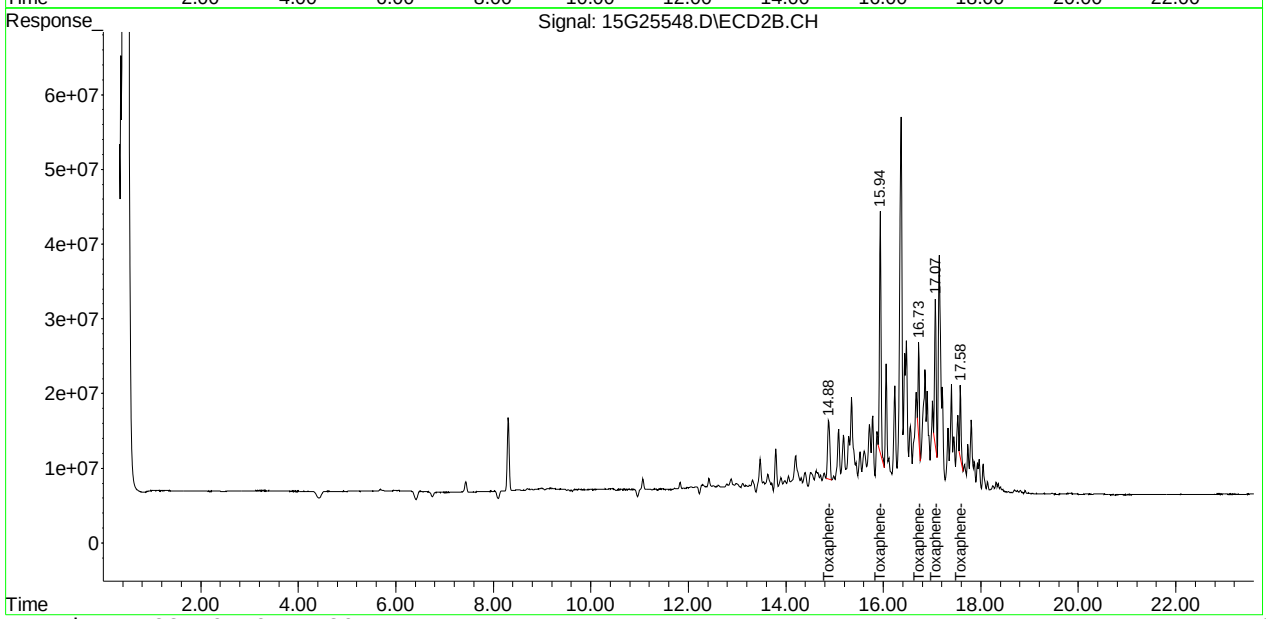
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\032211\
Data File : 15G25548.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Mar 2011 18:41 (#1); 22 Mar 2011 19:10 (#2)
Operator : ECL
Sample : WG359604-02 TOX CCV 200 PPB
Misc : 1,1 STD43915
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Mar 23 10:59:27 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Tue Mar 01 09:20:27 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDChem\1\DATA\032211\
Data File : 15G25560.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Mar 2011 00:22 (#1); 23 Mar 2011 00:50 (#2)
Operator : ECL
Sample : WG359603-05 PEST CCV 20 PPB
Misc : 1,1 STD43387
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 11:01:14 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

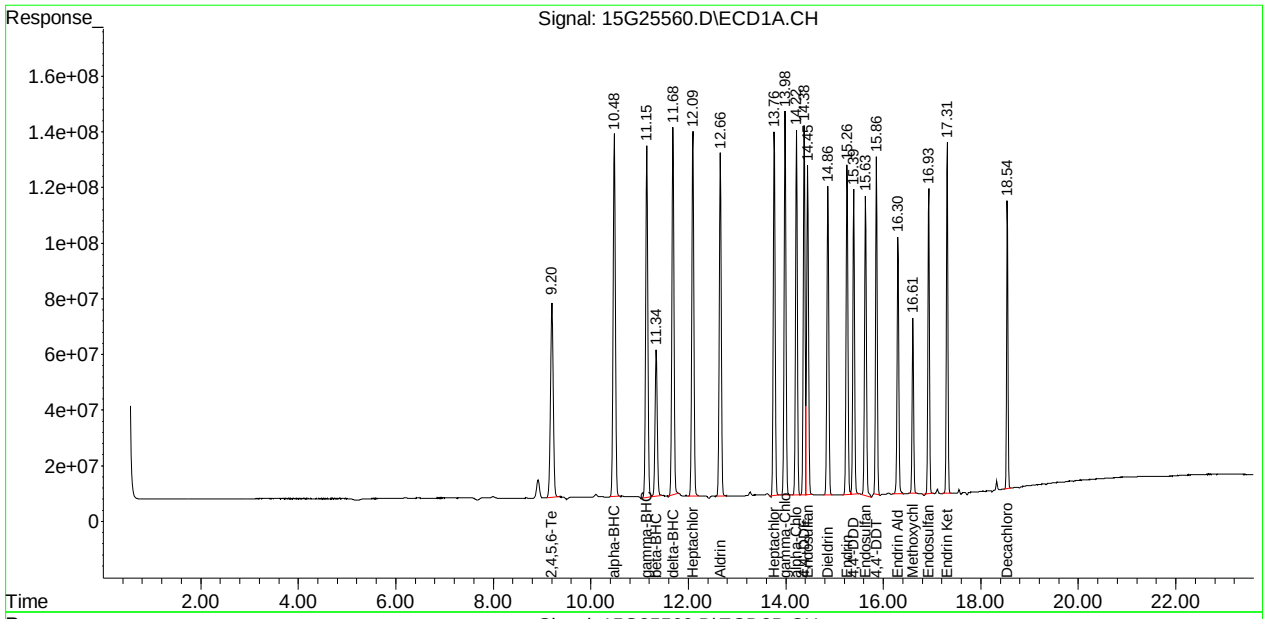
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.20	9.14	2731.7E6	2007.7E6	21.037	20.801
	Spiked Amount	20.000	Range 30 - 132		Recovery =	105.19%	104.01%
22) S	Decachlorobiphen	18.54	18.86	1919.2E6	1211.1E6	21.581	18.913
	Spiked Amount	20.000	Range 36 - 144		Recovery =	107.91%	94.56%
	Target Compounds						
2)	alpha-BHC	10.48	10.49	4166.5E6	3086.4E6	21.634	22.021
3)	gamma-BHC	11.15	11.23	3886.6E6	2867.2E6	21.738	21.191
4)	beta-BHC	11.34	11.41	1648.8E6	1221.5E6	20.971	20.512
5)	Heptachlor	12.09	12.08	3814.3E6	2805.1E6	22.140	21.903
6)	delta-BHC	11.68	11.98	3897.6E6	2958.3E6	21.712	21.494
7)	Aldrin	12.66	12.69	3486.3E6	2777.5E6	22.519	22.294
8)	Heptachlor Epoxi	13.76	13.74	3470.1E6	2269.2E6	22.301	21.915
9)	gamma-Chlordane	13.98	14.08	3580.1E6	2504.2E6	22.143	21.338
10)	alpha-Chlordane	14.22	14.34	3349.2E6	2392.7E6	22.120	21.010
11)	Endosulfan I	14.45	14.43	3137.8E6	2013.0E6	22.779	21.461
12)	4,4'-DDE	14.38	14.65	3344.7E6	2364.9E6	23.466	21.930
13)	Dieldrin	14.86	14.91	2970.8E6	2426.3E6	22.131	21.860
14)	Endrin	15.26	15.43	3084.0E6	1949.5E6	23.036	21.050
15)	4,4'-DDD	15.39	15.64	2682.3E6	1980.3E6	23.014	22.591
16)	Endosulfan II	15.63	15.80	2855.3E6	2030.6E6	23.185	21.500
17)	4,4'-DDT	15.86	16.15	2803.9E6	1824.6E6	23.839m	20.683
18)	Endrin Aldehyde	16.30	16.33	2203.3E6	1480.5E6	22.422	21.263
19)	Endosulfan Sulfa	16.93	16.74	2374.5E6	1774.7E6	22.274	21.281
20)	Methoxychlor	16.61	17.13	1337.2E6	838.3E6	23.424	19.824
21)	Endrin Ketone	17.31	17.45	2654.7E6	1868.4E6	22.545	21.641

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\032211\
Data File : 15G25560.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Mar 2011 00:22 (#1); 23 Mar 2011 00:50 (#2)
Operator : ECL
Sample : WG359603-05 PEST CCV 20 PPB
Misc : 1,1 STD43387
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 11:01:14 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

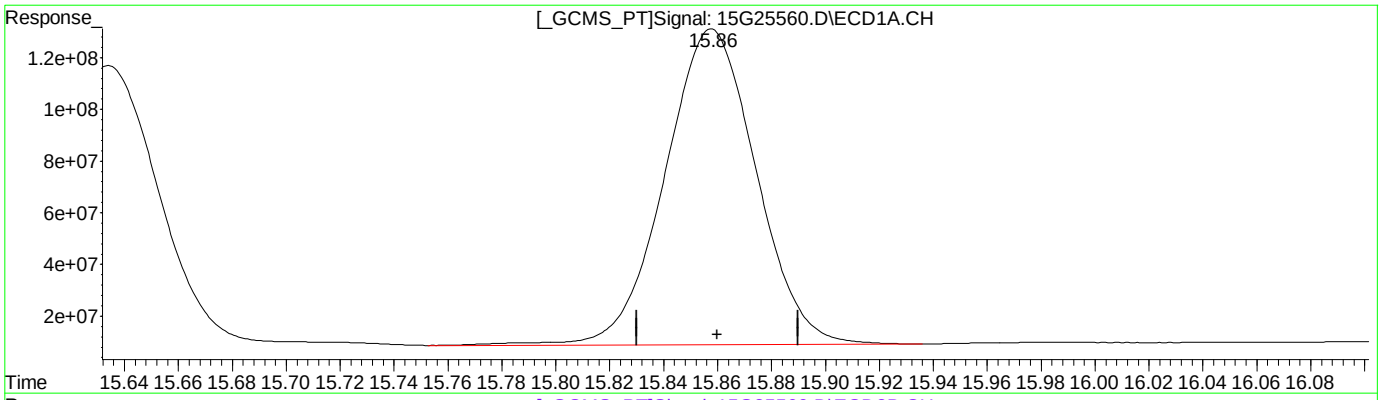
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

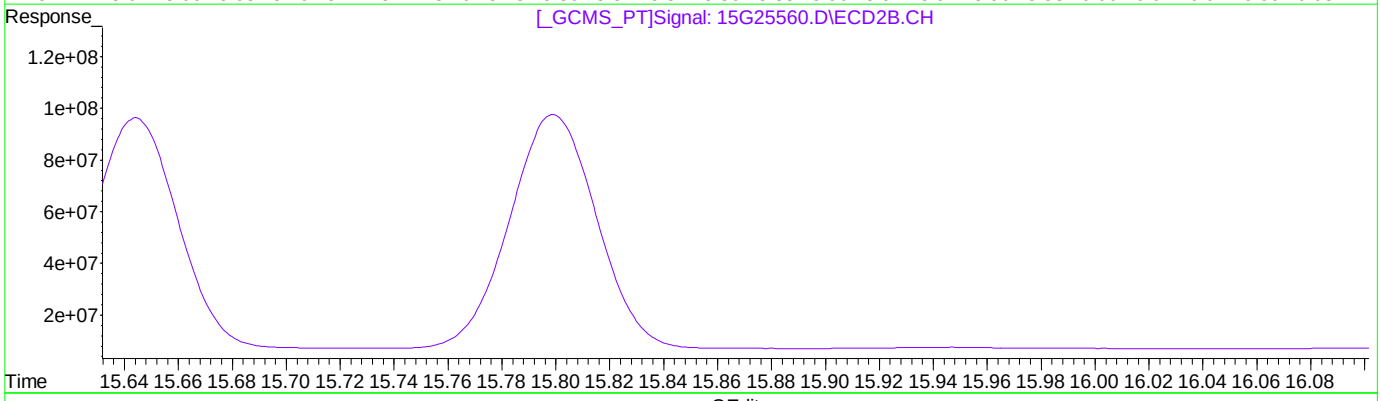


Data Path : C:\MSDChem\1\DATA\032211\
Data File : 15G25560.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 23 Mar 2011 00:22 (#1); 23 Mar 2011 00:50 (#2)
Operator : ECL
Sample   : WG359603-05 PEST CCV 20 PPB
Misc   : 1,1 STD43387
ALS Vial : 27   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 11:00:18 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(17) 4,4'-DDT

15.86min 24.415UG/L

response 2871610268

(17) 4,4'-DDT #2

16.15min 20.683UG/L

response 1824588144

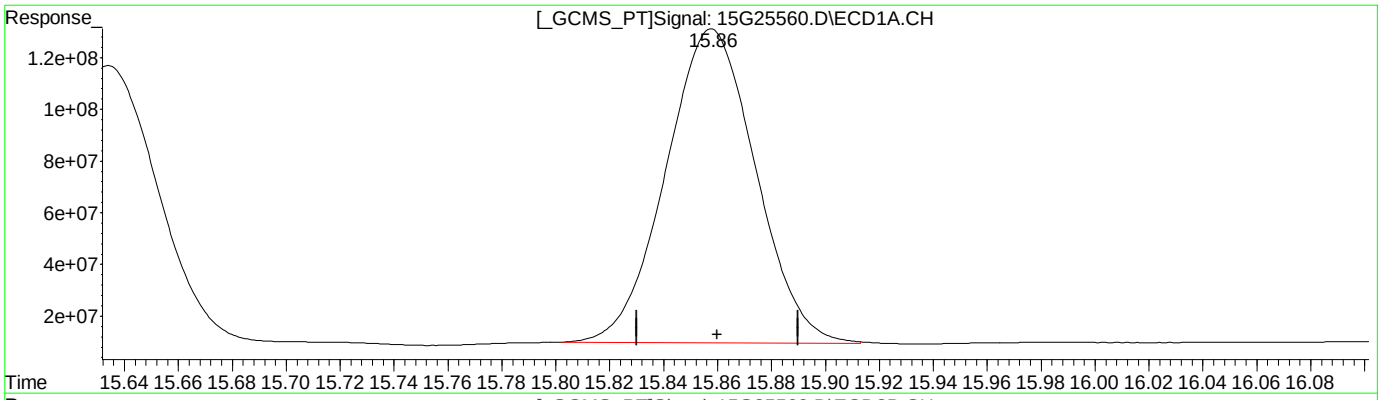
(+) = Expected Retention Time

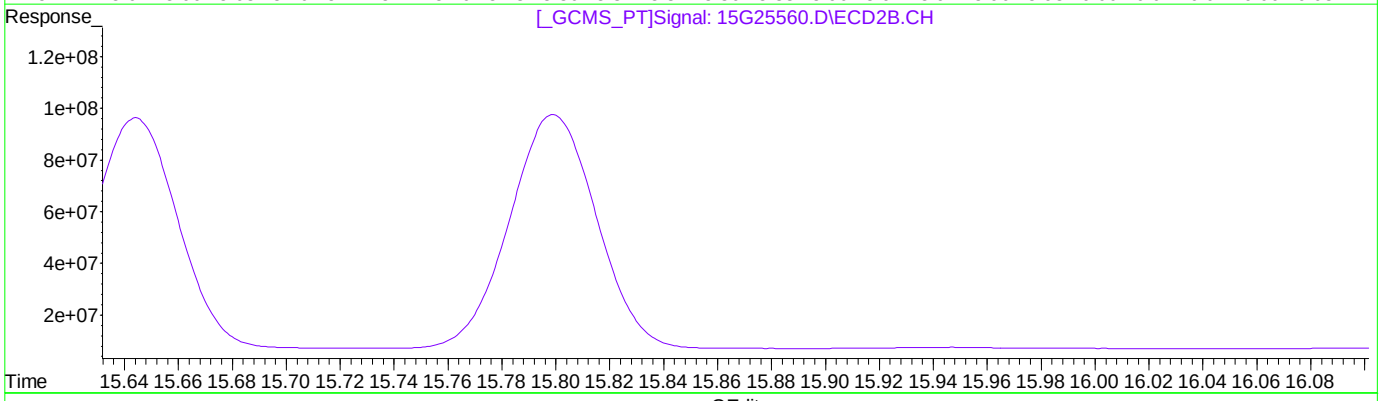
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\032211\
Data File : 15G25560.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 23 Mar 2011 00:22 (#1); 23 Mar 2011 00:50 (#2)
Operator : ECL
Sample   : WG359603-05 PEST CCV 20 PPB
Misc   : 1,1 STD43387
ALS Vial : 27   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 11:00:18 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(17) 4,4'-DDT

15.86min 23.839UG/L mint

response 2803946146

(17) 4,4'-DDT #2

16.15min 20.683UG/L

response 1824588144

(+) = Expected Retention Time
8081.M Wed Mar 23 11:01:19 2011

Analyst: 03/23/2011 14:46 Supervisor: 03/24/2011 10:37

Page: 1

#4 - System establishes incorrect baseline

Data Path : C:\MSDChem\1\DATA\032211\
Data File : 15G25561.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Mar 2011 00:50 (#1); 23 Mar 2011 1:19 (#2)
Operator : ECL
Sample : WG359604-03 TOX CCV 500 PPB
Misc : 1,1 STD43915
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Mar 23 11:02:02 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Tue Mar 01 09:20:27 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

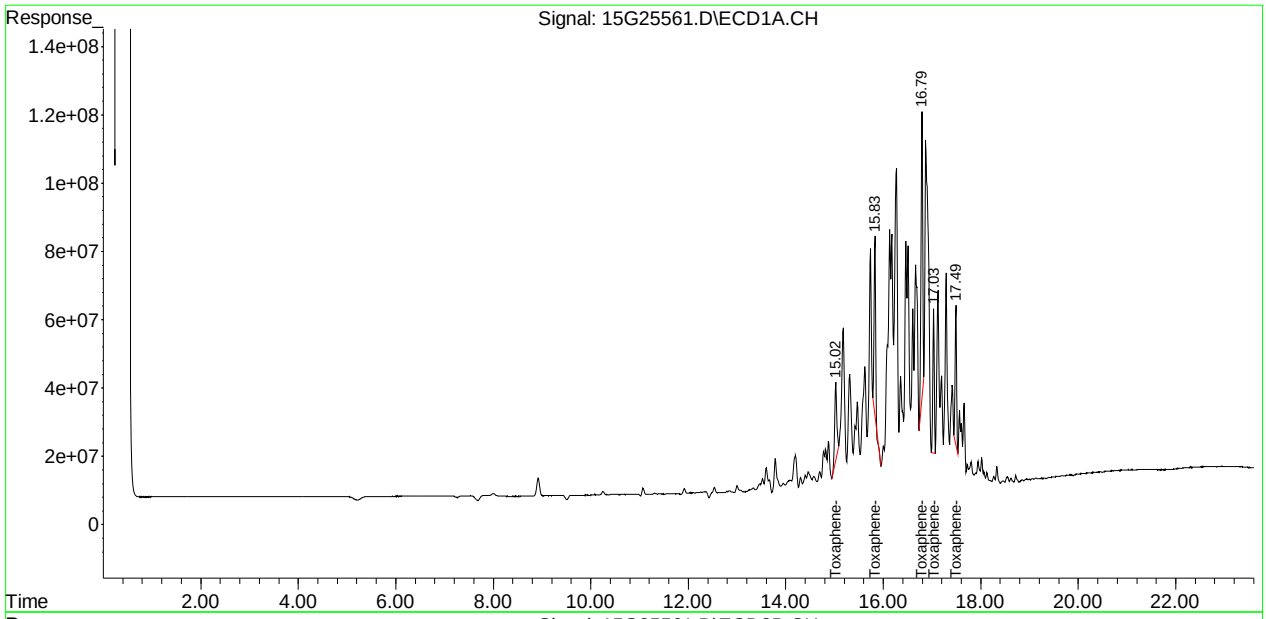
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.02	14.88	686.0E6	611.0E6	538.079	558.869
2)	L1 Toxaphene-2	15.83	15.94	1107.9E6	1809.1E6	587.744	545.626
3)	L1 Toxaphene-3	16.79	16.73	2029.5E6	546.6E6	600.678m	542.761
4)	L1 Toxaphene-4	17.03	17.07	878.0E6	1090.9E6	578.036	474.421
5)	L1 Toxaphene-5	17.49	17.58	837.4E6	462.0E6	596.116	525.669
	Sum Toxaphene-1			5538.8E6	4519.6E6	2900.652	2647.345
Average	Toxaphene-1					580.130	529.469

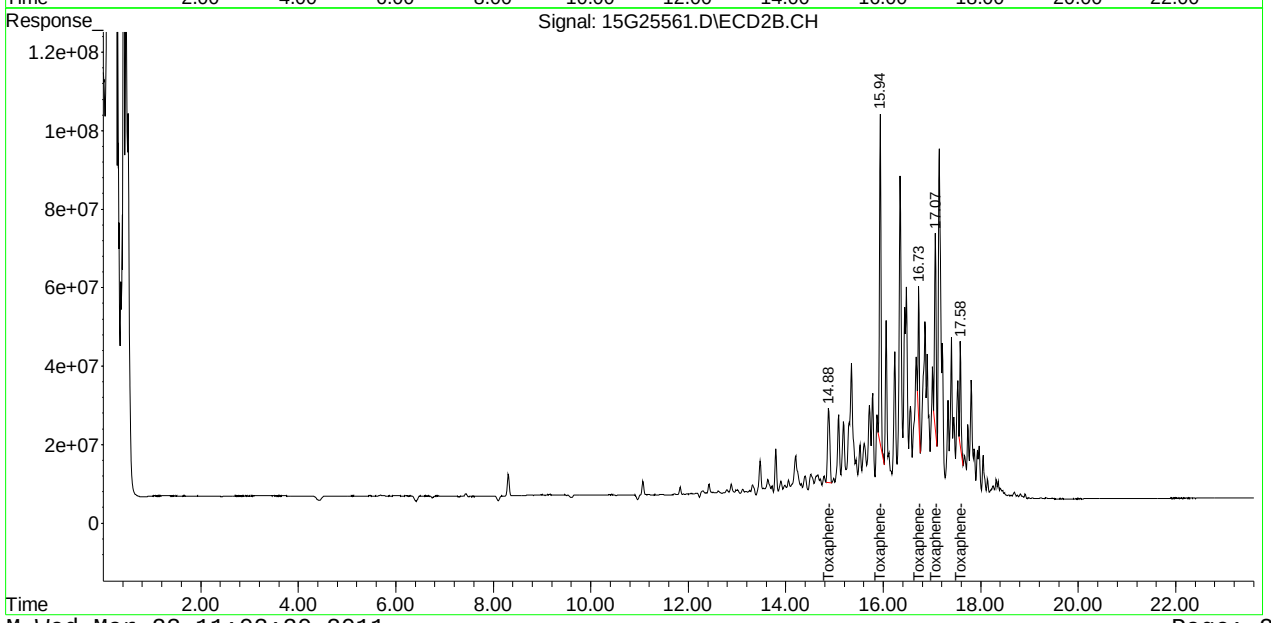
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\032211\
Data File : 15G25561.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Mar 2011 00:50 (#1); 23 Mar 2011 1:19 (#2)
Operator : ECL
Sample : WG359604-03 TOX CCV 500 PPB
Misc : 1,1 STD43915
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Mar 23 11:02:02 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Tue Mar 01 09:20:27 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

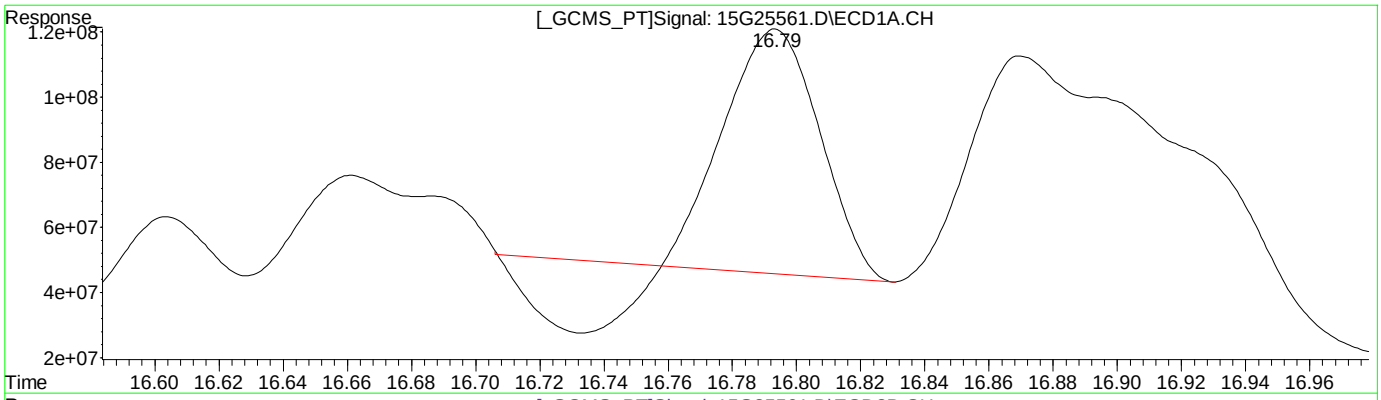


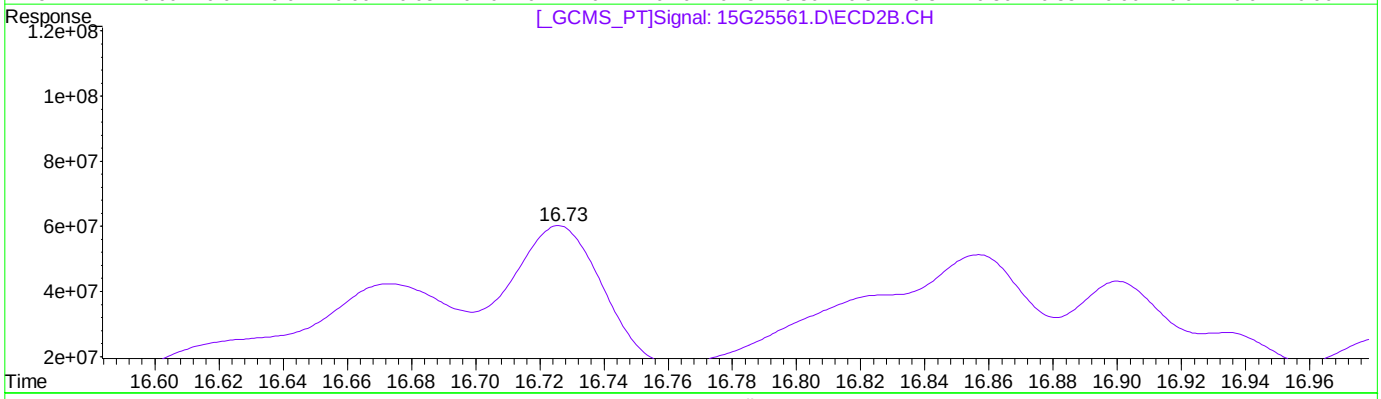


Data Path : C:\MSDChem\1\DATA\032211\
Data File : 15G25561.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 23 Mar 2011 00:50 (#1); 23 Mar 2011   1:19 (#2)
Operator : ECL
Sample   : WG359604-03 TOX CCV 500 PPB
Misc   : 1,1 STD43915
ALS Vial : 28   Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Mar 23 11:01:47 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Tue Mar 01 09:20:27 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(3) Toxaphene-3 (L1)

R.T.	Response	Conc
16.79	1193675870	353.30
17.03	878047154	578.04
17.49	837362375	596.12

(3) Toxaphene-3 #2 (L1)

R.T.	Response	Conc
16.73	546567652	542.76
17.07	1090923326	474.42
17.58	461999325	525.67

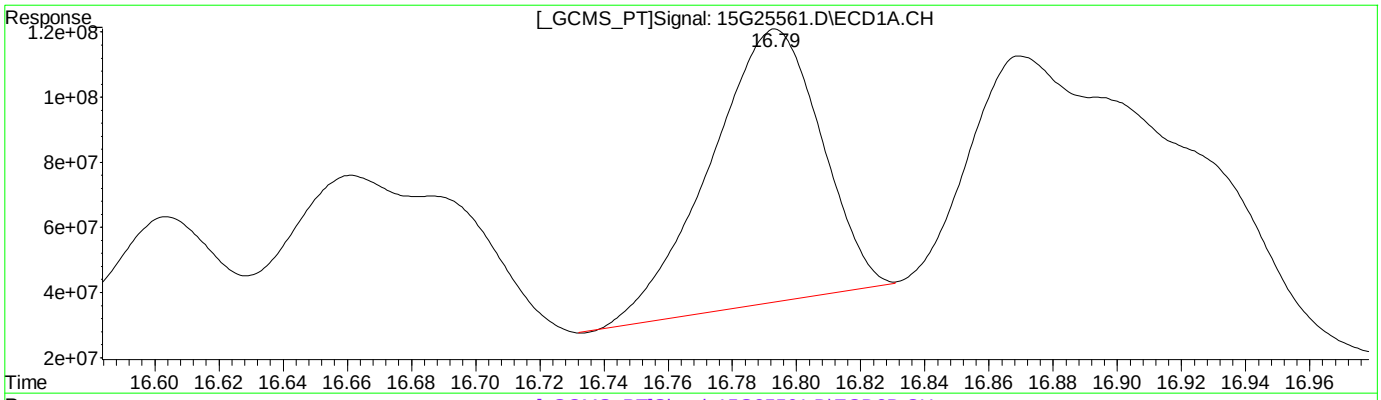
(+) = Expected Retention Time

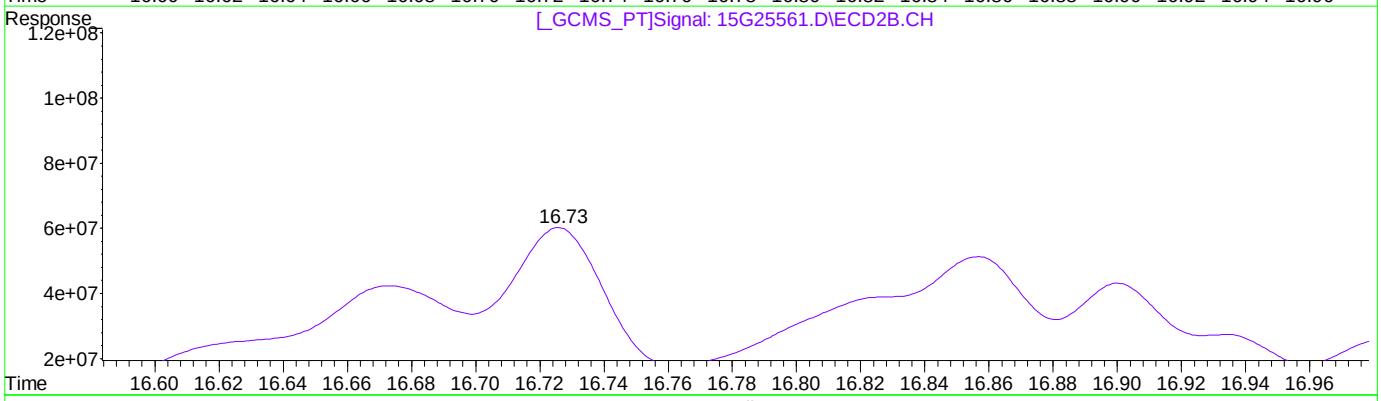
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\032211\
Data File : 15G25561.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 23 Mar 2011 00:50 (#1); 23 Mar 2011   1:19 (#2)
Operator : ECL
Sample   : WG359604-03 TOX CCV 500 PPB
Misc   : 1,1 STD43915
ALS Vial : 28   Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Mar 23 11:01:47 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Tue Mar 01 09:20:27 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(3) Toxaphene-3 #2 (L1)

R.T.	Response	Conc
16.79	2029498457	600.68
17.03	878047154	578.04
17.49	837362375	596.12

(3) Toxaphene-3 #2 (L1)

R.T.	Response	Conc
16.73	546567652	542.76
17.07	1090923326	474.42
17.58	461999325	525.67

(+) = Expected Retention Time
TOX.M Wed Mar 23 11:02:04 2011

Analyst: 03/23/2011 14:56 Supervisor: 03/24/2011 10:38

Page: 1

#4 - System establishes incorrect baseline

Data Path : C:\MSDChem\1\DATA\032211\
Data File : 15G25534.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Mar 2011 11:22 (#1); 22 Mar 2011 11:50 (#2)
Operator : ECL
Sample : WG359603-01 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 22 12:58:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

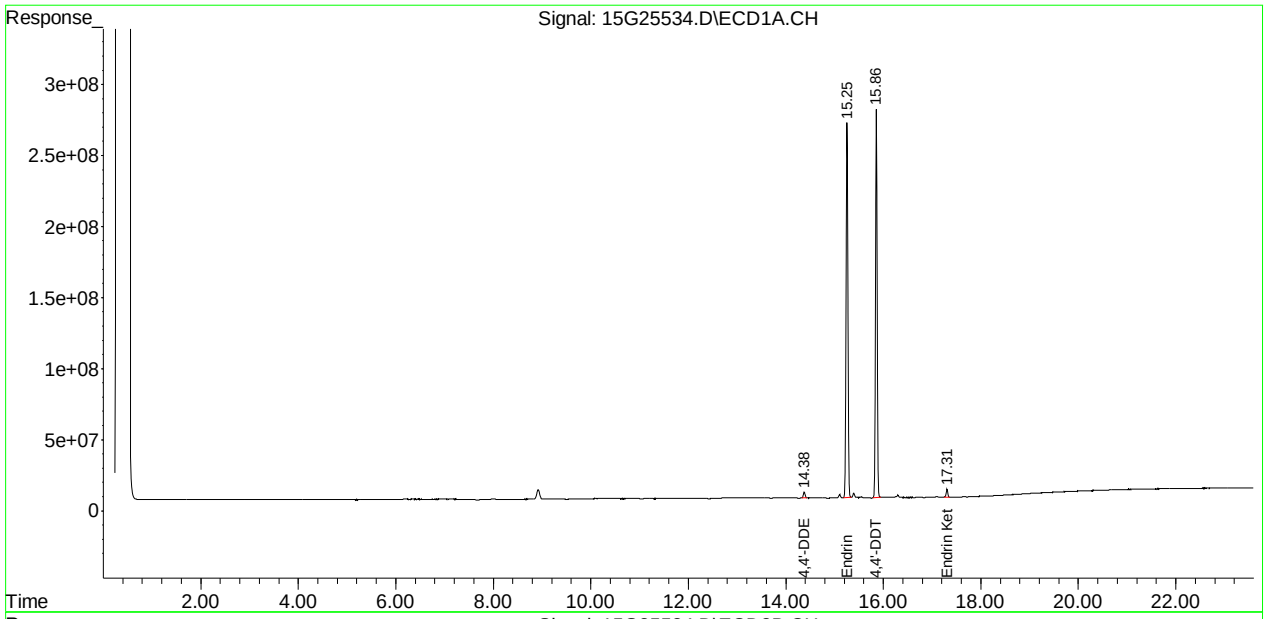
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount	20.000	Range 30 - 132	Recovery	=	0.00%#	0.00%#
22) S	Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount	20.000	Range 36 - 144	Recovery	=	0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	14.38	14.64	100.9E6	82825486	0.708	0.768
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	15.25	15.43	6893.6E6	4800.0E6	51.491	51.826
15)	4,4'-DDD	0.00	15.64	0	108.8E6	N.D.	1.242 #
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	15.86	16.15	6377.0E6	4524.6E6	54.218	51.290
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	17.31	17.45	121.1E6	123.1E6	1.029	1.426 #

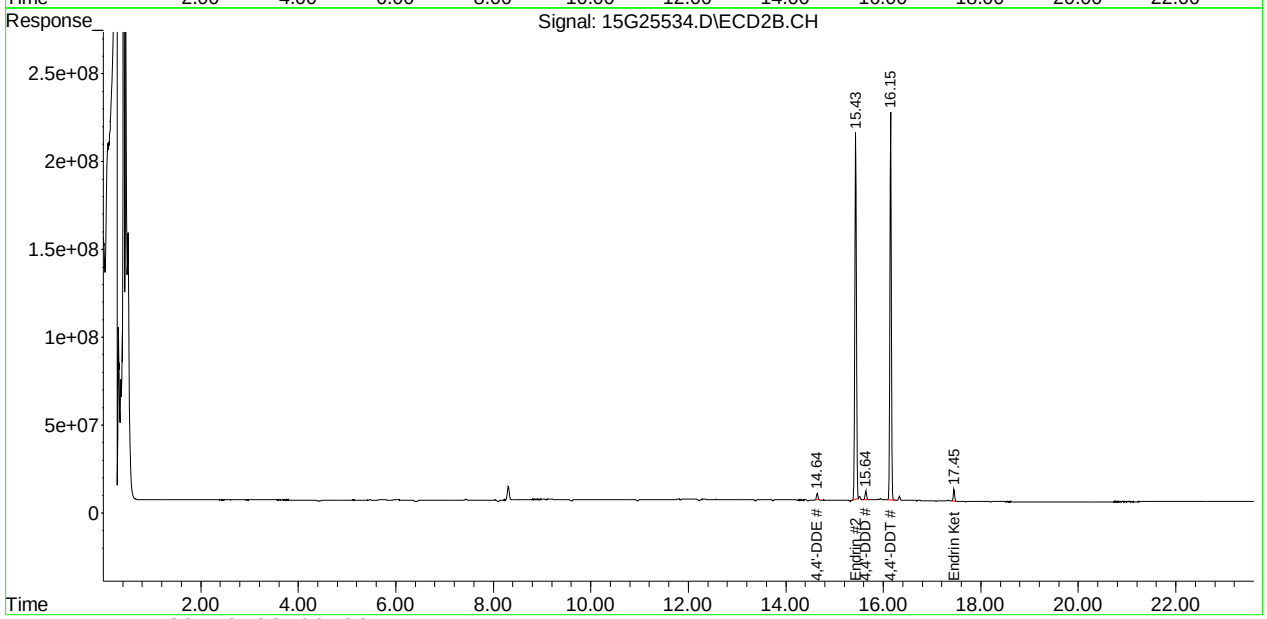
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\032211\
Data File : 15G25534.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Mar 2011 11:22 (#1); 22 Mar 2011 11:50 (#2)
Operator : ECL
Sample : WG359603-01 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 22 12:58:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDChem\1\DATA\032211\
Data File : 15G25559.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Mar 2011 23:54 (#1); 23 Mar 2011 00:22 (#2)
Operator : ECL
Sample : WG359603-04 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 10:59:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

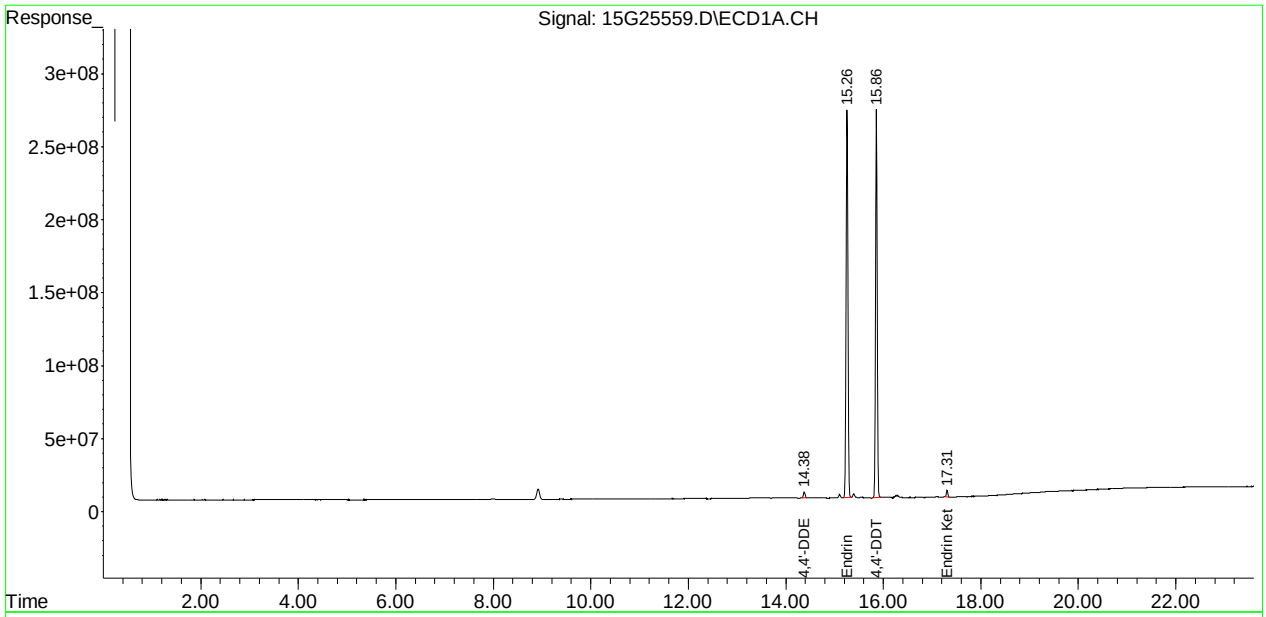
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount	20.000	Range 30 - 132	Recovery	=	0.00%#	0.00%#
22) S	Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount	20.000	Range 36 - 144	Recovery	=	0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	14.38	14.65	100.9E6	80775032	0.708	0.749
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	15.26	15.43	6924.0E6	4742.4E6	51.718	51.204
15)	4,4'-DDD	0.00	15.64	0	137.3E6	N.D.	1.567 #
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	15.86	16.15	6228.1E6	4238.7E6	52.951	48.049
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	17.31	17.45	94321371	150.2E6	0.801	1.740 #

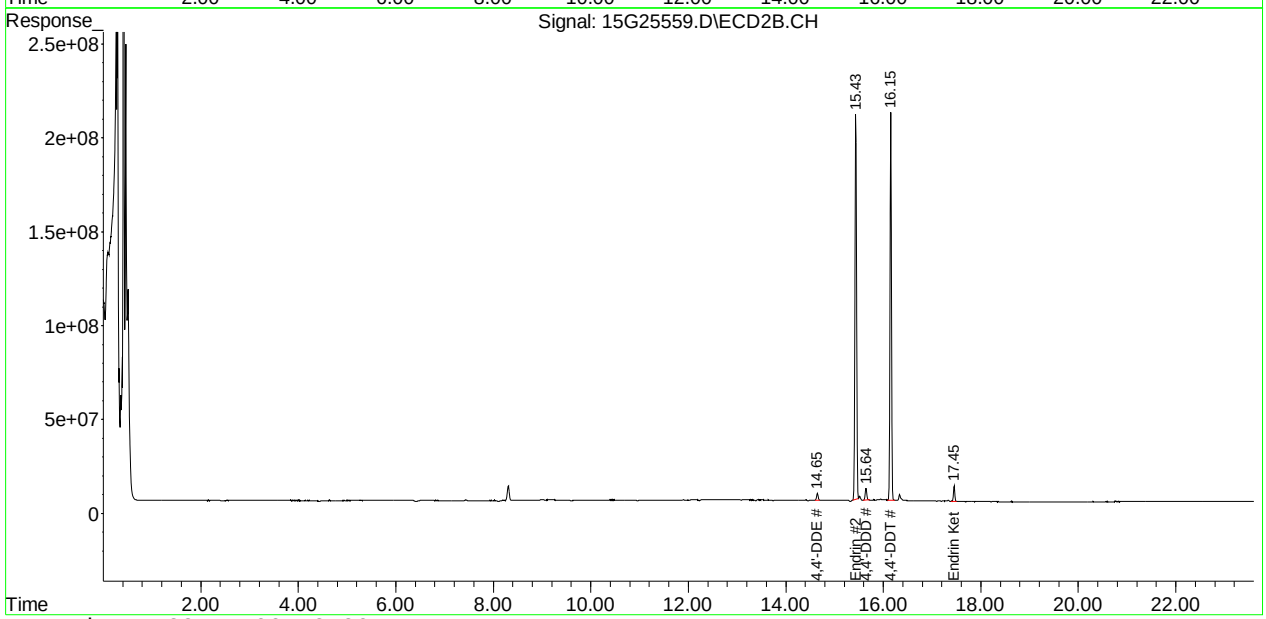
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\032211\
Data File : 15G25559.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Mar 2011 23:54 (#1); 23 Mar 2011 00:22 (#2)
Operator : ECL
Sample : WG359603-04 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 10:59:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





RETENTION TIME WINDOWS

Lab Name: Microbac Laboratories

Instrument ID: HP 15

GC Column: RTx-CLP (Front)

	STANDARD #1	STANDARD #2	STANDARD #3
Date Run	8/27/09	8/28/09	9/1/09
File #	15G18733	15G18777	15G18817

COMPOUND	STD #1 RT	STD #2 RT	STD #3 RT	RT WIN
alpha-BHC	10.90	10.89	10.89	0.017
gamma-BHC	11.58	11.57	11.56	0.030
beta-BHC	11.77	11.76	11.75	0.030
Heptachlor	12.53	12.51	12.51	0.035
delta-BHC	12.12	12.11	12.10	0.030
Aldrin	13.09	13.08	13.08	0.017
Heptachlor Epoxide	14.22	14.21	14.20	0.030
gamma-Chlordane	14.44	14.43	14.42	0.030
alpha-Chlordane	14.67	14.66	14.66	0.017
Endosulfan I	14.91	14.90	14.90	0.017
4,4'-DDE	14.82	14.81	14.80	0.030
Dieldrin	15.33	15.32	15.31	0.030
Endrin	15.73	15.72	15.71	0.030
4,4'-DDD	15.84	15.83	15.83	0.017
Endosulfan II	16.09	16.09	16.08	0.017
4,4'-DDT	16.28	16.27	16.27	0.017
Endrin Aldehyde	16.73	16.73	16.72	0.017
Endosulfan Sulfate	17.34	17.34	17.33	0.017
Methoxychlor	16.99	16.98	16.97	0.030
Endrin Ketone	17.71	17.70	17.70	0.017
2,4,5,6-Tetrachloro-M-Xylene	9.60	9.59	9.59	0.017
Decachlorobiphenyl	18.89	18.89	18.88	0.017

RETENTION TIME WINDOWS

Lab Name: Microbac Laboratories

Instrument ID: HP 15
GC Column: RTx-CLP II (Rear)

	STANDARD #1	STANDARD #2	STANDARD #3
Date Run	8/27/09	8/28/09	9/1/09
File #	15G18733	15G18777	15G18817

COMPOUND	STD #1 RT	STD #2 RT	STD #3 RT	RT WIN
alpha-BHC	10.70	10.70	10.70	0.000
gamma-BHC	11.44	11.44	11.43	0.017
beta-BHC	11.61	11.61	11.61	0.000
Heptachlor	12.30	12.30	12.29	0.017
delta-BHC	12.18	12.19	12.18	0.017
Aldrin	12.91	12.91	12.90	0.017
Heptachlor Epoxide	13.96	13.97	13.96	0.017
gamma-Chlordane	14.30	14.30	14.30	0.000
alpha-Chlordane	14.56	14.56	14.56	0.000
Endosulfan I	14.66	14.66	14.66	0.000
4,4'-DDE	14.87	14.87	14.86	0.017
Dieldrin	15.14	15.14	15.14	0.000
Endrin	15.67	15.67	15.67	0.000
4,4'-DDD	15.86	15.86	15.86	0.000
Endosulfan II	16.02	16.02	16.01	0.017
4,4'-DDT	16.35	16.35	16.35	0.000
Endrin Aldehyde	16.54	16.54	16.53	0.017
Endosulfan Sulfate	16.93	16.93	16.93	0.000
Methoxychlor	17.30	17.30	17.30	0.000
Endrin Ketone	17.63	17.63	17.63	0.000
2,4,5,6-Tetrachloro-M-Xylene	9.33	9.33	9.33	0.000
Decachlorobiphenyl	19.03	19.03	19.03	0.000

2.1.1.5 Raw QC Data

Data Path : C:\MSDCHEM\1\DATA\032211\
Data File : 15G25549.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Mar 2011 19:10 (#1); 22 Mar 2011 19:38 (#2)
Operator : ECL
Sample : WG359333-02 BLANK
Misc : 7,1 SOIL
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 12:00:44 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

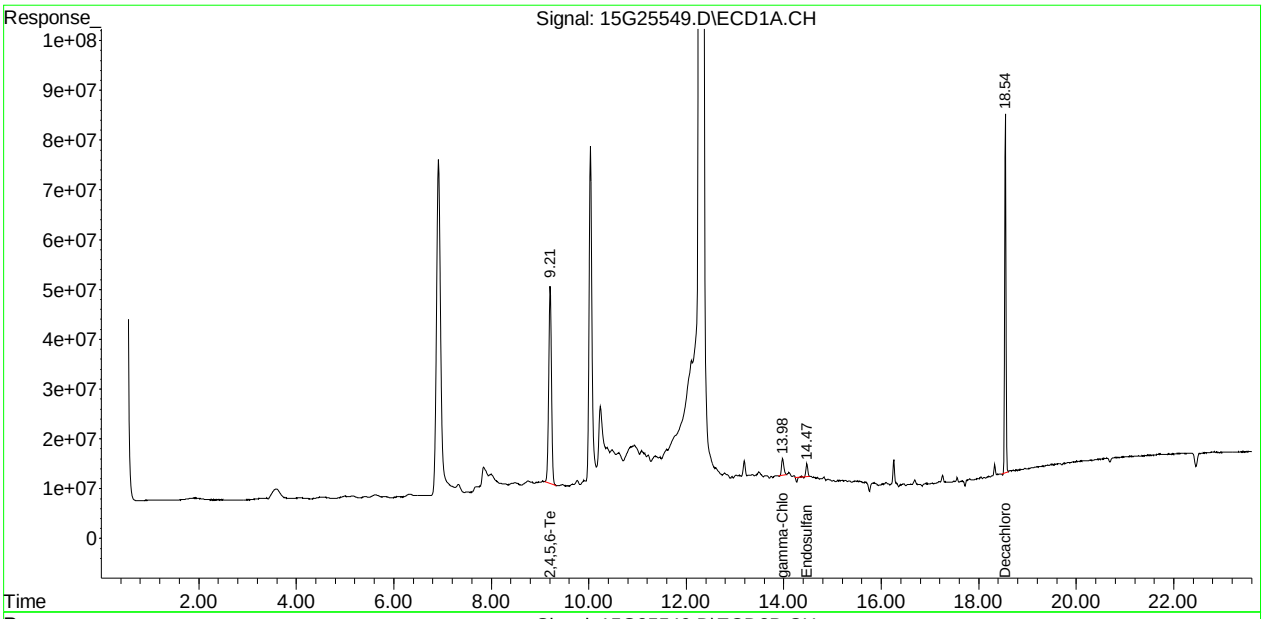
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1) S	2,4,5,6-Tetrachl	9.21	9.14	1546.4E6	1216.8E6	11.909	12.607	
	Spiked Amount	20.000	Range 29 - 133		Recovery =	59.55%	63.03%	
22) S	Decachlorobiphen	18.54	18.86	1323.8E6	886.2E6	14.886	13.840	
	Spiked Amount	20.000	Range 30 - 173		Recovery =	74.43%	69.20%	
	Target Compounds							
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.	
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	13.97	0.00	105.9E6	0	0.655	N.D.	#
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	14.47f	0.00	50344883	0	0.365	N.D.	#
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.	
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.	
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.	
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.	
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

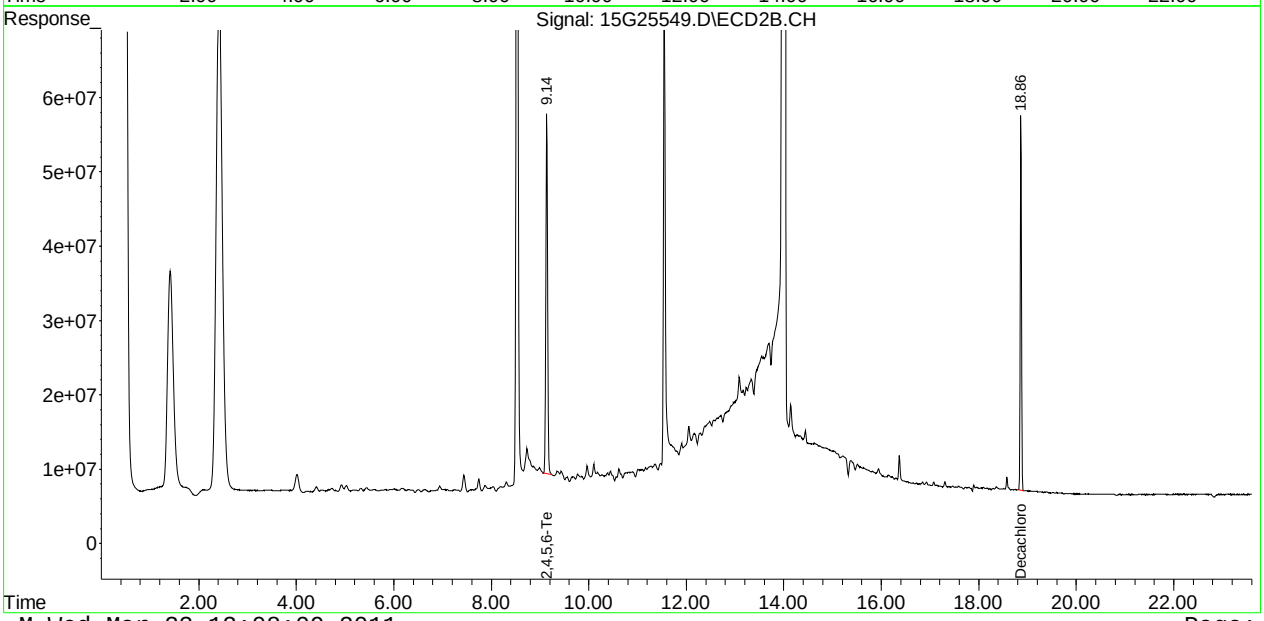
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\032211\
Data File : 15G25549.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Mar 2011 19:10 (#1); 22 Mar 2011 19:38 (#2)
Operator : ECL
Sample : WG359333-02 BLANK
Misc : 7,1 SOIL
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 12:00:44 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDCHEM\1\DATA\032211\
Data File : 15G25550.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Mar 2011 19:38 (#1); 22 Mar 2011 20:06 (#2)
Operator : ECL
Sample : WG359333-03 LCS
Misc : 7,1 SOIL
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 12:00:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

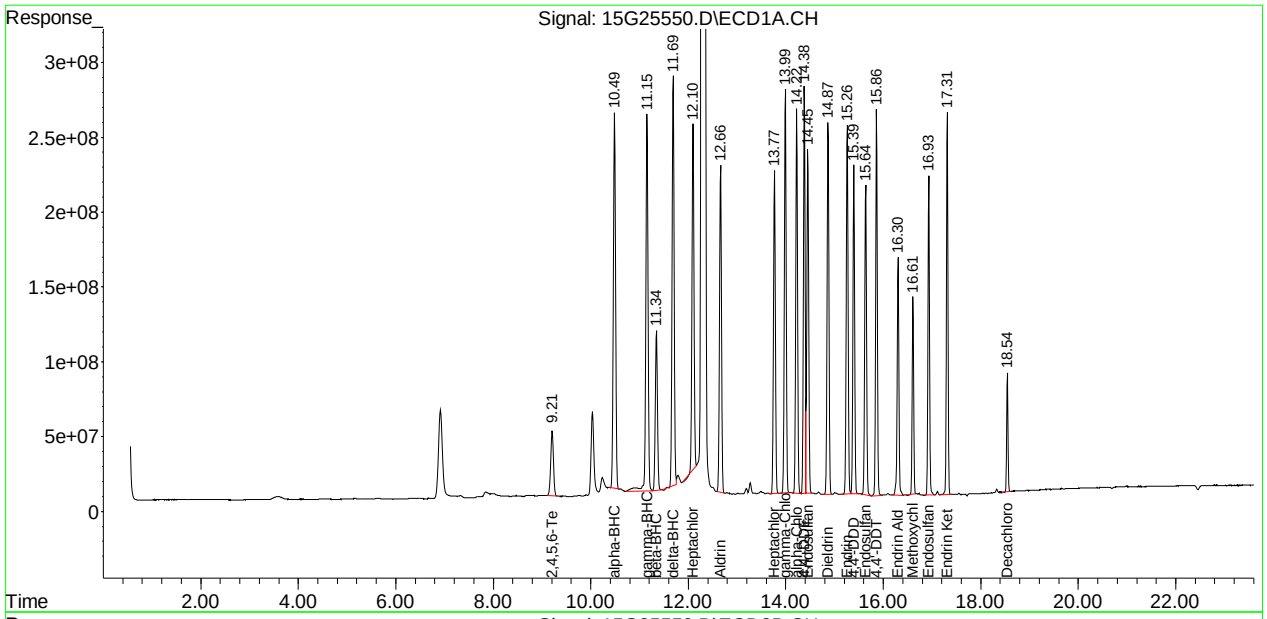
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.21	9.14	1689.9E6	1345.0E6	13.014	13.935
	Spiked Amount	20.000	Range 29 - 133		Recovery =	65.07%	69.67%
22) S	Decachlorobiphen	18.54	18.86	1458.2E6	969.6E6	16.398	15.142
	Spiked Amount	20.000	Range 30 - 173		Recovery =	81.99%	75.71%
	Target Compounds						
2)	alpha-BHC	10.49	10.49	7981.0E6	6108.0E6	41.440	43.579
3)	gamma-BHC	11.15	11.23	8010.9E6	5900.0E6	44.806	43.607
4)	beta-BHC	11.34	11.41	3246.8E6	2437.8E6	41.295	40.937
5)	Heptachlor	12.10	12.08	6480.5E6	5851.2E6	37.616	45.689
6)	delta-BHC	11.69	11.98	7946.0E6	6318.2E6	44.264	45.907
7)	Aldrin	12.66	12.69	6150.1E6	5186.9E6	39.725	41.634
8)	Heptachlor Epoxi	13.77	13.74	5795.8E6	4182.5E6	37.247	40.392
9)	gamma-Chlordane	13.99	14.08	6956.7E6	5243.9E6	43.028	44.682
10)	alpha-Chlordane	14.22	14.34	6595.6E6	5143.9E6	43.562	45.168
11)	Endosulfan I	14.45	14.43	6017.3E6	4355.4E6	43.683	46.434
12)	4,4'-DDE	14.38	14.65	6712.8E6	5173.1E6	47.095	47.970
13)	Dieldrin	14.87	14.91	6520.2E6	5195.1E6	48.572	46.806
14)	Endrin	15.26	15.43	6396.3E6	4591.3E6	47.777	49.574
15)	4,4'-DDD	15.39	15.64	5375.7E6	4263.8E6	46.124	48.642
16)	Endosulfan II	15.64	15.80	5401.8E6	4192.5E6	43.861	44.389
17)	4,4'-DDT	15.86	16.15	5995.9E6	4425.9E6	50.978	50.172
18)	Endrin Aldehyde	16.30	16.33	3835.0E6	2752.1E6	39.026	39.525
19)	Endosulfan Sulfa	16.93	16.74	4726.3E6	3674.5E6	44.334	44.063
20)	Methoxychlor	16.61	17.13	2759.5E6	2032.2E6	48.336	48.059
21)	Endrin Ketone	17.31	17.45	5492.7E6	4063.1E6	46.646	47.061

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\032211\
Data File : 15G25550.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Mar 2011 19:38 (#1); 22 Mar 2011 20:06 (#2)
Operator : ECL
Sample : WG359333-03 LCS
Misc : 7,1 SOIL
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 12:00:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\032211\
Data File : 15G25551.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Mar 2011 20:06 (#1); 22 Mar 2011 20:35 (#2)
Operator : ECL
Sample : WG359333-04 TOX LCS
Misc : 7,1 SOIL
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Mar 23 14:09:07 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Tue Mar 01 09:20:27 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

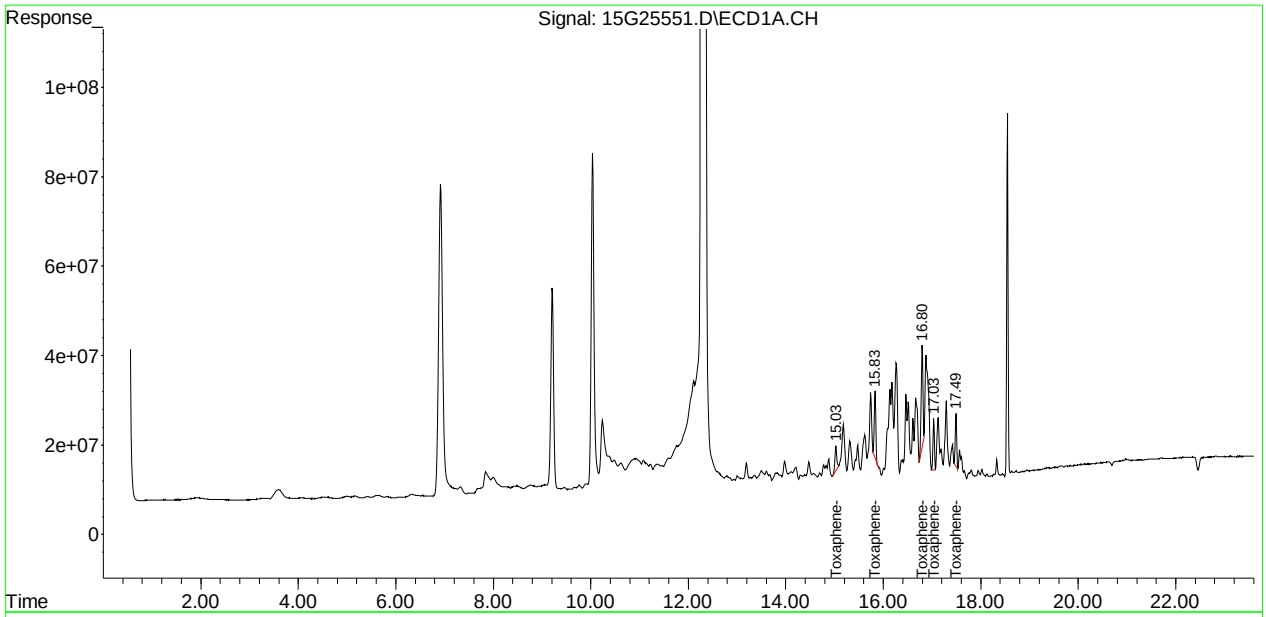
Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 Toxaphene-1	15.03	14.87	146.1E6	170.9E6	114.564	156.329 #
2) L1 Toxaphene-2	15.83	15.94	321.6E6	589.3E6	170.600	177.726
3) L1 Toxaphene-3	16.80	16.73	550.5E6	167.5E6	162.930	166.381
4) L1 Toxaphene-4	17.03	17.07	238.7E6	380.2E6	157.131	165.344
5) L1 Toxaphene-5	17.49	17.58	238.9E6	151.0E6	170.081	171.829
Sum Toxaphene-1			1495.7E6	1459.0E6	775.307	837.608
Average Toxaphene-1					155.061	167.522

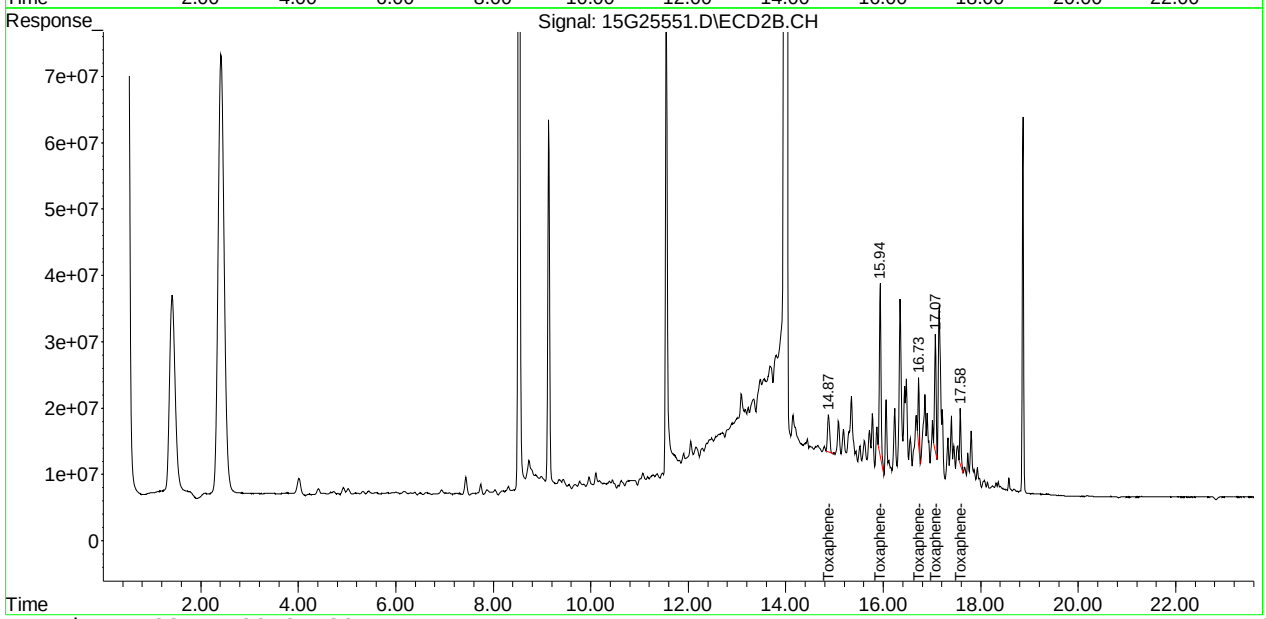
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\032211\
Data File : 15G25551.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Mar 2011 20:06 (#1); 22 Mar 2011 20:35 (#2)
Operator : ECL
Sample : WG359333-04 TOX LCS
Misc : 7,1 SOIL
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Mar 23 14:09:07 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Tue Mar 01 09:20:27 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





2.2 General Chemistry Data

2.2.1 Percent Solids Data

2.2.1.1 Raw Data

LABORATORY REPORT

L11030544

03/24/11 15:55

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CT Laboratories
1230 Lange Court

Baraboo, WI 53913
Attention: Patrick Letterer

Project Number: 2694.005
Project: Kansas AAP
Site: PARSONS KANSAS

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
898909	L11030544-01	D2216-90	1	16-MAR-11
898916	L11030544-02	D2216-90	1	16-MAR-11

Report Number: **L11030544**
Report Date : **March 24, 2011**

Sample Number:	L11030544-01	PrePrep Method:	NONE	Instrument:	BAL013
Client ID:	898909	Prep Method:	D2216-90	Prep Date:	03/24/2011 13:27
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG359746	Analyst:	JDH	Run Date:	03/24/2011 13:27
Collect Date:	03/08/2011 10:10	Dilution:	1	File ID:	B1.359746-0109
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	98.1		1.00	1.00

Report Number: **L11030544**
Report Date : **March 24, 2011**

Sample Number:	L11030544-02	PrePrep Method:	NONE	Instrument:	BAL013
Client ID:	898916	Prep Method:	D2216-90	Prep Date:	03/24/2011 13:27
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG359746	Analyst:	JDH	Run Date:	03/24/2011 13:27
Collect Date:	03/08/2011 10:10	Dilution:	1	File ID:	B1.359746-0110
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	97.9		1.00	1.00

Example Percent Solids Calculations

1.0 Calculating the percent solids of a sample.

$$\%Solids = \frac{WT3 - WT1}{WT2 - WT1} \times F$$

Where:	
WT1 = Weight, in grams, of the empty container	1.30 g
WT2 = Weight, in grams, of the container and wet sample	21.274 g
WT3 = Weight, in grams, of the container and dried sample	5.21 g
F = Factor to get units as percent weight	100
%Solids = Percent solids present in sample.	19.58%

2.0 Calculating the percent moisture of a sample.

% Moisture = 100 - % Solids from 1.0 calculation

Microbac Laboratories Inc.

PERCENT SOLIDS

Workgroup (AAB#):WG359746 Analyst:JDH ADT(on):03/23/2011 14:20
Method:D2216-90 Instrument:BAL013 ADT(off):03/24/2011 13:27
SOP:K0003 Rev:11

SAMPLE NUMBER	EMPTY PAN WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C	PERCENT SOLID	PERCENT MOISTURE
L11030412-01	1.335	36.531	31.643			86.11	
L11030412-02	1.335	33.116	30.421			91.52	
L11030412-03	1.332	34.019	32.793			96.25	
L11030412-04	1.318	41.768	39.084			93.36	
L11030412-05	1.322	46.259	43.61			94.11	
L11030412-06	1.329	29.655	25.773			86.30	
L11030412-07	1.326	39.715	34.056			85.26	
L11030412-08	1.322	34.429	30.53			88.22	
L11030456-01	1.336	21.948	11.469			49.16	
L11030544-01	1.318	21.875	21.494			98.15	
L11030544-02	1.34	17.659	17.319			97.92	
L11030575-01	1.329	38.666	31.911			81.91	
L11030575-02	1.324	29.369	24.06			81.07	
L11030575-03	1.329	34.751	28.278			80.63	
L11030575-04	1.318	21.614	16.847			76.51	
L11030575-05	1.325	32.468	26.891			82.09	
L11030575-06	1.339	28.226	22.799			79.82	
L11030641-01	1.338	17.415	12.513			69.51	
L11030655-01	1.333	21.65	14.645			65.52	
L11030655-02	1.323	24.395	18.171			73.02	
L11030655-03	1.328	25.693	18.248			69.44	
L11030655-04	1.33	32.364	23.88			72.66	
L11030655-05	1.33	32.364	23.88			72.66	
L11030655-06	1.33	32.364	23.88			72.66	
L11030655-07	1.331	37.395	27.686			73.08	
L11030655-08	1.32	32.795	24.391			73.30	
L11030655-09	1.329	24.833	19.072			75.49	
L11030658-01	1.328	21.967	21.312			96.83	
L11030658-02	1.325	20.022	18.974			94.39	
L11030658-03	1.336	28.17	26.715			94.58	
L11030658-04	1.327	24.029	22.955			95.27	
L11030658-05	1.32	22.507	21.863			96.96	
L11030658-06	1.341	23.942	23.36			97.42	
L11030658-07	1.322	26.72	25.625			95.69	
L11030658-08	1.326	18.771	17.914			95.09	
L11030658-09	1.321	28.929	27.703			95.56	
L11030658-10	1.326	17.755	16.643			93.23	
L11030658-11	1.328	29.389	28.394			96.45	
L11030658-12	1.323	23.565	22.477			95.11	
L11030658-13	1.324	20.213	19.675			97.15	
L11030658-14	1.324	20.213	19.675			97.15	
L11030658-15	1.324	20.213	19.675			97.15	

PERCENT_SOLIDS - Modified 04/24/2008
PDF ID: 1952965
Report generated: 03/24/2011 14:26

Microbac Laboratories Inc.

PERCENT SOLIDS

Workgroup (AAB#):WG359746 Analyst:JDH ADT(on):03/23/2011 14:20
Method:D2216-90 Instrument:BAL013 ADT(off):03/24/2011 13:27
SOP:K0003 Rev:11

SAMPLE NUMBER	EMPTY PAN WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C	PERCENT SOLID	PERCENT MOISTURE
L11030658-16	1.326	22.78	22.184			97.22	
L11030678-01	1.341	24.789	24.559			99.02	
L11030715-01	1.32	26.706	22.602			83.83	
L11030715-02	1.324	25.965	21.709			82.73	
L11030715-03	1.325	29.978	24.925			82.36	
L11030715-04	1.325	29.978	24.925			82.36	
L11030715-05	1.325	29.978	24.925			82.36	
L11030715-06	1.316	19.325	16.214			82.73	
L11030715-07	1.322	28.785	24.004			82.59	
L11030715-08	1.32	19.77	16.564			82.62	
L11030715-09	1.325	21.707	18.147			82.53	
L11030715-10	1.322	31.144	26.261			83.63	
L11030715-11	1.322	24.638	20.478			82.16	
L11030715-12	1.357	25.696	21.592			83.14	
L11030715-13	1.319	27.371	22.935			82.97	
L11030715-14	1.319	27.652	23.387			83.80	
L11030715-15	1.318	29.252	25.005			84.80	
L11030715-16	1.32	14.919	12.604			82.98	
L11030715-17	1.32	22.802	19.047			82.52	
L11030715-18	1.332	17.921	15.173			83.43	
WG359746-01	1.329	38.666	31.911			81.91	18.09
WG359746-02	1.323	34.395	18.171			50.94	49.06
WG359746-03	1.332	17.921	15.173			83.43	16.57
WG359746-04	1.317	22.344	18.594			82.17	17.83
WG359746-05	1.33	27.995	14.171			48.16	51.84
WG359746-06	1.33	15.19	12.945			83.80	16.20

Analyst:

PERCENT_SOLIDS - Modified 04/24/2008
PDF ID: 1952965
Report generated: 03/24/2011 14:26

3.0 Attachments

Microbac Laboratories Inc.
Analyst Listing
March 29, 2011

ADC – ANTHONY D. CANTER	AJF – AMANDA J. FICKIESEN	ALB – ANNIE L. BROWN
ALV – AMY L. VALENTINE	AML – TONY M. LONG	AZH – AFTER HOURS
BLG – BRENDA L. GREENWALT	BRG – BRENDA R. GREGORY	CAA – CASSIE A. AUGENSTEIN
CAF – CHERYL A. FLOWERS	CEB – CHAD E. BARNES	CLC – CHRYS L. CRAWFORD
CLS – CARA L. STRICKLER	CLW – CHARISSA L. WINTERS	CPD – CHAD P. DAVIS
CSH – CHRIS S. HILL	DDE – DEBRA D. ELLIOTT	DEL – DON E. LIGHTFRITZ
DEV – DAVID E. VANDENBERG	DGB – DOUGLAS G. BUTCHER	DIH – DEANNA I. HESSON
DLB – DAVID L. BUMGARNER	DLP – DOROTHY L. PAYNE	DLR – DIANNA L. RAUCH
ECL – ERIC C. LAWSON	EDL – ERIN D. LONG	ERP – ERIN R. PORTER
FJB – FRANCES J. BOLDEN	HAV – HEMA VILASAGAR	HJR – HOLLY J. REED
JAL – JOHN A. LENT	JBK – JEREMY B. KINNEY	JDH – JUSTIN D. HESSON
JKT – JANE K. THOMPSON	JLL – JOHN L. LENT	JWR – JOHN W. RICHARDS
JWS – JACK W. SHEAVES	JYH – JI Y. HU	KEB – KATIE E. BARNES
KHR – KIM H. RHODES	KRA – KATHY R. ALBERTSON	LKN – LINDA K. NEDEFF
LSB – LESLIE S. BUCINA	MDA – MIKE D. ALBERTSON	MDC – MIKE D. COCHRAN
MES – MARY E. SCHILLING	MMB – MAREN M. BEERY	MRT – MICHELLE R. TAYLOR
MSW – MATT S. WILSON	PDM – PIERCE D. MORRIS	PWD – PAUL W. DENT
RAH – ROY A. HALSTEAD	RB – BOB BUCHANAN	REK – BOB E. KYER
RLK – ROBIN L. KLINGER	RWC – RODNEY W. CAMPBELL	SLM – STEPHANIE L. MOSSBURG
SLP – SHERI L. PFALZGRAF	TIP – TAE I. PARRISH	TMB – TIFFANY M. BAILEY
TMM – TAMMY M. MORRIS	VC – VICKI COLLIER	WJB – WILL J. BEASLEY
WTD – WADE T. DELONG		

Microbac Laboratories Inc.
List of Valid Qualifiers
March 29, 2011

Qualkey: DOD

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	The reported result is associated with a contaminated method blank.
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	The BOD unseeded dilution water blank exceeded 0.2 mg/L
C	Confirmed by GC/MS
CG	Confluent growth
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration; sample matrix interference.
J	Estimated value ; the analyte concentration was greater than the highest standard
J	Estimated value ; the analyte concentration was less than the low standard (LOQ)
J	The reported result is an estimated value.
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Nontarget analyte; the analyte is a tentativlely identified compound (TIC) by GC/MS
NA	Not applicable
ND	Not detected at or above the reporting limit (RL).
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Analyte was not detected. The concentration is below the reported LOD.
UJ	Undetected; the analyte was analyzed for, but not detected.
UQ	Undetected; the analyte was analyzed for, but not detected.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

*****Special Notes for Organic Analytes**

Qualkey: DOD

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound an are matrix dependent.

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www.ctlaboratories.com

Upon Receipt of Samples, please verify that samples were received in acceptable condition then sign this form and fax to (608)356-2766 or email to the project manager. **Sample temperature, upon receipt, must be recorded on this document unless thermal preservation is not a method requirement.**

Ship to: **Microbac**
158 Starlight Drive
Marietta, OH 45750

Return Invoice and Results to:

CT Laboratories
Pat Letterer
1230 Lange Court
Baraboo WI 53913
pletterer@ctlaboratories.com

Please analyze following GSM 4.1:

PURCHASE ORDER# 83966 MICROBAC ***The PO# must appear on all invoice and reports!***

Date Due: 2 week TAT

RUSH TURNAROUND NEEDED? Y or (N) (Circle One)

Report results as EDD? N (2) (Circle one and indicate type: ADR 4.1 + A-3) **Data Deliverable Package LEVEL:** level IV

PML 03-14-11

CTLabs ID#	Sample Date/Time	Matrix	Sample Description	Analyses / Method		Cost
898909	3/8/2011 1010	SOIL	DL2SS-001M-0001-SO	PESTICIDES 8081	SW8081	
898916	3/8/2011 1010	SOIL	DL2SS-001M-0002-SO	PESTICIDES	SW8081	

Relinquished by: Todd Sickerstad **Date/Time:** 3/15/11 11:50

Received by: _____ **Date/Time:** _____

Microbac OVD
Received: 03/16/2011 11:54
By: BRENDA GREENWALT
221000013204
Brenda Greenwalt

COMMENTS:

REPORT ALL SOLIDS ON A DRY WEIGHT BASIS UNLESS OTHERWISE INDICATED

COOLER INSPECTION

Received: 03/22/2011 10:56
Delivery Method: FedEx
Opened By: Robin Klinger
Comments:

Login(s): L11030723|

Cooler(s)

Cooler #	Temp Gun	Temp	Tracking #	COC #	Comments
0015711	H	0.0	345750811100000297549580363420 17	1103109 1103117 1103133	

1	Yes	Were shipping coolers sealed?
2	Yes	Were custody seals intact?
3	Yes	Were cooler temperatures in range of 0-6?
4	Yes	Was ice present?
5	Yes	Were COC's received/information complete/signed and dated?
6	Yes	Were sample containers and labels intact and match COC?
7	Yes	Were the correct containers and volumes received?
8	Yes	Were samples received within EPA hold times?
9	Yes	Were correct perservatives used? (water only)
10	NA	Were pH ranges acceptable? (voa's excluded)
11	Yes	Were VOA samples free of headspace (less than 6mm)?

Discrepancies:

Microbac - Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750
Tel: (740)373-4071 Fax: (740)373-4835

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11030544
Account: 2694
Project: 2694.005
Samples: 2
Due Date: 25-MAR-2011

Samplenum	Container ID	Products
L11030544-01	808284	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	16-MAR-2011 15:16	JKT	
2	PREP	W1	EXT	18-MAR-2011 06:49	CEB	AZH
3	STORE	EXT	W1	18-MAR-2011 10:39	JKT	CEB
4	ANALYZ	W1	WET	22-MAR-2011 08:44	JDH	RLK
5	STORE	WET	W1	24-MAR-2011 08:17	JDH	JDH

Samplenum	Container ID	Products
L11030544-02	808285	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	16-MAR-2011 15:16	JKT	
2	PREP	W1	EXT	18-MAR-2011 06:49	CEB	AZH
3	STORE	EXT	W1	18-MAR-2011 10:39	JKT	CEB
4	ANALYZ	W1	WET	22-MAR-2011 08:44	JDH	RLK
5	STORE	WET	W1	24-MAR-2011 08:17	JDH	JDH

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

NELAP Addendum - March 4, 2011

Non-NELAP LIMS Product and Description

The following is a list of those tests that are not included in the Microbac – OVL NELAP Scope of Accreditation:

Heat of Combustion (BTU)
Total Halide by Bomb Combustion (TX)
Particle Sizing - 200 Mesh (PS200)
Sulfate (SO4) - 9038
Specific Gravity/Density (SPGRAV)
Total Residual Chlorine (CL-TRL)
Total Volatile Solids (all forms) (TVS)
Total Coliform Bacteria (all methods)
Fecal Coliform Bacteria (all methods)
Sulfite (SO3)
Thiodiglycol (TDG-LCMS)

NELAP Accreditation by Laboratory SOP

NONPOTABLE WATER

OVL HPLC02/HPLC-UV

Nitroglycerin
Nitroguanidine
Acetic acid
Butyric acid
Lactic acid
Propionic acid
Pyruvic acid

OVL KNITRO-C-WUV-VIS

Nitrocellulose

OVL MSS01/GC-MS

1,4-Phenylenediamine
1-Methylnaphthalene
1,4-Dioxane
Atrazine
Benzaldehyde
Biphenyl
Caprolactam
Hexamethylphosphoramide (HMPA)
Pentachlorobenzene
Pentachloroethane

NELAP Accreditation by Laboratory SOP

NONPOTABLE WATER

OVL MSV0I/GC-MS

1, 1, 2-Trichloro-1,2,2-trifluoroethane
1,3-Butadiene
Cyclohexane
Cyclohexanone
Dimethyl disulfide
Dimethylsulfide
Ethyl-t-butylether (ETBE)
Isoprene
Methylacetate
Methylcyclohexane
T-amylmethylether (TAME)
Tetrahydrofuran (THF)

OVL RSKOI/GC-FID

Isobutane
n-Butane
Propane
Propylene
Propyne

OVL HPLC07/HPLC-MS-MS

Hexamethylphosphoramide (XMPA-LCMS)

SOLID AND HAZARDOUS CHEMICALS

OVL HPLCOS-HPLC-UV

Nitroguanidine

OVL KNITRO-C-S/UV-VIS

Nitrocellulose

OVL MSS0I/GC-MS

1-Methylnaphthalene
Benzaldehyde
Biphenyl
Caprolactam
Pentachloroethane

NELAP Accreditation by Laboratory SOP

SOLID AND HAZARDOUS CHEMICALS

OVL MSV0I/GC-MS

1.3-Butadiene
Cyclohexane
Cyclohexanone
Dimethyl disulfide
Dimethylsulfide
Ethyl-t-butylether (ETBE)
Isoprene
Methylacetate
Methylcyclohexane
n-Hexane
T-amylmethylether (TAME)

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QC SUMMARY REPORT

USACE - LOUISVILLE **Project Name: RAVENNA - GROUP 2 ORE**

SDG #: 0 **Folder #: 83966** **Project Number: W912QR-10-D-0024**

Duplicate

Analytical Run #:	73956	Analysis Date:	3/16/2011	Prep Batch #:		Matrix:	SOIL
CTLab #:	901492	Analysis Time:	17:00	Prep Date/Time:		Method:	SW8000C
Parent Sample #:	898909	Analyst:	KMB	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Solids, Percent	99.2	%	<N/A					0	8

Duplicate

Analytical Run #:	74052	Analysis Date:	3/22/2011	Prep Batch #:	36456	Matrix:	SOIL
CTLab #:	901967	Analysis Time:	13:00	Prep Date/Time:	03/21/2011 14:00	Method:	SW7196
Parent Sample #:	898909	Analyst:	EJC	Prep Analyst:	EJC		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Hexavalent Chromium	3.46	mg/kg	98					13	30

Lab Control Spike Soil

Analytical Run #:	74052	Analysis Date:	3/22/2011	Prep Batch #:	36456	Matrix:	SOLID
CTLab #:	901966	Analysis Time:	13:00	Prep Date/Time:	03/21/2011 14:00	Method:	SW7196
Parent Sample #:		Analyst:	EJC	Prep Analyst:	EJC		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Hexavalent Chromium	18.6	mg/kg			20.0	93	83 --- 115		

Method Blank Soil

Analytical Run #:	74052	Analysis Date:	3/22/2011	Prep Batch #:	36456	Matrix:	SOLID
CTLab #:	901965	Analysis Time:	13:00	Prep Date/Time:	03/21/2011 14:00	Method:	SW7196
Parent Sample #:		Analyst:	EJC	Prep Analyst:	EJC		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Hexavalent Chromium	2.6	mg/kg		U	0		5.0		

Matrix Spike Soil

Analytical Run #:	74052	Analysis Date:	3/22/2011	Prep Batch #:	36456	Matrix:	SOIL
CTLab #:	901968	Analysis Time:	13:00	Prep Date/Time:	03/21/2011 14:00	Method:	SW7196
Parent Sample #:	898909	Analyst:	EJC	Prep Analyst:	EJC		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Hexavalent Chromium	3.95	mg/kg	3.9		40.3	0	75 --- 125		

Matrix Spike Soil

Analytical Run #:	74052	Analysis Date:	3/22/2011	Prep Batch #:	36456	Matrix:	SOIL
CTLab #:	901969	Analysis Time:	13:00	Prep Date/Time:	03/21/2011 14:00	Method:	SW7196
Parent Sample #:	898909	Analyst:	EJC	Prep Analyst:	EJC		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Hexavalent Chromium	136	mg/kg	3.9		403	33	75 --- 125		

Lab Control Spike Soil

Analytical Run #:	74142	Analysis Date:	3/26/2011	Prep Batch #:	36468	Matrix:	SOLID
CTLab #:	902272	Analysis Time:	08:43	Prep Date/Time:	03/22/2011 09:00	Method:	SW9056M
Parent Sample #:		Analyst:	RLD	Prep Analyst:	BMS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrocellulose	392	mg/kg			500	78	70 --- 130		

Method Blank Soil

Analytical Run #:	74142	Analysis Date:	3/26/2011	Prep Batch #:	36468	Matrix:	SOLID
CTLab #:	902271	Analysis Time:	09:01	Prep Date/Time:	03/22/2011 09:00	Method:	SW9056M
Parent Sample #:		Analyst:	RLD	Prep Analyst:	BMS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrocellulose	13	mg/kg		U	0		50		

Matrix Spike Duplicate Soil

Analytical Run #:	74142	Analysis Date:	3/26/2011	Prep Batch #:	36468	Matrix:	SOIL
CTLab #:	902274	Analysis Time:	09:55	Prep Date/Time:	03/22/2011 09:00	Method:	SW9056M
Parent Sample #:	902273	Analyst:	RLD	Prep Analyst:	BMS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrocellulose	329	mg/kg	BDL		500	66	70 --- 130	2	20

Matrix Spike Soil

Analytical Run #:	74142	Analysis Date:	3/26/2011	Prep Batch #:	36468	Matrix:	SOIL
CTLab #:	902273	Analysis Time:	09:37	Prep Date/Time:	03/22/2011 09:00	Method:	SW9056M
Parent Sample #:	898909	Analyst:	RLD	Prep Analyst:	BMS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrocellulose	323	mg/kg	BDL		500	65	70 --- 130		

Duplicate

Analytical Run #:	73908	Analysis Date:	3/16/2011	Prep Batch #:	36396	Matrix:	SOIL
CTLab #:	900055	Analysis Time:	23:14	Prep Date/Time:	03/15/2011 10:00	Method:	SW6010
Parent Sample #:	898909	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	12600	mg/kg	501000.				9.6	0	20
Antimony	1.4	mg/kg	52.4				21.6	8	20
Arsenic	8.2	mg/kg	323.				36	1	20
Barium	121	mg/kg	4910.				1.92	2	20
Beryllium	0.45	mg/kg	17.3				0.96	4	20
Cadmium	0.19	mg/kg	9.21				1.68	19	20
Calcium	3320	mg/kg	133000.				36	1	20
Chromium	154	mg/kg	6180.				10	1	20
Cobalt	10.2	mg/kg	401.				3.92	1	20
Copper	431	mg/kg	1760				15.2	3	20
Iron	20100	mg/kg	81300				72	2	20
Lead	33.0	mg/kg	1280.				9.6	2	20
Magnesium	1580	mg/kg	63100.				28.8	1	20
Manganese	1540	mg/kg	3190				4.8	63	20
Nickel	12.1	mg/kg	476.				4.8	1	20
Selenium	0.0705	mg/kg	3.21	U			16.8	200	20
Silver	0.0171	mg/kg	BDL	U			8.8	0	20
Thallium	1.3	mg/kg	52.3				22.4	2	20
Vanadium	17.2	mg/kg	686.				5.6	0	20
Zinc	284	mg/kg	11600.				19.2	3	20

Lab Control Spike Soil

Analytical Run #:	73908	Analysis Date:	3/18/2011	Prep Batch #:	36396	Matrix:	SOLID
CTLab #:	900054	Analysis Time:	13:24	Prep Date/Time:	03/15/2011 10:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	108	mg/kg			100	108	80 --- 120		
Antimony	24.9	mg/kg			25.0	100	80 --- 120		
Arsenic	96.3	mg/kg			100	96	80 --- 120		
Barium	98.5	mg/kg			100	98	80 --- 120		
Beryllium	2.4	mg/kg			2.5	96	80 --- 120		
Cadmium	2.2	mg/kg			2.5	88	80 --- 120		
Calcium	5280	mg/kg			5000	106	80 --- 120		
Chromium	9.7	mg/kg			10.0	97	80 --- 120		
Cobalt	22.2	mg/kg			25.0	89	80 --- 120		
Copper	10.3	mg/kg			12.5	82	80 --- 120		
Iron	45.0	mg/kg			50.0	90	80 --- 120		
Lead	21.2	mg/kg			25.0	85	80 --- 120		
Magnesium	2450	mg/kg			2500	98	80 --- 120		
Manganese	21.8	mg/kg			25.0	87	80 --- 120		
Nickel	23.7	mg/kg			25.0	95	80 --- 120		
Selenium	94.5	mg/kg			100	94	80 --- 120		
Silver	2.5	mg/kg			2.5	100	75 --- 120		
Thallium	93.0	mg/kg			100	93	80 --- 120		
Vanadium	24.1	mg/kg			25.0	96	80 --- 120		
Zinc	22.7	mg/kg			25.0	91	80 --- 120		

Method Blank Soil

Analytical Run #:	73908	Analysis Date:	3/16/2011	Prep Batch #:	36396	Matrix:	SOLID
CTLab #:	900053	Analysis Time:	21:03	Prep Date/Time:	03/15/2011 10:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	0.45	mg/kg			0		0.12		
Antimony	0.08	mg/kg		U	0		0.27		
Arsenic	0.13	mg/kg		U	0		0.45		
Barium	0.014	mg/kg			0		0.024		
Beryllium	0.0079	mg/kg			0		0.012		
Cadmium	0.006	mg/kg		U	0		0.021		
Calcium	0.59	mg/kg			0		0.45		
Chromium	0.019	mg/kg		U	0		0.125		
Cobalt	0.015	mg/kg		U	0		0.049		
Copper	0.06	mg/kg		U	0		0.19		
Iron	1.1	mg/kg			0		0.9		
Lead	0.04	mg/kg		U	0		0.12		
Magnesium	0.32	mg/kg			0		0.36		
Manganese	0.048	mg/kg			0		0.06		
Nickel	0.018	mg/kg		U	0		0.060		
Selenium	0.07	mg/kg		U	0		0.21		
Silver	0.017	mg/kg		U	0		0.110		
Thallium	0.043	mg/kg			0		0.28		
Vanadium	0.011	mg/kg		U	0		0.070		
Zinc	0.04	mg/kg		U	0		0.24		

Matrix Spike Duplicate Soil

Analytical Run #:	73908	Analysis Date:	3/16/2011	Prep Batch #:	36396	Matrix:	SOIL
CTLab #:	900057	Analysis Time:	23:27	Prep Date/Time:	03/15/2011 10:00	Method:	SW6010
Parent Sample #:	900056	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	19300	mg/kg	12600		5140	130	80 --- 120	1	20
Antimony	3.7	mg/kg	1.3		25.2	10	80 --- 120	1	20
Arsenic	92.6	mg/kg	8.1		101	84	80 --- 120	0	20
Barium	211	mg/kg	124		101	86	80 --- 120	1	20
Beryllium	2.7	mg/kg	0.44		2.5	90	80 --- 120	1	20
Cadmium	1.9	mg/kg	0.23		2.5	67	80 --- 120	0	20
Calcium	7880	mg/kg	3350		5040	90	80 --- 120	1	20
Chromium	135	mg/kg	156		10.1	0	80 --- 120	4	20
Cobalt	15.3	mg/kg	10.1		25.2	21	80 --- 120	2	20
Copper	446	mg/kg	443		12.6	24	80 --- 120	4	20
Iron	22200	mg/kg	<3.02		5090	33	80 --- 120	1	20
Lead	52.1	mg/kg	32.2		25.2	79	80 --- 120	1	20
Magnesium	3730	mg/kg	1590		2520	85	80 --- 120	1	20
Manganese	1490	mg/kg	803		25.2	2726	80 --- 120	0	20
Nickel	32.2	mg/kg	12.0		25.2	80	80 --- 120	0	20
Selenium	74.3	mg/kg	0.081		101	73	80 --- 120	0	20
Silver	1.6	mg/kg	BDL		2.5	64	75 --- 120	2	20
Thallium	53.9	mg/kg	1.3		101	52	80 --- 120	1	20
Vanadium	36.8	mg/kg	17.3		25.2	77	80 --- 120	1	20
Zinc	277	mg/kg	292		25.2	0	80 --- 120	3	20

Matrix Spike Soil

Analytical Run #:	73908	Analysis Date:	3/16/2011	Prep Batch #:	36396	Matrix:	SOIL
CTLab #:	900056	Analysis Time:	23:20	Prep Date/Time:	03/15/2011 10:00	Method:	SW6010
Parent Sample #:	898909	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	19400	mg/kg	12600		5140	132	80 --- 120		
Antimony	3.7	mg/kg	1.3		25.2	10	80 --- 120		
Arsenic	92.6	mg/kg	8.1		101	84	80 --- 120		
Barium	214	mg/kg	124		101	89	80 --- 120		
Beryllium	2.7	mg/kg	0.44		2.5	90	80 --- 120		
Cadmium	1.9	mg/kg	0.23		2.5	67	80 --- 120		
Calcium	7960	mg/kg	3350		5040	91	80 --- 120		
Chromium	130	mg/kg	156		10.1	0	80 --- 120		
Cobalt	15.7	mg/kg	10.1		25.2	22	80 --- 120		
Copper	428	mg/kg	443		12.6	0	80 --- 120		
Iron	22500	mg/kg	<3.02		5090	39	80 --- 120		
Lead	51.6	mg/kg	32.2		25.2	77	80 --- 120		
Magnesium	3750	mg/kg	1590		2520	86	80 --- 120		
Manganese	1480	mg/kg	803		25.2	2687	80 --- 120		
Nickel	32.2	mg/kg	12.0		25.2	80	80 --- 120		
Selenium	74.3	mg/kg	0.081		101	73	80 --- 120		
Silver	1.7	mg/kg	BDL		2.5	68	75 --- 120		
Thallium	54.6	mg/kg	1.3		101	53	80 --- 120		
Vanadium	37.0	mg/kg	17.3		25.2	78	80 --- 120		
Zinc	284	mg/kg	292		25.2	0	80 --- 120		

Duplicate

Analytical Run #:	73909	Analysis Date:	3/21/2011	Prep Batch #:	36396	Matrix:	SOIL
CTLab #:	900055	Analysis Time:	13:51	Prep Date/Time:	03/15/2011 10:00	Method:	SW6010
Parent Sample #:	898909	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	982	mg/kg	39.6				5760	2	20

Duplicate

Analytical Run #:	73909	Analysis Date:	3/21/2011	Prep Batch #:	36396	Matrix:	SOIL
CTLab #:	900055	Analysis Time:	13:51	Prep Date/Time:	03/15/2011 10:00	Method:	SW6010
Parent Sample #:	898909	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	58.2	mg/kg	<4.03				2080	4	20

Lab Control Spike Soil

Analytical Run #:	73909	Analysis Date:	3/21/2011	Prep Batch #:	36396	Matrix:	SOLID
CTLab #:	900054	Analysis Time:	13:41	Prep Date/Time:	03/15/2011 10:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	2250	mg/kg			2500	90	80 --- 120		

Lab Control Spike Soil

Analytical Run #:	73909	Analysis Date:	3/21/2011	Prep Batch #:	36396	Matrix:	SOLID
CTLab #:	900054	Analysis Time:	13:41	Prep Date/Time:	03/15/2011 10:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	2470	mg/kg			2500	99	80 --- 120		

Method Blank Soil

Analytical Run #:	73909	Analysis Date:	3/21/2011	Prep Batch #:	36396	Matrix:	SOLID
CTLab #:	900053	Analysis Time:	13:44	Prep Date/Time:	03/15/2011 10:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	4	mg/kg		U	0		72		

Method Blank Soil

Analytical Run #:	73909	Analysis Date:	3/21/2011	Prep Batch #:	36396	Matrix:	SOLID
CTLab #:	900053	Analysis Time:	13:44	Prep Date/Time:	03/15/2011 10:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	4	mg/kg		U	0		26		

Matrix Spike Duplicate Soil

Analytical Run #:	73909	Analysis Date:	3/21/2011	Prep Batch #:	36396	Matrix:	SOIL
CTLab #:	900057	Analysis Time:	13:57	Prep Date/Time:	03/15/2011 10:00	Method:	SW6010
Parent Sample #:	900056	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	3350	mg/kg	997		2520	93	80 --- 120	1	20

Matrix Spike Duplicate Soil

Analytical Run #:	73909	Analysis Date:	3/21/2011	Prep Batch #:	36396	Matrix:	SOIL
CTLab #:	900057	Analysis Time:	13:57	Prep Date/Time:	03/15/2011 10:00	Method:	SW6010
Parent Sample #:	900056	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	2790	mg/kg	60.4		2520	108	80 --- 120	1	20

Matrix Spike Soil

Analytical Run #:	73909	Analysis Date:	3/21/2011	Prep Batch #:	36396	Matrix:	SOIL
CTLab #:	900056	Analysis Time:	13:54	Prep Date/Time:	03/15/2011 10:00	Method:	SW6010
Parent Sample #:	898909	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	3370	mg/kg	997		2520	94	80 --- 120		

Matrix Spike Soil

Analytical Run #:	73909	Analysis Date:	3/21/2011	Prep Batch #:	36396	Matrix:	SOIL
CTLab #:	900056	Analysis Time:	13:54	Prep Date/Time:	03/15/2011 10:00	Method:	SW6010
Parent Sample #:	898909	Analyst:	NAH	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	2770	mg/kg	60.4		2520	108	80 --- 120		

Duplicate

Analytical Run #:	74075	Analysis Date:	3/22/2011	Prep Batch #:	36461	Matrix:	SOIL
CTLab #:	902230	Analysis Time:	10:33	Prep Date/Time:	03/21/2011 14:25	Method:	
Parent Sample #:	898909	Analyst:	AMA	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.022	mg/kg	0.70				0.19	37	20

Lab Control Spike Soil

Analytical Run #:	74075	Analysis Date:	3/22/2011	Prep Batch #:	36461	Matrix:	SOLID
CTLab #:	901981	Analysis Time:	10:26	Prep Date/Time:	03/21/2011 14:25	Method:	
Parent Sample #:		Analyst:	AMA	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.080	mg/kg			0.083	96	80 --- 120		

Method Blank Soil

Analytical Run #:	74075	Analysis Date:	3/22/2011	Prep Batch #:	36461	Matrix:	SOLID
CTLab #:	901980	Analysis Time:	10:28	Prep Date/Time:	03/21/2011 14:25	Method:	
Parent Sample #:		Analyst:	AMA	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.0024	mg/kg		U	0		00395		

Matrix Spike Duplicate Soil

Analytical Run #:	74075	Analysis Date:	3/22/2011	Prep Batch #:	36461	Matrix:	SOIL
CTLab #:	902232	Analysis Time:	10:37	Prep Date/Time:	03/21/2011 14:25	Method:	
Parent Sample #:	902231	Analyst:	AMA	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.11	mg/kg	0.031		0.088	90	80 --- 120	21	20

Matrix Spike Soil

Analytical Run #:	74075	Analysis Date:	3/22/2011	Prep Batch #:	36461	Matrix:	SOIL
CTLab #:	902231	Analysis Time:	10:35	Prep Date/Time:	03/21/2011 14:25	Method:	
Parent Sample #:	898909	Analyst:	AMA	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.087	mg/kg	0.031		0.087	64	80 --- 120		

Lab Control Spike Soil

Analytical Run #:	73796	Analysis Date:	3/10/2011	Prep Batch #:	36363	Matrix:	SOLID
CTLab #:	899019	Analysis Time:	09:38	Prep Date/Time:	03/10/2011 08:30	Method:	SW8260B
Parent Sample #:		Analyst:	APG	Prep Analyst:	APG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	486	ug/kg			500	97	70 --- 135		20
1,1,2,2-Tetrachloroethane	439	ug/kg			500	88	55 --- 130		20
1,1,2-Trichloroethane	450	ug/kg			500	90	60 --- 125		20
1,1-Dichloroethane	472	ug/kg			500	94	75 --- 125		20
1,1-Dichloroethene	472	ug/kg			500	94	65 --- 135		20
1,2 Dichloroethane-d4	103	% Recovery			100	103	72 --- 117		
1,2-Dibromoethane	440	ug/kg			500	88	70 --- 125		20
1,2-Dichloroethane	470	ug/kg			500	94	70 --- 135		20
1,2-Dichloropropane	462	ug/kg			500	92	70 --- 120		20
2-Butanone	4310	ug/kg			5000	86	30 --- 160		20
2-Hexanone	4290	ug/kg			5000	86	45 --- 145		20
4-Methyl-2-pentanone	4440	ug/kg			5000	89	45 --- 145		20
Acetone	4470	ug/kg			5000	89	20 --- 160		20
Benzene	471	ug/kg			500	94	75 --- 125		20
Bromochloromethane	487	ug/kg			500	97	70 --- 125		20
Bromodichloromethane	463	ug/kg			500	93	70 --- 130		20
Bromofluorobenzene	100	% Recovery			100	100	85 --- 120		
Bromoform	439	ug/kg			500	88	55 --- 135		20
Bromomethane	506	ug/kg			500	101	30 --- 160		20
Carbon disulfide	940	ug/kg			1000	94	45 --- 160		20
Carbon tetrachloride	482	ug/kg			500	96	65 --- 135		20
Chlorobenzene	464	ug/kg			500	93	75 --- 125		20
Chloroethane	524	ug/kg			500	105	40 --- 155		20
Chloroform	471	ug/kg			500	94	70 --- 125		20
Chloromethane	483	ug/kg			500	97	50 --- 130		20
cis-1,2-Dichloroethene	479	ug/kg			500	96	65 --- 125		20
cis-1,3-Dichloropropene	461	ug/kg			500	92	70 --- 125		20
d8-Toluene	102	% Recovery			100	102	85 --- 115		
Dibromochloromethane	447	ug/kg			500	89	65 --- 130		20
Dibromofluoromethane	102	% Recovery			100	102	77 --- 119		
Ethylbenzene	469	ug/kg			500	94	75 --- 125		20
m & p-Xylene	926	ug/kg			1000	93	80 --- 125		20
Methylene chloride	483	ug/kg			500	97	55 --- 140		20
Naphthalene	427	ug/kg			500	85	40 --- 125		20
o-Xylene	457	ug/kg			500	91	75 --- 125		20
Styrene	449	ug/kg			500	90	75 --- 125		20
Tetrachloroethene	477	ug/kg			500	95	65 --- 140		20
Toluene	468	ug/kg			500	94	70 --- 125		20
trans-1,2-Dichloroethene	460	ug/kg			500	92	65 --- 135		20
trans-1,3-Dichloropropene	464	ug/kg			500	93	65 --- 125		20
Trichloroethene	471	ug/kg			500	94	75 --- 125		20
Trichlorofluoromethane	490	ug/kg			500	98	25 --- 185		20

Lab Control Spike Soil

Analytical Run #:	73796	Analysis Date:	3/10/2011	Prep Batch #:	36363	Matrix:	SOLID
CTLab #:	899019	Analysis Time:	09:38	Prep Date/Time:	03/10/2011 08:30	Method:	SW8260B
Parent Sample #:		Analyst:	APG	Prep Analyst:	APG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Vinyl chloride	473	ug/kg			500	95	65 --- 125		20

Method Blank Soil

Analytical Run #:	73796	Analysis Date:	3/10/2011	Prep Batch #:	36363	Matrix:	SOLID
CTLab #:	899018	Analysis Time:	10:16	Prep Date/Time:	03/10/2011 08:30	Method:	SW8260B
Parent Sample #:		Analyst:	APG	Prep Analyst:	APG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	10	ug/kg		U	0		25		
1,1,2,2-Tetrachloroethane	10	ug/kg		U	0		25		
1,1,2-Trichloroethane	10	ug/kg		U	0		25		
1,1-Dichloroethane	10	ug/kg		U	0		25		
1,1-Dichloroethene	10	ug/kg		U	0		25		
1,2 Dichloroethane-d4	100	% Recovery			100	100	72 --- 117		
1,2-Dibromoethane	10	ug/kg		U	0		25		
1,2-Dichloroethane	10	ug/kg		U	0		25		
1,2-Dichloropropane	10	ug/kg		U	0		25		
2-Butanone	10	ug/kg		U	0		250		
2-Hexanone	10	ug/kg		U	0		250		
4-Methyl-2-pentanone	10	ug/kg		U	0		250		
Acetone	10	ug/kg		U	0		500		
Benzene	10	ug/kg		U	0		25		
Bromochloromethane	10	ug/kg		U	0		25		
Bromodichloromethane	10	ug/kg		U	0		25		
Bromofluorobenzene	102	% Recovery			100	102	85 --- 120		
Bromoform	10	ug/kg		U	0		25		
Bromomethane	10	ug/kg		U	0		50		
Carbon disulfide	10	ug/kg		U	0		50		
Carbon tetrachloride	10	ug/kg		U	0		25		
Chlorobenzene	8	ug/kg		U	0		25		
Chloroethane	10	ug/kg		U	0		50		
Chloroform	10	ug/kg		U	0		25		
Chloromethane	10	ug/kg		U	0		50		
cis-1,2-Dichloroethene	10	ug/kg		U	0		25		
cis-1,3-Dichloropropene	10	ug/kg		U	0		25		
d8-Toluene	101	% Recovery			100	101	85 --- 115		
Dibromochloromethane	10	ug/kg		U	0		25		
Dibromofluoromethane	104	% Recovery			100	104	77 --- 119		
Ethylbenzene	8	ug/kg		U	0		25		
m & p-Xylene	10	ug/kg		U	0		50		
Methylene chloride	10	ug/kg		U	0		50		
Naphthalene	10	ug/kg		U	0		25		
o-Xylene	10	ug/kg		U	0		25		
Styrene	10	ug/kg		U	0		25		
Tetrachloroethene	10	ug/kg		U	0		25		
Toluene	10	ug/kg		U	0		25		
trans-1,2-Dichloroethene	10	ug/kg		U	0		25		
trans-1,3-Dichloropropene	10	ug/kg		U	0		50		
Trichloroethene	10	ug/kg		U	0		25		
Trichlorofluoromethane	10	ug/kg		U	0		50		

Method Blank Soil

Analytical Run #:	73796	Analysis Date:	3/10/2011	Prep Batch #:	36363	Matrix:	SOLID
CTLab #:	899018	Analysis Time:	10:16	Prep Date/Time:	03/10/2011 08:30	Method:	SW8260B
Parent Sample #:		Analyst:	APG	Prep Analyst:	APG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Vinyl chloride	10	ug/kg		U	0		25		

Matrix Spike Duplicate Soil

Analytical Run #:	73796	Analysis Date:	3/10/2011	Prep Batch #:	36363	Matrix:	SOIL
CTLab #:	899021	Analysis Time:	18:41	Prep Date/Time:	03/10/2011 08:30	Method:	SW8260B
Parent Sample #:	899020	Analyst:	APG	Prep Analyst:	APG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	402	ug/kg	BDL		417	96	70 --- 135	4	30
1,1,2,2-Tetrachloroethane	366	ug/kg	BDL		417	88	55 --- 130	9	30
1,1,2-Trichloroethane	387	ug/kg	BDL		417	93	60 --- 125	5	30
1,1-Dichloroethane	392	ug/kg	BDL		417	94	75 --- 125	6	30
1,1-Dichloroethene	400	ug/kg	BDL		417	96	65 --- 135	1	30
1,2 Dichloroethane-d4	97.0	% Recovery	BDL		100	97.0	72 --- 117		
1,2-Dibromoethane	377	ug/kg	BDL		417	90	70 --- 125	8	30
1,2-Dichloroethane	399	ug/kg	BDL		417	96	70 --- 135	5	30
1,2-Dichloropropane	395	ug/kg	BDL		417	95	70 --- 120	3	30
2-Butanone	3250	ug/kg	BDL		4170	78	30 --- 160	16	30
2-Hexanone	3470	ug/kg	BDL		4170	83	45 --- 145	15	30
4-Methyl-2-pentanone	3600	ug/kg	BDL		4170	86	20 --- 145	10	30
Acetone	3050	ug/kg	BDL		4170	73	20 --- 160	19	30
Benzene	398	ug/kg	BDL		417	95	75 --- 125	2	30
Bromochloromethane	407	ug/kg	BDL		417	98	70 --- 125	2	30
Bromodichloromethane	388	ug/kg	BDL		417	93	70 --- 130	5	30
Bromofluorobenzene	105	% Recovery	BDL		100	105	85 --- 120		
Bromoform	348	ug/kg	BDL		417	83	55 --- 135	11	30
Bromomethane	505	ug/kg	BDL		417	121	30 --- 160	0	30
Carbon disulfide	791	ug/kg	BDL		835	95	45 --- 160	4	30
Carbon tetrachloride	410	ug/kg	BDL		417	98	65 --- 135	2	30
Chlorobenzene	393	ug/kg	BDL		417	94	75 --- 125	6	30
Chloroethane	1650	ug/kg	BDL		417	396	40 --- 155	71	30
Chloroform	394	ug/kg	BDL		417	94	70 --- 125	5	30
Chloromethane	396	ug/kg	BDL		417	95	50 --- 130	5	30
cis-1,2-Dichloroethene	397	ug/kg	BDL		417	95	65 --- 125	2	30
cis-1,3-Dichloropropene	380	ug/kg	BDL		417	91	70 --- 125	7	30
d8-Toluene	102	% Recovery	BDL		100	102	85 --- 115		
Dibromochloromethane	377	ug/kg	BDL		417	90	65 --- 130	5	30
Dibromofluoromethane	101	% Recovery	BDL		100	101	77 --- 119		
Ethylbenzene	398	ug/kg	BDL		417	95	75 --- 125	6	30
m & p-Xylene	782	ug/kg	BDL		835	94	80 --- 125	8	30
Methylene chloride	407	ug/kg	BDL		417	98	55 --- 140	2	30
Naphthalene	364	ug/kg	BDL		417	87	40 --- 125	9	30
o-Xylene	390	ug/kg	BDL		417	94	75 --- 125	9	30
Styrene	388	ug/kg	BDL		417	93	75 --- 125	8	30
Tetrachloroethene	394	ug/kg	BDL		417	94	65 --- 140	3	30
Toluene	394	ug/kg	BDL		417	94	70 --- 125	4	30
trans-1,2-Dichloroethene	393	ug/kg	BDL		417	94	65 --- 135	2	30
trans-1,3-Dichloropropene	376	ug/kg	BDL		417	90	65 --- 125	6	30
Trichloroethene	409	ug/kg	BDL		417	98	75 --- 125	2	30
Trichlorofluoromethane	416	ug/kg	BDL		417	100	25 --- 185	1	30

Matrix Spike Duplicate Soil

Analytical Run #:	73796	Analysis Date:	3/10/2011	Prep Batch #:	36363	Matrix:	SOIL
CTLab #:	899021	Analysis Time:	18:41	Prep Date/Time:	03/10/2011 08:30	Method:	SW8260B
Parent Sample #:	899020	Analyst:	APG	Prep Analyst:	APG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Vinyl chloride	401	ug/kg	BDL		417	96	60 --- 125	5	30

Matrix Spike Soil

Analytical Run #:	73796	Analysis Date:	3/10/2011	Prep Batch #:	36363	Matrix:	SOIL
CTLab #:	899020	Analysis Time:	18:03	Prep Date/Time:	03/10/2011 08:30	Method:	SW8260B
Parent Sample #:	898919	Analyst:	APG	Prep Analyst:	APG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	458	ug/kg	BDL		458	100	70 --- 135		
1,1,2,2-Tetrachloroethane	437	ug/kg	BDL		458	95	55 --- 130		
1,1,2-Trichloroethane	447	ug/kg	BDL		458	98	60 --- 125		
1,1-Dichloroethane	455	ug/kg	BDL		458	99	75 --- 125		
1,1-Dichloroethene	443	ug/kg	BDL		458	97	65 --- 135		
1,2 Dichloroethane-d4	95.0	% Recovery	BDL		100	95.0	72 --- 117		
1,2-Dibromoethane	449	ug/kg	BDL		458	98	70 --- 125		
1,2-Dichloroethane	458	ug/kg	BDL		458	100	70 --- 135		
1,2-Dichloropropane	447	ug/kg	BDL		458	98	70 --- 120		
2-Butanone	4160	ug/kg	BDL		4580	91	30 --- 160		
2-Hexanone	4410	ug/kg	BDL		4580	96	45 --- 145		
4-Methyl-2-pentanone	4370	ug/kg	BDL		4580	95	20 --- 145		
Acetone	4060	ug/kg	BDL		4580	89	20 --- 160		
Benzene	448	ug/kg	BDL		458	98	75 --- 125		
Bromochloromethane	456	ug/kg	BDL		458	100	70 --- 125		
Bromodichloromethane	446	ug/kg	BDL		458	97	70 --- 130		
Bromofluorobenzene	101	% Recovery	BDL		100	101	85 --- 120		
Bromoform	428	ug/kg	BDL		458	93	55 --- 135		
Bromomethane	553	ug/kg	BDL		458	121	30 --- 160		
Carbon disulfide	899	ug/kg	BDL		916	98	45 --- 160		
Carbon tetrachloride	457	ug/kg	BDL		458	100	65 --- 135		
Chlorobenzene	456	ug/kg	BDL		458	100	75 --- 125		
Chloroethane	863	ug/kg	BDL		458	188	40 --- 155		
Chloroform	452	ug/kg	BDL		458	99	70 --- 125		
Chloromethane	454	ug/kg	BDL		458	99	50 --- 130		
cis-1,2-Dichloroethene	447	ug/kg	BDL		458	98	65 --- 125		
cis-1,3-Dichloropropene	447	ug/kg	BDL		458	98	70 --- 125		
d8-Toluene	99.0	% Recovery	BDL		100	99.0	85 --- 115		
Dibromochloromethane	436	ug/kg	BDL		458	95	65 --- 130		
Dibromofluoromethane	99.0	% Recovery	BDL		100	99.0	77 --- 119		
Ethylbenzene	462	ug/kg	BDL		458	101	75 --- 125		
m & p-Xylene	932	ug/kg	BDL		916	102	80 --- 125		
Methylene chloride	454	ug/kg	BDL		458	99	55 --- 140		
Naphthalene	434	ug/kg	BDL		458	95	40 --- 125		
o-Xylene	466	ug/kg	BDL		458	102	75 --- 125		
Styrene	460	ug/kg	BDL		458	100	75 --- 125		
Tetrachloroethene	447	ug/kg	BDL		458	98	65 --- 140		
Toluene	451	ug/kg	BDL		458	98	70 --- 125		
trans-1,2-Dichloroethene	441	ug/kg	BDL		458	96	65 --- 135		
trans-1,3-Dichloropropene	439	ug/kg	BDL		458	96	65 --- 125		
Trichloroethene	458	ug/kg	BDL		458	100	75 --- 125		
Trichlorofluoromethane	460	ug/kg	BDL		458	100	25 --- 185		

Matrix Spike Soil

Analytical Run #:	73796	Analysis Date:	3/10/2011	Prep Batch #:	36363	Matrix:	SOIL
CTLab #:	899020	Analysis Time:	18:03	Prep Date/Time:	03/10/2011 08:30	Method:	SW8260B
Parent Sample #:	898919	Analyst:	APG	Prep Analyst:	APG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Vinyl chloride	461	ug/kg	BDL		458	101	60 --- 125		

Lab Control Spike Soil

Analytical Run #:	74050	Analysis Date:	3/21/2011	Prep Batch #:	36415	Matrix:	SOLID
CTLab #:	900705	Analysis Time:	14:12	Prep Date/Time:	03/18/2011 11:00	Method:	SW8082
Parent Sample #:		Analyst:	JJY	Prep Analyst:	hhk		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	603	ug/kg			500	121	40 --- 140		30
Aroclor-1260	599	ug/kg			500	120	60 --- 130		30
Surr: DCBP	123	% Recovery			100	123	60 --- 125		30

Method Blank Soil

Analytical Run #:	74050	Analysis Date:	3/21/2011	Prep Batch #:	36415	Matrix:	SOLID
CTLab #:	900704	Analysis Time:	13:57	Prep Date/Time:	03/18/2011 11:00	Method:	SW8082
Parent Sample #:		Analyst:	JJY	Prep Analyst:	hhk		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	21	ug/kg		U	0		50		
Aroclor-1221	21	ug/kg		U	0		50		
Aroclor-1232	21	ug/kg		U	0		50		
Aroclor-1242	21	ug/kg		U	0		50		
Aroclor-1248	21	ug/kg		U	0		50		
Aroclor-1254	21	ug/kg		U	0		50		
Aroclor-1260	21	ug/kg		U	0		50		
Aroclor-1262	21	ug/kg		U	0		50		
Aroclor-1268	21	ug/kg		U	0		50		
Surr: DCBP	109	% Recovery			100	109	60 --- 125		

Matrix Spike Duplicate Soil

Analytical Run #:	74050	Analysis Date:	3/21/2011	Prep Batch #:	36415	Matrix:	SOIL
CTLab #:	900703	Analysis Time:	15:31	Prep Date/Time:	03/18/2011 11:00	Method:	SW8082
Parent Sample #:	900702	Analyst:	JJY	Prep Analyst:	hhk		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	586	ug/kg	BDL		500	117	40 --- 140	18	30
Aroclor-1260	585	ug/kg	BDL		500	117	60 --- 130	17	30
Surr: DCBP	112	% Recovery	BDL		100	112	60 --- 125		

Matrix Spike Soil

Analytical Run #:	74050	Analysis Date:	3/21/2011	Prep Batch #:	36415	Matrix:	SOIL
CTLab #:	900702	Analysis Time:	15:15	Prep Date/Time:	03/18/2011 11:00	Method:	SW8082
Parent Sample #:	898909	Analyst:	JJY	Prep Analyst:	hhk		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	488	ug/kg	BDL		501	97	40 --- 140		
Aroclor-1260	493	ug/kg	BDL		501	98	60 --- 130		
Surr: DCBP	86.5	% Recovery	BDL		100	86.5	60 --- 125		

Lab Control Spike Soil

Analytical Run #:	74114	Analysis Date:	3/23/2011	Prep Batch #:	36416	Matrix:	SOLID
CTLab #:	900710	Analysis Time:	14:21	Prep Date/Time:	03/21/2011 10:30	Method:	SW8270
Parent Sample #:		Analyst:	RPN	Prep Analyst:	hhk		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	1460	ug/kg			2000	73	45 --- 110		30
1,2-Dichlorobenzene	1470	ug/kg			2000	74	45 --- 95		30
1,3-Dichlorobenzene	1400	ug/kg			2000	70	40 --- 100		30
1,4-Dichlorobenzene	1410	ug/kg			2000	70	35 --- 105		30
1-Methylnaphthalene	1400	ug/kg			2000	70	50 --- 150		30
2,4,5-Trichlorophenol	1450	ug/kg			2000	72	50 --- 110		30
2,4,6-Trichlorophenol	1530	ug/kg			2000	76	45 --- 110		30
2,4-Dichlorophenol	1520	ug/kg			2000	76	45 --- 110		30
2,4-Dimethylphenol	1320	ug/kg			2000	66	30 --- 105		30
2,4-Dinitrophenol	1090	ug/kg			2000	54	15 --- 130		30
2,4-Dinitrotoluene	1460	ug/kg			2000	73	50 --- 115		30
2,6-Dichlorophenol	1600	ug/kg			2000	80	48 --- 126		30
2,6-Dinitrotoluene	1510	ug/kg			2000	76	50 --- 110		30
2-Chloronaphthalene	1440	ug/kg			2000	72	45 --- 105		30
2-Chlorophenol	1420	ug/kg			2000	71	45 --- 105		30
2-Methylnaphthalene	1400	ug/kg			2000	70	45 --- 105		30
2-Methylphenol	1390	ug/kg			2000	70	40 --- 105		30
2-Nitroaniline	1400	ug/kg			2000	70	45 --- 120		30
2-Nitrophenol	1540	ug/kg			2000	77	40 --- 110		30
3 & 4-Methylphenol	1520	ug/kg			2000	76	40 --- 105		30
3,3'-Dichlorobenzidine	1130	ug/kg			2000	56	10 --- 130		30
3-Nitroaniline	1070	ug/kg			2000	54	25 --- 110		30
4,6-Dinitro-2-methylphenol	1490	ug/kg			2000	74	30 --- 135		30
4-Bromophenyl-phenyl ether	1570	ug/kg			2000	78	45 --- 115		30
4-Chloro-3-methylphenol	1470	ug/kg			2000	74	45 --- 115		30
4-Chloroaniline	747	ug/kg			2000	37	10 --- 95		30
4-Chlorophenyl-phenyl ether	1450	ug/kg			2000	72	45 --- 110		30
4-Nitroaniline	1410	ug/kg			2000	70	35 --- 115		30
4-Nitrophenol	1300	ug/kg			2000	65	15 --- 140		30
Acenaphthene	1400	ug/kg			2000	70	45 --- 110		30
Acenaphthylene	1450	ug/kg			2000	72	45 --- 105		30
Acetophenone	1510	ug/kg			2000	76	48 --- 126		30
Aniline	894	ug/kg			2000	45	14 --- 110		30
Anthracene	1460	ug/kg			2000	73	55 --- 105		30
Azobenzene & 1,2-Diphenylhydra	2840	ug/kg			4000	71	55 --- 115		30
Benzidine	349	ug/kg			2000	17	1 --- 161		30
Benzo(a)anthracene	1410	ug/kg			2000	70	50 --- 110		30
Benzo(a)pyrene	1420	ug/kg			2000	71	50 --- 110		30
Benzo(b)fluoranthene	1460	ug/kg			2000	73	45 --- 115		30
Benzo(g,h,i)perylene	1280	ug/kg			2000	64	40 --- 125		30
Benzo(k)fluoranthene	1500	ug/kg			2000	75	45 --- 125		30
Benzoic acid	793	ug/kg			2000	40	0 --- 110		30

Lab Control Spike Soil

Analytical Run #:	74114	Analysis Date:	3/23/2011	Prep Batch #:	36416	Matrix:	SOLID
CTLab #:	900710	Analysis Time:	14:21	Prep Date/Time:	03/21/2011 10:30	Method:	SW8270
Parent Sample #:		Analyst:	RPN	Prep Analyst:	hhk		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Benzyl alcohol	1570	ug/kg			2000	78	20 --- 125		30
Bis(2-chloroethoxy)methane	1460	ug/kg			2000	73	45 --- 110		30
Bis(2-chloroethyl)ether	1410	ug/kg			2000	70	40 --- 105		30
Bis(2-chloroisopropyl)ether	1440	ug/kg			2000	72	20 --- 115		30
Bis(2-ethylhexyl)phthalate	1600	ug/kg			2000	80	45 --- 125		30
Butylbenzylphthalate	1550	ug/kg			2000	78	50 --- 125		30
Carbazole	1520	ug/kg			2000	76	45 --- 115		30
Chrysene	1420	ug/kg			2000	71	55 --- 110		30
Di-n-butylphthalate	1580	ug/kg			2000	79	55 --- 110		30
Di-n-octylphthalate	1510	ug/kg			2000	76	40 --- 130		30
Dibenzo(a,h)anthracene	1340	ug/kg			2000	67	40 --- 125		30
Dibenzofuran	1410	ug/kg			2000	70	50 --- 105		30
Diethylphthalate	1470	ug/kg			2000	74	50 --- 115		30
Dimethylphthalate	1490	ug/kg			2000	74	50 --- 110		30
Fluoranthene	1590	ug/kg			2000	80	55 --- 115		30
Fluorene	1460	ug/kg			2000	73	50 --- 110		30
Hexachlorobenzene	1470	ug/kg			2000	74	45 --- 120		30
Hexachlorobutadiene	1460	ug/kg			2000	73	40 --- 115		30
Hexachlorocyclopentadiene	1280	ug/kg			2000	64	30 --- 137		30
Hexachloroethane	1410	ug/kg			2000	70	35 --- 110		30
Indeno(1,2,3-cd)pyrene	1290	ug/kg			2000	64	40 --- 120		30
Isophorone	1400	ug/kg			2000	70	45 --- 110		30
N-Nitroso-di-n-propylamine	1400	ug/kg			2000	70	40 --- 115		30
N-Nitrosodimethylamine	1410	ug/kg			2000	70	20 --- 115		30
N-Nitrosodiphenylamine & Diphn	2990	ug/kg			4000	75	50 --- 115		30
N-Nitrosopyrrolidine	1560	ug/kg			2000	78	59 --- 110		30
Naphthalene	1430	ug/kg			2000	72	40 --- 105		30
Nitrobenzene	1410	ug/kg			2000	70	40 --- 115		30
Pentachlorophenol	995	ug/kg			2000	50	25 --- 120		30
Phenanthrene	1440	ug/kg			2000	72	50 --- 110		30
Phenol	1380	ug/kg			2000	69	40 --- 100		30
Pyrene	1510	ug/kg			2000	76	45 --- 125		30
Pyridine	15.0	ug/kg			2000	1	16 --- 121		30
Surr: 2,4,6-Tribromophenol	78.3	% Recovery			100	78.3	35 --- 125		
Surr: 2-Fluorobiphenyl	74.2	% Recovery			100	74.2	45 --- 105		
Surr: 2-Fluorophenol	69.2	% Recovery			100	69.2	35 --- 105		
Surr: Nitrobenzene-d5	70.2	% Recovery			100	70.2	35 --- 100		
Surr: Phenol-d5	73.8	% Recovery			100	73.8	40 --- 100		
Surr: Terphenyl-d14	76.3	% Recovery			100	76.3	30 --- 125		

Method Blank Soil

Analytical Run #:	74114	Analysis Date:	3/23/2011	Prep Batch #:	36416	Matrix:	SOLID
CTLab #:	900709	Analysis Time:	14:03	Prep Date/Time:	03/21/2011 10:30	Method:	SW8270
Parent Sample #:		Analyst:	RPN	Prep Analyst:	hhk		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	30	ug/kg		U	0		200		
1,2-Dichlorobenzene	30	ug/kg		U	0		200		
1,3-Dichlorobenzene	30	ug/kg		U	0		200		
1,4-Dichlorobenzene	30	ug/kg		U	0		200		
1-Methylnaphthalene	30	ug/kg		U	0		200		
2,4,5-Trichlorophenol	30	ug/kg		U	0		250		
2,4,6-Trichlorophenol	30	ug/kg		U	0		250		
2,4-Dichlorophenol	30	ug/kg		U	0		250		
2,4-Dimethylphenol	30	ug/kg		U	0		200		
2,4-Dinitrophenol	30	ug/kg		U	0		1000		
2,4-Dinitrotoluene	30	ug/kg		U	0		200		
2,6-Dichlorophenol	30	ug/kg		U	0		250		
2,6-Dinitrotoluene	30	ug/kg		U	0		200		
2-Chloronaphthalene	30	ug/kg		U	0		200		
2-Chlorophenol	30	ug/kg		U	0		250		
2-Methylnaphthalene	30	ug/kg		U	0		200		
2-Methylphenol	30	ug/kg		U	0		500		
2-Nitroaniline	30	ug/kg		U	0		200		
2-Nitrophenol	30	ug/kg		U	0		250		
3 & 4-Methylphenol	30	ug/kg		U	0		1000		
3,3'-Dichlorobenzidine	30	ug/kg		U	0		250		
3-Nitroaniline	30	ug/kg		U	0		500		
4,6-Dinitro-2-methylphenol	30	ug/kg		U	0		500		
4-Bromophenyl-phenyl ether	30	ug/kg		U	0		200		
4-Chloro-3-methylphenol	30	ug/kg		U	0		250		
4-Chloroaniline	30	ug/kg		U	0		200		
4-Chlorophenyl-phenyl ether	30	ug/kg		U	0		200		
4-Nitroaniline	30	ug/kg		U	0		200		
4-Nitrophenol	30	ug/kg		U	0		500		
Acenaphthene	30	ug/kg		U	0		200		
Acenaphthylene	30	ug/kg		U	0		200		
Acetophenone	30	ug/kg		U	0		200		
Aniline	30	ug/kg		U	0		200		
Anthracene	30	ug/kg		U	0		200		
Azobenzene & 1,2-Diphenylhydra	30	ug/kg		U	0		400		
Benzidine	30	ug/kg		U	0		1000		
Benzo(a)anthracene	30	ug/kg		U	0		200		
Benzo(a)pyrene	30	ug/kg		U	0		200		
Benzo(b)fluoranthene	30	ug/kg		U	0		200		
Benzo(g,h,i)perylene	30	ug/kg		U	0		200		
Benzo(k)fluoranthene	30	ug/kg		U	0		200		
Benzoic acid	30	ug/kg		U	0		291		

Method Blank Soil

Analytical Run #:	74114	Analysis Date:	3/23/2011	Prep Batch #:	36416	Matrix:	SOLID
CTLab #:	900709	Analysis Time:	14:03	Prep Date/Time:	03/21/2011 10:30	Method:	SW8270
Parent Sample #:		Analyst:	RPN	Prep Analyst:	hhk		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits			RPD	RPD Limit
Benzyl alcohol	30	ug/kg		U	0				500		
Bis(2-chloroethoxy)methane	30	ug/kg		U	0				200		
Bis(2-chloroethyl)ether	30	ug/kg		U	0				200		
Bis(2-chloroisopropyl)ether	30	ug/kg		U	0				200		
Bis(2-ethylhexyl)phthalate	30	ug/kg		U	0				500		
Butylbenzylphthalate	30	ug/kg		U	0				200		
Carbazole	30	ug/kg		U	0				200		
Chrysene	30	ug/kg		U	0				200		
Di-n-butylphthalate	79	ug/kg		U	0				200		
Di-n-octylphthalate	30	ug/kg		U	0				200		
Dibenzo(a,h)anthracene	30	ug/kg		U	0				200		
Dibenzofuran	30	ug/kg		U	0				200		
Diethylphthalate	64	ug/kg		U	0				200		
Dimethylphthalate	30	ug/kg		U	0				200		
Fluoranthene	30	ug/kg		U	0				200		
Fluorene	30	ug/kg		U	0				200		
Hexachlorobenzene	30	ug/kg		U	0				200		
Hexachlorobutadiene	30	ug/kg		U	0				200		
Hexachlorocyclopentadiene	30	ug/kg		U	0				200		
Hexachloroethane	30	ug/kg		U	0				200		
Indeno(1,2,3-cd)pyrene	30	ug/kg		U	0				200		
Isophorone	30	ug/kg		U	0				200		
N-Nitroso-di-n-propylamine	30	ug/kg		U	0				200		
N-Nitrosodimethylamine	30	ug/kg		U	0				200		
N-Nitrosodiphenylamine & Diphn	30	ug/kg		U	0				400		
N-Nitrosopyrrolidine	30	ug/kg		U	0				200		
Naphthalene	30	ug/kg		U	0				200		
Nitrobenzene	30	ug/kg		U	0				200		
Pentachlorophenol	30	ug/kg		U	0				500		
Phenanthrene	30	ug/kg		U	0				200		
Phenol	30	ug/kg		U	0				250		
Pyrene	30	ug/kg		U	0				200		
Pyridine	30	ug/kg		U	0				200		
Surr: 2,4,6-Tribromophenol	84.2	% Recovery			100	84.2	35	---	125		
Surr: 2-Fluorobiphenyl	77.7	% Recovery			100	77.7	45	---	105		
Surr: 2-Fluorophenol	67.6	% Recovery			100	67.6	35	---	105		
Surr: Nitrobenzene-d5	73.6	% Recovery			100	73.6	35	---	100		
Surr: Phenol-d5	75.9	% Recovery			100	75.9	40	---	100		
Surr: Terphenyl-d14	82.9	% Recovery			100	82.9	30	---	125		

Matrix Spike Duplicate Soil

Analytical Run #:	74114	Analysis Date:	3/23/2011	Prep Batch #:	36416	Matrix:	SOIL
CTLab #:	900708	Analysis Time:	18:16	Prep Date/Time:	03/21/2011 10:30	Method:	SW8270
Parent Sample #:	900707	Analyst:	RPN	Prep Analyst:	hhk		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	1390	ug/kg	BDL		2000	70	45 --- 110	8	30
1,2-Dichlorobenzene	1420	ug/kg	BDL		2000	71	45 --- 95	3	30
1,3-Dichlorobenzene	1340	ug/kg	BDL		2000	67	40 --- 100	2	30
1,4-Dichlorobenzene	1350	ug/kg	BDL		2000	68	35 --- 105	5	30
1-Methylnaphthalene	1320	ug/kg	BDL		2000	66	50 --- 150	6	30
2,4,5-Trichlorophenol	1360	ug/kg	BDL		2000	68	50 --- 110	11	30
2,4,6-Trichlorophenol	1330	ug/kg	BDL		2000	66	45 --- 110	28	30
2,4-Dichlorophenol	1390	ug/kg	BDL		2000	70	45 --- 110	7	30
2,4-Dimethylphenol	532	ug/kg	BDL		2000	27	30 --- 105	26	30
2,4-Dinitrophenol	39.0	ug/kg	BDL	U	2000	0	15 --- 130	0	30
2,4-Dinitrotoluene	1470	ug/kg	BDL		2000	74	50 --- 115	13	30
2,6-Dichlorophenol	1490	ug/kg	BDL		2000	74	48 --- 126	9	30
2,6-Dinitrotoluene	1450	ug/kg	BDL		2000	72	50 --- 110	11	30
2-Chloronaphthalene	1450	ug/kg	BDL		2000	72	45 --- 105	14	30
2-Chlorophenol	1290	ug/kg	BDL		2000	64	45 --- 105	11	30
2-Methylnaphthalene	1340	ug/kg	BDL		2000	67	45 --- 105	0	30
2-Methylphenol	1160	ug/kg	BDL		2000	58	40 --- 105	7	30
2-Nitroaniline	1260	ug/kg	BDL		2000	63	45 --- 120	12	30
2-Nitrophenol	1350	ug/kg	BDL		2000	68	40 --- 110	7	30
3 & 4-Methylphenol	1350	ug/kg	BDL		2000	68	40 --- 105	7	30
3,3'-Dichlorobenzidine	39.0	ug/kg	BDL	U	2000	0	10 --- 130	0	30
3-Nitroaniline	467	ug/kg	BDL		2000	23	25 --- 110	20	30
4,6-Dinitro-2-methylphenol	590	ug/kg	BDL		2000	30	30 --- 135	19	30
4-Bromophenyl-phenyl ether	1480	ug/kg	BDL		2000	74	45 --- 115	2	30
4-Chloro-3-methylphenol	1320	ug/kg	BDL		2000	66	45 --- 115	4	30
4-Chloroaniline	133	ug/kg	BDL		2000	7	10 --- 95	38	30
4-Chlorophenyl-phenyl ether	1420	ug/kg	BDL		2000	71	45 --- 110	11	30
4-Nitroaniline	764	ug/kg	BDL		2000	38	35 --- 115	7	30
4-Nitrophenol	1170	ug/kg	BDL		2000	58	15 --- 140	18	30
Acenaphthene	1330	ug/kg	BDL		2000	66	45 --- 110	13	30
Acenaphthylene	1340	ug/kg	BDL		2000	67	45 --- 105	11	30
Acetophenone	1410	ug/kg	BDL		2000	70	25 --- 96	2	30
Aniline	43.5	ug/kg	BDL		2000	2	14 --- 110	20	30
Anthracene	1400	ug/kg	BDL		2000	70	55 --- 105	4	30
Azobenzene & 1,2-Diphenylhydra	2890	ug/kg	BDL		4000	72	55 --- 115	4	30
Benzidine	39.0	ug/kg	BDL	U	2000	0	1 --- 161	0	30
Benzo(a)anthracene	1520	ug/kg	<73.1		2000	73	50 --- 110	5	30
Benzo(a)pyrene	1390	ug/kg	46		2000	67	50 --- 110	9	30
Benzo(b)fluoranthene	1400	ug/kg	86		2000	66	45 --- 115	12	30
Benzo(g,h,i)perylene	1340	ug/kg	40		2000	65	40 --- 125	8	30
Benzo(k)fluoranthene	1210	ug/kg	48		2000	58	45 --- 125	22	30
Benzoic acid	353	ug/kg	450		2000	0	0 --- 110	17	30

Matrix Spike Duplicate Soil

Analytical Run #:	74114	Analysis Date:	3/23/2011	Prep Batch #:	36416	Matrix:	SOIL
CTLab #:	900708	Analysis Time:	18:16	Prep Date/Time:	03/21/2011 10:30	Method:	SW8270
Parent Sample #:	900707	Analyst:	RPN	Prep Analyst:	hhk		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Benzyl alcohol	1340	ug/kg	BDL		2000	67	20 --- 125	6	30
Bis(2-chloroethoxy)methane	1340	ug/kg	BDL		2000	67	45 --- 110	7	30
Bis(2-chloroethyl)ether	1240	ug/kg	BDL		2000	62	40 --- 105	11	30
Bis(2-chloroisopropyl)ether	1310	ug/kg	BDL		2000	66	20 --- 115	7	30
Bis(2-ethylhexyl)phthalate	1650	ug/kg	<87.1		2000	77	45 --- 125	2	30
Butylbenzylphthalate	1520	ug/kg	BDL		2000	76	50 --- 125	5	30
Carbazole	1500	ug/kg	BDL		2000	75	45 --- 115	6	30
Chrysene	1460	ug/kg	74		2000	69	55 --- 110	6	30
Di-n-butylphthalate	1620	ug/kg	<79.1		2000	75	55 --- 110	3	30
Di-n-octylphthalate	1460	ug/kg	BDL		2000	73	40 --- 130	3	30
Dibenzo(a,h)anthracene	1410	ug/kg	BDL		2000	70	40 --- 125	7	30
Dibenzofuran	1380	ug/kg	BDL		2000	69	50 --- 105	11	30
Diethylphthalate	1450	ug/kg	BDL		2000	72	50 --- 115	10	30
Dimethylphthalate	1420	ug/kg	BDL		2000	71	50 --- 110	12	30
Fluoranthene	1830	ug/kg	<26.0		2000	84	55 --- 115	4	30
Fluorene	1440	ug/kg	BDL		2000	72	50 --- 110	12	30
Hexachlorobenzene	1480	ug/kg	BDL		2000	74	45 --- 120	3	30
Hexachlorobutadiene	1430	ug/kg	BDL		2000	72	40 --- 115	4	30
Hexachlorocyclopentadiene	634	ug/kg	BDL		2000	32	30 --- 137	38	30
Hexachloroethane	1320	ug/kg	BDL		2000	66	35 --- 110	2	30
Indeno(1,2,3-cd)pyrene	1400	ug/kg	39		2000	68	40 --- 120	7	30
Isophorone	1350	ug/kg	BDL		2000	68	45 --- 110	5	30
N-Nitroso-di-n-propylamine	1290	ug/kg	BDL		2000	64	40 --- 115	6	30
N-Nitrosodimethylamine	1310	ug/kg	BDL		2000	66	20 --- 115	5	30
N-Nitrosodiphenylamine & Diphn	2710	ug/kg	BDL		4000	68	50 --- 115	4	30
N-Nitrosopyrrolidine	1410	ug/kg	BDL		2000	70	59 --- 110	5	30
Naphthalene	1410	ug/kg	BDL		2000	70	40 --- 105	6	30
Nitrobenzene	1340	ug/kg	BDL		2000	67	40 --- 115	4	30
Pentachlorophenol	691	ug/kg	BDL		2000	35	25 --- 120	15	30
Phenanthrene	1560	ug/kg	76		2000	74	50 --- 110	5	30
Phenol	1260	ug/kg	BDL		2000	63	40 --- 100	5	30
Pyrene	1540	ug/kg	90		2000	72	45 --- 125	6	30
Pyridine	39.0	ug/kg	BDL	U	2000	0	16 --- 121	0	30
Surr: 2,4,6-Tribromophenol	59.3	% Recovery	BDL		100	59.3	35 --- 125		
Surr: 2-Fluorobiphenyl	70.4	% Recovery	BDL		100	70.4	45 --- 105		
Surr: 2-Fluorophenol	54.6	% Recovery	BDL		100	54.6	35 --- 105		
Surr: Nitrobenzene-d5	63.8	% Recovery	BDL		100	63.8	35 --- 100		
Surr: Phenol-d5	65.9	% Recovery	BDL		100	65.9	40 --- 100		
Surr: Terphenyl-d14	70.0	% Recovery	BDL		100	70.0	30 --- 125		

Matrix Spike Soil

Analytical Run #:	74114	Analysis Date:	3/23/2011	Prep Batch #:	36416	Matrix:	SOIL
CTLab #:	900707	Analysis Time:	17:58	Prep Date/Time:	03/21/2011 10:30	Method:	SW8270
Parent Sample #:	898909	Analyst:	RPN	Prep Analyst:	hhk		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	1510	ug/kg	BDL		2000	76	45 --- 110		
1,2-Dichlorobenzene	1450	ug/kg	BDL		2000	72	45 --- 95		
1,3-Dichlorobenzene	1370	ug/kg	BDL		2000	68	40 --- 100		
1,4-Dichlorobenzene	1420	ug/kg	BDL		2000	71	35 --- 105		
1-Methylnaphthalene	1400	ug/kg	BDL		2000	70	50 --- 150		
2,4,5-Trichlorophenol	1520	ug/kg	BDL		2000	76	50 --- 110		
2,4,6-Trichlorophenol	1760	ug/kg	BDL		2000	88	45 --- 110		
2,4-Dichlorophenol	1500	ug/kg	BDL		2000	75	45 --- 110		
2,4-Dimethylphenol	691	ug/kg	BDL		2000	35	30 --- 105		
2,4-Dinitrophenol	39.0	ug/kg	BDL	U	2000	0	15 --- 130		
2,4-Dinitrotoluene	1670	ug/kg	BDL		2000	84	50 --- 115		
2,6-Dichlorophenol	1630	ug/kg	BDL		2000	82	48 --- 126		
2,6-Dinitrotoluene	1610	ug/kg	BDL		2000	80	50 --- 110		
2-Chloronaphthalene	1660	ug/kg	BDL		2000	83	45 --- 105		
2-Chlorophenol	1430	ug/kg	BDL		2000	72	45 --- 105		
2-Methylnaphthalene	1340	ug/kg	BDL		2000	67	45 --- 105		
2-Methylphenol	1240	ug/kg	BDL		2000	62	40 --- 105		
2-Nitroaniline	1420	ug/kg	BDL		2000	71	45 --- 120		
2-Nitrophenol	1450	ug/kg	BDL		2000	72	40 --- 110		
3 & 4-Methylphenol	1450	ug/kg	BDL		2000	72	40 --- 105		
3,3'-Dichlorobenzidine	39.0	ug/kg	BDL	U	2000	0	10 --- 130		
3-Nitroaniline	569	ug/kg	BDL		2000	28	25 --- 110		
4,6-Dinitro-2-methylphenol	486	ug/kg	BDL		2000	24	30 --- 135		
4-Bromophenyl-phenyl ether	1520	ug/kg	BDL		2000	76	45 --- 115		
4-Chloro-3-methylphenol	1380	ug/kg	BDL		2000	69	45 --- 115		
4-Chloroaniline	194	ug/kg	BDL		2000	10	10 --- 95		
4-Chlorophenyl-phenyl ether	1580	ug/kg	BDL		2000	79	45 --- 110		
4-Nitroaniline	819	ug/kg	BDL		2000	41	35 --- 115		
4-Nitrophenol	1400	ug/kg	BDL		2000	70	15 --- 140		
Acenaphthene	1510	ug/kg	BDL		2000	76	45 --- 110		
Acenaphthylene	1510	ug/kg	BDL		2000	76	45 --- 105		
Acetophenone	1440	ug/kg	BDL		2000	72	25 --- 96		
Aniline	53.2	ug/kg	BDL		2000	3	14 --- 110		
Anthracene	1460	ug/kg	BDL		2000	73	55 --- 105		
Azobenzene & 1,2-Diphenylhydra	3000	ug/kg	BDL		4000	75	55 --- 115		
Benzidine	39.0	ug/kg	BDL	U	2000	0	1 --- 161		
Benzo(a)anthracene	1600	ug/kg	<63.0		2000	77	50 --- 110		
Benzo(a)pyrene	1510	ug/kg	<59.0		2000	73	50 --- 110		
Benzo(b)fluoranthene	1590	ug/kg	86		2000	75	45 --- 115		
Benzo(g,h,i)perylene	1450	ug/kg	40		2000	70	40 --- 125		
Benzo(k)fluoranthene	1510	ug/kg	<59.0		2000	73	45 --- 125		
Benzoic acid	418	ug/kg	450		2000	0	0 --- 110		

Matrix Spike Soil

Analytical Run #:	74114	Analysis Date:	3/23/2011	Prep Batch #:	36416	Matrix:	SOIL
CTLab #:	900707	Analysis Time:	17:58	Prep Date/Time:	03/21/2011 10:30	Method:	SW8270
Parent Sample #:	898909	Analyst:	RPN	Prep Analyst:	hhk		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Benzyl alcohol	1420	ug/kg	BDL		2000	71	20 --- 125		
Bis(2-chloroethoxy)methane	1430	ug/kg	BDL		2000	72	45 --- 110		
Bis(2-chloroethyl)ether	1380	ug/kg	BDL		2000	69	40 --- 105		
Bis(2-chloroisopropyl)ether	1400	ug/kg	BDL		2000	70	20 --- 115		
Bis(2-ethylhexyl)phthalate	1680	ug/kg	<87.0		2000	78	45 --- 125		
Butylbenzylphthalate	1590	ug/kg	BDL		2000	80	50 --- 125		
Carbazole	1590	ug/kg	BDL		2000	80	45 --- 115		
Chrysene	1550	ug/kg	74		2000	74	55 --- 110		
Di-n-butylphthalate	1660	ug/kg	<79.0		2000	77	55 --- 110		
Di-n-octylphthalate	1510	ug/kg	BDL		2000	76	40 --- 130		
Dibenzo(a,h)anthracene	1500	ug/kg	BDL		2000	75	40 --- 125		
Dibenzofuran	1540	ug/kg	BDL		2000	77	50 --- 105		
Diethylphthalate	1600	ug/kg	BDL		2000	80	50 --- 115		
Dimethylphthalate	1600	ug/kg	BDL		2000	80	50 --- 110		
Fluoranthene	1910	ug/kg	<26.0		2000	88	55 --- 115		
Fluorene	1620	ug/kg	BDL		2000	81	50 --- 110		
Hexachlorobenzene	1530	ug/kg	BDL		2000	76	45 --- 120		
Hexachlorobutadiene	1480	ug/kg	BDL		2000	74	40 --- 115		
Hexachlorocyclopentadiene	934	ug/kg	BDL		2000	47	30 --- 137		
Hexachloroethane	1350	ug/kg	BDL		2000	68	35 --- 110		
Indeno(1,2,3-cd)pyrene	1500	ug/kg	39		2000	73	40 --- 120		
Isophorone	1420	ug/kg	BDL		2000	71	45 --- 110		
N-Nitroso-di-n-propylamine	1370	ug/kg	BDL		2000	68	40 --- 115		
N-Nitrosodimethylamine	1380	ug/kg	BDL		2000	69	20 --- 115		
N-Nitrosodiphenylamine & Diphn	2810	ug/kg	BDL		4000	70	50 --- 115		
N-Nitrosopyrrolidine	1480	ug/kg	BDL		2000	74	59 --- 110		
Naphthalene	1500	ug/kg	BDL		2000	75	40 --- 105		
Nitrobenzene	1390	ug/kg	BDL		2000	70	40 --- 115		
Pentachlorophenol	595	ug/kg	BDL		2000	30	25 --- 120		
Phenanthrene	1640	ug/kg	76		2000	78	50 --- 110		
Phenol	1320	ug/kg	BDL		2000	66	40 --- 100		
Pyrene	1630	ug/kg	90		2000	77	45 --- 125		
Pyridine	39.0	ug/kg	BDL	U	2000	0	16 --- 121		
Surr: 2,4,6-Tribromophenol	79.4	% Recovery	BDL		100	79.4	35 --- 125		
Surr: 2-Fluorobiphenyl	85.0	% Recovery	BDL		100	85.0	45 --- 105		
Surr: 2-Fluorophenol	64.5	% Recovery	BDL		100	64.5	35 --- 105		
Surr: Nitrobenzene-d5	71.7	% Recovery	BDL		100	71.7	35 --- 100		
Surr: Phenol-d5	73.1	% Recovery	BDL		100	73.1	40 --- 100		
Surr: Terphenyl-d14	78.7	% Recovery	BDL		100	78.7	30 --- 125		

Lab Control Spike Soil

Analytical Run #:	74137	Analysis Date:	3/28/2011	Prep Batch #:	36464	Matrix:	SOLID
CTLab #:	902131	Analysis Time:	09:17	Prep Date/Time:	03/23/2011 14:30	Method:	SW8330B
Parent Sample #:		Analyst:		Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	92.6	% Recovery			100	92.6	50 --- 150		
Nitroguanidine	2.03	mg/kg			1.96	104	50 --- 150		30

Method Blank Soil

Analytical Run #:	74137	Analysis Date:	3/28/2011	Prep Batch #:	36464	Matrix:	SOLID
CTLab #:	902130	Analysis Time:	09:10	Prep Date/Time:	03/23/2011 14:30	Method:	SW8330B
Parent Sample #:		Analyst:		Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	96.2	% Recovery			100	96.2	50 --- 150		
Nitroguanidine	0.06	mg/kg		U	0		0.125		

Matrix Spike Duplicate Soil

Analytical Run #:	74137	Analysis Date:	3/28/2011	Prep Batch #:	36464	Matrix:	SOIL
CTLab #:	902134	Analysis Time:	09:41	Prep Date/Time:	03/23/2011 14:30	Method:	SW8330B
Parent Sample #:	902133	Analyst:		Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	106	% Recovery			100	106	50 --- 150		
Nitroguanidine	2.12	mg/kg	BDL		2.00	106	50 --- 150	4	30

Matrix Spike Soil

Analytical Run #:	74137	Analysis Date:	3/28/2011	Prep Batch #:	36464	Matrix:	SOIL
CTLab #:	902133	Analysis Time:	09:33	Prep Date/Time:	03/23/2011 14:30	Method:	SW8330B
Parent Sample #:	898909	Analyst:		Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	98.6	% Recovery			100	98.6	50 --- 150		
Nitroguanidine	2.02	mg/kg	BDL		1.98	102	50 --- 150		

Lab Control Spike Soil

Analytical Run #:	74138	Analysis Date:	3/25/2011	Prep Batch #:	36463	Matrix:	SOLID
CTLab #:	902127	Analysis Time:	14:45	Prep Date/Time:	03/23/2011 13:30	Method:	SW8330B
Parent Sample #:		Analyst:		Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	113	% Recovery			100	113	79 --- 120		
1,3,5-Trinitrobenzene	1.89	mg/kg			2.01	94	78 --- 121		
1,3-Dinitrobenzene	1.97	mg/kg			2.01	98	83 --- 115		
2,4,6-Trinitrotoluene	1.52	mg/kg			2.01	76	69 --- 129		
2,4-Dinitrotoluene	1.89	mg/kg			2.01	94	80 --- 118		
2,6-Dinitrotoluene	2.22	mg/kg			2.01	110	74 --- 122		
2-Amino-4,6-dinitrotoluene	1.82	mg/kg			2.01	91	75 --- 118		
2-Nitrotoluene	1.97	mg/kg			2.01	98	77 --- 118		
3,5-Dinitroaniline	1.67	mg/kg			2.01	83	10 --- 165		
3-Nitrotoluene	2.03	mg/kg			2.01	101	75 --- 118		
4-Amino-2,6-dinitrotoluene	1.63	mg/kg			2.01	81	75 --- 122		
4-Nitrotoluene	2.04	mg/kg			2.01	101	76 --- 118		
HMX	1.92	mg/kg			2.01	96	71 --- 120		
Nitrobenzene	2.06	mg/kg			2.01	102	82 --- 116		
Nitroglycerin	3.08	mg/kg			4.02	77	77 --- 123		
PETN	3.51	mg/kg			4.02	87	74 --- 123		
RDX	1.78	mg/kg			2.01	89	63 --- 125		
Tetryl	0.454	mg/kg			2.01	23	10 --- 165		

Method Blank Soil

Analytical Run #:	74138	Analysis Date:	3/25/2011	Prep Batch #:	36463	Matrix:	SOLID
CTLab #:	902126	Analysis Time:	14:27	Prep Date/Time:	03/23/2011 13:30	Method:	SW8330B
Parent Sample #:		Analyst:		Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	83.3	% Recovery			100	83.3	79 --- 120		
1,3,5-Trinitrobenzene	0.09	mg/kg		U	0		0.25		
1,3-Dinitrobenzene	0.09	mg/kg		U	0		0.20		
2,4,6-Trinitrotoluene	0.09	mg/kg		U	0		0.20		
2,4-Dinitrotoluene	0.09	mg/kg		U	0		0.25		
2,6-Dinitrotoluene	0.09	mg/kg		U	0		0.125		
2-Amino-4,6-dinitrotoluene	0.09	mg/kg		U	0		0.125		
2-Nitrotoluene	0.09	mg/kg		U	0		0.25		
3,5-Dinitroaniline	0.09	mg/kg		U	0		0.20		
3-Nitrotoluene	0.09	mg/kg		U	0		0.125		
4-Amino-2,6-dinitrotoluene	0.09	mg/kg		U	0		0.125		
4-Nitrotoluene	0.09	mg/kg		U	0		0.20		
HMX	0.09	mg/kg		U	0		0.20		
Nitrobenzene	0.09	mg/kg		U	0		0.125		
Nitroglycerin	0.09	mg/kg		U	0		1.0		
PETN	0.09	mg/kg		U	0		1.0		
RDX	0.09	mg/kg		U	0		0.25		
Tetryl	0.09	mg/kg		U	0		0.20		

Matrix Spike Duplicate Soil

Analytical Run #:	74138	Analysis Date:	3/25/2011	Prep Batch #:	36463	Matrix:	SOIL
CTLab #:	902129	Analysis Time:	15:39	Prep Date/Time:	03/23/2011 13:30	Method:	SW8330B
Parent Sample #:	902128	Analyst:		Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	91.4	% Recovery	BDL		100	91.4	75 --- 127		
1,3,5-Trinitrobenzene	1.52	mg/kg	BDL		2.00	76	72 --- 121	7	15
1,3-Dinitrobenzene	1.79	mg/kg	BDL		2.00	90	74 --- 120	7	20
2,4,6-Trinitrotoluene	1.54	mg/kg	BDL		2.00	77	56 --- 135	2	28
2,4-Dinitrotoluene	1.88	mg/kg	BDL		2.00	94	64 --- 131	13	51
2,6-Dinitrotoluene	1.67	mg/kg	BDL		2.00	84	63 --- 131	9	18
2-Amino-4,6-dinitrotoluene	1.50	mg/kg	BDL		2.00	75	71 --- 118	8	18
2-Nitrotoluene	1.61	mg/kg	BDL		2.00	80	78 --- 113	2	13
3,5-Dinitroaniline	1.42	mg/kg	BDL		2.00	71	50 --- 153	12	30
3-Nitrotoluene	1.63	mg/kg	BDL		2.00	82	74 --- 115	2	15
4-Amino-2,6-dinitrotoluene	1.49	mg/kg	BDL		2.00	74	72 --- 123	4	20
4-Nitrotoluene	1.48	mg/kg	BDL		2.00	74	74 --- 125	8	15
HMX	1.53	mg/kg	BDL		2.00	76	59 --- 133	10	27
Nitrobenzene	1.66	mg/kg	BDL		2.00	83	73 --- 120	0	19
Nitroglycerin	6.14	mg/kg	BDL		8.02	77	76 --- 130	21	18
PETN	6.11	mg/kg	BDL		8.02	76	74 --- 123	13	16
RDX	1.30	mg/kg	BDL		2.00	65	55 --- 120	11	30
Tetryl	1.09	mg/kg	BDL		2.00	54	30 --- 155	31	38

Matrix Spike Soil

Analytical Run #:	74138	Analysis Date:	3/25/2011	Prep Batch #:	36463	Matrix:	SOIL
CTLab #:	902128	Analysis Time:	15:21	Prep Date/Time:	03/23/2011 13:30	Method:	SW8330B
Parent Sample #:	898909	Analyst:		Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	99.7	% Recovery	BDL		100	99.7	75 --- 127		
1,3,5-Trinitrobenzene	1.63	mg/kg	BDL		1.99	82	72 --- 121		
1,3-Dinitrobenzene	1.66	mg/kg	BDL		1.99	83	74 --- 120		
2,4,6-Trinitrotoluene	1.56	mg/kg	BDL		1.99	78	56 --- 135		
2,4-Dinitrotoluene	2.14	mg/kg	BDL		1.99	108	64 --- 131		
2,6-Dinitrotoluene	1.52	mg/kg	BDL		1.99	76	63 --- 131		
2-Amino-4,6-dinitrotoluene	1.62	mg/kg	BDL		1.99	81	71 --- 118		
2-Nitrotoluene	1.56	mg/kg	BDL		1.99	78	78 --- 113		
3,5-Dinitroaniline	1.59	mg/kg	BDL		1.99	80	50 --- 153		
3-Nitrotoluene	1.66	mg/kg	BDL		1.99	83	74 --- 115		
4-Amino-2,6-dinitrotoluene	1.54	mg/kg	BDL		1.99	77	72 --- 123		
4-Nitrotoluene	1.59	mg/kg	BDL		1.99	80	74 --- 125		
HMX	1.69	mg/kg	BDL		1.99	85	59 --- 133		
Nitrobenzene	1.65	mg/kg	BDL		1.99	83	73 --- 120		
Nitroglycerin	7.52	mg/kg	BDL		7.97	94	76 --- 130		
PETN	6.90	mg/kg	BDL		7.97	87	74 --- 123		
RDX	1.44	mg/kg	BDL		1.99	72	55 --- 120		
Tetryl	1.48	mg/kg	BDL		1.99	74	30 --- 155		

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Condition Report

Folder #: 83966
Client: USACE - LOUISVILLE

Print Date / Time: 03/09/2011 11:56
Received Date / Time / By: 03/09/2011 1130 JLS

Project Name: RAVENNA - GROUP 2 ORE PILES
Project #: W912QR-10-D-0024

Log-In Date / Time / By: 03/09/2011 1156 JLS
PM: PML

Coolers: 3734,3728
Custody Seals Present : **Y**

Temperature: 1.8,2.1 C On Ice: **Y**
COC Present:? **Y** Complete? **Y**

Seal Intact? **Y**
Ship Method: FEDEX EXPRESS
Adequate Packaging: **Y**

Numbers: DATED AND SIGNED
Tracking Number: 873123757558,873123757547
Temp Blank Enclosed? **Y**

Notes: SAMPLES REC'D IN GOOD CONDITION ON ICE
1 CUSTODY SEAL INTACT ON EACH COOLER. BOTH DATED 3/8/11 AND SIGNED BY D KINDER

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
898909 DL2SS-001M-0001-SO					
	SOLIDS	1		%SOL,CR6,HG,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
898909 DL2SS-001M-0001-SO					
	UNPRES GL	1		8270,EXPL,NC,PCB,PEST	
	Total # of Containers of Type (*UNPRES GL*) = 1				
898909 DL2SS-001M-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				
898914 DL2SS-002M-0001-SO					
	SOLIDS	1		%SOL,CR6,HG,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
898914 DL2SS-002M-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				
898915 DL2SS-003M-0001-SO					
	SOLIDS	1		%SOL,CR6,HG,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
898915 DL2SS-003M-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				

Sample ID / Description	Container Type	Cond. Code	pH OK?	Tests	Filtered?
898916 DL2SS-001M-0002-SO					
	SOLIDS	1		%SOL,CR6,HG,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
898916 DL2SS-001M-0002-SO					
	UNPRES GL	1		8270,EXPL,NC,PCB,PEST	
	Total # of Containers of Type (*UNPRES GL*) = 1				
898916 DL2SS-001M-0002-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				
898917 DL2SS-004M-0001-SO					
	SOLIDS	1		%SOL,CR6,HG,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
898917 DL2SS-004M-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				
898918 DL2SS-005M-0001-SO					
	SOLIDS	1		%SOL,CR6,HG,ICP,K,NA	
	Total # of Containers of Type (*SOLIDS*) = 1				
898918 DL2SS-005M-0001-SO					
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	FOR LABEL ONLY	1		SOIL PREP/MIX	
	Total # of Containers of Type (*FOR LABEL ONLY*) = 2				
898919 DL2SS-006-0001-SO					
	SOLIDS	1		%SOL	
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 2				
898919 DL2SS-006-0001-SO					
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 4				
898920 DL2SS-006-0002-SO					
	SOLIDS	1		%SOL	
	Total # of Containers of Type (*SOLIDS*) = 1				
898920 DL2SS-006-0002-SO					
	MEOH TARED	1		VOC	
	MEOH TARED	1		VOC	
	Total # of Containers of Type (*MEOH TARED*) = 2				

Condition Code	*Condition Description*
1	Sample Received OK

ANALYTICAL REPORT

Job Number: 240-22756-1

Job Description: RVAAP - ECC

For:
Environmental Chemical Corp.
33 Boston Post Road West
Suite 40
Marlborough, MA 01752

Attention: Mr. Jackson Kiker

Approved for release.
Mark J Loeb
Project Manager II
5/9/2013 4:15 PM

Mark J Loeb
Project Manager II
mark.loeb@testamericainc.com
05/09/2013

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

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CASE NARRATIVE

Client: Environmental Chemical Corp.

Project: RVAAP - ECC

Report Number: 240-22756-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

TestAmerica utilizes USEPA approved methods and DOD QSM, where applicable, in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

The 6020 Total Metals analysis was performed at the TestAmerica Pittsburgh laboratory.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters for which TestAmerica North Canton has certification were evaluated to the limit of detection (LOD) and include qualified results where applicable. Parameters not certified under QSM, if any, were evaluated to the detection limit (DL) and include qualified results where applicable.

The sample(s) that contain constituents flagged with U are undetected. The result associated with this flag is the limit of detection (LOD).

RECEIPT

The samples were received on 04/03/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 4.4 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample 074SB-0022-0001-TB (240-22756-16) was analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B DoD. The samples were analyzed on 04/08/2013.

Acetone failed the recovery criteria low for MRL 240-81013/21. Methylene Chloride failed the recovery criteria high. 1,1,2,2-Tetrachloroethane, cis-1,3-Dichloropropene, Methylene Chloride and trans-1,3-Dichloropropene failed the recovery criteria high for MRL 240-81013/5. Refer to the QC report for details.

No other difficulties were encountered during the VOCs analysis. All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples 074SB-0001-0001,0002-SO (240-22756-1), 074SB-0002-0001-SO (240-22756-2), 074SB-0003-0001-SO (240-22756-3), 074SB-0005-0001-SO (240-22756-4), 074SB-0006-0001-SO (240-22756-5), 074SB-0007-0001-SO (240-22756-6), 074SB-0008-0001-SO (240-22756-7), 074SB-0009-0001-SO (240-22756-8), 074SB-0016-0001-SO (240-22756-10), 074SB-0017-0001-SO (240-22756-11), 074SB-0018-0001-SO (240-22756-12), 074SB-0019-0001-SO (240-22756-13), 074SB-0020-0001-SO (240-22756-14) and 074SB-0021-0001-SO (240-22756-15) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/15/2013 and 04/23/2013 and analyzed on 04/19/2013 and 04/25/2013.

Bis(2-ethylhexyl) phthalate and Di-n-butyl phthalate were detected in method blank MB 240-81947/23-A at levels that were above the

method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged.

Di-n-butyl phthalate was detected in method blank MB 240-83163/15-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged.

Samples 074SB-0016-0001-SO (240-22756-10)[2.5X], 074SB-0018-0001-SO (240-22756-12)[2.5X], 074SB-0019-0001-SO (240-22756-13)[10X] and 074SB-0020-0001-SO (240-22756-14)[2.5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The following samples were diluted due to the nature of the sample matrix: 074SB-0016-0001-SO (240-22756-10), 074SB-0018-0001-SO (240-22756-12), 074SB-0019-0001-SO (240-22756-13), 074SB-0020-0001-SO (240-22756-14). Elevated reporting limits (RLs) are provided.

One surrogate recovery for the following sample was outside control limits: 074SB-0003-0001-SO (240-22756-3). Re-extraction and re-analysis was performed outside of holding time with acceptable results. Reextraction was done within double hold time and only the reextract data is reported.

No other difficulties were encountered during the SVOCs analyses. All other quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS (DRO)

Samples 074SB-0001-0001,0002-SO (240-22756-1), 074SB-0002-0001-SO (240-22756-2), 074SB-0003-0001-SO (240-22756-3), 074SB-0005-0001-SO (240-22756-4), 074SB-0006-0001-SO (240-22756-5), 074SB-0007-0001-SO (240-22756-6), 074SB-0008-0001-SO (240-22756-7), 074SB-0009-0001-SO (240-22756-8), 074SB-0016-0001-SO (240-22756-10), 074SB-0017-0001-SO (240-22756-11), 074SB-0018-0001-SO (240-22756-12), 074SB-0019-0001-SO (240-22756-13), 074SB-0020-0001-SO (240-22756-14) and 074SB-0021-0001-SO (240-22756-15) were analyzed for diesel range organics (DRO) in accordance with EPA SW-846 Method 8015B - DRO DoD. The samples were prepared on 04/16/2013 and analyzed on 04/18/2013 and 04/19/2013.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Samples 074SB-0018-0001-SO (240-22756-12)[5X], 074SB-0019-0001-SO (240-22756-13)[10X] and 074SB-0020-0001-SO (240-22756-14)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The continuing calibration verification (CCV) for diesel associated with batch 82317 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. 074SB-0001-0001,0002-SO (240-22756-1), 074SB-0002-0001-SO (240-22756-2), 074SB-0003-0001-SO (240-22756-3), 074SB-0006-0001-SO (240-22756-5), 074SB-0007-0001-SO (240-22756-6)

No other difficulties were encountered during the DRO analyses. All other quality control parameters were within the acceptance limits.

TOTAL METALS (ICPMS)

Sample 079SD-0308-0001-SO (240-22756-9) was analyzed for total metals (ICPMS) in accordance with EPA SW-846 Method 6020 DoD. The samples were prepared on 04/17/2013 and analyzed on 05/07/2013.

ICB, CCB, and ICSA samples are evaluated using the lowest LOD and DL criteria in LIMS. Using this criteria, an individual element may occasionally be flagged as out of control. If the element has a higher LOD or DL, the data is evaluated to the higher limit and determined to be acceptable.

Several analytes were detected in method blank MB 180-69392/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

No other difficulties were encountered during the metals analysis. All other quality control parameters were within the acceptance limits.

MERCURY

Sample 079SD-0308-0001-SO (240-22756-9) was analyzed for mercury in accordance with EPA SW-846 Method 7471A DOD. The samples were prepared on 04/17/2013 and analyzed on 04/19/2013.

No difficulties were encountered during the mercury analysis. All quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples 074SB-0001-0001,0002-SO (240-22756-1), 074SB-0002-0001-SO (240-22756-2), 074SB-0003-0001-SO (240-22756-3), 074SB-0005-0001-SO (240-22756-4), 074SB-0006-0001-SO (240-22756-5), 074SB-0007-0001-SO (240-22756-6), 074SB-0008-0001-SO (240-22756-7), 074SB-0009-0001-SO (240-22756-8), 079SD-0308-0001-SO (240-22756-9), 074SB-0016-0001-SO (240-22756-10), 074SB-0017-0001-SO (240-22756-11), 074SB-0018-0001-SO (240-22756-12), 074SB-0019-0001-SO (240-22756-13), 074SB-0020-0001-SO (240-22756-14) and 074SB-0021-0001-SO (240-22756-15) were analyzed

for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 04/04/2013.

No difficulties were encountered during the % solids analyses. All quality control parameters were within the acceptance limits.

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: A4HP10 Analysis Batch Number: 81609

Lab Sample ID: STD5 240-81609/2 IC Client Sample ID:

Date Analyzed: 04/11/13 18:04 Lab File ID: 30411002.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.61	Poor Chromatography	gruberj	04/12/13 08:39
Pyridine	3.13	Poor Chromatography	gruberj	04/12/13 08:39
Benzoic acid	6.77	Poor Chromatography	gruberj	04/12/13 08:39

Lab Sample ID: STD4 240-81609/3 IC Client Sample ID:

Date Analyzed: 04/11/13 18:28 Lab File ID: 30411003.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.60	Poor Chromatography	gruberj	04/12/13 08:40
N-Nitrosodimethylamine	3.08	Poor Chromatography	gruberj	04/12/13 08:40

Lab Sample ID: STD3 240-81609/4 IC Client Sample ID:

Date Analyzed: 04/11/13 18:53 Lab File ID: 30411004.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.61	Poor Chromatography	gruberj	04/12/13 08:41
N-Nitrosodimethylamine	3.09	Poor Chromatography	gruberj	04/12/13 08:41

Lab Sample ID: STD2 240-81609/5 IC Client Sample ID:

Date Analyzed: 04/11/13 19:17 Lab File ID: 30411005.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.61	Poor Chromatography	gruberj	04/12/13 08:43
N-Nitrosodimethylamine	3.10	Poor Chromatography	gruberj	04/12/13 08:43
Pyridine	3.15	Poor Chromatography	gruberj	04/12/13 08:43
Indeno[1,2,3-cd]pyrene	16.26	Poor Chromatography	gruberj	04/12/13 08:43
Dibenz(a,h)anthracene	16.30	Poor Chromatography	gruberj	04/12/13 08:43

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: A4HP10 Analysis Batch Number: 81609

Lab Sample ID: STD1 240-81609/6 IC Client Sample ID:

Date Analyzed: 04/11/13 19:41 Lab File ID: 30411006.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	16.26	Poor Chromatography	gruberj	04/12/13 08:44
Dibenz(a,h)anthracene	16.31	Poor Chromatography	gruberj	04/12/13 08:44
Benzo[g,h,i]perylene	16.74	Poor Chromatography	gruberj	04/12/13 08:44

Lab Sample ID: STD9 240-81609/7 IC Client Sample ID:

Date Analyzed: 04/11/13 20:06 Lab File ID: 30411007.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.61	Poor Chromatography	gruberj	04/12/13 08:45
N-Nitrosodimethylamine	3.08	Poor Chromatography	gruberj	04/12/13 08:45
Pyridine	3.12	Poor Chromatography	gruberj	04/12/13 08:45

Lab Sample ID: STD8 240-81609/8 IC Client Sample ID:

Date Analyzed: 04/11/13 20:30 Lab File ID: 30411008.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.60	Poor Chromatography	gruberj	04/12/13 08:47
Pyridine	3.12	Poor Chromatography	gruberj	04/12/13 08:47

Lab Sample ID: STD7 240-81609/9 IC Client Sample ID:

Date Analyzed: 04/11/13 20:54 Lab File ID: 30411009.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.60	Poor Chromatography	gruberj	04/12/13 09:18
Pyridine	3.13	Poor Chromatography	gruberj	04/12/13 09:18

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: A4HP10 Analysis Batch Number: 81609

Lab Sample ID: STD6 240-81609/10 ICIS Client Sample ID:

Date Analyzed: 04/11/13 21:19 Lab File ID: 30411010.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.61	Poor Chromatography	gruberj	04/12/13 08:22
Pyridine	3.13	Poor Chromatography	gruberj	04/12/13 08:22
Benzoic acid	6.79	Poor Chromatography	gruberj	04/12/13 08:22

Lab Sample ID: ICV 240-81609/11 Client Sample ID:

Date Analyzed: 04/11/13 21:43 Lab File ID: 30411011.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.61	Poor Chromatography	gruberj	04/12/13 09:27
N-Nitrosodimethylamine	3.08	Poor Chromatography	gruberj	04/12/13 09:27
Pyridine	3.13	Poor Chromatography	gruberj	04/12/13 09:27
bis (2-chloroisopropyl) ether	6.18	Poor Chromatography	gruberj	04/12/13 09:27

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: A4HP10 Analysis Batch Number: 82653

Lab Sample ID: CCV 240-82653/2 Client Sample ID:

Date Analyzed: 04/19/13 10:43 Lab File ID: 30419002.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.31	Poor Chromatography	gruberj	04/19/13 11:03
N-Nitrosodimethylamine	2.75	Poor Chromatography	gruberj	04/19/13 11:03
Pyridine	2.80	Poor Chromatography	gruberj	04/19/13 11:03
Benzoic acid	6.71	Poor Chromatography	gruberj	04/19/13 11:03

Lab Sample ID: MRL 240-82653/3 Client Sample ID:

Date Analyzed: 04/19/13 11:07 Lab File ID: 30419003.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	6.69	Poor Chromatography	gruberj	04/19/13 12:33

Lab Sample ID: 240-22756-13 Client Sample ID: 074SB-0019-0001-SO

Date Analyzed: 04/19/13 13:28 Lab File ID: 30419009.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]pyrene	14.27	Poor Chromatography	gruberj	04/22/13 09:40
Benzo[g,h,i]perylene	16.46	Poor Chromatography	gruberj	04/22/13 09:40

Lab Sample ID: 240-22756-10 Client Sample ID: 074SB-0016-0001-SO

Date Analyzed: 04/19/13 13:51 Lab File ID: 30419010.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Anthracene	9.80	Poor Chromatography	gruberj	04/22/13 09:42
Benzo[k]fluoranthene	13.83	Poor Chromatography	gruberj	04/22/13 09:42
Benzo[g,h,i]perylene	16.47	Poor Chromatography	gruberj	04/22/13 09:42

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: A4HP10 Analysis Batch Number: 82653

Lab Sample ID: 240-22756-14 Client Sample ID: 074SB-0020-0001-SO

Date Analyzed: 04/19/13 14:14 Lab File ID: 30419011.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Di-n-butyl phthalate	10.19	Poor Chromatography	gruberj	04/22/13 11:09
Benzo[b]fluoranthene	13.79	Poor Chromatography	gruberj	04/22/13 11:09
Benzo[k]fluoranthene	13.82	Poor Chromatography	gruberj	04/22/13 11:09

Lab Sample ID: 240-22756-12 Client Sample ID: 074SB-0018-0001-SO

Date Analyzed: 04/19/13 14:38 Lab File ID: 30419012.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Anthracene	9.80	Poor Chromatography	gruberj	04/22/13 11:10
Indeno[1,2,3-cd]pyrene	16.03	Poor Chromatography	gruberj	04/22/13 11:10
Benzo[g,h,i]perylene	16.48	Poor Chromatography	gruberj	04/22/13 11:10

Lab Sample ID: 240-22756-15 Client Sample ID: 074SB-0021-0001-SO

Date Analyzed: 04/19/13 16:58 Lab File ID: 30419018.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	13.83	Poor Chromatography	gruberj	04/22/13 11:31

Lab Sample ID: 240-22756-4 Client Sample ID: 074SB-0005-0001-SO

Date Analyzed: 04/19/13 17:21 Lab File ID: 30419019.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	13.81	Poor Chromatography	gruberj	04/22/13 11:33
Benzo[g,h,i]perylene	16.48	Poor Chromatography	gruberj	04/22/13 11:33

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: A4HP10 Analysis Batch Number: 82653

Lab Sample ID: MRL 240-82653/28 Client Sample ID:

Date Analyzed: 04/19/13 20:51 Lab File ID: 30419028.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	6.69	Poor Chromatography	gruberj	04/22/13 09:29

Lab Sample ID: mdll1 LODV Client Sample ID:

Date Analyzed: 04/19/13 21:14 Lab File ID: 30419029.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	16.03	Poor Chromatography	gruberj	04/22/13 09:35
Dibenz(a,h)anthracene	16.06	Poor Chromatography	gruberj	04/22/13 09:35

Lab Sample ID: mdll2 LODV Client Sample ID:

Date Analyzed: 04/19/13 21:38 Lab File ID: 30419030.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
N-Nitrosodimethylamine	2.76	Poor Chromatography	gruberj	04/22/13 09:37
Pyridine	2.82	Poor Chromatography	gruberj	04/22/13 09:37

Lab Sample ID: mdll3 LODV Client Sample ID:

Date Analyzed: 04/19/13 22:01 Lab File ID: 30419031.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.31	Poor Chromatography	gruberj	04/22/13 09:31
N-Nitrosodimethylamine	2.76	Poor Chromatography	gruberj	04/22/13 09:31

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: A4HP9 Analysis Batch Number: 82668

Lab Sample ID: STD5 240-82668/2 IC Client Sample ID:

Date Analyzed: 04/19/13 10:42 Lab File ID: 30419102.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.58	Poor Chromatography	ulmanm	04/19/13 11:09
Pyridine	4.09	Poor Chromatography	ulmanm	04/19/13 11:09
Indeno[1,2,3-cd]pyrene	17.43	Poor Chromatography	ulmanm	04/19/13 11:09

Lab Sample ID: STD4 240-82668/3 IC Client Sample ID:

Date Analyzed: 04/19/13 11:08 Lab File ID: 30419103.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.58	Poor Chromatography	ulmanm	04/19/13 11:35
Benzoic acid	7.53	Poor Chromatography	ulmanm	04/19/13 11:35
2,4-Dinitrophenol	9.37	Poor Chromatography	ulmanm	04/19/13 11:35

Lab Sample ID: STD3 240-82668/4 IC Client Sample ID:

Date Analyzed: 04/19/13 11:34 Lab File ID: 30419104.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.58	Poor Chromatography	ulmanm	04/19/13 12:40
Pyridine	4.09	Poor Chromatography	ulmanm	04/19/13 12:40
Benzoic acid	7.52	Poor Chromatography	ulmanm	04/19/13 12:40
Pentachlorophenol	10.47	Poor Chromatography	ulmanm	04/19/13 12:40
Indeno[1,2,3-cd]pyrene	17.41	Poor Chromatography	ulmanm	04/19/13 12:40
Dibenz(a,h)anthracene	17.42	Poor Chromatography	ulmanm	04/19/13 12:40
Benzo[g,h,i]perylene	18.14	Poor Chromatography	ulmanm	04/19/13 12:40

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: A4HP9 Analysis Batch Number: 82668

Lab Sample ID: STD2 240-82668/5 IC Client Sample ID:

Date Analyzed: 04/19/13 12:01 Lab File ID: 30419105.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.59	Poor Chromatography	ulmanm	04/19/13 12:43
Pyridine	4.10	Poor Chromatography	ulmanm	04/19/13 12:43
Benzidine	11.75	Poor Chromatography	ulmanm	04/19/13 12:43
Dibenz(a,h)anthracene	17.42	Poor Chromatography	ulmanm	04/19/13 12:43
Indeno[1,2,3-cd]pyrene	17.42	Poor Chromatography	ulmanm	04/19/13 12:43
Benzo[g,h,i]perylene	18.15	Poor Chromatography	ulmanm	04/19/13 12:43

Lab Sample ID: STD1 240-82668/6 IC Client Sample ID:

Date Analyzed: 04/19/13 12:27 Lab File ID: 30419106.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]pyrene	15.01	Poor Chromatography	ulmanm	04/19/13 12:53
Dibenz(a,h)anthracene	17.42	Poor Chromatography	ulmanm	04/19/13 12:53
Indeno[1,2,3-cd]pyrene	17.42	Poor Chromatography	ulmanm	04/19/13 12:53
Benzo[g,h,i]perylene	18.16	Poor Chromatography	ulmanm	04/19/13 12:53

Lab Sample ID: STD9 240-82668/7 IC Client Sample ID:

Date Analyzed: 04/19/13 12:53 Lab File ID: 30419107.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.59	Poor Chromatography	ulmanm	04/19/13 13:19
Benzoic acid	7.59	Poor Chromatography	ulmanm	04/19/13 13:19

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: A4HP9 Analysis Batch Number: 82668

Lab Sample ID: STD8 240-82668/8 IC Client Sample ID:

Date Analyzed: 04/19/13 13:19 Lab File ID: 30419108.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.59	Poor Chromatography	ulmanm	04/19/13 13:43

Lab Sample ID: STD7 240-82668/9 IC Client Sample ID:

Date Analyzed: 04/19/13 13:45 Lab File ID: 30419109.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.58	Poor Chromatography	ulmanm	04/19/13 14:11

Lab Sample ID: STD6 240-82668/10 ICIS Client Sample ID:

Date Analyzed: 04/19/13 14:12 Lab File ID: 30419110.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.59	Poor Chromatography	ulmanm	04/19/13 14:42

Lab Sample ID: ICV 240-82668/11 Client Sample ID:

Date Analyzed: 04/19/13 14:38 Lab File ID: 30419111.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.59	Poor Chromatography	ulmanm	04/19/13 15:05
Benzoic acid	7.56	Poor Chromatography	ulmanm	04/19/13 15:05

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: A4HP9 Analysis Batch Number: 83588

Lab Sample ID: CCV 240-83588/2 Client Sample ID:

Date Analyzed: 04/25/13 15:39 Lab File ID: 30425102.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.16	Poor Chromatography	ulmanm	04/26/13 09:19
Pyridine	3.81	Poor Chromatography	ulmanm	04/26/13 09:19
Benzoic acid	7.49	Poor Chromatography	ulmanm	04/26/13 09:19

Lab Sample ID: MRL 240-83588/3 Client Sample ID:

Date Analyzed: 04/25/13 16:06 Lab File ID: 30425103.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.48	Poor Chromatography	ulmanm	04/26/13 09:22

Lab Sample ID: LCS 240-83163/16-A Client Sample ID:

Date Analyzed: 04/25/13 17:00 Lab File ID: 30425105.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.46	Poor Chromatography	ulmanm	04/26/13 09:26

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: A2HP6F Analysis Batch Number: 82537

Lab Sample ID: 240-22756-10 Client Sample ID: 074SB-0016-0001-SO

Date Analyzed: 04/18/13 22:16 Lab File ID: P6F18015.D GC Column: RTX-5 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C20-C34	12.76	Baseline Event	shockr	04/22/13 13:15

SAMPLE SUMMARY

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-22756-1	074SB-0001-0001,0002-SO	Solid	04/02/2013 0842	04/03/2013 0815
240-22756-1MS	074SB-0001-0001,0002-SO	Solid	04/02/2013 0842	04/03/2013 0815
240-22756-1MSD	074SB-0001-0001,0002-SO	Solid	04/02/2013 0842	04/03/2013 0815
240-22756-1DU	074SB-0001-0001,0002-SO	Solid	04/02/2013 0842	04/03/2013 0815
240-22756-2	074SB-0002-0001-SO	Solid	04/02/2013 0950	04/03/2013 0815
240-22756-3	074SB-0003-0001-SO	Solid	04/02/2013 0950	04/03/2013 0815
240-22756-4	074SB-0005-0001-SO	Solid	04/02/2013 0918	04/03/2013 0815
240-22756-5	074SB-0006-0001-SO	Solid	04/02/2013 1013	04/03/2013 0815
240-22756-6	074SB-0007-0001-SO	Solid	04/02/2013 1133	04/03/2013 0815
240-22756-7	074SB-0008-0001-SO	Solid	04/02/2013 1201	04/03/2013 0815
240-22756-8	074SB-0009-0001-SO	Solid	04/02/2013 1238	04/03/2013 0815
240-22756-9	079SD-0308-0001-SO	Solid	04/02/2013 1000	04/03/2013 0815
240-22756-10	074SB-0016-0001-SO	Solid	04/02/2013 0945	04/03/2013 0815
240-22756-11	074SB-0017-0001-SO	Solid	04/02/2013 0912	04/03/2013 0815
240-22756-12	074SB-0018-0001-SO	Solid	04/02/2013 1008	04/03/2013 0815
240-22756-13	074SB-0019-0001-SO	Solid	04/02/2013 1159	04/03/2013 0815
240-22756-14	074SB-0020-0001-SO	Solid	04/02/2013 1245	04/03/2013 0815
240-22756-15	074SB-0021-0001-SO	Solid	04/02/2013 1250	04/03/2013 0815
240-22756-16	074SB-0022-0001-TB	Water	04/02/2013 0800	04/03/2013 0815

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22756-1	**074SB-0001-0001,0002-SO**					
Bis(2-ethylhexyl) phthalate		33	J	82	ug/Kg	8270C/DoD
Di-n-butyl phthalate		21	J	82	ug/Kg	8270C/DoD
Percent Solids		86		0.10	%	Moisture
Percent Moisture		14		0.10	%	Moisture
240-22756-2	**074SB-0002-0001-SO**					
Bis(2-ethylhexyl) phthalate		29	J	82	ug/Kg	8270C/DoD
Percent Solids		86		0.10	%	Moisture
Percent Moisture		14		0.10	%	Moisture
240-22756-3	**074SB-0003-0001-SO**					
Bis(2-ethylhexyl) phthalate		28	J H	82	ug/Kg	8270C/DoD
Di-n-butyl phthalate		37	J H	82	ug/Kg	8270C/DoD
Percent Solids		85		0.10	%	Moisture
Percent Moisture		15		0.10	%	Moisture
240-22756-4	**074SB-0005-0001-SO**					
Benzo[a]anthracene		8.9		8.7	ug/Kg	8270C/DoD
Benzo[a]pyrene		8.2	J	8.7	ug/Kg	8270C/DoD
Benzo[b]fluoranthene		16		8.7	ug/Kg	8270C/DoD
Benzo[g,h,i]perylene		6.6	J M	8.7	ug/Kg	8270C/DoD
Benzo[k]fluoranthene		7.4	J M	8.7	ug/Kg	8270C/DoD
Bis(2-ethylhexyl) phthalate		44	J	91	ug/Kg	8270C/DoD
Chrysene		15		8.7	ug/Kg	8270C/DoD
Fluoranthene		30		8.7	ug/Kg	8270C/DoD
Indeno[1,2,3-cd]pyrene		8.0	J	8.7	ug/Kg	8270C/DoD
2-Methylnaphthalene		5.1	J	8.7	ug/Kg	8270C/DoD
3 & 4 Methylphenol		47	J	520	ug/Kg	8270C/DoD
Naphthalene		6.6	J	8.7	ug/Kg	8270C/DoD
Phenanthrene		18		8.7	ug/Kg	8270C/DoD
Pyrene		19		8.7	ug/Kg	8270C/DoD
C20-C34		58		21	mg/Kg	8015B_DRO/DOD
Percent Solids		78		0.10	%	Moisture
Percent Moisture		22		0.10	%	Moisture
240-22756-5	**074SB-0006-0001-SO**					
Bis(2-ethylhexyl) phthalate		49	J	84	ug/Kg	8270C/DoD
Percent Solids		82		0.10	%	Moisture
Percent Moisture		18		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22756-6	**074SB-0007-0001-SO**					
Bis(2-ethylhexyl) phthalate		26	J	80	ug/Kg	8270C/DoD
Percent Solids		86		0.10	%	Moisture
Percent Moisture		14		0.10	%	Moisture
240-22756-7	**074SB-0008-0001-SO**					
Anthracene		5.0	J	8.0	ug/Kg	8270C/DoD
Benzo[a]anthracene		5.3	J	8.0	ug/Kg	8270C/DoD
Benzo[b]fluoranthene		5.3	J	8.0	ug/Kg	8270C/DoD
Bis(2-ethylhexyl) phthalate		35	J	84	ug/Kg	8270C/DoD
Chrysene		5.9	J	8.0	ug/Kg	8270C/DoD
Fluoranthene		15		8.0	ug/Kg	8270C/DoD
Fluorene		13		8.0	ug/Kg	8270C/DoD
2-Methylnaphthalene		15		8.0	ug/Kg	8270C/DoD
Phenanthrene		32		8.0	ug/Kg	8270C/DoD
Pyrene		13		8.0	ug/Kg	8270C/DoD
C10-C20		25		20	mg/Kg	8015B_DRO/DOD
Percent Solids		83		0.10	%	Moisture
Percent Moisture		17		0.10	%	Moisture
240-22756-8	**074SB-0009-0001-SO**					
Bis(2-ethylhexyl) phthalate		230		81	ug/Kg	8270C/DoD
Percent Solids		85		0.10	%	Moisture
Percent Moisture		15		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22756-9	**079SD-0308-0001-SO**					
Silver		0.040	J	0.13	mg/Kg	6020/DOD
Aluminum		9900		3.8	mg/Kg	6020/DOD
Arsenic		72		0.13	mg/Kg	6020/DOD
Barium		57	Q	1.3	mg/Kg	6020/DOD
Beryllium		0.52	Q	0.13	mg/Kg	6020/DOD
Calcium		870		13	mg/Kg	6020/DOD
Cadmium		0.22		0.13	mg/Kg	6020/DOD
Chromium		12		0.26	mg/Kg	6020/DOD
Cobalt		7.9	Q	0.064	mg/Kg	6020/DOD
Copper		16	Q	0.26	mg/Kg	6020/DOD
Iron		16000		6.4	mg/Kg	6020/DOD
Magnesium		1800		13	mg/Kg	6020/DOD
Manganese		220	Q	0.64	mg/Kg	6020/DOD
Sodium		54		13	mg/Kg	6020/DOD
Nickel		16		0.13	mg/Kg	6020/DOD
Lead		22	Q	0.13	mg/Kg	6020/DOD
Antimony		0.076	J	0.26	mg/Kg	6020/DOD
Thallium		0.14		0.13	mg/Kg	6020/DOD
Vanadium		20		0.13	mg/Kg	6020/DOD
Zinc		44	Q	0.64	mg/Kg	6020/DOD
Potassium		1200		13	mg/Kg	6020/DOD
Selenium		0.43	J	0.64	mg/Kg	6020/DOD
Mercury		0.044	J	0.14	mg/Kg	7471/DOD
Percent Solids		76		0.10	%	Moisture
Percent Moisture		24		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22756-10	**074SB-0016-0001-SO**					
Acenaphthene		110		21	ug/Kg	8270C/DoD
Acenaphthylene		32		21	ug/Kg	8270C/DoD
Anthracene		65	M	21	ug/Kg	8270C/DoD
Benzo[a]anthracene		80		21	ug/Kg	8270C/DoD
Benzo[a]pyrene		61		21	ug/Kg	8270C/DoD
Benzo[b]fluoranthene		69		21	ug/Kg	8270C/DoD
Benzo[g,h,i]perylene		44	M	21	ug/Kg	8270C/DoD
Benzo[k]fluoranthene		25	M	21	ug/Kg	8270C/DoD
Chrysene		93		21	ug/Kg	8270C/DoD
Dibenzofuran		110	J	160	ug/Kg	8270C/DoD
Fluoranthene		250		21	ug/Kg	8270C/DoD
Fluorene		170		21	ug/Kg	8270C/DoD
Indeno[1,2,3-cd]pyrene		20	J	21	ug/Kg	8270C/DoD
Naphthalene		37		21	ug/Kg	8270C/DoD
Phenanthrene		180		21	ug/Kg	8270C/DoD
Pyrene		240		21	ug/Kg	8270C/DoD
C10-C20		190		22	mg/Kg	8015B_DRO/DOD
C20-C34		28	M	22	mg/Kg	8015B_DRO/DOD
Percent Solids		79		0.10	%	Moisture
Percent Moisture		21		0.10	%	Moisture
240-22756-11	**074SB-0017-0001-SO**					
Benzo[a]anthracene		9.2	J	9.5	ug/Kg	8270C/DoD
Benzo[a]pyrene		10		9.5	ug/Kg	8270C/DoD
Benzo[b]fluoranthene		24		9.5	ug/Kg	8270C/DoD
Bis(2-ethylhexyl) phthalate		27	J	100	ug/Kg	8270C/DoD
Chrysene		17		9.5	ug/Kg	8270C/DoD
Fluoranthene		30		9.5	ug/Kg	8270C/DoD
Indeno[1,2,3-cd]pyrene		6.5	J	9.5	ug/Kg	8270C/DoD
2-Methylnaphthalene		5.2	J	9.5	ug/Kg	8270C/DoD
Naphthalene		7.0	J	9.5	ug/Kg	8270C/DoD
Phenanthrene		17		9.5	ug/Kg	8270C/DoD
Pyrene		16		9.5	ug/Kg	8270C/DoD
C20-C34		18	J	24	mg/Kg	8015B_DRO/DOD
Percent Solids		70		0.10	%	Moisture
Percent Moisture		30		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22756-12	**074SB-0018-0001-SO**					
Acenaphthene		170		20	ug/Kg	8270C/DoD
Acenaphthylene		48		20	ug/Kg	8270C/DoD
Anthracene		140	M	20	ug/Kg	8270C/DoD
Benzo[a]anthracene		83		20	ug/Kg	8270C/DoD
Benzo[a]pyrene		66		20	ug/Kg	8270C/DoD
Benzo[b]fluoranthene		69		20	ug/Kg	8270C/DoD
Benzo[g,h,i]perylene		42	M	20	ug/Kg	8270C/DoD
Benzo[k]fluoranthene		55		20	ug/Kg	8270C/DoD
Bis(2-ethylhexyl) phthalate		66	J	210	ug/Kg	8270C/DoD
Chrysene		73		20	ug/Kg	8270C/DoD
Dibenzofuran		130	J	150	ug/Kg	8270C/DoD
Fluoranthene		280		20	ug/Kg	8270C/DoD
Fluorene		270		20	ug/Kg	8270C/DoD
Indeno[1,2,3-cd]pyrene		28	M	20	ug/Kg	8270C/DoD
Phenanthrene		90		20	ug/Kg	8270C/DoD
Pyrene		280		20	ug/Kg	8270C/DoD
C10-C20		490	D	98	mg/Kg	8015B_DRO/DOD
Percent Solids		85		0.10	%	Moisture
Percent Moisture		15		0.10	%	Moisture
240-22756-13	**074SB-0019-0001-SO**					
Acenaphthene		720	D	76	ug/Kg	8270C/DoD
Benzo[a]anthracene		120	D	76	ug/Kg	8270C/DoD
Benzo[a]pyrene		75	J D M	76	ug/Kg	8270C/DoD
Benzo[b]fluoranthene		77	D	76	ug/Kg	8270C/DoD
Benzo[g,h,i]perylene		44	J D M	76	ug/Kg	8270C/DoD
Benzo[k]fluoranthene		62	J D	76	ug/Kg	8270C/DoD
Chrysene		100	D	76	ug/Kg	8270C/DoD
Dibenzofuran		470	J D	570	ug/Kg	8270C/DoD
Fluoranthene		310	D	76	ug/Kg	8270C/DoD
Fluorene		1200	D	76	ug/Kg	8270C/DoD
2-Methylnaphthalene		530	D	76	ug/Kg	8270C/DoD
Phenanthrene		1700	D	76	ug/Kg	8270C/DoD
Pyrene		470	D	76	ug/Kg	8270C/DoD
C10-C20		1000	D	190	mg/Kg	8015B_DRO/DOD
Percent Solids		86		0.10	%	Moisture
Percent Moisture		14		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22756-14	**074SB-0020-0001-SO**					
Acenaphthene		110		20	ug/Kg	8270C/DoD
Acenaphthylene		27		20	ug/Kg	8270C/DoD
Anthracene		280		20	ug/Kg	8270C/DoD
Benzo[a]anthracene		280		20	ug/Kg	8270C/DoD
Benzo[a]pyrene		210		20	ug/Kg	8270C/DoD
Benzo[b]fluoranthene		270	M	20	ug/Kg	8270C/DoD
Benzo[g,h,i]perylene		91		20	ug/Kg	8270C/DoD
Benzo[k]fluoranthene		78	M	20	ug/Kg	8270C/DoD
Bis(2-ethylhexyl) phthalate		100	J	210	ug/Kg	8270C/DoD
Chrysene		300		20	ug/Kg	8270C/DoD
Dibenzofuran		110	J	150	ug/Kg	8270C/DoD
Fluoranthene		1000		20	ug/Kg	8270C/DoD
Fluorene		200		20	ug/Kg	8270C/DoD
Indeno[1,2,3-cd]pyrene		80		20	ug/Kg	8270C/DoD
Phenanthrene		160		20	ug/Kg	8270C/DoD
Pyrene		770		20	ug/Kg	8270C/DoD
C10-C20		450	D	99	mg/Kg	8015B_DRO/DOD
C20-C34		70	J D	99	mg/Kg	8015B_DRO/DOD
Percent Solids		84		0.10	%	Moisture
Percent Moisture		16		0.10	%	Moisture
240-22756-15	**074SB-0021-0001-SO**					
Acenaphthene		29		8.9	ug/Kg	8270C/DoD
Anthracene		79		8.9	ug/Kg	8270C/DoD
Benzo[a]anthracene		170		8.9	ug/Kg	8270C/DoD
Benzo[a]pyrene		130		8.9	ug/Kg	8270C/DoD
Benzo[b]fluoranthene		190		8.9	ug/Kg	8270C/DoD
Benzo[g,h,i]perylene		60		8.9	ug/Kg	8270C/DoD
Benzo[k]fluoranthene		37	M	8.9	ug/Kg	8270C/DoD
Bis(2-ethylhexyl) phthalate		54	J	93	ug/Kg	8270C/DoD
Chrysene		140		8.9	ug/Kg	8270C/DoD
Fluoranthene		440		8.9	ug/Kg	8270C/DoD
Fluorene		26		8.9	ug/Kg	8270C/DoD
Indeno[1,2,3-cd]pyrene		58		8.9	ug/Kg	8270C/DoD
Phenanthrene		170		8.9	ug/Kg	8270C/DoD
Pyrene		330		8.9	ug/Kg	8270C/DoD
C10-C20		36		22	mg/Kg	8015B_DRO/DOD
C20-C34		12	J	22	mg/Kg	8015B_DRO/DOD
Percent Solids		76		0.10	%	Moisture
Percent Moisture		24		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-22756-16	**074SB-0022-0001-TB**					
Acetone		6.4	J	10	ug/L	8260B/DoD
Methylene Chloride		0.49	J	1.0	ug/L	8260B/DoD

METHOD SUMMARY

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds (GC/MS)	TAL CAN	SW846 8270C/DoD	
Soxhlet Extraction	TAL CAN		SW846 3540C
Diesel Range Organics (DRO) (GC)	TAL CAN	SW846 8015B_DRO/DOD	
Soxhlet Extraction	TAL CAN		SW846 3540C
Mercury (CVAA)	TAL CAN	SW846 7471/DOD	
Preparation, Mercury	TAL CAN		SW846 7471A
Percent Moisture	TAL CAN	EPA Moisture	
Metals (ICP/MS)	TAL PIT	SW846 6020/DOD	
Preparation, Metals	TAL PIT		SW846 3050B
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CAN	SW846 8260B/DoD	
Purge and Trap	TAL CAN		SW846 5030B

Lab References:

TAL CAN = TestAmerica Canton

TAL PIT = TestAmerica Pittsburgh

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method	Analyst	Analyst ID
SW846 8260B/DoD	Quayle, Rick	RQ
SW846 8270C/DoD	Gruber, John	JG
SW846 8270C/DoD	Ulman, Mark	MU
SW846 8015B_DRO/DOD	Bolgrin, Deborah	DB
SW846 6020/DOD	Reinheimer, Bill	BR
SW846 7471/DOD	Sutherland, Aaron	AS
EPA Moisture	Stiller, Jennifer	JS

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0022-0001-TB**

Lab Sample ID: 240-22756-16 Date Sampled: 04/02/2013 0800
Client Matrix: Water Date Received: 04/03/2013 0815

8260B/DoD Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B/DoD	Analysis Batch:	240-81013	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR3293.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/08/2013 1648			Final Weight/Volume:	5 mL
Prep Date:	04/08/2013 1648				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1-Trichloroethane	0.25	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.25	U	0.18	1.0
1,1,2-Trichloroethane	0.50	U	0.27	1.0
1,1-Dichloroethane	0.25	U	0.15	1.0
1,1-Dichloroethene	0.25	U	0.19	1.0
1,2-Dichloroethane	0.25	U	0.22	1.0
1,2-Dichloroethene, Total	0.50	U	0.34	2.0
1,2-Dichloropropane	0.25	U	0.18	1.0
2-Butanone (MEK)	0.57	U	0.57	10
2-Hexanone	0.50	U	0.41	10
4-Methyl-2-pentanone (MIBK)	0.50	U	0.32	10
Acetone	6.4	J	1.1	10
Benzene	0.25	U	0.13	1.0
Bromoform	0.64	U	0.64	1.0
Bromomethane	0.50	U	0.41	1.0
Carbon disulfide	0.25	U	0.13	1.0
Carbon tetrachloride	0.25	U	0.13	1.0
Chlorobenzene	0.25	U	0.15	1.0
Chloromethane	0.50	U	0.30	1.0
cis-1,3-Dichloropropene	0.25	U	0.14	1.0
Dibromochloromethane	0.25	U	0.18	1.0
Bromodichloromethane	0.25	U	0.15	1.0
Ethylbenzene	0.25	U	0.17	1.0
Methyl tert-butyl ether	0.25	U	0.17	1.0
Methylene Chloride	0.49	J	0.33	1.0
Styrene	0.25	U	0.11	1.0
Tetrachloroethene	0.50	U	0.29	1.0
Toluene	0.25	U	0.13	1.0
trans-1,3-Dichloropropene	0.25	U	0.19	1.0
Trichloroethene	0.25	U	0.17	1.0
Vinyl chloride	0.25	U	0.22	1.0
Xylenes, Total	0.75	U	0.28	2.0
Chloroform	0.25	U	0.16	1.0
Bromochloromethane	0.50	U	0.29	1.0
1,2-Dibromoethane	0.25	U	0.24	1.0
Chloroethane	0.50	U	0.29	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	87		85 - 120
1,2-Dichloroethane-d4 (Surr)	97		70 - 120
4-Bromofluorobenzene (Surr)	77		75 - 120
Dibromofluoromethane (Surr)	97		85 - 115

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0001-0001,0002-SO**

Lab Sample ID: 240-22756-1 Date Sampled: 04/02/2013 0842
Client Matrix: Solid % Moisture: 13.5 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419006.D
Dilution:	1.0			Initial Weight/Volume:	29.66 g
Analysis Date:	04/19/2013 1217			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Acenaphthene		3.9	U	3.9	7.8
Acenaphthylene		3.9	U	3.9	7.8
Anthracene		3.9	U	3.9	7.8
Benzo[a]anthracene		3.9	U	3.9	7.8
Benzo[a]pyrene		3.9	U	3.9	7.8
Benzo[b]fluoranthene		3.9	U	3.9	7.8
Benzo[g,h,i]perylene		3.9	U	3.9	7.8
Benzoic acid		390	U	390	770
Benzo[k]fluoranthene		3.9	U	3.9	7.8
Benzyl alcohol		32	U	25	390
Bis(2-chloroethoxy)methane		32	U	26	120
Bis(2-chloroethyl)ether		3.9	U	2.3	120
bis (2-chloroisopropyl) ether		32	U	11	120
Bis(2-ethylhexyl) phthalate		33	J	22	82
4-Bromophenyl phenyl ether		32	U	15	58
Butyl benzyl phthalate		32	U	12	82
Carbazole		32	U	32	58
4-Chloroaniline		32	U	20	180
4-Chloro-3-methylphenol		32	U	25	180
2-Chloronaphthalene		3.9	U	3.9	58
2-Chlorophenol		32	U	32	58
4-Chlorophenyl phenyl ether		32	U	15	58
Chrysene		3.9	U	1.3	7.8
Dibenz(a,h)anthracene		3.9	U	3.9	7.8
Dibenzofuran		3.9	U	3.9	58
1,2-Dichlorobenzene		32	U	11	58
1,3-Dichlorobenzene		32	U	13	58
1,4-Dichlorobenzene		32	U	23	58
3,3'-Dichlorobenzidine		94	U	21	120
2,4-Dichlorophenol		32	U	23	180
Diethyl phthalate		32	U	19	82
2,4-Dimethylphenol		94	U	23	180
Dimethyl phthalate		32	U	20	82
Di-n-butyl phthalate		21	J	18	82
4,6-Dinitro-2-methylphenol		94	U	94	180
2,4-Dinitrophenol		94	U	94	390
2,4-Dinitrotoluene		32	U	32	230
2,6-Dinitrotoluene		32	U	25	230
Di-n-octyl phthalate		32	U	32	82
Fluoranthene		3.9	U	3.9	7.8
Fluorene		3.9	U	3.9	7.8
Hexachlorobenzene		3.9	U	2.5	7.8
Hexachlorobutadiene		32	U	32	58
Hexachlorocyclopentadiene		32	U	32	390
Hexachloroethane		32	U	11	58
Indeno[1,2,3-cd]pyrene		3.9	U	3.9	7.8

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0001-0001,0002-SO**

Lab Sample ID: 240-22756-1 Date Sampled: 04/02/2013 0842
Client Matrix: Solid % Moisture: 13.5 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419006.D
Dilution:	1.0			Initial Weight/Volume:	29.66 g
Analysis Date:	04/19/2013 1217			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isophorone		32	U	15	58
2-Methylnaphthalene		3.9	U	3.9	7.8
2-Methylphenol		94	U	94	230
3 & 4 Methylphenol		94	U	23	470
Naphthalene		3.9	U	3.9	7.8
2-Nitroaniline		32	U	11	230
3-Nitroaniline		94	U	19	230
4-Nitroaniline		32	U	30	230
Nitrobenzene		3.9	U	2.6	120
2-Nitrophenol		32	U	32	58
4-Nitrophenol		94	U	94	390
N-Nitrosodi-n-propylamine		32	U	32	58
N-Nitrosodiphenylamine		32	U	25	58
Pentachlorophenol		94	U	94	180
Phenanthrene		3.9	U	3.9	7.8
Phenol		32	U	32	58
Pyrene		3.9	U	3.9	7.8
1,2,4-Trichlorobenzene		32	U	32	58
2,4,5-Trichlorophenol		32	U	29	180
2,4,6-Trichlorophenol		94	U	94	180

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	71		45 - 105
2-Fluorophenol (Surr)	82		35 - 105
Nitrobenzene-d5 (Surr)	75		35 - 100
Phenol-d5 (Surr)	78		40 - 100
Terphenyl-d14 (Surr)	62		30 - 125
2,4,6-Tribromophenol (Surr)	56		35 - 125

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0002-0001-SO**

Lab Sample ID: 240-22756-2 Date Sampled: 04/02/2013 0950
Client Matrix: Solid % Moisture: 14.0 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419023.D
Dilution:	1.0			Initial Weight/Volume:	29.79 g
Analysis Date:	04/19/2013 1855			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Acenaphthene		3.9	U	3.9	7.8
Acenaphthylene		3.9	U	3.9	7.8
Anthracene		3.9	U	3.9	7.8
Benzo[a]anthracene		3.9	U	3.9	7.8
Benzo[a]pyrene		3.9	U	3.9	7.8
Benzo[b]fluoranthene		3.9	U	3.9	7.8
Benzo[g,h,i]perylene		3.9	U	3.9	7.8
Benzoic acid		390	U	390	770
Benzo[k]fluoranthene		3.9	U	3.9	7.8
Benzyl alcohol		32	U	25	390
Bis(2-chloroethoxy)methane		32	U	26	120
Bis(2-chloroethyl)ether		3.9	U	2.3	120
bis (2-chloroisopropyl) ether		32	U	11	120
Bis(2-ethylhexyl) phthalate		29	J	22	82
4-Bromophenyl phenyl ether		32	U	15	59
Butyl benzyl phthalate		32	U	12	82
Carbazole		32	U	32	59
4-Chloroaniline		32	U	20	180
4-Chloro-3-methylphenol		32	U	25	180
2-Chloronaphthalene		3.9	U	3.9	59
2-Chlorophenol		32	U	32	59
4-Chlorophenyl phenyl ether		32	U	15	59
Chrysene		3.9	U	1.3	7.8
Dibenz(a,h)anthracene		3.9	U	3.9	7.8
Dibenzofuran		3.9	U	3.9	59
1,2-Dichlorobenzene		32	U	11	59
1,3-Dichlorobenzene		32	U	13	59
1,4-Dichlorobenzene		32	U	23	59
3,3'-Dichlorobenzidine		94	U	21	120
2,4-Dichlorophenol		32	U	23	180
Diethyl phthalate		32	U	19	82
2,4-Dimethylphenol		94	U	23	180
Dimethyl phthalate		32	U	20	82
Di-n-butyl phthalate		32	U	18	82
4,6-Dinitro-2-methylphenol		94	U	94	180
2,4-Dinitrophenol		94	U	94	390
2,4-Dinitrotoluene		32	U	32	230
2,6-Dinitrotoluene		32	U	25	230
Di-n-octyl phthalate		32	U	32	82
Fluoranthene		3.9	U	3.9	7.8
Fluorene		3.9	U	3.9	7.8
Hexachlorobenzene		3.9	U	2.5	7.8
Hexachlorobutadiene		32	U	32	59
Hexachlorocyclopentadiene		32	U	32	390
Hexachloroethane		32	U	11	59
Indeno[1,2,3-cd]pyrene		3.9	U	3.9	7.8

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0002-0001-SO**

Lab Sample ID: 240-22756-2 Date Sampled: 04/02/2013 0950
Client Matrix: Solid % Moisture: 14.0 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419023.D
Dilution:	1.0			Initial Weight/Volume:	29.79 g
Analysis Date:	04/19/2013 1855			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isophorone		32	U	15	59
2-Methylnaphthalene		3.9	U	3.9	7.8
2-Methylphenol		94	U	94	230
3 & 4 Methylphenol		94	U	23	470
Naphthalene		3.9	U	3.9	7.8
2-Nitroaniline		32	U	11	230
3-Nitroaniline		94	U	19	230
4-Nitroaniline		32	U	30	230
Nitrobenzene		3.9	U	2.6	120
2-Nitrophenol		32	U	32	59
4-Nitrophenol		94	U	94	390
N-Nitrosodi-n-propylamine		32	U	32	59
N-Nitrosodiphenylamine		32	U	25	59
Pentachlorophenol		94	U	94	180
Phenanthrene		3.9	U	3.9	7.8
Phenol		32	U	32	59
Pyrene		3.9	U	3.9	7.8
1,2,4-Trichlorobenzene		32	U	32	59
2,4,5-Trichlorophenol		32	U	29	180
2,4,6-Trichlorophenol		94	U	94	180

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	66		45 - 105
2-Fluorophenol (Surr)	78		35 - 105
Nitrobenzene-d5 (Surr)	69		35 - 100
Phenol-d5 (Surr)	76		40 - 100
Terphenyl-d14 (Surr)	67		30 - 125
2,4,6-Tribromophenol (Surr)	47		35 - 125

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0003-0001-SO**

Lab Sample ID: 240-22756-3 Date Sampled: 04/02/2013 0950
Client Matrix: Solid % Moisture: 14.6 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-83588	Instrument ID:	A4HP9
Prep Method:	3540C	Prep Batch:	240-83163	Lab File ID:	30425110.D
Dilution:	1.0			Initial Weight/Volume:	29.83 g
Analysis Date:	04/25/2013 1914	Run Type:	RE	Final Weight/Volume:	2 mL
Prep Date:	04/23/2013 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Acenaphthene		3.9	U H	3.9	7.9
Acenaphthylene		3.9	U H	3.9	7.9
Anthracene		3.9	U H	3.9	7.9
Benzo[a]anthracene		3.9	U H	3.9	7.9
Benzo[a]pyrene		3.9	U H	3.9	7.9
Benzo[b]fluoranthene		3.9	U H	3.9	7.9
Benzo[g,h,i]perylene		3.9	U H	3.9	7.9
Benzoic acid		390	U H	390	780
Benzo[k]fluoranthene		3.9	U H	3.9	7.9
Benzyl alcohol		32	U H	25	390
Bis(2-chloroethoxy)methane		32	U H	26	120
Bis(2-chloroethyl)ether		3.9	U H	2.4	120
bis (2-chloroisopropyl) ether		32	U H	11	120
Bis(2-ethylhexyl) phthalate		28	J H	22	82
4-Bromophenyl phenyl ether		32	U H	15	59
Butyl benzyl phthalate		32	U H	12	82
Carbazole		32	U H	32	59
4-Chloroaniline		32	U H	20	180
4-Chloro-3-methylphenol		32	U H	25	180
2-Chloronaphthalene		3.9	U H	3.9	59
2-Chlorophenol		32	U H	32	59
4-Chlorophenyl phenyl ether		32	U H	15	59
Chrysene		3.9	U H	1.3	7.9
Dibenz(a,h)anthracene		3.9	U H	3.9	7.9
Dibenzofuran		3.9	U H	3.9	59
1,2-Dichlorobenzene		32	U H	11	59
1,3-Dichlorobenzene		32	U H	13	59
1,4-Dichlorobenzene		32	U H	24	59
3,3'-Dichlorobenzidine		94	U H	21	120
2,4-Dichlorophenol		32	U H	24	180
Diethyl phthalate		32	U H	19	82
2,4-Dimethylphenol		94	U H	24	180
Dimethyl phthalate		32	U H	20	82
Di-n-butyl phthalate		37	J H	18	82
4,6-Dinitro-2-methylphenol		94	U H	94	180
2,4-Dinitrophenol		94	U H	94	390
2,4-Dinitrotoluene		32	U H	32	240
2,6-Dinitrotoluene		32	U H	25	240
Di-n-octyl phthalate		32	U H	32	82
Fluoranthene		3.9	U H	3.9	7.9
Fluorene		3.9	U H	3.9	7.9
Hexachlorobenzene		3.9	U H	2.5	7.9
Hexachlorobutadiene		32	U H	32	59
Hexachlorocyclopentadiene		32	U H	32	390
Hexachloroethane		32	U H	11	59
Indeno[1,2,3-cd]pyrene		3.9	U H	3.9	7.9

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0003-0001-SO**

Lab Sample ID: 240-22756-3 Date Sampled: 04/02/2013 0950
Client Matrix: Solid % Moisture: 14.6 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-83588	Instrument ID:	A4HP9
Prep Method:	3540C	Prep Batch:	240-83163	Lab File ID:	30425110.D
Dilution:	1.0			Initial Weight/Volume:	29.83 g
Analysis Date:	04/25/2013 1914	Run Type:	RE	Final Weight/Volume:	2 mL
Prep Date:	04/23/2013 1003			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isophorone		32	U H	15	59
2-Methylnaphthalene		3.9	U H	3.9	7.9
2-Methylphenol		94	U H	94	240
3 & 4 Methylphenol		94	U H	24	470
Naphthalene		3.9	U H	3.9	7.9
2-Nitroaniline		32	U H	11	240
3-Nitroaniline		94	U H	19	240
4-Nitroaniline		32	U H	31	240
Nitrobenzene		3.9	U H	2.6	120
2-Nitrophenol		32	U H	32	59
4-Nitrophenol		94	U H	94	390
N-Nitrosodi-n-propylamine		32	U H	32	59
N-Nitrosodiphenylamine		32	U H	25	59
Pentachlorophenol		94	U H	94	180
Phenanthrene		3.9	U H	3.9	7.9
Phenol		32	U H	32	59
Pyrene		3.9	U H	3.9	7.9
1,2,4-Trichlorobenzene		32	U H	32	59
2,4,5-Trichlorophenol		32	U H	29	180
2,4,6-Trichlorophenol		94	U H	94	180

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	61		45 - 105
2-Fluorophenol (Surr)	64		35 - 105
Nitrobenzene-d5 (Surr)	56		35 - 100
Phenol-d5 (Surr)	68		40 - 100
Terphenyl-d14 (Surr)	59		30 - 125
2,4,6-Tribromophenol (Surr)	53		35 - 125

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0005-0001-SO**

Lab Sample ID: 240-22756-4 Date Sampled: 04/02/2013 0918
Client Matrix: Solid % Moisture: 22.2 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419019.D
Dilution:	1.0			Initial Weight/Volume:	29.57 g
Analysis Date:	04/19/2013 1721			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Acenaphthene		4.3	U	4.3	8.7
Acenaphthylene		4.3	U	4.3	8.7
Anthracene		4.3	U	4.3	8.7
Benzo[a]anthracene		8.9		4.3	8.7
Benzo[a]pyrene		8.2	J	4.3	8.7
Benzo[b]fluoranthene		16		4.3	8.7
Benzo[g,h,i]perylene		6.6	J M	4.3	8.7
Benzoic acid		430	U	430	860
Benzo[k]fluoranthene		7.4	J M	4.3	8.7
Benzyl alcohol		35	U	27	430
Bis(2-chloroethoxy)methane		35	U	29	130
Bis(2-chloroethyl)ether		4.3	U	2.6	130
bis (2-chloroisopropyl) ether		35	U	12	130
Bis(2-ethylhexyl) phthalate		44	J	25	91
4-Bromophenyl phenyl ether		35	U	17	65
Butyl benzyl phthalate		35	U	13	91
Carbazole		35	U	35	65
4-Chloroaniline		35	U	22	200
4-Chloro-3-methylphenol		35	U	27	200
2-Chloronaphthalene		4.3	U	4.3	65
2-Chlorophenol		35	U	35	65
4-Chlorophenyl phenyl ether		35	U	17	65
Chrysene		15		1.4	8.7
Dibenz(a,h)anthracene		4.3	U	4.3	8.7
Dibenzofuran		4.3	U	4.3	65
1,2-Dichlorobenzene		35	U	13	65
1,3-Dichlorobenzene		35	U	14	65
1,4-Dichlorobenzene		35	U	26	65
3,3'-Dichlorobenzidine		100	U	23	130
2,4-Dichlorophenol		35	U	26	200
Diethyl phthalate		35	U	21	91
2,4-Dimethylphenol		100	U	26	200
Dimethyl phthalate		35	U	22	91
Di-n-butyl phthalate		35	U	20	91
4,6-Dinitro-2-methylphenol		100	U	100	200
2,4-Dinitrophenol		100	U	100	430
2,4-Dinitrotoluene		35	U	35	260
2,6-Dinitrotoluene		35	U	27	260
Di-n-octyl phthalate		35	U	35	91
Fluoranthene		30		4.3	8.7
Fluorene		4.3	U	4.3	8.7
Hexachlorobenzene		4.3	U	2.7	8.7
Hexachlorobutadiene		35	U	35	65
Hexachlorocyclopentadiene		35	U	35	430
Hexachloroethane		35	U	12	65
Indeno[1,2,3-cd]pyrene		8.0	J	4.3	8.7

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0005-0001-SO**

Lab Sample ID: 240-22756-4 Date Sampled: 04/02/2013 0918
Client Matrix: Solid % Moisture: 22.2 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419019.D
Dilution:	1.0			Initial Weight/Volume:	29.57 g
Analysis Date:	04/19/2013 1721			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isophorone		35	U	17	65
2-Methylnaphthalene		5.1	J	4.3	8.7
2-Methylphenol		100	U	100	260
3 & 4 Methylphenol		47	J	26	520
Naphthalene		6.6	J	4.3	8.7
2-Nitroaniline		35	U	12	260
3-Nitroaniline		100	U	21	260
4-Nitroaniline		35	U	34	260
Nitrobenzene		4.3	U	2.9	130
2-Nitrophenol		35	U	35	65
4-Nitrophenol		100	U	100	430
N-Nitrosodi-n-propylamine		35	U	35	65
N-Nitrosodiphenylamine		35	U	27	65
Pentachlorophenol		100	U	100	200
Phenanthrene		18		4.3	8.7
Phenol		35	U	35	65
Pyrene		19		4.3	8.7
1,2,4-Trichlorobenzene		35	U	35	65
2,4,5-Trichlorophenol		35	U	33	200
2,4,6-Trichlorophenol		100	U	100	200

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	61		45 - 105
2-Fluorophenol (Surr)	74		35 - 105
Nitrobenzene-d5 (Surr)	64		35 - 100
Phenol-d5 (Surr)	74		40 - 100
Terphenyl-d14 (Surr)	54		30 - 125
2,4,6-Tribromophenol (Surr)	57		35 - 125

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0006-0001-SO**

Lab Sample ID: 240-22756-5 Date Sampled: 04/02/2013 1013
Client Matrix: Solid % Moisture: 17.5 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419022.D
Dilution:	1.0			Initial Weight/Volume:	30.28 g
Analysis Date:	04/19/2013 1831			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Acenaphthene		4.0	U	4.0	8.0
Acenaphthylene		4.0	U	4.0	8.0
Anthracene		4.0	U	4.0	8.0
Benzo[a]anthracene		4.0	U	4.0	8.0
Benzo[a]pyrene		4.0	U	4.0	8.0
Benzo[b]fluoranthene		4.0	U	4.0	8.0
Benzo[g,h,i]perylene		4.0	U	4.0	8.0
Benzoic acid		400	U	400	790
Benzo[k]fluoranthene		4.0	U	4.0	8.0
Benzyl alcohol		32	U	25	400
Bis(2-chloroethoxy)methane		32	U	26	120
Bis(2-chloroethyl)ether		4.0	U	2.4	120
bis (2-chloroisopropyl) ether		32	U	11	120
Bis(2-ethylhexyl) phthalate		49	J	23	84
4-Bromophenyl phenyl ether		32	U	16	60
Butyl benzyl phthalate		32	U	12	84
Carbazole		32	U	32	60
4-Chloroaniline		32	U	20	180
4-Chloro-3-methylphenol		32	U	25	180
2-Chloronaphthalene		4.0	U	4.0	60
2-Chlorophenol		32	U	32	60
4-Chlorophenyl phenyl ether		32	U	16	60
Chrysene		4.0	U	1.3	8.0
Dibenz(a,h)anthracene		4.0	U	4.0	8.0
Dibenzofuran		4.0	U	4.0	60
1,2-Dichlorobenzene		32	U	12	60
1,3-Dichlorobenzene		32	U	13	60
1,4-Dichlorobenzene		32	U	24	60
3,3'-Dichlorobenzidine		96	U	22	120
2,4-Dichlorophenol		32	U	24	180
Diethyl phthalate		32	U	19	84
2,4-Dimethylphenol		96	U	24	180
Dimethyl phthalate		32	U	20	84
Di-n-butyl phthalate		32	U	18	84
4,6-Dinitro-2-methylphenol		96	U	96	180
2,4-Dinitrophenol		96	U	96	400
2,4-Dinitrotoluene		32	U	32	240
2,6-Dinitrotoluene		32	U	25	240
Di-n-octyl phthalate		32	U	32	84
Fluoranthene		4.0	U	4.0	8.0
Fluorene		4.0	U	4.0	8.0
Hexachlorobenzene		4.0	U	2.5	8.0
Hexachlorobutadiene		32	U	32	60
Hexachlorocyclopentadiene		32	U	32	400
Hexachloroethane		32	U	11	60
Indeno[1,2,3-cd]pyrene		4.0	U	4.0	8.0

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0006-0001-SO**

Lab Sample ID: 240-22756-5 Date Sampled: 04/02/2013 1013
Client Matrix: Solid % Moisture: 17.5 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419022.D
Dilution:	1.0			Initial Weight/Volume:	30.28 g
Analysis Date:	04/19/2013 1831			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isophorone		32	U	16	60
2-Methylnaphthalene		4.0	U	4.0	8.0
2-Methylphenol		96	U	96	240
3 & 4 Methylphenol		96	U	24	480
Naphthalene		4.0	U	4.0	8.0
2-Nitroaniline		32	U	11	240
3-Nitroaniline		96	U	19	240
4-Nitroaniline		32	U	31	240
Nitrobenzene		4.0	U	2.6	120
2-Nitrophenol		32	U	32	60
4-Nitrophenol		96	U	96	400
N-Nitrosodi-n-propylamine		32	U	32	60
N-Nitrosodiphenylamine		32	U	25	60
Pentachlorophenol		96	U	96	180
Phenanthrene		4.0	U	4.0	8.0
Phenol		32	U	32	60
Pyrene		4.0	U	4.0	8.0
1,2,4-Trichlorobenzene		32	U	32	60
2,4,5-Trichlorophenol		32	U	30	180
2,4,6-Trichlorophenol		96	U	96	180

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	65		45 - 105
2-Fluorophenol (Surr)	76		35 - 105
Nitrobenzene-d5 (Surr)	67		35 - 100
Phenol-d5 (Surr)	76		40 - 100
Terphenyl-d14 (Surr)	62		30 - 125
2,4,6-Tribromophenol (Surr)	39		35 - 125

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0007-0001-SO**

Lab Sample ID: 240-22756-6 Date Sampled: 04/02/2013 1133
Client Matrix: Solid % Moisture: 14.1 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419024.D
Dilution:	1.0			Initial Weight/Volume:	30.39 g
Analysis Date:	04/19/2013 1918			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Acenaphthene		3.8	U	3.8	7.7
Acenaphthylene		3.8	U	3.8	7.7
Anthracene		3.8	U	3.8	7.7
Benzo[a]anthracene		3.8	U	3.8	7.7
Benzo[a]pyrene		3.8	U	3.8	7.7
Benzo[b]fluoranthene		3.8	U	3.8	7.7
Benzo[g,h,i]perylene		3.8	U	3.8	7.7
Benzoic acid		380	U	380	760
Benzo[k]fluoranthene		3.8	U	3.8	7.7
Benzyl alcohol		31	U	24	380
Bis(2-chloroethoxy)methane		31	U	25	110
Bis(2-chloroethyl)ether		3.8	U	2.3	110
bis (2-chloroisopropyl) ether		31	U	11	110
Bis(2-ethylhexyl) phthalate		26	J	22	80
4-Bromophenyl phenyl ether		31	U	15	57
Butyl benzyl phthalate		31	U	11	80
Carbazole		31	U	31	57
4-Chloroaniline		31	U	20	170
4-Chloro-3-methylphenol		31	U	24	170
2-Chloronaphthalene		3.8	U	3.8	57
2-Chlorophenol		31	U	31	57
4-Chlorophenyl phenyl ether		31	U	15	57
Chrysene		3.8	U	1.3	7.7
Dibenz(a,h)anthracene		3.8	U	3.8	7.7
Dibenzofuran		3.8	U	3.8	57
1,2-Dichlorobenzene		31	U	11	57
1,3-Dichlorobenzene		31	U	13	57
1,4-Dichlorobenzene		31	U	23	57
3,3'-Dichlorobenzidine		92	U	21	110
2,4-Dichlorophenol		31	U	23	170
Diethyl phthalate		31	U	18	80
2,4-Dimethylphenol		92	U	23	170
Dimethyl phthalate		31	U	20	80
Di-n-butyl phthalate		31	U	17	80
4,6-Dinitro-2-methylphenol		92	U	92	170
2,4-Dinitrophenol		92	U	92	380
2,4-Dinitrotoluene		31	U	31	230
2,6-Dinitrotoluene		31	U	24	230
Di-n-octyl phthalate		31	U	31	80
Fluoranthene		3.8	U	3.8	7.7
Fluorene		3.8	U	3.8	7.7
Hexachlorobenzene		3.8	U	2.4	7.7
Hexachlorobutadiene		31	U	31	57
Hexachlorocyclopentadiene		31	U	31	380
Hexachloroethane		31	U	10	57
Indeno[1,2,3-cd]pyrene		3.8	U	3.8	7.7

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0007-0001-SO**

Lab Sample ID: 240-22756-6 Date Sampled: 04/02/2013 1133
Client Matrix: Solid % Moisture: 14.1 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419024.D
Dilution:	1.0			Initial Weight/Volume:	30.39 g
Analysis Date:	04/19/2013 1918			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isophorone		31	U	15	57
2-Methylnaphthalene		3.8	U	3.8	7.7
2-Methylphenol		92	U	92	230
3 & 4 Methylphenol		92	U	23	460
Naphthalene		3.8	U	3.8	7.7
2-Nitroaniline		31	U	10	230
3-Nitroaniline		92	U	18	230
4-Nitroaniline		31	U	30	230
Nitrobenzene		3.8	U	2.5	110
2-Nitrophenol		31	U	31	57
4-Nitrophenol		92	U	92	380
N-Nitrosodi-n-propylamine		31	U	31	57
N-Nitrosodiphenylamine		31	U	24	57
Pentachlorophenol		92	U	92	170
Phenanthrene		3.8	U	3.8	7.7
Phenol		31	U	31	57
Pyrene		3.8	U	3.8	7.7
1,2,4-Trichlorobenzene		31	U	31	57
2,4,5-Trichlorophenol		31	U	29	170
2,4,6-Trichlorophenol		92	U	92	170

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	72		45 - 105
2-Fluorophenol (Surr)	84		35 - 105
Nitrobenzene-d5 (Surr)	76		35 - 100
Phenol-d5 (Surr)	83		40 - 100
Terphenyl-d14 (Surr)	62		30 - 125
2,4,6-Tribromophenol (Surr)	41		35 - 125

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0008-0001-SO**

Lab Sample ID: 240-22756-7 Date Sampled: 04/02/2013 1201
Client Matrix: Solid % Moisture: 17.3 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419027.D
Dilution:	1.0			Initial Weight/Volume:	30.10 g
Analysis Date:	04/19/2013 2028			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Acenaphthene		4.0	U	4.0	8.0
Acenaphthylene		4.0	U	4.0	8.0
Anthracene		5.0	J	4.0	8.0
Benzo[a]anthracene		5.3	J	4.0	8.0
Benzo[a]pyrene		4.0	U	4.0	8.0
Benzo[b]fluoranthene		5.3	J	4.0	8.0
Benzo[g,h,i]perylene		4.0	U	4.0	8.0
Benzoic acid		400	U	400	800
Benzo[k]fluoranthene		4.0	U	4.0	8.0
Benzyl alcohol		33	U	25	400
Bis(2-chloroethoxy)methane		33	U	27	120
Bis(2-chloroethyl)ether		4.0	U	2.4	120
bis (2-chloroisopropyl) ether		33	U	11	120
Bis(2-ethylhexyl) phthalate		35	J	23	84
4-Bromophenyl phenyl ether		33	U	16	60
Butyl benzyl phthalate		33	U	12	84
Carbazole		33	U	33	60
4-Chloroaniline		33	U	20	180
4-Chloro-3-methylphenol		33	U	25	180
2-Chloronaphthalene		4.0	U	4.0	60
2-Chlorophenol		33	U	33	60
4-Chlorophenyl phenyl ether		33	U	16	60
Chrysene		5.9	J	1.3	8.0
Dibenz(a,h)anthracene		4.0	U	4.0	8.0
Dibenzofuran		4.0	U	4.0	60
1,2-Dichlorobenzene		33	U	12	60
1,3-Dichlorobenzene		33	U	13	60
1,4-Dichlorobenzene		33	U	24	60
3,3'-Dichlorobenzidine		96	U	22	120
2,4-Dichlorophenol		33	U	24	180
Diethyl phthalate		33	U	19	84
2,4-Dimethylphenol		96	U	24	180
Dimethyl phthalate		33	U	20	84
Di-n-butyl phthalate		33	U	18	84
4,6-Dinitro-2-methylphenol		96	U	96	180
2,4-Dinitrophenol		96	U	96	400
2,4-Dinitrotoluene		33	U	33	240
2,6-Dinitrotoluene		33	U	25	240
Di-n-octyl phthalate		33	U	33	84
Fluoranthene		15		4.0	8.0
Fluorene		13		4.0	8.0
Hexachlorobenzene		4.0	U	2.5	8.0
Hexachlorobutadiene		33	U	33	60
Hexachlorocyclopentadiene		33	U	33	400
Hexachloroethane		33	U	11	60
Indeno[1,2,3-cd]pyrene		4.0	U	4.0	8.0

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0008-0001-SO**

Lab Sample ID: 240-22756-7 Date Sampled: 04/02/2013 1201
Client Matrix: Solid % Moisture: 17.3 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419027.D
Dilution:	1.0			Initial Weight/Volume:	30.10 g
Analysis Date:	04/19/2013 2028			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isophorone		33	U	16	60
2-Methylnaphthalene		15		4.0	8.0
2-Methylphenol		96	U	96	240
3 & 4 Methylphenol		96	U	24	480
Naphthalene		4.0	U	4.0	8.0
2-Nitroaniline		33	U	11	240
3-Nitroaniline		96	U	19	240
4-Nitroaniline		33	U	31	240
Nitrobenzene		4.0	U	2.7	120
2-Nitrophenol		33	U	33	60
4-Nitrophenol		96	U	96	400
N-Nitrosodi-n-propylamine		33	U	33	60
N-Nitrosodiphenylamine		33	U	25	60
Pentachlorophenol		96	U	96	180
Phenanthrene		32		4.0	8.0
Phenol		33	U	33	60
Pyrene		13		4.0	8.0
1,2,4-Trichlorobenzene		33	U	33	60
2,4,5-Trichlorophenol		33	U	30	180
2,4,6-Trichlorophenol		96	U	96	180

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	64		45 - 105
2-Fluorophenol (Surr)	78		35 - 105
Nitrobenzene-d5 (Surr)	70		35 - 100
Phenol-d5 (Surr)	76		40 - 100
Terphenyl-d14 (Surr)	58		30 - 125
2,4,6-Tribromophenol (Surr)	48		35 - 125

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0009-0001-SO**

Lab Sample ID: 240-22756-8 Date Sampled: 04/02/2013 1238
Client Matrix: Solid % Moisture: 14.9 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419026.D
Dilution:	1.0			Initial Weight/Volume:	30.39 g
Analysis Date:	04/19/2013 2005			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Acenaphthene		3.8	U	3.8	7.7
Acenaphthylene		3.8	U	3.8	7.7
Anthracene		3.8	U	3.8	7.7
Benzo[a]anthracene		3.8	U	3.8	7.7
Benzo[a]pyrene		3.8	U	3.8	7.7
Benzo[b]fluoranthene		3.8	U	3.8	7.7
Benzo[g,h,i]perylene		3.8	U	3.8	7.7
Benzoic acid		390	U	390	770
Benzo[k]fluoranthene		3.8	U	3.8	7.7
Benzyl alcohol		31	U	24	380
Bis(2-chloroethoxy)methane		31	U	26	120
Bis(2-chloroethyl)ether		3.8	U	2.3	120
bis (2-chloroisopropyl) ether		31	U	11	120
Bis(2-ethylhexyl) phthalate		230		22	81
4-Bromophenyl phenyl ether		31	U	15	58
Butyl benzyl phthalate		31	U	12	81
Carbazole		31	U	31	58
4-Chloroaniline		31	U	20	170
4-Chloro-3-methylphenol		31	U	24	170
2-Chloronaphthalene		3.8	U	3.8	58
2-Chlorophenol		31	U	31	58
4-Chlorophenyl phenyl ether		31	U	15	58
Chrysene		3.8	U	1.3	7.7
Dibenz(a,h)anthracene		3.8	U	3.8	7.7
Dibenzofuran		3.8	U	3.8	58
1,2-Dichlorobenzene		31	U	11	58
1,3-Dichlorobenzene		31	U	13	58
1,4-Dichlorobenzene		31	U	23	58
3,3'-Dichlorobenzidine		93	U	21	120
2,4-Dichlorophenol		31	U	23	170
Diethyl phthalate		31	U	19	81
2,4-Dimethylphenol		93	U	23	170
Dimethyl phthalate		31	U	20	81
Di-n-butyl phthalate		31	U	17	81
4,6-Dinitro-2-methylphenol		93	U	93	170
2,4-Dinitrophenol		93	U	93	380
2,4-Dinitrotoluene		31	U	31	230
2,6-Dinitrotoluene		31	U	24	230
Di-n-octyl phthalate		31	U	31	81
Fluoranthene		3.8	U	3.8	7.7
Fluorene		3.8	U	3.8	7.7
Hexachlorobenzene		3.8	U	2.4	7.7
Hexachlorobutadiene		31	U	31	58
Hexachlorocyclopentadiene		31	U	31	380
Hexachloroethane		31	U	10	58
Indeno[1,2,3-cd]pyrene		3.8	U	3.8	7.7

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0009-0001-SO**

Lab Sample ID: 240-22756-8 Date Sampled: 04/02/2013 1238
Client Matrix: Solid % Moisture: 14.9 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419026.D
Dilution:	1.0			Initial Weight/Volume:	30.39 g
Analysis Date:	04/19/2013 2005			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isophorone		31	U	15	58
2-Methylnaphthalene		3.8	U	3.8	7.7
2-Methylphenol		93	U	93	230
3 & 4 Methylphenol		93	U	23	460
Naphthalene		3.8	U	3.8	7.7
2-Nitroaniline		31	U	11	230
3-Nitroaniline		93	U	19	230
4-Nitroaniline		31	U	30	230
Nitrobenzene		3.8	U	2.6	120
2-Nitrophenol		31	U	31	58
4-Nitrophenol		93	U	93	380
N-Nitrosodi-n-propylamine		31	U	31	58
N-Nitrosodiphenylamine		31	U	24	58
Pentachlorophenol		93	U	93	170
Phenanthrene		3.8	U	3.8	7.7
Phenol		31	U	31	58
Pyrene		3.8	U	3.8	7.7
1,2,4-Trichlorobenzene		31	U	31	58
2,4,5-Trichlorophenol		31	U	29	170
2,4,6-Trichlorophenol		93	U	93	170

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	68		45 - 105
2-Fluorophenol (Surr)	81		35 - 105
Nitrobenzene-d5 (Surr)	73		35 - 100
Phenol-d5 (Surr)	78		40 - 100
Terphenyl-d14 (Surr)	61		30 - 125
2,4,6-Tribromophenol (Surr)	44		35 - 125

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0016-0001-SO**

Lab Sample ID: 240-22756-10 Date Sampled: 04/02/2013 0945
Client Matrix: Solid % Moisture: 21.4 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419010.D
Dilution:	2.5			Initial Weight/Volume:	30.01 g
Analysis Date:	04/19/2013 1351			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Acenaphthene		110		10	21
Acenaphthylene		32		10	21
Anthracene		65	M	10	21
Benzo[a]anthracene		80		10	21
Benzo[a]pyrene		61		10	21
Benzo[b]fluoranthene		69		10	21
Benzo[g,h,i]perylene		44	M	10	21
Benzoic acid		1100	U	1100	2100
Benzo[k]fluoranthene		25	M	10	21
Benzyl alcohol		86	U	67	1000
Bis(2-chloroethoxy)methane		86	U	70	320
Bis(2-chloroethyl)ether		10	U	6.4	320
bis (2-chloroisopropyl) ether		86	U	30	320
Bis(2-ethylhexyl) phthalate		86	U	60	220
4-Bromophenyl phenyl ether		86	U	41	160
Butyl benzyl phthalate		86	U	32	220
Carbazole		86	U	86	160
4-Chloroaniline		86	U	54	480
4-Chloro-3-methylphenol		86	U	67	480
2-Chloronaphthalene		10	U	10	160
2-Chlorophenol		86	U	86	160
4-Chlorophenyl phenyl ether		86	U	41	160
Chrysene		93		3.5	21
Dibenz(a,h)anthracene		10	U	10	21
Dibenzofuran		110	J	10	160
1,2-Dichlorobenzene		86	U	31	160
1,3-Dichlorobenzene		86	U	35	160
1,4-Dichlorobenzene		86	U	64	160
3,3'-Dichlorobenzidine		250	U	57	320
2,4-Dichlorophenol		86	U	64	480
Diethyl phthalate		86	U	51	220
2,4-Dimethylphenol		250	U	64	480
Dimethyl phthalate		86	U	54	220
Di-n-butyl phthalate		86	U	48	220
4,6-Dinitro-2-methylphenol		250	U	250	480
2,4-Dinitrophenol		250	U	250	1000
2,4-Dinitrotoluene		86	U	86	640
2,6-Dinitrotoluene		86	U	67	640
Di-n-octyl phthalate		86	U	86	220
Fluoranthene		250		10	21
Fluorene		170		10	21
Hexachlorobenzene		10	U	6.7	21
Hexachlorobutadiene		86	U	86	160
Hexachlorocyclopentadiene		86	U	86	1000
Hexachloroethane		86	U	29	160
Indeno[1,2,3-cd]pyrene		20	J	10	21

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0016-0001-SO**

Lab Sample ID: 240-22756-10 Date Sampled: 04/02/2013 0945
Client Matrix: Solid % Moisture: 21.4 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419010.D
Dilution:	2.5			Initial Weight/Volume:	30.01 g
Analysis Date:	04/19/2013 1351			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isophorone		86	U	41	160
2-Methylnaphthalene		10	U	10	21
2-Methylphenol		250	U	250	640
3 & 4 Methylphenol		250	U	64	1300
Naphthalene		37		10	21
2-Nitroaniline		86	U	29	640
3-Nitroaniline		250	U	51	640
4-Nitroaniline		86	U	83	640
Nitrobenzene		10	U	7.0	320
2-Nitrophenol		86	U	86	160
4-Nitrophenol		250	U	250	1000
N-Nitrosodi-n-propylamine		86	U	86	160
N-Nitrosodiphenylamine		86	U	67	160
Pentachlorophenol		250	U	250	480
Phenanthrene		180		10	21
Phenol		86	U	86	160
Pyrene		240		10	21
1,2,4-Trichlorobenzene		86	U	86	160
2,4,5-Trichlorophenol		86	U	80	480
2,4,6-Trichlorophenol		250	U	250	480

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	68		45 - 105
2-Fluorophenol (Surr)	78		35 - 105
Nitrobenzene-d5 (Surr)	69		35 - 100
Phenol-d5 (Surr)	77		40 - 100
Terphenyl-d14 (Surr)	62		30 - 125
2,4,6-Tribromophenol (Surr)	67		35 - 125

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0017-0001-SO**

Lab Sample ID: 240-22756-11 Date Sampled: 04/02/2013 0912
Client Matrix: Solid % Moisture: 30.1 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419020.D
Dilution:	1.0			Initial Weight/Volume:	30.05 g
Analysis Date:	04/19/2013 1745			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Acenaphthene		4.7	U	4.7	9.5
Acenaphthylene		4.7	U	4.7	9.5
Anthracene		4.7	U	4.7	9.5
Benzo[a]anthracene		9.2	J	4.7	9.5
Benzo[a]pyrene		10		4.7	9.5
Benzo[b]fluoranthene		24		4.7	9.5
Benzo[g,h,i]perylene		4.7	U	4.7	9.5
Benzoic acid		480	U	480	940
Benzo[k]fluoranthene		4.7	U	4.7	9.5
Benzyl alcohol		39	U	30	470
Bis(2-chloroethoxy)methane		39	U	31	140
Bis(2-chloroethyl)ether		4.7	U	2.9	140
bis (2-chloroisopropyl) ether		39	U	14	140
Bis(2-ethylhexyl) phthalate		27	J	27	100
4-Bromophenyl phenyl ether		39	U	19	71
Butyl benzyl phthalate		39	U	14	100
Carbazole		39	U	39	71
4-Chloroaniline		39	U	24	210
4-Chloro-3-methylphenol		39	U	30	210
2-Chloronaphthalene		4.7	U	4.7	71
2-Chlorophenol		39	U	39	71
4-Chlorophenyl phenyl ether		39	U	19	71
Chrysene		17		1.6	9.5
Dibenz(a,h)anthracene		4.7	U	4.7	9.5
Dibenzofuran		4.7	U	4.7	71
1,2-Dichlorobenzene		39	U	14	71
1,3-Dichlorobenzene		39	U	16	71
1,4-Dichlorobenzene		39	U	29	71
3,3'-Dichlorobenzidine		110	U	26	140
2,4-Dichlorophenol		39	U	29	210
Diethyl phthalate		39	U	23	100
2,4-Dimethylphenol		110	U	29	210
Dimethyl phthalate		39	U	24	100
Di-n-butyl phthalate		39	U	21	100
4,6-Dinitro-2-methylphenol		110	U	110	210
2,4-Dinitrophenol		110	U	110	470
2,4-Dinitrotoluene		39	U	39	290
2,6-Dinitrotoluene		39	U	30	290
Di-n-octyl phthalate		39	U	39	100
Fluoranthene		30		4.7	9.5
Fluorene		4.7	U	4.7	9.5
Hexachlorobenzene		4.7	U	3.0	9.5
Hexachlorobutadiene		39	U	39	71
Hexachlorocyclopentadiene		39	U	39	470
Hexachloroethane		39	U	13	71
Indeno[1,2,3-cd]pyrene		6.5	J	4.7	9.5

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0017-0001-SO**

Lab Sample ID: 240-22756-11 Date Sampled: 04/02/2013 0912
Client Matrix: Solid % Moisture: 30.1 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419020.D
Dilution:	1.0			Initial Weight/Volume:	30.05 g
Analysis Date:	04/19/2013 1745			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isophorone		39	U	19	71
2-Methylnaphthalene		5.2	J	4.7	9.5
2-Methylphenol		110	U	110	290
3 & 4 Methylphenol		110	U	29	570
Naphthalene		7.0	J	4.7	9.5
2-Nitroaniline		39	U	13	290
3-Nitroaniline		110	U	23	290
4-Nitroaniline		39	U	37	290
Nitrobenzene		4.7	U	3.1	140
2-Nitrophenol		39	U	39	71
4-Nitrophenol		110	U	110	470
N-Nitrosodi-n-propylamine		39	U	39	71
N-Nitrosodiphenylamine		39	U	30	71
Pentachlorophenol		110	U	110	210
Phenanthrene		17		4.7	9.5
Phenol		39	U	39	71
Pyrene		16		4.7	9.5
1,2,4-Trichlorobenzene		39	U	39	71
2,4,5-Trichlorophenol		39	U	36	210
2,4,6-Trichlorophenol		110	U	110	210

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	56		45 - 105
2-Fluorophenol (Surr)	65		35 - 105
Nitrobenzene-d5 (Surr)	56		35 - 100
Phenol-d5 (Surr)	67		40 - 100
Terphenyl-d14 (Surr)	52		30 - 125
2,4,6-Tribromophenol (Surr)	55		35 - 125

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0018-0001-SO**

Lab Sample ID: 240-22756-12 Date Sampled: 04/02/2013 1008
Client Matrix: Solid % Moisture: 15.1 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419012.D
Dilution:	2.5			Initial Weight/Volume:	29.98 g
Analysis Date:	04/19/2013 1438			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Acenaphthene		170		9.7	20
Acenaphthylene		48		9.7	20
Anthracene		140	M	9.7	20
Benzo[a]anthracene		83		9.7	20
Benzo[a]pyrene		66		9.7	20
Benzo[b]fluoranthene		69		9.7	20
Benzo[g,h,i]perylene		42	M	9.7	20
Benzoic acid		980	U	980	1900
Benzo[k]fluoranthene		55		9.7	20
Benzyl alcohol		80	U	62	970
Bis(2-chloroethoxy)methane		80	U	65	290
Bis(2-chloroethyl)ether		9.7	U	5.9	290
bis (2-chloroisopropyl) ether		80	U	28	290
Bis(2-ethylhexyl) phthalate		66	J	56	210
4-Bromophenyl phenyl ether		80	U	38	150
Butyl benzyl phthalate		80	U	29	210
Carbazole		80	U	80	150
4-Chloroaniline		80	U	50	440
4-Chloro-3-methylphenol		80	U	62	440
2-Chloronaphthalene		9.7	U	9.7	150
2-Chlorophenol		80	U	80	150
4-Chlorophenyl phenyl ether		80	U	38	150
Chrysene		73		3.2	20
Dibenz(a,h)anthracene		9.7	U	9.7	20
Dibenzofuran		130	J	9.7	150
1,2-Dichlorobenzene		80	U	29	150
1,3-Dichlorobenzene		80	U	32	150
1,4-Dichlorobenzene		80	U	59	150
3,3'-Dichlorobenzidine		240	U	53	290
2,4-Dichlorophenol		80	U	59	440
Diethyl phthalate		80	U	47	210
2,4-Dimethylphenol		240	U	59	440
Dimethyl phthalate		80	U	50	210
Di-n-butyl phthalate		80	U	44	210
4,6-Dinitro-2-methylphenol		240	U	240	440
2,4-Dinitrophenol		240	U	240	970
2,4-Dinitrotoluene		80	U	80	590
2,6-Dinitrotoluene		80	U	62	590
Di-n-octyl phthalate		80	U	80	210
Fluoranthene		280		9.7	20
Fluorene		270		9.7	20
Hexachlorobenzene		9.7	U	6.2	20
Hexachlorobutadiene		80	U	80	150
Hexachlorocyclopentadiene		80	U	80	970
Hexachloroethane		80	U	27	150
Indeno[1,2,3-cd]pyrene		28	M	9.7	20

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0018-0001-SO**

Lab Sample ID: 240-22756-12 Date Sampled: 04/02/2013 1008
Client Matrix: Solid % Moisture: 15.1 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419012.D
Dilution:	2.5			Initial Weight/Volume:	29.98 g
Analysis Date:	04/19/2013 1438			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isophorone		80	U	38	150
2-Methylnaphthalene		9.7	U	9.7	20
2-Methylphenol		240	U	240	590
3 & 4 Methylphenol		240	U	59	1200
Naphthalene		9.7	U	9.7	20
2-Nitroaniline		80	U	27	590
3-Nitroaniline		240	U	47	590
4-Nitroaniline		80	U	77	590
Nitrobenzene		9.7	U	6.5	290
2-Nitrophenol		80	U	80	150
4-Nitrophenol		240	U	240	970
N-Nitrosodi-n-propylamine		80	U	80	150
N-Nitrosodiphenylamine		80	U	62	150
Pentachlorophenol		240	U	240	440
Phenanthrene		90		9.7	20
Phenol		80	U	80	150
Pyrene		280		9.7	20
1,2,4-Trichlorobenzene		80	U	80	150
2,4,5-Trichlorophenol		80	U	74	440
2,4,6-Trichlorophenol		240	U	240	440

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	63		45 - 105
2-Fluorophenol (Surr)	67		35 - 105
Nitrobenzene-d5 (Surr)	64		35 - 100
Phenol-d5 (Surr)	68		40 - 100
Terphenyl-d14 (Surr)	55		30 - 125
2,4,6-Tribromophenol (Surr)	58		35 - 125

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0019-0001-SO**

Lab Sample ID: 240-22756-13 Date Sampled: 04/02/2013 1159
Client Matrix: Solid % Moisture: 13.5 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419009.D
Dilution:	10			Initial Weight/Volume:	30.39 g
Analysis Date:	04/19/2013 1328			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Acenaphthene		720	D	38	76
Acenaphthylene		38	U	38	76
Anthracene		38	U	38	76
Benzo[a]anthracene		120	D	38	76
Benzo[a]pyrene		75	J D M	38	76
Benzo[b]fluoranthene		77	D	38	76
Benzo[g,h,i]perylene		44	J D M	38	76
Benzoic acid		3800	U	3800	7500
Benzo[k]fluoranthene		62	J D	38	76
Benzyl alcohol		310	U	240	3800
Bis(2-chloroethoxy)methane		310	U	250	1100
Bis(2-chloroethyl)ether		38	U	23	1100
bis (2-chloroisopropyl) ether		310	U	110	1100
Bis(2-ethylhexyl) phthalate		310	U	220	800
4-Bromophenyl phenyl ether		310	U	150	570
Butyl benzyl phthalate		310	U	110	800
Carbazole		310	U	310	570
4-Chloroaniline		310	U	190	1700
4-Chloro-3-methylphenol		310	U	240	1700
2-Chloronaphthalene		38	U	38	570
2-Chlorophenol		310	U	310	570
4-Chlorophenyl phenyl ether		310	U	150	570
Chrysene		100	D	13	76
Dibenz(a,h)anthracene		38	U	38	76
Dibenzofuran		470	J D	38	570
1,2-Dichlorobenzene		310	U	110	570
1,3-Dichlorobenzene		310	U	130	570
1,4-Dichlorobenzene		310	U	230	570
3,3'-Dichlorobenzidine		910	U	210	1100
2,4-Dichlorophenol		310	U	230	1700
Diethyl phthalate		310	U	180	800
2,4-Dimethylphenol		910	U	230	1700
Dimethyl phthalate		310	U	190	800
Di-n-butyl phthalate		310	U	170	800
4,6-Dinitro-2-methylphenol		910	U	910	1700
2,4-Dinitrophenol		910	U	910	3800
2,4-Dinitrotoluene		310	U	310	2300
2,6-Dinitrotoluene		310	U	240	2300
Di-n-octyl phthalate		310	U	310	800
Fluoranthene		310	D	38	76
Fluorene		1200	D	38	76
Hexachlorobenzene		38	U	24	76
Hexachlorobutadiene		310	U	310	570
Hexachlorocyclopentadiene		310	U	310	3800
Hexachloroethane		310	U	100	570
Indeno[1,2,3-cd]pyrene		38	U	38	76

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0019-0001-SO**

Lab Sample ID: 240-22756-13 Date Sampled: 04/02/2013 1159
Client Matrix: Solid % Moisture: 13.5 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419009.D
Dilution:	10			Initial Weight/Volume:	30.39 g
Analysis Date:	04/19/2013 1328			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isophorone		310	U	150	570
2-Methylnaphthalene		530	D	38	76
2-Methylphenol		910	U	910	2300
3 & 4 Methylphenol		910	U	230	4600
Naphthalene		38	U	38	76
2-Nitroaniline		310	U	100	2300
3-Nitroaniline		910	U	180	2300
4-Nitroaniline		310	U	300	2300
Nitrobenzene		38	U	25	1100
2-Nitrophenol		310	U	310	570
4-Nitrophenol		910	U	910	3800
N-Nitrosodi-n-propylamine		310	U	310	570
N-Nitrosodiphenylamine		310	U	240	570
Pentachlorophenol		910	U	910	1700
Phenanthrene		1700	D	38	76
Phenol		310	U	310	570
Pyrene		470	D	38	76
1,2,4-Trichlorobenzene		310	U	310	570
2,4,5-Trichlorophenol		310	U	290	1700
2,4,6-Trichlorophenol		910	U	910	1700

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	67		45 - 105
2-Fluorophenol (Surr)	67		35 - 105
Nitrobenzene-d5 (Surr)	88		35 - 100
Phenol-d5 (Surr)	67		40 - 100
Terphenyl-d14 (Surr)	60		30 - 125
2,4,6-Tribromophenol (Surr)	60		35 - 125

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0020-0001-SO**

Lab Sample ID: 240-22756-14 Date Sampled: 04/02/2013 1245
Client Matrix: Solid % Moisture: 15.7 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419011.D
Dilution:	2.5			Initial Weight/Volume:	30.19 g
Analysis Date:	04/19/2013 1414			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Acenaphthene		110		9.7	20
Acenaphthylene		27		9.7	20
Anthracene		280		9.7	20
Benzo[a]anthracene		280		9.7	20
Benzo[a]pyrene		210		9.7	20
Benzo[b]fluoranthene		270	M	9.7	20
Benzo[g,h,i]perylene		91		9.7	20
Benzoic acid		980	U	980	1900
Benzo[k]fluoranthene		78	M	9.7	20
Benzyl alcohol		80	U	62	970
Bis(2-chloroethoxy)methane		80	U	65	290
Bis(2-chloroethyl)ether		9.7	U	5.9	290
bis (2-chloroisopropyl) ether		80	U	28	290
Bis(2-ethylhexyl) phthalate		100	J	56	210
4-Bromophenyl phenyl ether		80	U	38	150
Butyl benzyl phthalate		80	U	29	210
Carbazole		80	U	80	150
4-Chloroaniline		80	U	50	440
4-Chloro-3-methylphenol		80	U	62	440
2-Chloronaphthalene		9.7	U	9.7	150
2-Chlorophenol		80	U	80	150
4-Chlorophenyl phenyl ether		80	U	38	150
Chrysene		300		3.2	20
Dibenz(a,h)anthracene		9.7	U	9.7	20
Dibenzofuran		110	J	9.7	150
1,2-Dichlorobenzene		80	U	29	150
1,3-Dichlorobenzene		80	U	32	150
1,4-Dichlorobenzene		80	U	59	150
3,3'-Dichlorobenzidine		240	U	53	290
2,4-Dichlorophenol		80	U	59	440
Diethyl phthalate		80	U	47	210
2,4-Dimethylphenol		240	U	59	440
Dimethyl phthalate		80	U	50	210
Di-n-butyl phthalate		80	U M	44	210
4,6-Dinitro-2-methylphenol		240	U	240	440
2,4-Dinitrophenol		240	U	240	970
2,4-Dinitrotoluene		80	U	80	590
2,6-Dinitrotoluene		80	U	62	590
Di-n-octyl phthalate		80	U	80	210
Fluoranthene		1000		9.7	20
Fluorene		200		9.7	20
Hexachlorobenzene		9.7	U	6.2	20
Hexachlorobutadiene		80	U	80	150
Hexachlorocyclopentadiene		80	U	80	970
Hexachloroethane		80	U	27	150
Indeno[1,2,3-cd]pyrene		80		9.7	20

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0020-0001-SO**

Lab Sample ID: 240-22756-14 Date Sampled: 04/02/2013 1245
Client Matrix: Solid % Moisture: 15.7 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419011.D
Dilution:	2.5			Initial Weight/Volume:	30.19 g
Analysis Date:	04/19/2013 1414			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isophorone		80	U	38	150
2-Methylnaphthalene		9.7	U	9.7	20
2-Methylphenol		240	U	240	590
3 & 4 Methylphenol		240	U	59	1200
Naphthalene		9.7	U	9.7	20
2-Nitroaniline		80	U	27	590
3-Nitroaniline		240	U	47	590
4-Nitroaniline		80	U	77	590
Nitrobenzene		9.7	U	6.5	290
2-Nitrophenol		80	U	80	150
4-Nitrophenol		240	U	240	970
N-Nitrosodi-n-propylamine		80	U	80	150
N-Nitrosodiphenylamine		80	U	62	150
Pentachlorophenol		240	U	240	440
Phenanthrene		160		9.7	20
Phenol		80	U	80	150
Pyrene		770		9.7	20
1,2,4-Trichlorobenzene		80	U	80	150
2,4,5-Trichlorophenol		80	U	74	440
2,4,6-Trichlorophenol		240	U	240	440

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	67		45 - 105
2-Fluorophenol (Surr)	71		35 - 105
Nitrobenzene-d5 (Surr)	64		35 - 100
Phenol-d5 (Surr)	72		40 - 100
Terphenyl-d14 (Surr)	61		30 - 125
2,4,6-Tribromophenol (Surr)	63		35 - 125

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0021-0001-SO**

Lab Sample ID: 240-22756-15 Date Sampled: 04/02/2013 1250
Client Matrix: Solid % Moisture: 24.1 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419018.D
Dilution:	1.0			Initial Weight/Volume:	29.75 g
Analysis Date:	04/19/2013 1658			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Acenaphthene		29		4.4	8.9
Acenaphthylene		4.4	U	4.4	8.9
Anthracene		79		4.4	8.9
Benzo[a]anthracene		170		4.4	8.9
Benzo[a]pyrene		130		4.4	8.9
Benzo[b]fluoranthene		190		4.4	8.9
Benzo[g,h,i]perylene		60		4.4	8.9
Benzoic acid		440	U	440	880
Benzo[k]fluoranthene		37	M	4.4	8.9
Benzyl alcohol		36	U	28	440
Bis(2-chloroethoxy)methane		36	U	29	130
Bis(2-chloroethyl)ether		4.4	U	2.7	130
bis (2-chloroisopropyl) ether		36	U	13	130
Bis(2-ethylhexyl) phthalate		54	J	25	93
4-Bromophenyl phenyl ether		36	U	17	66
Butyl benzyl phthalate		36	U	13	93
Carbazole		36	U	36	66
4-Chloroaniline		36	U	23	200
4-Chloro-3-methylphenol		36	U	28	200
2-Chloronaphthalene		4.4	U	4.4	66
2-Chlorophenol		36	U	36	66
4-Chlorophenyl phenyl ether		36	U	17	66
Chrysene		140		1.5	8.9
Dibenz(a,h)anthracene		4.4	U	4.4	8.9
Dibenzofuran		4.4	U	4.4	66
1,2-Dichlorobenzene		36	U	13	66
1,3-Dichlorobenzene		36	U	15	66
1,4-Dichlorobenzene		36	U	27	66
3,3'-Dichlorobenzidine		110	U	24	130
2,4-Dichlorophenol		36	U	27	200
Diethyl phthalate		36	U	21	93
2,4-Dimethylphenol		110	U	27	200
Dimethyl phthalate		36	U	23	93
Di-n-butyl phthalate		36	U	20	93
4,6-Dinitro-2-methylphenol		110	U	110	200
2,4-Dinitrophenol		110	U	110	440
2,4-Dinitrotoluene		36	U	36	270
2,6-Dinitrotoluene		36	U	28	270
Di-n-octyl phthalate		36	U	36	93
Fluoranthene		440		4.4	8.9
Fluorene		26		4.4	8.9
Hexachlorobenzene		4.4	U	2.8	8.9
Hexachlorobutadiene		36	U	36	66
Hexachlorocyclopentadiene		36	U	36	440
Hexachloroethane		36	U	12	66
Indeno[1,2,3-cd]pyrene		58		4.4	8.9

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0021-0001-SO**

Lab Sample ID: 240-22756-15 Date Sampled: 04/02/2013 1250
Client Matrix: Solid % Moisture: 24.1 Date Received: 04/03/2013 0815

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Prep Method:	3540C	Prep Batch:	240-81947	Lab File ID:	30419018.D
Dilution:	1.0			Initial Weight/Volume:	29.75 g
Analysis Date:	04/19/2013 1658			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isophorone		36	U	17	66
2-Methylnaphthalene		4.4	U	4.4	8.9
2-Methylphenol		110	U	110	270
3 & 4 Methylphenol		110	U	27	530
Naphthalene		4.4	U	4.4	8.9
2-Nitroaniline		36	U	12	270
3-Nitroaniline		110	U	21	270
4-Nitroaniline		36	U	35	270
Nitrobenzene		4.4	U	2.9	130
2-Nitrophenol		36	U	36	66
4-Nitrophenol		110	U	110	440
N-Nitrosodi-n-propylamine		36	U	36	66
N-Nitrosodiphenylamine		36	U	28	66
Pentachlorophenol		110	U	110	200
Phenanthrene		170		4.4	8.9
Phenol		36	U	36	66
Pyrene		330		4.4	8.9
1,2,4-Trichlorobenzene		36	U	36	66
2,4,5-Trichlorophenol		36	U	33	200
2,4,6-Trichlorophenol		110	U	110	200

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	69		45 - 105
2-Fluorophenol (Surr)	83		35 - 105
Nitrobenzene-d5 (Surr)	74		35 - 100
Phenol-d5 (Surr)	82		40 - 100
Terphenyl-d14 (Surr)	62		30 - 125
2,4,6-Tribromophenol (Surr)	68		35 - 125

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0001-0001,0002-SO**

Lab Sample ID: 240-22756-1 Date Sampled: 04/02/2013 0842
Client Matrix: Solid % Moisture: 13.5 Date Received: 04/03/2013 0815

8015B_DRO/DOD Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B_DRO/DOD	Analysis Batch:	240-82317	Instrument ID:	A2HP5F
Prep Method:	3540C	Prep Batch:	240-82081	Lab File ID:	P5F17031.D
Dilution:	1.0			Initial Weight/Volume:	29.82 g
Analysis Date:	04/18/2013 0504			Final Weight/Volume:	5 mL
Prep Date:	04/16/2013 0942			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
C10-C20		11	U	11	19
C20-C34		11	U	11	19

Surrogate	%Rec	Qualifier	Acceptance Limits
n-Nonane	55		10 - 110

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0002-0001-SO**

Lab Sample ID: 240-22756-2 Date Sampled: 04/02/2013 0950
Client Matrix: Solid % Moisture: 14.0 Date Received: 04/03/2013 0815

8015B_DRO/DOD Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B_DRO/DOD	Analysis Batch:	240-82317	Instrument ID:	A2HP5F
Prep Method:	3540C	Prep Batch:	240-82081	Lab File ID:	P5F17034.D
Dilution:	1.0			Initial Weight/Volume:	29.99 g
Analysis Date:	04/18/2013 0636			Final Weight/Volume:	5 mL
Prep Date:	04/16/2013 0942			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
C10-C20		11	U	11	19
C20-C34		11	U	11	19

Surrogate	%Rec	Qualifier	Acceptance Limits
n-Nonane	49		10 - 110

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0003-0001-SO**

Lab Sample ID: 240-22756-3 Date Sampled: 04/02/2013 0950
Client Matrix: Solid % Moisture: 14.6 Date Received: 04/03/2013 0815

8015B_DRO/DOD Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B_DRO/DOD	Analysis Batch:	240-82317	Instrument ID:	A2HP5F
Prep Method:	3540C	Prep Batch:	240-82081	Lab File ID:	P5F17035.D
Dilution:	1.0			Initial Weight/Volume:	29.56 g
Analysis Date:	04/18/2013 0706			Final Weight/Volume:	5 mL
Prep Date:	04/16/2013 0942			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
C10-C20		11	U	11	20
C20-C34		11	U	11	20

Surrogate	%Rec	Qualifier	Acceptance Limits
n-Nonane	52		10 - 110

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0005-0001-SO**

Lab Sample ID: 240-22756-4 Date Sampled: 04/02/2013 0918
Client Matrix: Solid % Moisture: 22.2 Date Received: 04/03/2013 0815

8015B_DRO/DOD Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B_DRO/DOD	Analysis Batch:	240-82531	Instrument ID:	A2HP5F
Prep Method:	3540C	Prep Batch:	240-82081	Lab File ID:	P5F18023.D
Dilution:	1.0			Initial Weight/Volume:	30.04 g
Analysis Date:	04/19/2013 0209			Final Weight/Volume:	5 mL
Prep Date:	04/16/2013 0942			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
C10-C20		12	U	12	21
C20-C34		58		12	21

Surrogate	%Rec	Qualifier	Acceptance Limits
n-Nonane	58		10 - 110

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0006-0001-SO**

Lab Sample ID: 240-22756-5 Date Sampled: 04/02/2013 1013
Client Matrix: Solid % Moisture: 17.5 Date Received: 04/03/2013 0815

8015B_DRO/DOD Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B_DRO/DOD	Analysis Batch:	240-82317	Instrument ID:	A2HP5F
Prep Method:	3540C	Prep Batch:	240-82081	Lab File ID:	P5F17038.D
Dilution:	1.0			Initial Weight/Volume:	29.88 g
Analysis Date:	04/18/2013 0837			Final Weight/Volume:	5 mL
Prep Date:	04/16/2013 0942			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
C10-C20		11	U	11	20
C20-C34		11	U	11	20

Surrogate	%Rec	Qualifier	Acceptance Limits
n-Nonane	51		10 - 110

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0007-0001-SO**

Lab Sample ID: 240-22756-6 Date Sampled: 04/02/2013 1133
Client Matrix: Solid % Moisture: 14.1 Date Received: 04/03/2013 0815

8015B_DRO/DOD Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B_DRO/DOD	Analysis Batch:	240-82317	Instrument ID:	A2HP5F
Prep Method:	3540C	Prep Batch:	240-82081	Lab File ID:	P5F17039.D
Dilution:	1.0			Initial Weight/Volume:	29.56 g
Analysis Date:	04/18/2013 0907			Final Weight/Volume:	5 mL
Prep Date:	04/16/2013 0942			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
C10-C20		11	U	11	20
C20-C34		11	U	11	20

Surrogate	%Rec	Qualifier	Acceptance Limits
n-Nonane	61		10 - 110

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0008-0001-SO**

Lab Sample ID: 240-22756-7 Date Sampled: 04/02/2013 1201
Client Matrix: Solid % Moisture: 17.3 Date Received: 04/03/2013 0815

8015B_DRO/DOD Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B_DRO/DOD	Analysis Batch:	240-82531	Instrument ID:	A2HP5F
Prep Method:	3540C	Prep Batch:	240-82081	Lab File ID:	P5F18024.D
Dilution:	1.0			Initial Weight/Volume:	29.61 g
Analysis Date:	04/19/2013 0239			Final Weight/Volume:	5 mL
Prep Date:	04/16/2013 0942			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
C10-C20		25		11	20
C20-C34		11	U	11	20

Surrogate	%Rec	Qualifier	Acceptance Limits
n-Nonane	52		10 - 110

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0009-0001-SO**

Lab Sample ID: 240-22756-8 Date Sampled: 04/02/2013 1238
Client Matrix: Solid % Moisture: 14.9 Date Received: 04/03/2013 0815

8015B_DRO/DOD Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B_DRO/DOD	Analysis Batch:	240-82537	Instrument ID:	A2HP6F
Prep Method:	3540C	Prep Batch:	240-82097	Lab File ID:	P6F18014.D
Dilution:	1.0			Initial Weight/Volume:	30.08 g
Analysis Date:	04/18/2013 2144			Final Weight/Volume:	5 mL
Prep Date:	04/16/2013 1004			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
C10-C20		11	U	11	20
C20-C34		11	U	11	20

Surrogate	%Rec	Qualifier	Acceptance Limits
n-Nonane	53		10 - 110

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0016-0001-SO**

Lab Sample ID: 240-22756-10 Date Sampled: 04/02/2013 0945
Client Matrix: Solid % Moisture: 21.4 Date Received: 04/03/2013 0815

8015B_DRO/DOD Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B_DRO/DOD	Analysis Batch:	240-82537	Instrument ID:	A2HP6F
Prep Method:	3540C	Prep Batch:	240-82097	Lab File ID:	P6F18015.D
Dilution:	1.0			Initial Weight/Volume:	29.55 g
Analysis Date:	04/18/2013 2216			Final Weight/Volume:	5 mL
Prep Date:	04/16/2013 1004			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
C10-C20		190		12	22
C20-C34		28	M	12	22

Surrogate	%Rec	Qualifier	Acceptance Limits
n-Nonane	51		10 - 110

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0017-0001-SO**

Lab Sample ID: 240-22756-11 Date Sampled: 04/02/2013 0912
Client Matrix: Solid % Moisture: 30.1 Date Received: 04/03/2013 0815

8015B_DRO/DOD Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B_DRO/DOD	Analysis Batch:	240-82537	Instrument ID:	A2HP6F
Prep Method:	3540C	Prep Batch:	240-82097	Lab File ID:	P6F18016.D
Dilution:	1.0			Initial Weight/Volume:	29.75 g
Analysis Date:	04/18/2013 2247			Final Weight/Volume:	5 mL
Prep Date:	04/16/2013 1004			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
C10-C20		13	U	13	24
C20-C34		18	J	13	24

Surrogate	%Rec	Qualifier	Acceptance Limits
n-Nonane	53		10 - 110

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0018-0001-SO**

Lab Sample ID: 240-22756-12 Date Sampled: 04/02/2013 1008
Client Matrix: Solid % Moisture: 15.1 Date Received: 04/03/2013 0815

8015B_DRO/DOD Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B_DRO/DOD	Analysis Batch:	240-82770	Instrument ID:	A2HP6F
Prep Method:	3540C	Prep Batch:	240-82097	Lab File ID:	P6F19008.D
Dilution:	5.0			Initial Weight/Volume:	30.17 g
Analysis Date:	04/19/2013 2029			Final Weight/Volume:	5 mL
Prep Date:	04/16/2013 1004			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
C10-C20		490	D	54	98
C20-C34		54	U	54	98

Surrogate	%Rec	Qualifier	Acceptance Limits
n-Nonane	46		10 - 110

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0019-0001-SO**

Lab Sample ID: 240-22756-13 Date Sampled: 04/02/2013 1159
Client Matrix: Solid % Moisture: 13.5 Date Received: 04/03/2013 0815

8015B_DRO/DOD Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B_DRO/DOD	Analysis Batch:	240-82770	Instrument ID:	A2HP6F
Prep Method:	3540C	Prep Batch:	240-82097	Lab File ID:	P6F19009.D
Dilution:	10			Initial Weight/Volume:	30.31 g
Analysis Date:	04/19/2013 2100			Final Weight/Volume:	5 mL
Prep Date:	04/16/2013 1004			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
C10-C20		1000	D	110	190
C20-C34		110	U	110	190

Surrogate	%Rec	Qualifier	Acceptance Limits
n-Nonane	50		10 - 110

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0020-0001-SO**

Lab Sample ID: 240-22756-14 Date Sampled: 04/02/2013 1245
Client Matrix: Solid % Moisture: 15.7 Date Received: 04/03/2013 0815

8015B_DRO/DOD Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B_DRO/DOD	Analysis Batch:	240-82770	Instrument ID:	A2HP6F
Prep Method:	3540C	Prep Batch:	240-82097	Lab File ID:	P6F19010.D
Dilution:	5.0			Initial Weight/Volume:	29.98 g
Analysis Date:	04/19/2013 2131			Final Weight/Volume:	5 mL
Prep Date:	04/16/2013 1004			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
C10-C20		450	D	55	99
C20-C34		70	J D	55	99

Surrogate	%Rec	Qualifier	Acceptance Limits
n-Nonane	45		10 - 110

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **074SB-0021-0001-SO**

Lab Sample ID: 240-22756-15 Date Sampled: 04/02/2013 1250
Client Matrix: Solid % Moisture: 24.1 Date Received: 04/03/2013 0815

8015B_DRO/DOD Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B_DRO/DOD	Analysis Batch:	240-82537	Instrument ID:	A2HP6F
Prep Method:	3540C	Prep Batch:	240-82097	Lab File ID:	P6F18021.D
Dilution:	1.0			Initial Weight/Volume:	30.08 g
Analysis Date:	04/19/2013 0123			Final Weight/Volume:	5 mL
Prep Date:	04/16/2013 1004			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
C10-C20		36		12	22
C20-C34		12	J	12	22

Surrogate	%Rec	Qualifier	Acceptance Limits
n-Nonane	43		10 - 110

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Client Sample ID: **079SD-0308-0001-SO**

Lab Sample ID: 240-22756-9 Date Sampled: 04/02/2013 1000
Client Matrix: Solid % Moisture: 23.5 Date Received: 04/03/2013 0815

6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-71214	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-69392	Lab File ID:	M30507A.xml
Dilution:	1.0			Initial Weight/Volume:	00001.02 g
Analysis Date:	05/07/2013 1321			Final Weight/Volume:	100 mL
Prep Date:	04/17/2013 1027				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.040	J	0.015	0.13
Aluminum		9900		0.37	3.8
Arsenic		72		0.023	0.13
Barium		57	Q	0.014	1.3
Beryllium		0.52	Q	0.0096	0.13
Calcium		870		1.7	13
Cadmium		0.22		0.017	0.13
Chromium		12		0.029	0.26
Cobalt		7.9	Q	0.0031	0.064
Copper		16	Q	0.042	0.26
Iron		16000		1.4	6.4
Magnesium		1800		1.4	13
Manganese		220	Q	0.020	0.64
Sodium		54		3.4	13
Nickel		16		0.014	0.13
Lead		22	Q	0.020	0.13
Antimony		0.076	J	0.059	0.26
Thallium		0.14		0.013	0.13
Vanadium		20		0.038	0.13
Zinc		44	Q	0.083	0.64
Potassium		1200		4.0	13
Selenium		0.43	J	0.065	0.64

7471/DOD Mercury (CVAA)

Analysis Method:	7471/DOD	Analysis Batch:	240-82912	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-82367	Lab File ID:	041913A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.56 g
Analysis Date:	04/19/2013 1025			Final Weight/Volume:	100 mL
Prep Date:	04/17/2013 1455				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Mercury		0.044	J	0.020	0.14

General Chemistry

Client Sample ID: **074SB-0001-0001,0002-SO**

Lab Sample ID: 240-22756-1 Date Sampled: 04/02/2013 0842

Client Matrix: Solid Date Received: 04/03/2013 0815

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	86		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N
Percent Moisture	14		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N

General Chemistry

Client Sample ID: **074SB-0002-0001-SO**

Lab Sample ID: 240-22756-2 Date Sampled: 04/02/2013 0950

Client Matrix: Solid Date Received: 04/03/2013 0815

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	86		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N
Percent Moisture	14		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N

General Chemistry

Client Sample ID: **074SB-0003-0001-SO**

Lab Sample ID: 240-22756-3 Date Sampled: 04/02/2013 0950

Client Matrix: Solid Date Received: 04/03/2013 0815

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	85		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N
Percent Moisture	15		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N

General Chemistry

Client Sample ID: **074SB-0005-0001-SO**

Lab Sample ID: 240-22756-4 Date Sampled: 04/02/2013 0918

Client Matrix: Solid Date Received: 04/03/2013 0815

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	78		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N
Percent Moisture	22		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N

General Chemistry

Client Sample ID: **074SB-0006-0001-SO**

Lab Sample ID: 240-22756-5 Date Sampled: 04/02/2013 1013

Client Matrix: Solid Date Received: 04/03/2013 0815

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	82		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N
Percent Moisture	18		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N

General Chemistry

Client Sample ID: **074SB-0007-0001-SO**

Lab Sample ID: 240-22756-6 Date Sampled: 04/02/2013 1133

Client Matrix: Solid Date Received: 04/03/2013 0815

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	86		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N
Percent Moisture	14		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N

General Chemistry

Client Sample ID: **074SB-0008-0001-SO**

Lab Sample ID: 240-22756-7 Date Sampled: 04/02/2013 1201

Client Matrix: Solid Date Received: 04/03/2013 0815

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	83		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N
Percent Moisture	17		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N

General Chemistry

Client Sample ID: **074SB-0009-0001-SO**

Lab Sample ID: 240-22756-8 Date Sampled: 04/02/2013 1238

Client Matrix: Solid Date Received: 04/03/2013 0815

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	85		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N
Percent Moisture	15		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N

General Chemistry

Client Sample ID: **079SD-0308-0001-SO**

Lab Sample ID: 240-22756-9 Date Sampled: 04/02/2013 1000

Client Matrix: Solid Date Received: 04/03/2013 0815

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	76		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N
Percent Moisture	24		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N

General Chemistry

Client Sample ID: **074SB-0016-0001-SO**

Lab Sample ID: 240-22756-10 Date Sampled: 04/02/2013 0945

Client Matrix: Solid Date Received: 04/03/2013 0815

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	79		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N
Percent Moisture	21		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N

General Chemistry

Client Sample ID: **074SB-0017-0001-SO**

Lab Sample ID: 240-22756-11 Date Sampled: 04/02/2013 0912

Client Matrix: Solid Date Received: 04/03/2013 0815

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	70		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N
Percent Moisture	30		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N

General Chemistry

Client Sample ID: **074SB-0018-0001-SO**

Lab Sample ID: 240-22756-12 Date Sampled: 04/02/2013 1008

Client Matrix: Solid Date Received: 04/03/2013 0815

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	85		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N
Percent Moisture	15		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N

General Chemistry

Client Sample ID: **074SB-0019-0001-SO**

Lab Sample ID: 240-22756-13 Date Sampled: 04/02/2013 1159

Client Matrix: Solid Date Received: 04/03/2013 0815

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	86		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N
Percent Moisture	14		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N

General Chemistry

Client Sample ID: **074SB-0020-0001-SO**

Lab Sample ID: 240-22756-14 Date Sampled: 04/02/2013 1245

Client Matrix: Solid Date Received: 04/03/2013 0815

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	84		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N
Percent Moisture	16		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N

General Chemistry

Client Sample ID: **074SB-0021-0001-SO**

Lab Sample ID: 240-22756-15 Date Sampled: 04/02/2013 1250

Client Matrix: Solid Date Received: 04/03/2013 0815

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Solids	76		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N
Percent Moisture	24		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-80579	Analysis Date: 04/04/2013 1037						DryWt Corrected: N

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Surrogate Recovery Report

8260B/DoD Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
MRL 240-81013/5		98	93	92	89
MRL 240-81013/21		96	94	93	91

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	50-150
DCA = 1,2-Dichloroethane-d4 (Surr)	50-150
TOL = Toluene-d8 (Surr)	50-150
BFB = 4-Bromofluorobenzene (Surr)	50-150

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Surrogate Recovery Report

8260B/DoD Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
240-22756-16	074SB-0022-0001-TB	97	97	87	77
MB 240-81013/6		98	92	90	81
LCS 240-81013/4		94	91	94	100

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	85-115
DCA = 1,2-Dichloroethane-d4 (Surr)	70-120
TOL = Toluene-d8 (Surr)	85-120
BFB = 4-Bromofluorobenzene (Surr)	75-120

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Surrogate Recovery Report

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
240-22756-1	074SB-0001-0001,0002-SO	82	78	75	71	56	62
240-22756-2	074SB-0002-0001-SO	78	76	69	66	47	67
240-22756-3 RE	074SB-0003-0001-SO RE	64	68	56	61	53	59
240-22756-4	074SB-0005-0001-SO	74	74	64	61	57	54
240-22756-5	074SB-0006-0001-SO	76	76	67	65	39	62
240-22756-6	074SB-0007-0001-SO	84	83	76	72	41	62
240-22756-7	074SB-0008-0001-SO	78	76	70	64	48	58
240-22756-8	074SB-0009-0001-SO	81	78	73	68	44	61
240-22756-10	074SB-0016-0001-SO	78	77	69	68	67	62
240-22756-11	074SB-0017-0001-SO	65	67	56	56	55	52
240-22756-12	074SB-0018-0001-SO	67	68	64	63	58	55
240-22756-13	074SB-0019-0001-SO	67	67	88	67	60	60
240-22756-14	074SB-0020-0001-SO	71	72	64	67	63	61
240-22756-15	074SB-0021-0001-SO	83	82	74	69	68	62
MB 240-81947/23-A		68	66	60	58	50	65
MB 240-83163/15-A		74	79	66	68	68	64
LCS 240-81947/24-A		80	79	71	72	73	65
LCS 240-83163/16-A		71	73	67	66	78	63
240-22756-1 MS	074SB-0001-0001,0002-SO MS	84	81	76	69	77	63
240-22756-1 MSD	074SB-0001-0001,0002-SO MSD	71	73	63	63	72	57

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol (Surr)	35-105
PHL = Phenol-d5 (Surr)	40-100
NBZ = Nitrobenzene-d5 (Surr)	35-100
FBP = 2-Fluorobiphenyl (Surr)	45-105
TBP = 2,4,6-Tribromophenol (Surr)	35-125
TPH = Terphenyl-d14 (Surr)	30-125

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Surrogate Recovery Report

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
MRL 240-82653/3		105	102Q	96	88	86	87
MRL 240-82653/28		107Q	106Q	97	90	94	88
MRL 240-83588/3		105	107Q	100	101	105	99
MRL 240-83588/12		100	103Q	97	99	95	98

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol (Surr)	50-150
PHL = Phenol-d5 (Surr)	50-150
NBZ = Nitrobenzene-d5 (Surr)	50-150
FBP = 2-Fluorobiphenyl (Surr)	50-150
TBP = 2,4,6-Tribromophenol (Surr)	50-150
TPH = Terphenyl-d14 (Surr)	50-150

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Surrogate Recovery Report

8015B_DRO/DOD_Diesel Range Organics (DRO) (GC)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	C9 %Rec
240-22756-1	074SB-0001-0001,0002-SO	55
240-22756-2	074SB-0002-0001-SO	49
240-22756-3	074SB-0003-0001-SO	52
240-22756-4	074SB-0005-0001-SO	58
240-22756-5	074SB-0006-0001-SO	51
240-22756-6	074SB-0007-0001-SO	61
240-22756-7	074SB-0008-0001-SO	52
240-22756-8	074SB-0009-0001-SO	53
240-22756-10	074SB-0016-0001-SO	51
240-22756-11	074SB-0017-0001-SO	53
240-22756-12	074SB-0018-0001-SO	46
240-22756-13	074SB-0019-0001-SO	50
240-22756-14	074SB-0020-0001-SO	45
240-22756-15	074SB-0021-0001-SO	43
MB 240-82081/23-A		49
MB 240-82097/23-A		50
LCS 240-82081/24-A		58
LCS 240-82097/24-A		48
240-22756-1 MS	074SB-0001-0001,0002-SO MS	53
240-22756-1 MSD	074SB-0001-0001,0002-SO MSD	50

Surrogate	Acceptance Limits
C9 = n-Nonane	10-110

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Surrogate Recovery Report

8015B_DRO/DOD_Diesel Range Organics (DRO) (GC)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	C9 %Rec
MRL 240-82317/14		110
MRL 240-82317/42		103
MRL 240-82531/19		112Q
MRL 240-82531/47		117Q
MRL 240-82537/6		90
MRL 240-82537/39		105
MRL 240-82770/6		99
MRL 240-82770/26		103

Surrogate	Acceptance Limits
C9 = n-Nonane	70-130

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method Blank - Batch: 240-81013

Method: 8260B/DoD
Preparation: 5030B

Lab Sample ID:	MB 240-81013/6	Analysis Batch:	240-81013	Instrument ID:	A3UX10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXR3284.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/08/2013 1334	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	04/08/2013 1334				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,1,1-Trichloroethane	0.25	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.25	U	0.18	1.0
1,1,2-Trichloroethane	0.50	U	0.27	1.0
1,1-Dichloroethane	0.25	U	0.15	1.0
1,1-Dichloroethene	0.25	U	0.19	1.0
1,2-Dichloroethane	0.25	U	0.22	1.0
1,2-Dichloroethene, Total	0.50	U	0.34	2.0
1,2-Dichloropropane	0.25	U	0.18	1.0
2-Butanone (MEK)	0.57	U	0.57	10
2-Hexanone	0.50	U	0.41	10
4-Methyl-2-pentanone (MIBK)	0.50	U	0.32	10
Acetone	1.1	U	1.1	10
Benzene	0.25	U	0.13	1.0
Bromoform	0.64	U	0.64	1.0
Bromomethane	0.50	U	0.41	1.0
Carbon disulfide	0.25	U	0.13	1.0
Carbon tetrachloride	0.25	U	0.13	1.0
Chlorobenzene	0.25	U	0.15	1.0
Chloromethane	0.50	U	0.30	1.0
cis-1,3-Dichloropropene	0.25	U	0.14	1.0
Dibromochloromethane	0.25	U	0.18	1.0
Bromodichloromethane	0.25	U	0.15	1.0
Ethylbenzene	0.25	U	0.17	1.0
Methyl tert-butyl ether	0.25	U	0.17	1.0
Methylene Chloride	0.50	U	0.33	1.0
Styrene	0.25	U	0.11	1.0
Tetrachloroethene	0.50	U	0.29	1.0
Toluene	0.25	U	0.13	1.0
trans-1,3-Dichloropropene	0.25	U	0.19	1.0
Trichloroethene	0.25	U	0.17	1.0
Vinyl chloride	0.25	U	0.22	1.0
Xylenes, Total	0.75	U	0.28	2.0
Chloroform	0.25	U	0.16	1.0
Bromochloromethane	0.50	U	0.29	1.0
1,2-Dibromoethane	0.25	U	0.24	1.0
Chloroethane	0.50	U	0.29	1.0

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	90	85 - 120
1,2-Dichloroethane-d4 (Surr)	92	70 - 120
4-Bromofluorobenzene (Surr)	81	75 - 120
Dibromofluoromethane (Surr)	98	85 - 115

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Lab Control Sample - Batch: 240-81013

Method: 8260B/DoD
Preparation: 5030B

Lab Sample ID:	LCS 240-81013/4	Analysis Batch:	240-81013	Instrument ID:	A3UX10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXR3282.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/08/2013 1250	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	04/08/2013 1250				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	10.0	9.36	94	65 - 130	
1,1,2,2-Tetrachloroethane	10.0	10.2	102	65 - 130	
1,1,2-Trichloroethane	10.0	10.3	103	75 - 125	
1,1-Dichloroethane	10.0	9.63	96	70 - 135	
1,1-Dichloroethene	10.0	9.25	92	70 - 130	
1,2-Dichloroethane	10.0	10.1	101	70 - 130	
1,2-Dichloropropane	10.0	9.98	100	75 - 125	
2-Butanone (MEK)	20.0	20.0	100	30 - 150	
2-Hexanone	20.0	21.2	106	55 - 130	
4-Methyl-2-pentanone (MIBK)	20.0	22.0	110	60 - 135	
Acetone	20.0	15.5	78	40 - 140	
Benzene	10.0	9.89	99	80 - 120	
Bromoform	10.0	10.7	107	70 - 130	
Bromomethane	10.0	6.68	67	30 - 145	
Carbon disulfide	10.0	9.29	93	35 - 160	
Carbon tetrachloride	10.0	9.52	95	65 - 140	
Chlorobenzene	10.0	9.72	97	80 - 120	
Chloromethane	10.0	9.84	98	40 - 125	
cis-1,3-Dichloropropene	10.0	9.36	94	70 - 130	
Dibromochloromethane	10.0	10.6	106	60 - 135	
Bromodichloromethane	10.0	10.6	106	75 - 120	
Ethylbenzene	10.0	9.51	95	75 - 125	
Methyl tert-butyl ether	10.0	10.2	102	65 - 125	
Methylene Chloride	10.0	9.88	99	55 - 140	
Styrene	10.0	10.1	101	65 - 135	
Tetrachloroethene	10.0	9.51	95	45 - 150	
Toluene	10.0	9.42	94	75 - 120	
trans-1,3-Dichloropropene	10.0	9.71	97	55 - 140	
Trichloroethene	10.0	10.2	102	70 - 125	
Vinyl chloride	10.0	9.88	99	50 - 145	
Xylenes, Total	30.0	29.4	98	75 - 130	
Chloroform	10.0	9.60	96	65 - 135	
Bromochloromethane	10.0	10.0	100	65 - 130	
Chloroethane	10.0	8.71	87	60 - 135	

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	94	85 - 120
1,2-Dichloroethane-d4 (Surr)	91	70 - 120
4-Bromofluorobenzene (Surr)	100	75 - 120
Dibromofluoromethane (Surr)	94	85 - 115

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method Reporting Limit Check - Batch: 240-81013

Method: 8260B/DoD
Preparation: 5030B

Lab Sample ID:	MRL 240-81013/5	Analysis Batch:	240-81013	Instrument ID:	A3UX10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXR3283.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/08/2013 1312	Units:	ng/uL	Final Weight/Volume:	5 mL
Prep Date:	04/08/2013 1312				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	0.00100	0.00109	109	70 - 130	
1,1,2,2-Tetrachloroethane	0.00100	0.00140	140	70 - 130	^
1,1,2-Trichloroethane	0.00100	0.00104	104	70 - 130	
1,1-Dichloroethane	0.00100	0.00111	111	70 - 130	
1,1-Dichloroethene	0.00100	0.00106	106	70 - 130	
1,2-Dichloroethane	0.00100	0.00120	120	70 - 130	
1,2-Dichloropropane	0.00100	0.00110	110	70 - 130	
2-Butanone (MEK)	0.0100	0.00973	97	70 - 130	J
2-Hexanone	0.0100	0.00935	93	70 - 130	J
4-Methyl-2-pentanone (MIBK)	0.0100	0.00956	96	70 - 130	J
Acetone	0.0100	0.00883	88	70 - 130	J
Benzene	0.00100	0.00116	116	70 - 130	
Bromoform	0.00100	0.00103	103	70 - 130	
Bromomethane	0.00100	0.000930	93	70 - 130	J
Carbon disulfide	0.00100	0.00106	106	70 - 130	
Carbon tetrachloride	0.00100	0.00104	104	70 - 130	
Chlorobenzene	0.00100	0.00111	111	70 - 130	
Chloromethane	0.00100	0.00116	116	70 - 130	
cis-1,3-Dichloropropene	0.00100	0.00131	131	70 - 130	^
Dibromochloromethane	0.00100	0.00106	106	70 - 130	
Bromodichloromethane	0.00100	0.00111	111	70 - 130	
Ethylbenzene	0.00100	0.000933	93	70 - 130	J
Methyl tert-butyl ether	0.00100	0.00118	118	70 - 130	
Methylene Chloride	0.00100	0.00138	138	70 - 130	^
Styrene	0.00100	0.000866	87	70 - 130	J
Tetrachloroethene	0.00100	0.00114	114	70 - 130	
Toluene	0.00100	0.00108	108	70 - 130	
trans-1,3-Dichloropropene	0.00100	0.00131	131	70 - 130	^
Trichloroethene	0.00100	0.00118	118	70 - 130	
Vinyl chloride	0.00100	0.00106	106	70 - 130	
Xylenes, Total	0.00300	0.00286	95	70 - 130	
Chloroform	0.00100	0.00119	119	70 - 130	
Bromochloromethane	0.00100	0.00115	115	70 - 130	
Chloroethane	0.00100	0.00106	106	70 - 130	

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	92	50 - 150
1,2-Dichloroethane-d4 (Surr)	93	50 - 150
4-Bromofluorobenzene (Surr)	89	50 - 150
Dibromofluoromethane (Surr)	98	50 - 150

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method Reporting Limit Check - Batch: 240-81013

Method: 8260B/DoD
Preparation: 5030B

Lab Sample ID:	MRL 240-81013/21	Analysis Batch:	240-81013	Instrument ID:	A3UX10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXR3299.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/08/2013 1858	Units:	ng/uL	Final Weight/Volume:	5 mL
Prep Date:	04/08/2013 1858				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	0.00100	0.000940	94	70 - 130	J
1,1,2,2-Tetrachloroethane	0.00100	0.00125	125	70 - 130	
1,1,2-Trichloroethane	0.00100	0.000961	96	70 - 130	J
1,1-Dichloroethane	0.00100	0.000994	99	70 - 130	J
1,1-Dichloroethene	0.00100	0.00101	101	70 - 130	
1,2-Dichloroethane	0.00100	0.00104	104	70 - 130	
1,2-Dichloropropane	0.00100	0.000976	98	70 - 130	J
2-Butanone (MEK)	0.0100	0.00771	77	70 - 130	J
2-Hexanone	0.0100	0.00949	95	70 - 130	J
4-Methyl-2-pentanone (MIBK)	0.0100	0.00897	90	70 - 130	J
Acetone	0.0100	0.00676	68	70 - 130	J ^
Benzene	0.00100	0.00102	102	70 - 130	
Bromoform	0.00100	0.000836	84	70 - 130	J
Bromomethane	0.00100	0.000770	77	70 - 130	J
Carbon disulfide	0.00100	0.000894	89	70 - 130	J
Carbon tetrachloride	0.00100	0.000915	91	70 - 130	J
Chlorobenzene	0.00100	0.000980	98	70 - 130	J
Chloromethane	0.00100	0.00113	113	70 - 130	
cis-1,3-Dichloropropene	0.00100	0.00121	121	70 - 130	
Dibromochloromethane	0.00100	0.000823	82	70 - 130	J
Bromodichloromethane	0.00100	0.000890	89	70 - 130	J
Ethylbenzene	0.00100	0.000915	91	70 - 130	J
Methyl tert-butyl ether	0.00100	0.00101	101	70 - 130	
Methylene Chloride	0.00100	0.00256	256	70 - 130	^
Styrene	0.00100	0.000745	74	70 - 130	J
Tetrachloroethene	0.00100	0.000960	96	70 - 130	J
Toluene	0.00100	0.000933	93	70 - 130	J
trans-1,3-Dichloropropene	0.00100	0.00118	118	70 - 130	
Trichloroethene	0.00100	0.00102	102	70 - 130	
Vinyl chloride	0.00100	0.000961	96	70 - 130	J
Xylenes, Total	0.00300	0.00240	80	70 - 130	
Chloroform	0.00100	0.000960	96	70 - 130	J
Bromochloromethane	0.00100	0.00100	100	70 - 130	
Chloroethane	0.00100	0.000985	98	70 - 130	J

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	93	50 - 150
1,2-Dichloroethane-d4 (Surr)	94	50 - 150
4-Bromofluorobenzene (Surr)	91	50 - 150
Dibromofluoromethane (Surr)	96	50 - 150

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method Blank - Batch: 240-81947

Method: 8270C/DoD
Preparation: 3540C

Lab Sample ID:	MB 240-81947/23-A	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Client Matrix:	Solid	Prep Batch:	240-81947	Lab File ID:	30419004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	04/19/2013 1130	Units:	ug/Kg	Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Acenaphthene	3.3	U	3.3	6.7
Acenaphthylene	3.3	U	3.3	6.7
Anthracene	3.3	U	3.3	6.7
Benzo[a]anthracene	3.3	U	3.3	6.7
Benzo[a]pyrene	3.3	U	3.3	6.7
Benzo[b]fluoranthene	3.3	U	3.3	6.7
Benzo[g,h,i]perylene	3.3	U	3.3	6.7
Benzoic acid	330	U	330	660
Benzo[k]fluoranthene	3.3	U	3.3	6.7
Benzyl alcohol	27	U	21	330
Bis(2-chloroethoxy)methane	27	U	22	100
Bis(2-chloroethyl)ether	3.3	U	2.0	100
bis (2-chloroisopropyl) ether	27	U	9.5	100
Bis(2-ethylhexyl) phthalate	19.9	J	19	70
4-Bromophenyl phenyl ether	27	U	13	50
Butyl benzyl phthalate	27	U	10	70
Carbazole	27	U	27	50
4-Chloroaniline	27	U	17	150
4-Chloro-3-methylphenol	27	U	21	150
2-Chloronaphthalene	3.3	U	3.3	50
2-Chlorophenol	27	U	27	50
4-Chlorophenyl phenyl ether	27	U	13	50
Chrysene	3.3	U	1.1	6.7
Dibenz(a,h)anthracene	3.3	U	3.3	6.7
Dibenzofuran	3.3	U	3.3	50
1,2-Dichlorobenzene	27	U	9.7	50
1,3-Dichlorobenzene	27	U	11	50
1,4-Dichlorobenzene	27	U	20	50
3,3'-Dichlorobenzidine	80	U	18	100
2,4-Dichlorophenol	27	U	20	150
Diethyl phthalate	27	U	16	70
2,4-Dimethylphenol	80	U	20	150
Dimethyl phthalate	27	U	17	70
Di-n-butyl phthalate	16.7	J	15	70
4,6-Dinitro-2-methylphenol	80	U	80	150
2,4-Dinitrophenol	80	U	80	330
2,4-Dinitrotoluene	27	U	27	200
2,6-Dinitrotoluene	27	U	21	200
Di-n-octyl phthalate	27	U	27	70
Fluoranthene	3.3	U	3.3	6.7
Fluorene	3.3	U	3.3	6.7
Hexachlorobenzene	3.3	U	2.1	6.7
Hexachlorobutadiene	27	U	27	50
Hexachlorocyclopentadiene	27	U	27	330
Hexachloroethane	27	U	9.0	50

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method Blank - Batch: 240-81947

Method: 8270C/DoD
Preparation: 3540C

Lab Sample ID:	MB 240-81947/23-A	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Client Matrix:	Solid	Prep Batch:	240-81947	Lab File ID:	30419004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	04/19/2013 1130	Units:	ug/Kg	Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Indeno[1,2,3-cd]pyrene	3.3	U	3.3	6.7
Isophorone	27	U	13	50
2-Methylnaphthalene	3.3	U	3.3	6.7
2-Methylphenol	80	U	80	200
3 & 4 Methylphenol	80	U	20	400
Naphthalene	3.3	U	3.3	6.7
2-Nitroaniline	27	U	9.1	200
3-Nitroaniline	80	U	16	200
4-Nitroaniline	27	U	26	200
Nitrobenzene	3.3	U	2.2	100
2-Nitrophenol	27	U	27	50
4-Nitrophenol	80	U	80	330
N-Nitrosodi-n-propylamine	27	U	27	50
N-Nitrosodiphenylamine	27	U	21	50
Pentachlorophenol	80	U	80	150
Phenanthrene	3.3	U	3.3	6.7
Phenol	27	U	27	50
Pyrene	3.3	U	3.3	6.7
1,2,4-Trichlorobenzene	27	U	27	50
2,4,5-Trichlorophenol	27	U	25	150
2,4,6-Trichlorophenol	80	U	80	150

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	58	45 - 105
2-Fluorophenol (Surr)	68	35 - 105
Nitrobenzene-d5 (Surr)	60	35 - 100
Phenol-d5 (Surr)	66	40 - 100
Terphenyl-d14 (Surr)	65	30 - 125
2,4,6-Tribromophenol (Surr)	50	35 - 125

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Lab Control Sample - Batch: 240-81947

Method: 8270C/DoD
Preparation: 3540C

Lab Sample ID:	LCS 240-81947/24-A	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Client Matrix:	Solid	Prep Batch:	240-81947	Lab File ID:	30419005.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	04/19/2013 1154	Units:	ug/Kg	Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	667	513	77	45 - 110	
Acenaphthylene	667	557	84	45 - 105	
Anthracene	667	642	96	55 - 105	
Benzo[a]anthracene	667	578	87	50 - 110	
Benzo[a]pyrene	667	580	87	50 - 110	
Benzo[b]fluoranthene	667	561	84	45 - 115	
Benzo[g,h,i]perylene	667	650	97	40 - 125	
Benzoic acid	667	330	42	0 - 110	U
Benzo[k]fluoranthene	667	644	97	45 - 125	
Benzyl alcohol	667	480	72	20 - 125	
Bis(2-chloroethoxy)methane	667	566	85	45 - 110	
Bis(2-chloroethyl)ether	667	536	80	40 - 105	
bis (2-chloroisopropyl) ether	667	456	68	20 - 115	
Bis(2-ethylhexyl) phthalate	667	751	113	45 - 125	
4-Bromophenyl phenyl ether	667	625	94	45 - 115	
Butyl benzyl phthalate	667	715	107	50 - 125	
Carbazole	667	617	93	45 - 115	
4-Chloroaniline	667	406	61	10 - 110	
4-Chloro-3-methylphenol	667	569	85	45 - 115	
2-Chloronaphthalene	667	561	84	45 - 105	
2-Chlorophenol	667	556	83	45 - 105	
4-Chlorophenyl phenyl ether	667	517	78	45 - 110	
Chrysene	667	634	95	55 - 110	
Dibenz(a,h)anthracene	667	601	90	40 - 125	
Dibenzofuran	667	564	85	50 - 105	
1,2-Dichlorobenzene	667	513	77	45 - 110	
1,3-Dichlorobenzene	667	515	77	40 - 100	
1,4-Dichlorobenzene	667	534	80	35 - 105	
3,3'-Dichlorobenzidine	667	270	40	10 - 130	
2,4-Dichlorophenol	667	565	85	45 - 110	
Diethyl phthalate	667	579	87	50 - 115	
2,4-Dimethylphenol	667	438	66	30 - 105	
Dimethyl phthalate	667	611	92	50 - 110	
Di-n-butyl phthalate	667	711	107	55 - 110	
4,6-Dinitro-2-methylphenol	667	563	84	30 - 135	
2,4-Dinitrophenol	667	508	76	15 - 130	
2,4-Dinitrotoluene	667	568	85	50 - 115	
2,6-Dinitrotoluene	667	621	93	50 - 110	
Di-n-octyl phthalate	667	668	100	40 - 130	
Fluoranthene	667	622	93	55 - 115	
Fluorene	667	580	87	50 - 110	
Hexachlorobenzene	667	618	93	45 - 120	
Hexachlorobutadiene	667	462	69	40 - 115	
Hexachloroethane	667	494	74	35 - 110	
Indeno[1,2,3-cd]pyrene	667	602	90	40 - 120	
Isophorone	667	539	81	45 - 110	

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Lab Control Sample - Batch: 240-81947

Method: 8270C/DoD
Preparation: 3540C

Lab Sample ID:	LCS 240-81947/24-A	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Client Matrix:	Solid	Prep Batch:	240-81947	Lab File ID:	30419005.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	04/19/2013 1154	Units:	ug/Kg	Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Methylnaphthalene	667	523	79	45 - 105	
2-Methylphenol	667	526	79	40 - 105	
3 & 4 Methylphenol	1330	1110	84	40 - 105	
Naphthalene	667	528	79	40 - 105	
2-Nitroaniline	667	589	88	45 - 120	
3-Nitroaniline	667	498	75	25 - 110	
4-Nitroaniline	667	615	92	35 - 115	
Nitrobenzene	667	527	79	40 - 115	
2-Nitrophenol	667	559	84	40 - 110	
4-Nitrophenol	667	582	87	15 - 140	
N-Nitrosodi-n-propylamine	667	511	77	40 - 115	
N-Nitrosodiphenylamine	667	654	98	50 - 115	
Pentachlorophenol	667	505	76	25 - 120	
Phenanthrene	667	639	96	50 - 110	
Phenol	667	557	84	40 - 100	
Pyrene	667	621	93	45 - 125	
1,2,4-Trichlorobenzene	667	511	77	45 - 110	
2,4,5-Trichlorophenol	667	588	88	50 - 110	
2,4,6-Trichlorophenol	667	565	85	45 - 110	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	72	45 - 105
2-Fluorophenol (Surr)	80	35 - 105
Nitrobenzene-d5 (Surr)	71	35 - 100
Phenol-d5 (Surr)	79	40 - 100
Terphenyl-d14 (Surr)	65	30 - 125
2,4,6-Tribromophenol (Surr)	73	35 - 125

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-81947

Method: 8270C/DoD
Preparation: 3540C

MS Lab Sample ID:	240-22756-1	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Client Matrix:	Solid	Prep Batch:	240-81947	Lab File ID:	30419007.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.15 g
Analysis Date:	04/19/2013 1241			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	240-22756-1	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Client Matrix:	Solid	Prep Batch:	240-81947	Lab File ID:	30419008.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	29.55 g
Analysis Date:	04/19/2013 1304			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	75	70	45 - 110	6	30		
Acenaphthylene	82	78	45 - 105	3	30		
Anthracene	96	90	55 - 105	4	30		
Benzo[a]anthracene	84	80	50 - 110	2	30		
Benzo[a]pyrene	83	77	50 - 110	6	30		
Benzo[b]fluoranthene	82	75	45 - 115	7	30		
Benzo[g,h,i]perylene	92	82	40 - 125	10	30		
Benzoic acid	108	102	0 - 110	4	30		
Benzo[k]fluoranthene	92	82	45 - 125	9	30		
Benzyl alcohol	63	52	20 - 125	17	30		
Bis(2-chloroethoxy)methane	87	73	45 - 110	15	30		
Bis(2-chloroethyl)ether	84	71	40 - 105	15	30		
bis (2-chloroisopropyl) ether	70	61	20 - 115	11	30		
Bis(2-ethylhexyl) phthalate	105	95	45 - 125	8	30		
4-Bromophenyl phenyl ether	87	84	45 - 115	1	30		
Butyl benzyl phthalate	105	98	50 - 125	5	30		
Carbazole	87	82	45 - 115	4	30		
4-Chloroaniline	46	50	10 - 95	10	30		
4-Chloro-3-methylphenol	85	79	45 - 115	5	30		
2-Chloronaphthalene	83	75	45 - 105	8	30		
2-Chlorophenol	82	73	45 - 105	9	30		
4-Chlorophenyl phenyl ether	75	72	45 - 110	2	30		
Chrysene	93	85	55 - 110	8	30		
Dibenz(a,h)anthracene	86	80	40 - 125	6	30		
Dibenzofuran	81	77	50 - 105	4	30		
1,2-Dichlorobenzene	80	66	45 - 95	18	30		
1,3-Dichlorobenzene	79	66	40 - 100	15	30		
1,4-Dichlorobenzene	81	67	35 - 105	16	30		
3,3'-Dichlorobenzidine	19	22	10 - 130	16	30		
2,4-Dichlorophenol	89	80	45 - 110	9	30		
Diethyl phthalate	85	81	50 - 115	3	30		
2,4-Dimethylphenol	89	77	30 - 105	12	30		
Dimethyl phthalate	88	83	50 - 110	4	30		

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-81947

Method: 8270C/DoD
Preparation: 3540C

MS Lab Sample ID:	240-22756-1	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Client Matrix:	Solid	Prep Batch:	240-81947	Lab File ID:	30419007.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.15 g
Analysis Date:	04/19/2013 1241			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	240-22756-1	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Client Matrix:	Solid	Prep Batch:	240-81947	Lab File ID:	30419008.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	29.55 g
Analysis Date:	04/19/2013 1304			Final Weight/Volume:	2 mL
Prep Date:	04/15/2013 1133			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Di-n-butyl phthalate	101	93	55 - 110	6	30		
4,6-Dinitro-2-methylphenol	75	73	30 - 135	0	30		
2,4-Dinitrophenol	72	68	15 - 130	4	30		
2,4-Dinitrotoluene	82	76	50 - 115	6	30		
2,6-Dinitrotoluene	91	85	50 - 110	5	30		
Di-n-octyl phthalate	97	86	40 - 130	11	30		
Fluoranthene	91	84	55 - 115	6	30		
Fluorene	85	79	50 - 110	6	30		
Hexachlorobenzene	90	84	45 - 120	5	30		
Hexachlorobutadiene	70	59	40 - 115	16	30		
Hexachloroethane	77	66	35 - 110	13	30		
Indeno[1,2,3-cd]pyrene	85	78	40 - 120	7	30		
Isophorone	80	70	45 - 110	11	30		
2-Methylnaphthalene	79	69	45 - 105	11	30		
2-Methylphenol	86	79	40 - 105	6	30		
3 & 4 Methylphenol	87	79	40 - 105	7	30		
Naphthalene	80	68	40 - 105	13	30		
2-Nitroaniline	89	82	45 - 120	6	30		
3-Nitroaniline	56	53	25 - 110	3	30		
4-Nitroaniline	61	64	35 - 115	6	30		
Nitrobenzene	81	71	40 - 115	11	30		
2-Nitrophenol	83	70	40 - 110	16	30		
4-Nitrophenol	87	79	15 - 140	7	30		
N-Nitrosodi-n-propylamine	79	69	40 - 115	11	30		
N-Nitrosodiphenylamine	96	89	50 - 115	5	30		
Pentachlorophenol	73	69	25 - 120	3	30		
Phenanthrene	95	88	50 - 110	5	30		
Phenol	87	76	40 - 100	12	30		
Pyrene	91	85	45 - 125	5	30		
1,2,4-Trichlorobenzene	76	65	45 - 110	13	30		
2,4,5-Trichlorophenol	89	86	50 - 110	2	30		
2,4,6-Trichlorophenol	87	83	45 - 110	3	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	69	63	45 - 105
2-Fluorophenol (Surr)	84	71	35 - 105
Nitrobenzene-d5 (Surr)	76	63	35 - 100
Phenol-d5 (Surr)	81	73	40 - 100
Terphenyl-d14 (Surr)	63	57	30 - 125
2,4,6-Tribromophenol (Surr)	77	72	35 - 125

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-81947

Method: 8270C/DoD
Preparation: 3540C

MS Lab Sample ID:	240-22756-1	Units:	ug/Kg	MSD Lab Sample ID:	240-22756-1
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/19/2013 1241			Analysis Date:	04/19/2013 1304
Prep Date:	04/15/2013 1133			Prep Date:	04/15/2013 1133
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Acenaphthene	3.9	U	767	783	578	545
Acenaphthylene	3.9	U	767	783	628	609
Anthracene	3.9	U	767	783	734	706
Benzo[a]anthracene	3.9	U	767	783	642	628
Benzo[a]pyrene	3.9	U	767	783	639	600
Benzo[b]fluoranthene	3.9	U	767	783	628	586
Benzo[g,h,i]perylene	3.9	U	767	783	703	639
Benzoic acid	390	U	767	783	831	801
Benzo[k]fluoranthene	3.9	U	767	783	702	639
Benzyl alcohol	32	U	767	783	487	409
Bis(2-chloroethoxy)methane	32	U	767	783	668	574
Bis(2-chloroethyl)ether	3.9	U	767	783	641	553
bis (2-chloroisopropyl) ether	32	U	767	783	533	476
Bis(2-ethylhexyl) phthalate	33	J	767	783	836	773
4-Bromophenyl phenyl ether	32	U	767	783	664	660
Butyl benzyl phthalate	32	U	767	783	808	769
Carbazole	32	U	767	783	665	642
4-Chloroaniline	32	U	767	783	352	389
4-Chloro-3-methylphenol	32	U	767	783	653	619
2-Chloronaphthalene	3.9	U	767	783	639	588
2-Chlorophenol	32	U	767	783	628	572
4-Chlorophenyl phenyl ether	32	U	767	783	575	564
Chrysene	3.9	U	767	783	715	662
Dibenz(a,h)anthracene	3.9	U	767	783	661	624
Dibenzofuran	3.9	U	767	783	625	603
1,2-Dichlorobenzene	32	U	767	783	618	515
1,3-Dichlorobenzene	32	U	767	783	603	519
1,4-Dichlorobenzene	32	U	767	783	618	526
3,3'-Dichlorobenzidine	94	U	767	783	146	172
2,4-Dichlorophenol	32	U	767	783	680	624
Diethyl phthalate	32	U	767	783	651	631
2,4-Dimethylphenol	94	U	767	783	679	603
Dimethyl phthalate	32	U	767	783	676	651
Di-n-butyl phthalate	21	J	767	783	793	746
4,6-Dinitro-2-methylphenol	94	U	767	783	574	572
2,4-Dinitrophenol	94	U	767	783	554	532
2,4-Dinitrotoluene	32	U	767	783	632	596
2,6-Dinitrotoluene	32	U	767	783	699	667
Di-n-octyl phthalate	32	U	767	783	748	673
Fluoranthene	3.9	U	767	783	700	661
Fluorene	3.9	U	767	783	654	618
Hexachlorobenzene	3.9	U	767	783	689	658
Hexachlorobutadiene	32	U	767	783	541	462

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-81947

Method: 8270C/DoD
Preparation: 3540C

MS Lab Sample ID:	240-22756-1	Units: ug/Kg	
Client Matrix:	Solid		
Dilution:	1.0		
Analysis Date:	04/19/2013 1241		
Prep Date:	04/15/2013 1133		
Leach Date:	N/A		

MSD Lab Sample ID:	240-22756-1
Client Matrix:	Solid
Dilution:	1.0
Analysis Date:	04/19/2013 1304
Prep Date:	04/15/2013 1133
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Hexachloroethane	32	U	767	783	591	519
Indeno[1,2,3-cd]pyrene	3.9	U	767	783	653	610
Isophorone	32	U	767	783	612	550
2-Methylnaphthalene	3.9	U	767	783	608	543
2-Methylphenol	94	U	767	783	659	618
3 & 4 Methylphenol	94	U	1530	1570	1330	1240
Naphthalene	3.9	U	767	783	612	536
2-Nitroaniline	32	U	767	783	682	640
3-Nitroaniline	94	U	767	783	427	414
4-Nitroaniline	32	U	767	783	470	501
Nitrobenzene	3.9	U	767	783	622	556
2-Nitrophenol	32	U	767	783	640	545
4-Nitrophenol	94	U	767	783	667	619
N-Nitrosodi-n-propylamine	32	U	767	783	604	540
N-Nitrosodiphenylamine	32	U	767	783	735	699
Pentachlorophenol	94	U	767	783	557	542
Phenanthrene	3.9	U	767	783	731	692
Phenol	32	U	767	783	668	593
Pyrene	3.9	U	767	783	696	662
1,2,4-Trichlorobenzene	32	U	767	783	586	512
2,4,5-Trichlorophenol	32	U	767	783	684	671
2,4,6-Trichlorophenol	94	U	767	783	665	648

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method Reporting Limit Check - Batch: 240-82653 **Method: 8270C/DoD**
Preparation: N/A

Lab Sample ID:	MRL 240-82653/3	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	30419003.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/19/2013 1107	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	5.00	4.40	88	70 - 130	
Acenaphthylene	5.00	4.71	94	70 - 130	
Anthracene	5.00	5.26	105	70 - 130	
Benzo[a]anthracene	5.00	4.74	95	70 - 130	
Benzo[a]pyrene	5.00	5.14	103	70 - 130	
Benzo[b]fluoranthene	5.00	4.71	94	70 - 130	
Benzo[g,h,i]perylene	5.00	5.10	102	70 - 130	
Benzoic acid	10.0	7.64	76	70 - 130	M
Benzo[k]fluoranthene	5.00	5.51	110	70 - 130	
Benzyl alcohol	5.00	4.19	84	70 - 130	
Bis(2-chloroethoxy)methane	5.00	5.11	102	70 - 130	
Bis(2-chloroethyl)ether	5.00	5.20	104	70 - 130	
bis (2-chloroisopropyl) ether	5.00	4.40	88	70 - 130	
Bis(2-ethylhexyl) phthalate	5.00	5.52	110	70 - 130	
4-Bromophenyl phenyl ether	5.00	4.92	98	70 - 130	
Butyl benzyl phthalate	5.00	5.42	108	70 - 130	
Carbazole	5.00	5.22	104	70 - 130	
4-Chloroaniline	5.00	5.01	100	70 - 130	
4-Chloro-3-methylphenol	5.00	4.52	90	70 - 130	
2-Chloronaphthalene	5.00	5.03	101	70 - 130	
2-Chlorophenol	5.00	5.03	101	70 - 130	
4-Chlorophenyl phenyl ether	5.00	4.24	85	70 - 130	
Chrysene	5.00	4.60	92	70 - 130	
Dibenz(a,h)anthracene	5.00	4.78	96	70 - 130	
Dibenzofuran	5.00	4.56	91	70 - 130	
1,2-Dichlorobenzene	5.00	5.14	103	70 - 130	
1,3-Dichlorobenzene	5.00	5.22	104	70 - 130	
1,4-Dichlorobenzene	5.00	5.32	106	70 - 130	
3,3'-Dichlorobenzidine	10.0	10.1	101	70 - 130	
2,4-Dichlorophenol	5.00	5.09	102	70 - 130	
Diethyl phthalate	5.00	4.58	92	70 - 130	
2,4-Dimethylphenol	5.00	4.64	93	70 - 130	
Dimethyl phthalate	5.00	4.85	97	70 - 130	
Di-n-butyl phthalate	5.00	5.39	108	70 - 130	
4,6-Dinitro-2-methylphenol	10.0	9.23	92	70 - 130	
2,4-Dinitrophenol	10.0	8.43	84	70 - 130	
2,4-Dinitrotoluene	5.00	4.55	91	70 - 130	
2,6-Dinitrotoluene	5.00	5.04	101	70 - 130	
Di-n-octyl phthalate	5.00	5.05	101	70 - 130	
Fluoranthene	5.00	4.80	96	70 - 130	
Fluorene	5.00	4.73	95	70 - 130	
Hexachlorobenzene	5.00	4.97	99	70 - 130	
Hexachlorobutadiene	5.00	4.59	92	70 - 130	
Hexachloroethane	5.00	4.90	98	70 - 130	
Indeno[1,2,3-cd]pyrene	5.00	5.15	103	70 - 130	
Isophorone	5.00	4.97	99	70 - 130	

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method Reporting Limit Check - Batch: 240-82653 **Method: 8270C/DoD**
Preparation: N/A

Lab Sample ID:	MRL 240-82653/3	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	30419003.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/19/2013 1107	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Methylnaphthalene	5.00	4.77	95	70 - 130	
2-Methylphenol	5.00	4.75	95	70 - 130	
3 & 4 Methylphenol	5.00	4.89	98	70 - 130	
Naphthalene	5.00	4.92	98	70 - 130	
2-Nitroaniline	5.00	4.74	95	70 - 130	
3-Nitroaniline	5.00	4.75	95	70 - 130	
4-Nitroaniline	5.00	5.30	106	70 - 130	
Nitrobenzene	5.00	5.07	101	70 - 130	
2-Nitrophenol	5.00	5.03	101	70 - 130	
4-Nitrophenol	10.0	9.22	92	70 - 130	
N-Nitrosodi-n-propylamine	5.00	4.86	97	70 - 130	
N-Nitrosodiphenylamine	10.0	10.3	103	70 - 130	
Pentachlorophenol	10.0	8.50	85	70 - 130	
Phenanthrene	5.00	5.03	101	70 - 130	
Phenol	5.00	5.18	104	70 - 130	
Pyrene	5.00	4.95	99	70 - 130	
1,2,4-Trichlorobenzene	5.00	4.83	97	70 - 130	
2,4,5-Trichlorophenol	5.00	4.84	97	70 - 130	
2,4,6-Trichlorophenol	5.00	4.69	94	70 - 130	

Surrogate	% Rec		Acceptance Limits
2-Fluorobiphenyl (Surr)	88		50 - 150
2-Fluorophenol (Surr)	105		50 - 150
Nitrobenzene-d5 (Surr)	96		50 - 150
Phenol-d5 (Surr)	102	Q	50 - 150
Terphenyl-d14 (Surr)	87		50 - 150
2,4,6-Tribromophenol (Surr)	86		50 - 150

Method Reporting Limit Check - Batch: 240-82653 **Method: 8270C/DoD**
Preparation: N/A

Lab Sample ID:	MRL 240-82653/28	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	30419028.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/19/2013 2051	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	5.00	4.42	88	70 - 130	
Acenaphthylene	5.00	4.85	97	70 - 130	
Anthracene	5.00	5.47	109	70 - 130	
Benzo[a]anthracene	5.00	4.66	93	70 - 130	
Benzo[a]pyrene	5.00	5.27	105	70 - 130	

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method Reporting Limit Check - Batch: 240-82653 **Method: 8270C/DoD**
Preparation: N/A

Lab Sample ID:	MRL 240-82653/28	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	30419028.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/19/2013 2051	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzo[b]fluoranthene	5.00	5.18	104	70 - 130	
Benzo[g,h,i]perylene	5.00	4.40	88	70 - 130	
Benzoic acid	10.0	8.00	80	70 - 130	M
Benzo[k]fluoranthene	5.00	5.01	100	70 - 130	
Benzyl alcohol	5.00	5.22	104	70 - 130	
Bis(2-chloroethoxy)methane	5.00	5.14	103	70 - 130	
Bis(2-chloroethyl)ether	5.00	5.10	102	70 - 130	
bis (2-chloroisopropyl) ether	5.00	4.60	92	70 - 130	
Bis(2-ethylhexyl) phthalate	5.00	5.72	114	70 - 130	
4-Bromophenyl phenyl ether	5.00	4.95	99	70 - 130	
Butyl benzyl phthalate	5.00	5.67	113	70 - 130	
Carbazole	5.00	5.46	109	70 - 130	
4-Chloroaniline	5.00	5.14	103	70 - 130	
4-Chloro-3-methylphenol	5.00	4.92	98	70 - 130	
2-Chloronaphthalene	5.00	4.98	100	70 - 130	
2-Chlorophenol	5.00	5.25	105	70 - 130	
4-Chlorophenyl phenyl ether	5.00	4.39	88	70 - 130	
Chrysene	5.00	4.65	93	70 - 130	
Dibenz(a,h)anthracene	5.00	4.68	94	70 - 130	
Dibenzofuran	5.00	4.68	94	70 - 130	
1,2-Dichlorobenzene	5.00	5.17	103	70 - 130	
1,3-Dichlorobenzene	5.00	5.31	106	70 - 130	
1,4-Dichlorobenzene	5.00	5.36	107	70 - 130	
3,3'-Dichlorobenzidine	10.0	10.3	103	70 - 130	
2,4-Dichlorophenol	5.00	5.20	104	70 - 130	
Diethyl phthalate	5.00	4.74	95	70 - 130	
2,4-Dimethylphenol	5.00	4.75	95	70 - 130	
Dimethyl phthalate	5.00	4.89	98	70 - 130	
Di-n-butyl phthalate	5.00	5.53	111	70 - 130	
4,6-Dinitro-2-methylphenol	10.0	5.67	57	70 - 130	^
2,4-Dinitrophenol	10.0	4.03	40	70 - 130	^
2,4-Dinitrotoluene	5.00	4.60	92	70 - 130	
2,6-Dinitrotoluene	5.00	5.16	103	70 - 130	
Di-n-octyl phthalate	5.00	5.65	113	70 - 130	
Fluoranthene	5.00	5.01	100	70 - 130	
Fluorene	5.00	4.80	96	70 - 130	
Hexachlorobenzene	5.00	5.19	104	70 - 130	
Hexachlorobutadiene	5.00	4.56	91	70 - 130	
Hexachloroethane	5.00	4.11	82	70 - 130	
Indeno[1,2,3-cd]pyrene	5.00	4.70	94	70 - 130	
Isophorone	5.00	5.05	101	70 - 130	
2-Methylnaphthalene	5.00	4.90	98	70 - 130	
2-Methylphenol	5.00	5.20	104	70 - 130	
3 & 4 Methylphenol	5.00	5.17	103	70 - 130	
Naphthalene	5.00	4.90	98	70 - 130	
2-Nitroaniline	5.00	4.90	98	70 - 130	

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method Reporting Limit Check - Batch: 240-82653

Method: 8270C/DoD
Preparation: N/A

Lab Sample ID:	MRL 240-82653/28	Analysis Batch:	240-82653	Instrument ID:	A4HP10
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	30419028.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/19/2013 2051	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
3-Nitroaniline	5.00	4.87	97	70 - 130	
4-Nitroaniline	5.00	5.52	110	70 - 130	
Nitrobenzene	5.00	4.94	99	70 - 130	
2-Nitrophenol	5.00	4.91	98	70 - 130	
4-Nitrophenol	10.0	9.34	93	70 - 130	
N-Nitrosodi-n-propylamine	5.00	5.05	101	70 - 130	
N-Nitrosodiphenylamine	10.0	10.9	109	70 - 130	
Pentachlorophenol	10.0	8.80	88	70 - 130	
Phenanthrene	5.00	5.22	104	70 - 130	
Phenol	5.00	5.19	104	70 - 130	
Pyrene	5.00	4.82	96	70 - 130	
1,2,4-Trichlorobenzene	5.00	4.90	98	70 - 130	
2,4,5-Trichlorophenol	5.00	4.98	100	70 - 130	
2,4,6-Trichlorophenol	5.00	4.97	99	70 - 130	

Surrogate	% Rec		Acceptance Limits
2-Fluorobiphenyl (Surr)	90		50 - 150
2-Fluorophenol (Surr)	107	Q	50 - 150
Nitrobenzene-d5 (Surr)	97		50 - 150
Phenol-d5 (Surr)	106	Q	50 - 150
Terphenyl-d14 (Surr)	88		50 - 150
2,4,6-Tribromophenol (Surr)	94		50 - 150

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method Blank - Batch: 240-83163

Method: 8270C/DoD
Preparation: 3540C

Lab Sample ID:	MB 240-83163/15-A	Analysis Batch:	240-83588	Instrument ID:	A4HP9
Client Matrix:	Solid	Prep Batch:	240-83163	Lab File ID:	30425104.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	04/25/2013 1633	Units:	ug/Kg	Final Weight/Volume:	2 mL
Prep Date:	04/23/2013 1003			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Acenaphthene	3.3	U	3.3	6.7
Acenaphthylene	3.3	U	3.3	6.7
Anthracene	3.3	U	3.3	6.7
Benzo[a]anthracene	3.3	U	3.3	6.7
Benzo[a]pyrene	3.3	U	3.3	6.7
Benzo[b]fluoranthene	3.3	U	3.3	6.7
Benzo[g,h,i]perylene	3.3	U	3.3	6.7
Benzoic acid	330	U	330	660
Benzo[k]fluoranthene	3.3	U	3.3	6.7
Benzyl alcohol	27	U	21	330
Bis(2-chloroethoxy)methane	27	U	22	100
Bis(2-chloroethyl)ether	3.3	U	2.0	100
bis (2-chloroisopropyl) ether	27	U	9.5	100
Bis(2-ethylhexyl) phthalate	27	U	19	70
4-Bromophenyl phenyl ether	27	U	13	50
Butyl benzyl phthalate	27	U	10	70
Carbazole	27	U	27	50
4-Chloroaniline	27	U	17	150
4-Chloro-3-methylphenol	27	U	21	150
2-Chloronaphthalene	3.3	U	3.3	50
2-Chlorophenol	27	U	27	50
4-Chlorophenyl phenyl ether	27	U	13	50
Chrysene	3.3	U	1.1	6.7
Dibenz(a,h)anthracene	3.3	U	3.3	6.7
Dibenzofuran	3.3	U	3.3	50
1,2-Dichlorobenzene	27	U	9.7	50
1,3-Dichlorobenzene	27	U	11	50
1,4-Dichlorobenzene	27	U	20	50
3,3'-Dichlorobenzidine	80	U	18	100
2,4-Dichlorophenol	27	U	20	150
Diethyl phthalate	27	U	16	70
2,4-Dimethylphenol	80	U	20	150
Dimethyl phthalate	27	U	17	70
Di-n-butyl phthalate	25.8	J	15	70
4,6-Dinitro-2-methylphenol	80	U	80	150
2,4-Dinitrophenol	80	U	80	330
2,4-Dinitrotoluene	27	U	27	200
2,6-Dinitrotoluene	27	U	21	200
Di-n-octyl phthalate	27	U	27	70
Fluoranthene	3.3	U	3.3	6.7
Fluorene	3.3	U	3.3	6.7
Hexachlorobenzene	3.3	U	2.1	6.7
Hexachlorobutadiene	27	U	27	50
Hexachlorocyclopentadiene	27	U	27	330
Hexachloroethane	27	U	9.0	50

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method Blank - Batch: 240-83163

Method: 8270C/DoD
Preparation: 3540C

Lab Sample ID:	MB 240-83163/15-A	Analysis Batch:	240-83588	Instrument ID:	A4HP9
Client Matrix:	Solid	Prep Batch:	240-83163	Lab File ID:	30425104.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	04/25/2013 1633	Units:	ug/Kg	Final Weight/Volume:	2 mL
Prep Date:	04/23/2013 1003			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Indeno[1,2,3-cd]pyrene	3.3	U	3.3	6.7
Isophorone	27	U	13	50
2-Methylnaphthalene	3.3	U	3.3	6.7
2-Methylphenol	80	U	80	200
3 & 4 Methylphenol	80	U	20	400
Naphthalene	3.3	U	3.3	6.7
2-Nitroaniline	27	U	9.1	200
3-Nitroaniline	80	U	16	200
4-Nitroaniline	27	U	26	200
Nitrobenzene	3.3	U	2.2	100
2-Nitrophenol	27	U	27	50
4-Nitrophenol	80	U	80	330
N-Nitrosodi-n-propylamine	27	U	27	50
N-Nitrosodiphenylamine	27	U	21	50
Pentachlorophenol	80	U	80	150
Phenanthrene	3.3	U	3.3	6.7
Phenol	27	U	27	50
Pyrene	3.3	U	3.3	6.7
1,2,4-Trichlorobenzene	27	U	27	50
2,4,5-Trichlorophenol	27	U	25	150
2,4,6-Trichlorophenol	80	U	80	150

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	68	45 - 105
2-Fluorophenol (Surr)	74	35 - 105
Nitrobenzene-d5 (Surr)	66	35 - 100
Phenol-d5 (Surr)	79	40 - 100
Terphenyl-d14 (Surr)	64	30 - 125
2,4,6-Tribromophenol (Surr)	68	35 - 125

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Lab Control Sample - Batch: 240-83163

Method: 8270C/DoD
Preparation: 3540C

Lab Sample ID:	LCS 240-83163/16-A	Analysis Batch:	240-83588	Instrument ID:	A4HP9
Client Matrix:	Solid	Prep Batch:	240-83163	Lab File ID:	30425105.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	04/25/2013 1700	Units:	ug/Kg	Final Weight/Volume:	2 mL
Prep Date:	04/23/2013 1003			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	667	499	75	45 - 110	
Acenaphthylene	667	519	78	45 - 105	
Anthracene	667	547	82	55 - 105	
Benzo[a]anthracene	667	549	82	50 - 110	
Benzo[a]pyrene	667	502	75	50 - 110	
Benzo[b]fluoranthene	667	536	80	45 - 115	
Benzo[g,h,i]perylene	667	598	90	40 - 125	
Benzoic acid	667	330	27	0 - 110	U M
Benzo[k]fluoranthene	667	531	80	45 - 125	
Benzyl alcohol	667	512	77	20 - 125	
Bis(2-chloroethoxy)methane	667	509	76	45 - 110	
Bis(2-chloroethyl)ether	667	502	75	40 - 105	
bis (2-chloroisopropyl) ether	667	508	76	20 - 115	
Bis(2-ethylhexyl) phthalate	667	632	95	45 - 125	
4-Bromophenyl phenyl ether	667	514	77	45 - 115	
Butyl benzyl phthalate	667	614	92	50 - 125	
Carbazole	667	527	79	45 - 115	
4-Chloroaniline	667	394	59	10 - 110	
4-Chloro-3-methylphenol	667	511	77	45 - 115	
2-Chloronaphthalene	667	511	77	45 - 105	
2-Chlorophenol	667	522	78	45 - 105	
4-Chlorophenyl phenyl ether	667	519	78	45 - 110	
Chrysene	667	571	86	55 - 110	
Dibenz(a,h)anthracene	667	597	90	40 - 125	
Dibenzofuran	667	497	75	50 - 105	
1,2-Dichlorobenzene	667	488	73	45 - 110	
1,3-Dichlorobenzene	667	485	73	40 - 100	
1,4-Dichlorobenzene	667	490	74	35 - 105	
3,3'-Dichlorobenzidine	667	347	52	10 - 130	
2,4-Dichlorophenol	667	513	77	45 - 110	
Diethyl phthalate	667	603	90	50 - 115	
2,4-Dimethylphenol	667	442	66	30 - 105	
Dimethyl phthalate	667	561	84	50 - 110	
Di-n-butyl phthalate	667	548	82	55 - 110	
4,6-Dinitro-2-methylphenol	667	449	67	30 - 135	
2,4-Dinitrophenol	667	405	61	15 - 130	
2,4-Dinitrotoluene	667	631	95	50 - 115	
2,6-Dinitrotoluene	667	584	88	50 - 110	
Di-n-octyl phthalate	667	512	77	40 - 130	
Fluoranthene	667	541	81	55 - 115	
Fluorene	667	523	79	50 - 110	
Hexachlorobenzene	667	480	72	45 - 120	
Hexachlorobutadiene	667	435	65	40 - 115	
Hexachloroethane	667	470	71	35 - 110	
Indeno[1,2,3-cd]pyrene	667	575	86	40 - 120	
Isophorone	667	497	75	45 - 110	

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Lab Control Sample - Batch: 240-83163

Method: 8270C/DoD
Preparation: 3540C

Lab Sample ID:	LCS 240-83163/16-A	Analysis Batch:	240-83588	Instrument ID:	A4HP9
Client Matrix:	Solid	Prep Batch:	240-83163	Lab File ID:	30425105.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	04/25/2013 1700	Units:	ug/Kg	Final Weight/Volume:	2 mL
Prep Date:	04/23/2013 1003			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Methylnaphthalene	667	455	68	45 - 105	
2-Methylphenol	667	516	77	40 - 105	
3 & 4 Methylphenol	1330	1090	82	40 - 105	
Naphthalene	667	475	71	40 - 105	
2-Nitroaniline	667	601	90	45 - 120	
3-Nitroaniline	667	555	83	25 - 110	
4-Nitroaniline	667	535	80	35 - 115	
Nitrobenzene	667	502	75	40 - 115	
2-Nitrophenol	667	515	77	40 - 110	
4-Nitrophenol	667	644	97	15 - 140	
N-Nitrosodi-n-propylamine	667	495	74	40 - 115	
N-Nitrosodiphenylamine	667	499	75	50 - 115	
Pentachlorophenol	667	390	59	25 - 120	
Phenanthrene	667	525	79	50 - 110	
Phenol	667	528	79	40 - 100	
Pyrene	667	597	90	45 - 125	
1,2,4-Trichlorobenzene	667	468	70	45 - 110	
2,4,5-Trichlorophenol	667	556	83	50 - 110	
2,4,6-Trichlorophenol	667	526	79	45 - 110	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	66	45 - 105
2-Fluorophenol (Surr)	71	35 - 105
Nitrobenzene-d5 (Surr)	67	35 - 100
Phenol-d5 (Surr)	73	40 - 100
Terphenyl-d14 (Surr)	63	30 - 125
2,4,6-Tribromophenol (Surr)	78	35 - 125

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method Reporting Limit Check - Batch: 240-83588 **Method: 8270C/DoD**
Preparation: N/A

Lab Sample ID:	MRL 240-83588/3	Analysis Batch:	240-83588	Instrument ID:	A4HP9
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	30425103.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/25/2013 1606	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	5.00	5.03	101	70 - 130	
Acenaphthylene	5.00	5.15	103	70 - 130	
Anthracene	5.00	5.23	105	70 - 130	
Benzo[a]anthracene	5.00	5.11	102	70 - 130	
Benzo[a]pyrene	5.00	5.13	103	70 - 130	
Benzo[b]fluoranthene	5.00	5.40	108	70 - 130	
Benzo[g,h,i]perylene	5.00	5.71	114	70 - 130	
Benzoic acid	10.0	9.39	94	70 - 130	M
Benzo[k]fluoranthene	5.00	4.96	99	70 - 130	
Benzyl alcohol	5.00	5.49	110	70 - 130	
Bis(2-chloroethoxy)methane	5.00	5.29	106	70 - 130	
Bis(2-chloroethyl)ether	5.00	5.36	107	70 - 130	
bis (2-chloroisopropyl) ether	5.00	5.50	110	70 - 130	
Bis(2-ethylhexyl) phthalate	5.00	5.65	113	70 - 130	
4-Bromophenyl phenyl ether	5.00	4.78	96	70 - 130	
Butyl benzyl phthalate	5.00	5.55	111	70 - 130	
Carbazole	5.00	5.07	101	70 - 130	
4-Chloroaniline	5.00	5.21	104	70 - 130	
4-Chloro-3-methylphenol	5.00	5.00	100	70 - 130	
2-Chloronaphthalene	5.00	5.29	106	70 - 130	
2-Chlorophenol	5.00	5.35	107	70 - 130	
4-Chlorophenyl phenyl ether	5.00	4.89	98	70 - 130	
Chrysene	5.00	5.02	100	70 - 130	
Dibenz(a,h)anthracene	5.00	5.67	113	70 - 130	
Dibenzofuran	5.00	4.92	98	70 - 130	
1,2-Dichlorobenzene	5.00	5.32	106	70 - 130	
1,3-Dichlorobenzene	5.00	5.31	106	70 - 130	
1,4-Dichlorobenzene	5.00	5.19	104	70 - 130	
3,3'-Dichlorobenzidine	10.0	10.9	109	70 - 130	
2,4-Dichlorophenol	5.00	5.20	104	70 - 130	
Diethyl phthalate	5.00	5.27	105	70 - 130	
2,4-Dimethylphenol	5.00	5.15	103	70 - 130	
Dimethyl phthalate	5.00	5.17	103	70 - 130	
Di-n-butyl phthalate	5.00	5.13	103	70 - 130	
4,6-Dinitro-2-methylphenol	10.0	9.10	91	70 - 130	
2,4-Dinitrophenol	10.0	10.4	104	70 - 130	
2,4-Dinitrotoluene	5.00	5.35	107	70 - 130	
2,6-Dinitrotoluene	5.00	5.40	108	70 - 130	
Di-n-octyl phthalate	5.00	4.86	97	70 - 130	
Fluoranthene	5.00	4.95	99	70 - 130	
Fluorene	5.00	4.94	99	70 - 130	
Hexachlorobenzene	5.00	4.48	90	70 - 130	
Hexachlorobutadiene	5.00	4.90	98	70 - 130	
Hexachloroethane	5.00	5.25	105	70 - 130	
Indeno[1,2,3-cd]pyrene	5.00	5.54	111	70 - 130	
Isophorone	5.00	5.23	105	70 - 130	

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method Reporting Limit Check - Batch: 240-83588 **Method: 8270C/DoD**
Preparation: N/A

Lab Sample ID:	MRL 240-83588/3	Analysis Batch:	240-83588	Instrument ID:	A4HP9
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	30425103.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/25/2013 1606	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Methylnaphthalene	5.00	4.83	97	70 - 130	
2-Methylphenol	5.00	5.44	109	70 - 130	
3 & 4 Methylphenol	5.00	5.51	110	70 - 130	
Naphthalene	5.00	4.96	99	70 - 130	
2-Nitroaniline	5.00	5.68	114	70 - 130	
3-Nitroaniline	5.00	6.00	120	70 - 130	
4-Nitroaniline	5.00	4.85	97	70 - 130	
Nitrobenzene	5.00	5.12	102	70 - 130	
2-Nitrophenol	5.00	5.26	105	70 - 130	
4-Nitrophenol	10.0	10.6	106	70 - 130	
N-Nitrosodi-n-propylamine	5.00	5.35	107	70 - 130	
N-Nitrosodiphenylamine	10.0	9.67	97	70 - 130	
Pentachlorophenol	10.0	8.70	87	70 - 130	
Phenanthrene	5.00	4.95	99	70 - 130	
Phenol	5.00	5.41	108	70 - 130	
Pyrene	5.00	5.55	111	70 - 130	
1,2,4-Trichlorobenzene	5.00	4.94	99	70 - 130	
2,4,5-Trichlorophenol	5.00	5.39	108	70 - 130	
2,4,6-Trichlorophenol	5.00	5.33	107	70 - 130	

Surrogate	% Rec		Acceptance Limits
2-Fluorobiphenyl (Surr)	101		50 - 150
2-Fluorophenol (Surr)	105		50 - 150
Nitrobenzene-d5 (Surr)	100		50 - 150
Phenol-d5 (Surr)	107	Q	50 - 150
Terphenyl-d14 (Surr)	99		50 - 150
2,4,6-Tribromophenol (Surr)	105		50 - 150

Method Reporting Limit Check - Batch: 240-83588 **Method: 8270C/DoD**
Preparation: N/A

Lab Sample ID:	MRL 240-83588/12	Analysis Batch:	240-83588	Instrument ID:	A4HP9
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	30425112.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/25/2013 2007	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	5.00	4.89	98	70 - 130	
Acenaphthylene	5.00	5.07	101	70 - 130	
Anthracene	5.00	5.09	102	70 - 130	
Benzo[a]anthracene	5.00	4.98	100	70 - 130	
Benzo[a]pyrene	5.00	4.95	99	70 - 130	

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method Reporting Limit Check - Batch: 240-83588

Method: 8270C/DoD
Preparation: N/A

Lab Sample ID:	MRL 240-83588/12	Analysis Batch:	240-83588	Instrument ID:	A4HP9
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	30425112.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/25/2013 2007	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzo[b]fluoranthene	5.00	5.01	100	70 - 130	
Benzo[g,h,i]perylene	5.00	5.51	110	70 - 130	
Benzoic acid	10.0	7.82	78	70 - 130	
Benzo[k]fluoranthene	5.00	5.02	100	70 - 130	
Benzyl alcohol	5.00	5.14	103	70 - 130	
Bis(2-chloroethoxy)methane	5.00	5.14	103	70 - 130	
Bis(2-chloroethyl)ether	5.00	5.03	101	70 - 130	
bis (2-chloroisopropyl) ether	5.00	5.21	104	70 - 130	
Bis(2-ethylhexyl) phthalate	5.00	5.41	108	70 - 130	
4-Bromophenyl phenyl ether	5.00	4.63	93	70 - 130	
Butyl benzyl phthalate	5.00	5.33	107	70 - 130	
Carbazole	5.00	4.91	98	70 - 130	
4-Chloroaniline	5.00	5.00	100	70 - 130	
4-Chloro-3-methylphenol	5.00	4.71	94	70 - 130	
2-Chloronaphthalene	5.00	5.12	102	70 - 130	
2-Chlorophenol	5.00	5.21	104	70 - 130	
4-Chlorophenyl phenyl ether	5.00	4.84	97	70 - 130	
Chrysene	5.00	4.98	100	70 - 130	
Dibenz(a,h)anthracene	5.00	5.38	108	70 - 130	
Dibenzofuran	5.00	4.78	96	70 - 130	
1,2-Dichlorobenzene	5.00	5.03	101	70 - 130	
1,3-Dichlorobenzene	5.00	5.09	102	70 - 130	
1,4-Dichlorobenzene	5.00	5.08	102	70 - 130	
3,3'-Dichlorobenzidine	10.0	10.6	106	70 - 130	
2,4-Dichlorophenol	5.00	4.84	97	70 - 130	
Diethyl phthalate	5.00	5.14	103	70 - 130	
2,4-Dimethylphenol	5.00	4.84	97	70 - 130	
Dimethyl phthalate	5.00	5.17	103	70 - 130	
Di-n-butyl phthalate	5.00	4.92	98	70 - 130	
4,6-Dinitro-2-methylphenol	10.0	8.53	85	70 - 130	
2,4-Dinitrophenol	10.0	8.31	83	70 - 130	
2,4-Dinitrotoluene	5.00	5.52	110	70 - 130	
2,6-Dinitrotoluene	5.00	5.34	107	70 - 130	
Di-n-octyl phthalate	5.00	4.57	91	70 - 130	
Fluoranthene	5.00	4.80	96	70 - 130	
Fluorene	5.00	4.82	96	70 - 130	
Hexachlorobenzene	5.00	4.48	90	70 - 130	
Hexachlorobutadiene	5.00	4.64	93	70 - 130	
Hexachloroethane	5.00	4.98	100	70 - 130	
Indeno[1,2,3-cd]pyrene	5.00	5.39	108	70 - 130	
Isophorone	5.00	5.02	100	70 - 130	
2-Methylnaphthalene	5.00	4.69	94	70 - 130	
2-Methylphenol	5.00	5.15	103	70 - 130	
3 & 4 Methylphenol	5.00	5.20	104	70 - 130	
Naphthalene	5.00	4.86	97	70 - 130	
2-Nitroaniline	5.00	5.42	108	70 - 130	

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method Reporting Limit Check - Batch: 240-83588

Method: 8270C/DoD
Preparation: N/A

Lab Sample ID:	MRL 240-83588/12	Analysis Batch:	240-83588	Instrument ID:	A4HP9
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	30425112.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/25/2013 2007	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
3-Nitroaniline	5.00	5.72	114	70 - 130	
4-Nitroaniline	5.00	5.04	101	70 - 130	
Nitrobenzene	5.00	4.95	99	70 - 130	
2-Nitrophenol	5.00	5.18	104	70 - 130	
4-Nitrophenol	10.0	10.4	104	70 - 130	
N-Nitrosodi-n-propylamine	5.00	4.99	100	70 - 130	
N-Nitrosodiphenylamine	10.0	9.60	96	70 - 130	
Pentachlorophenol	10.0	8.45	85	70 - 130	
Phenanthrene	5.00	4.89	98	70 - 130	
Phenol	5.00	5.18	104	70 - 130	
Pyrene	5.00	5.45	109	70 - 130	
1,2,4-Trichlorobenzene	5.00	4.89	98	70 - 130	
2,4,5-Trichlorophenol	5.00	5.05	101	70 - 130	
2,4,6-Trichlorophenol	5.00	5.38	108	70 - 130	

Surrogate	% Rec		Acceptance Limits
2-Fluorobiphenyl (Surr)	99		50 - 150
2-Fluorophenol (Surr)	100		50 - 150
Nitrobenzene-d5 (Surr)	97		50 - 150
Phenol-d5 (Surr)	103	Q	50 - 150
Terphenyl-d14 (Surr)	98		50 - 150
2,4,6-Tribromophenol (Surr)	95		50 - 150

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method Blank - Batch: 240-82081

Method: 8015B_DRO/DOD
Preparation: 3540C

Lab Sample ID:	MB 240-82081/23-A	Analysis Batch:	240-82317	Instrument ID:	A2HP5F
Client Matrix:	Solid	Prep Batch:	240-82081	Lab File ID:	P5F17015.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	04/17/2013 2056	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/16/2013 0942			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
C10-C20	9.3	U	9.3	17
C20-C34	9.3	U	9.3	17

Surrogate	% Rec	Acceptance Limits
n-Nonane	49	10 - 110

Lab Control Sample - Batch: 240-82081

Method: 8015B_DRO/DOD
Preparation: 3540C

Lab Sample ID:	LCS 240-82081/24-A	Analysis Batch:	240-82317	Instrument ID:	A2HP5F
Client Matrix:	Solid	Prep Batch:	240-82081	Lab File ID:	P5F17016.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	04/17/2013 2126	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/16/2013 0942			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Diesel	83.3	67.3	81	47 - 138	

Surrogate	% Rec	Acceptance Limits
n-Nonane	58	10 - 110

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-82081

Method: 8015B_DRO/DOD
Preparation: 3540C

MS Lab Sample ID:	240-22756-1	Analysis Batch:	240-82317	Instrument ID:	A2HP5F
Client Matrix:	Solid	Prep Batch:	240-82081	Lab File ID:	P5F17032.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	29.58 g
Analysis Date:	04/18/2013 0535			Final Weight/Volume:	5 mL
Prep Date:	04/16/2013 0942			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	240-22756-1	Analysis Batch:	240-82317	Instrument ID:	A2HP5F
Client Matrix:	Solid	Prep Batch:	240-82081	Lab File ID:	P5F17033.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.10 g
Analysis Date:	04/18/2013 0605			Final Weight/Volume:	5 mL
Prep Date:	04/16/2013 0942			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Diesel	78	76	10 - 199	5	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
n-Nonane	53	50	10 - 110

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-82081

Method: 8015B_DRO/DOD
Preparation: 3540C

MS Lab Sample ID:	240-22756-1	Units:	mg/Kg	MSD Lab Sample ID:	240-22756-1
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/18/2013 0535			Analysis Date:	04/18/2013 0605
Prep Date:	04/16/2013 0942			Prep Date:	04/16/2013 0942
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Diesel	11	U	97.8	96.1	76.5	73.1

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method Blank - Batch: 240-82097

Method: 8015B_DRO/DOD
Preparation: 3540C

Lab Sample ID:	MB 240-82097/23-A	Analysis Batch:	240-82537	Instrument ID:	A2HP6F
Client Matrix:	Solid	Prep Batch:	240-82097	Lab File ID:	P6F18012.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	04/18/2013 2041	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/16/2013 1004			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
C10-C20	9.3	U	9.3	17
C20-C34	9.3	U	9.3	17

Surrogate	% Rec	Acceptance Limits
n-Nonane	50	10 - 110

Lab Control Sample - Batch: 240-82097

Method: 8015B_DRO/DOD
Preparation: 3540C

Lab Sample ID:	LCS 240-82097/24-A	Analysis Batch:	240-82537	Instrument ID:	A2HP6F
Client Matrix:	Solid	Prep Batch:	240-82097	Lab File ID:	P6F18013.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	04/18/2013 2113	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/16/2013 1004			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Diesel	83.3	59.4	71	47 - 138	

Surrogate	% Rec	Acceptance Limits
n-Nonane	48	10 - 110

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method Reporting Limit Check - Batch: 240-82317

Method: 8015B_DRO/DOD
Preparation: N/A

Lab Sample ID:	MRL 240-82317/14	Analysis Batch:	240-82317	Instrument ID:	A2HP5F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	P5F17014.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/17/2013 2025	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Diesel	100	103	103	70 - 130	

Surrogate	% Rec	Acceptance Limits
n-Nonane	110	70 - 130

Method Reporting Limit Check - Batch: 240-82317

Method: 8015B_DRO/DOD
Preparation: N/A

Lab Sample ID:	MRL 240-82317/42	Analysis Batch:	240-82317	Instrument ID:	A2HP5F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	P5F17042.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/18/2013 1037	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Diesel	100	101	101	70 - 130	

Surrogate	% Rec	Acceptance Limits
n-Nonane	103	70 - 130

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method Reporting Limit Check - Batch: 240-82531

Method: 8015B_DRO/DOD
Preparation: N/A

Lab Sample ID:	MRL 240-82531/19	Analysis Batch:	240-82531	Instrument ID:	A2HP5F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	P5F18019.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/19/2013 0006	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Diesel	100	101	101	70 - 130	

Surrogate	% Rec		Acceptance Limits
n-Nonane	112	Q	70 - 130

Method Reporting Limit Check - Batch: 240-82531

Method: 8015B_DRO/DOD
Preparation: N/A

Lab Sample ID:	MRL 240-82531/47	Analysis Batch:	240-82531	Instrument ID:	A2HP5F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	P5F18047.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/19/2013 1421	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Diesel	100	110	110	70 - 130	

Surrogate	% Rec		Acceptance Limits
n-Nonane	117	Q	70 - 130

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method Reporting Limit Check - Batch: 240-82537

Method: 8015B_DRO/DOD
Preparation: N/A

Lab Sample ID:	MRL 240-82537/6	Analysis Batch:	240-82537	Instrument ID:	A2HP6F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	P6F18006.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/18/2013 1732	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Diesel	100	102	102	70 - 130	

Surrogate	% Rec	Acceptance Limits
n-Nonane	90	70 - 130

Method Reporting Limit Check - Batch: 240-82537

Method: 8015B_DRO/DOD
Preparation: N/A

Lab Sample ID:	MRL 240-82537/39	Analysis Batch:	240-82537	Instrument ID:	A2HP6F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	P6F18039.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/19/2013 1049	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Diesel	100	98.1	98	70 - 130	J

Surrogate	% Rec	Acceptance Limits
n-Nonane	105	70 - 130

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method Reporting Limit Check - Batch: 240-82770

Method: 8015B_DRO/DOD
Preparation: N/A

Lab Sample ID:	MRL 240-82770/6	Analysis Batch:	240-82770	Instrument ID:	A2HP6F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	P6F19006.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/19/2013 1927	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Diesel	100	98.4	98	70 - 130	J

Surrogate	% Rec	Acceptance Limits
n-Nonane	99	70 - 130

Method Reporting Limit Check - Batch: 240-82770

Method: 8015B_DRO/DOD
Preparation: N/A

Lab Sample ID:	MRL 240-82770/26	Analysis Batch:	240-82770	Instrument ID:	A2HP6F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	P6F19026.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	04/20/2013 0540	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Diesel	100	97.9	98	70 - 130	J

Surrogate	% Rec	Acceptance Limits
n-Nonane	103	70 - 130

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method Blank - Batch: 180-69392

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	MB 180-69392/1-A	Analysis Batch:	180-71214	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-69392	Lab File ID:	M30507A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.00 g
Analysis Date:	05/07/2013 1304	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/17/2013 1027				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Silver	0.030	U	0.011	0.10
Aluminum	0.60	U	0.28	3.0
Arsenic	0.050	U	0.018	0.10
Barium	0.0175	J Q	0.011	1.0
Beryllium	0.010	U Q	0.0075	0.10
Calcium	2.53	J	1.3	10
Cadmium	0.0149	J	0.013	0.10
Chromium	0.040	U	0.022	0.20
Cobalt	0.010	U Q	0.0024	0.050
Copper	0.060	U Q	0.033	0.20
Iron	1.17	J	1.1	5.0
Magnesium	2.0	U	1.1	10
Manganese	0.0198	J Q	0.016	0.50
Sodium	5.0	U	2.7	10
Nickel	0.030	U	0.011	0.10
Lead	0.030	U Q	0.015	0.10
Antimony	0.10	U	0.046	0.20
Thallium	0.020	U	0.010	0.10
Vanadium	0.060	U	0.030	0.10
Zinc	0.20	U Q	0.065	0.50
Potassium	6.0	U	3.2	10
Selenium	0.10	U	0.051	0.50

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Lab Control Sample - Batch: 180-69392

Method: 6020/DOD
Preparation: 3050B

Lab Sample ID:	LCS 180-69392/2-A	Analysis Batch:	180-71214	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-69392	Lab File ID:	M30507A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	00001.05 g
Analysis Date:	05/07/2013 1313	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/17/2013 1027				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	4.76	4.47	94	60 - 114	
Aluminum	190	181	95	80 - 120	
Arsenic	3.81	3.27	86	73 - 110	
Barium	190	177	93	70 - 110	Q
Beryllium	4.76	4.00	84	79 - 110	Q
Calcium	4760	4080	86	80 - 120	
Cadmium	4.76	4.06	85	74 - 110	
Chromium	19.0	17.6	93	70 - 110	
Cobalt	47.6	45.9	96	74 - 110	Q
Copper	23.8	23.8	100	73 - 110	Q
Iron	95.2	102	107	80 - 120	
Magnesium	4760	4360	92	80 - 120	
Manganese	47.6	43.9	92	80 - 120	Q
Sodium	4760	4350	91	80 - 120	
Nickel	47.6	46.3	97	75 - 110	
Lead	1.90	1.89	99	75 - 110	Q
Antimony	47.6	40.9	86	68 - 113	
Thallium	4.76	4.62	97	71 - 110	
Vanadium	47.6	44.8	94	72 - 110	
Zinc	47.6	39.5	83	72 - 113	Q
Potassium	4760	4320	91	80 - 120	
Selenium	0.952	0.792	83	65 - 110	

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Method Blank - Batch: 240-82367

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	MB 240-82367/1-A	Analysis Batch:	240-82912	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-82367	Lab File ID:	041913A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	04/19/2013 1004	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/17/2013 1455				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Mercury	0.033	U	0.014	0.10

Lab Control Sample - Batch: 240-82367

Method: 7471/DOD
Preparation: 7471A

Lab Sample ID:	LCS 240-82367/2-A	Analysis Batch:	240-82912	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-82367	Lab File ID:	041913A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	04/19/2013 1006	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/17/2013 1455				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.833	0.783	94	80 - 120	

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Duplicate - Batch: 240-80579

Method: Moisture
Preparation: N/A

Lab Sample ID:	240-22756-1	Analysis Batch:	240-80579	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/04/2013 1037	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	86	85	2	20	
Percent Moisture	14	15	10	20	

Duplicate - Batch: 240-80579

Method: Moisture
Preparation: N/A

Lab Sample ID:	240-22756-3	Analysis Batch:	240-80579	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/04/2013 1037	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	85	85	0.06	20	
Percent Moisture	15	15	0.4	20	

DATA REPORTING QUALIFIERS

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Lab Section	Qualifier	Description
GC/MS VOA		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	^	Instrument related QC exceeds the control limits
	U	Undetected at the Limit of Detection.
GC/MS Semi VOA		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	^	Instrument related QC exceeds the control limits
	M	Manual integrated compound.
	Q	One or more quality control criteria failed.
	H	Sample was prepped or analyzed beyond the specified holding time
	D	The reported value is from a dilution.
	U	Undetected at the Limit of Detection.
GC Semi VOA		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	M	Manual integrated compound.
	Q	One or more quality control criteria failed.
	D	The reported value is from a dilution.
	U	Undetected at the Limit of Detection.
Metals		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	Q	One or more quality control criteria failed.
	U	Undetected at the Limit of Detection.

Client: Environmental Chemical Corp. Job Number: 240-22756-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-81013					
LCS 240-81013/4	Lab Control Sample	T	Water	8260B/DoD	
MB 240-81013/6	Method Blank	T	Water	8260B/DoD	
240-22756-16	074SB-0022-0001-TB	T	Water	8260B/DoD	

Report Basis
T = Total

Client: Environmental Chemical Corp. Job Number: 240-22756-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 240-81947					
LCS 240-81947/24-A	Lab Control Sample	T	Solid	3540C	
MB 240-81947/23-A	Method Blank	T	Solid	3540C	
240-22756-1	074SB-0001-0001,0002-SO	T	Solid	3540C	
240-22756-1MS	Matrix Spike	T	Solid	3540C	
240-22756-1MSD	Matrix Spike Duplicate	T	Solid	3540C	
240-22756-2	074SB-0002-0001-SO	T	Solid	3540C	
240-22756-4	074SB-0005-0001-SO	T	Solid	3540C	
240-22756-5	074SB-0006-0001-SO	T	Solid	3540C	
240-22756-6	074SB-0007-0001-SO	T	Solid	3540C	
240-22756-7	074SB-0008-0001-SO	T	Solid	3540C	
240-22756-8	074SB-0009-0001-SO	T	Solid	3540C	
240-22756-10	074SB-0016-0001-SO	T	Solid	3540C	
240-22756-11	074SB-0017-0001-SO	T	Solid	3540C	
240-22756-12	074SB-0018-0001-SO	T	Solid	3540C	
240-22756-13	074SB-0019-0001-SO	T	Solid	3540C	
240-22756-14	074SB-0020-0001-SO	T	Solid	3540C	
240-22756-15	074SB-0021-0001-SO	T	Solid	3540C	
Analysis Batch:240-82653					
LCS 240-81947/24-A	Lab Control Sample	T	Solid	8270C/DoD	240-81947
MB 240-81947/23-A	Method Blank	T	Solid	8270C/DoD	240-81947
240-22756-1	074SB-0001-0001,0002-SO	T	Solid	8270C/DoD	240-81947
240-22756-1MS	Matrix Spike	T	Solid	8270C/DoD	240-81947
240-22756-1MSD	Matrix Spike Duplicate	T	Solid	8270C/DoD	240-81947
240-22756-2	074SB-0002-0001-SO	T	Solid	8270C/DoD	240-81947
240-22756-4	074SB-0005-0001-SO	T	Solid	8270C/DoD	240-81947
240-22756-5	074SB-0006-0001-SO	T	Solid	8270C/DoD	240-81947
240-22756-6	074SB-0007-0001-SO	T	Solid	8270C/DoD	240-81947
240-22756-7	074SB-0008-0001-SO	T	Solid	8270C/DoD	240-81947
240-22756-8	074SB-0009-0001-SO	T	Solid	8270C/DoD	240-81947
240-22756-10	074SB-0016-0001-SO	T	Solid	8270C/DoD	240-81947
240-22756-11	074SB-0017-0001-SO	T	Solid	8270C/DoD	240-81947
240-22756-12	074SB-0018-0001-SO	T	Solid	8270C/DoD	240-81947
240-22756-13	074SB-0019-0001-SO	T	Solid	8270C/DoD	240-81947
240-22756-14	074SB-0020-0001-SO	T	Solid	8270C/DoD	240-81947
240-22756-15	074SB-0021-0001-SO	T	Solid	8270C/DoD	240-81947
Prep Batch: 240-83163					
LCS 240-83163/16-A	Lab Control Sample	T	Solid	3540C	
MB 240-83163/15-A	Method Blank	T	Solid	3540C	
240-22756-3RE	074SB-0003-0001-SO	T	Solid	3540C	

Client: Environmental Chemical Corp. Job Number: 240-22756-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:240-83588					
LCS 240-83163/16-A	Lab Control Sample	T	Solid	8270C/DoD	240-83163
MB 240-83163/15-A	Method Blank	T	Solid	8270C/DoD	240-83163
240-22756-3RE	074SB-0003-0001-SO	T	Solid	8270C/DoD	240-83163

Report Basis
T = Total

Client: Environmental Chemical Corp. Job Number: 240-22756-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 240-82081					
LCS 240-82081/24-A	Lab Control Sample	T	Solid	3540C	
MB 240-82081/23-A	Method Blank	T	Solid	3540C	
240-22756-1	074SB-0001-0001,0002-SO	T	Solid	3540C	
240-22756-1MS	Matrix Spike	T	Solid	3540C	
240-22756-1MSD	Matrix Spike Duplicate	T	Solid	3540C	
240-22756-2	074SB-0002-0001-SO	T	Solid	3540C	
240-22756-3	074SB-0003-0001-SO	T	Solid	3540C	
240-22756-4	074SB-0005-0001-SO	T	Solid	3540C	
240-22756-5	074SB-0006-0001-SO	T	Solid	3540C	
240-22756-6	074SB-0007-0001-SO	T	Solid	3540C	
240-22756-7	074SB-0008-0001-SO	T	Solid	3540C	
Prep Batch: 240-82097					
LCS 240-82097/24-A	Lab Control Sample	T	Solid	3540C	
MB 240-82097/23-A	Method Blank	T	Solid	3540C	
240-22756-8	074SB-0009-0001-SO	T	Solid	3540C	
240-22756-10	074SB-0016-0001-SO	T	Solid	3540C	
240-22756-11	074SB-0017-0001-SO	T	Solid	3540C	
240-22756-12	074SB-0018-0001-SO	T	Solid	3540C	
240-22756-13	074SB-0019-0001-SO	T	Solid	3540C	
240-22756-14	074SB-0020-0001-SO	T	Solid	3540C	
240-22756-15	074SB-0021-0001-SO	T	Solid	3540C	
Analysis Batch:240-82317					
LCS 240-82081/24-A	Lab Control Sample	T	Solid	8015B_DRO/DO	240-82081
MB 240-82081/23-A	Method Blank	T	Solid	8015B_DRO/DO	240-82081
240-22756-1	074SB-0001-0001,0002-SO	T	Solid	8015B_DRO/DO	240-82081
240-22756-1MS	Matrix Spike	T	Solid	8015B_DRO/DO	240-82081
240-22756-1MSD	Matrix Spike Duplicate	T	Solid	8015B_DRO/DO	240-82081
240-22756-2	074SB-0002-0001-SO	T	Solid	8015B_DRO/DO	240-82081
240-22756-3	074SB-0003-0001-SO	T	Solid	8015B_DRO/DO	240-82081
240-22756-5	074SB-0006-0001-SO	T	Solid	8015B_DRO/DO	240-82081
240-22756-6	074SB-0007-0001-SO	T	Solid	8015B_DRO/DO	240-82081
Analysis Batch:240-82531					
240-22756-4	074SB-0005-0001-SO	T	Solid	8015B_DRO/DO	240-82081
240-22756-7	074SB-0008-0001-SO	T	Solid	8015B_DRO/DO	240-82081
Analysis Batch:240-82537					
LCS 240-82097/24-A	Lab Control Sample	T	Solid	8015B_DRO/DO	240-82097
MB 240-82097/23-A	Method Blank	T	Solid	8015B_DRO/DO	240-82097
240-22756-8	074SB-0009-0001-SO	T	Solid	8015B_DRO/DO	240-82097
240-22756-10	074SB-0016-0001-SO	T	Solid	8015B_DRO/DO	240-82097
240-22756-11	074SB-0017-0001-SO	T	Solid	8015B_DRO/DO	240-82097
240-22756-15	074SB-0021-0001-SO	T	Solid	8015B_DRO/DO	240-82097

Client: Environmental Chemical Corp. Job Number: 240-22756-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:240-82770					
240-22756-12	074SB-0018-0001-SO	T	Solid	8015B_DRO/DO	240-82097
240-22756-13	074SB-0019-0001-SO	T	Solid	8015B_DRO/DO	240-82097
240-22756-14	074SB-0020-0001-SO	T	Solid	8015B_DRO/DO	240-82097

Report Basis
T = Total

Metals					
Prep Batch: 180-69392					
LCS 180-69392/2-A	Lab Control Sample	T	Solid	3050B	
MB 180-69392/1-A	Method Blank	T	Solid	3050B	
240-22756-9	079SD-0308-0001-SO	T	Solid	3050B	
Analysis Batch:180-71214					
LCS 180-69392/2-A	Lab Control Sample	T	Solid	6020/DOD	180-69392
MB 180-69392/1-A	Method Blank	T	Solid	6020/DOD	180-69392
240-22756-9	079SD-0308-0001-SO	T	Solid	6020/DOD	180-69392
Prep Batch: 240-82367					
LCS 240-82367/2-A	Lab Control Sample	T	Solid	7471A	
MB 240-82367/1-A	Method Blank	T	Solid	7471A	
240-22756-9	079SD-0308-0001-SO	T	Solid	7471A	
Analysis Batch:240-82912					
LCS 240-82367/2-A	Lab Control Sample	T	Solid	7471/DOD	240-82367
MB 240-82367/1-A	Method Blank	T	Solid	7471/DOD	240-82367
240-22756-9	079SD-0308-0001-SO	T	Solid	7471/DOD	240-82367

Report Basis
T = Total

Client: Environmental Chemical Corp. Job Number: 240-22756-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:240-80579					
240-22756-1	074SB-0001-0001,0002-SO	T	Solid	Moisture	
240-22756-1DU	Duplicate	T	Solid	Moisture	
240-22756-2	074SB-0002-0001-SO	T	Solid	Moisture	
240-22756-3	074SB-0003-0001-SO	T	Solid	Moisture	
240-22756-3DU	Duplicate	T	Solid	Moisture	
240-22756-4	074SB-0005-0001-SO	T	Solid	Moisture	
240-22756-5	074SB-0006-0001-SO	T	Solid	Moisture	
240-22756-6	074SB-0007-0001-SO	T	Solid	Moisture	
240-22756-7	074SB-0008-0001-SO	T	Solid	Moisture	
240-22756-8	074SB-0009-0001-SO	T	Solid	Moisture	
240-22756-9	079SD-0308-0001-SO	T	Solid	Moisture	
240-22756-10	074SB-0016-0001-SO	T	Solid	Moisture	
240-22756-11	074SB-0017-0001-SO	T	Solid	Moisture	
240-22756-12	074SB-0018-0001-SO	T	Solid	Moisture	
240-22756-13	074SB-0019-0001-SO	T	Solid	Moisture	
240-22756-14	074SB-0020-0001-SO	T	Solid	Moisture	
240-22756-15	074SB-0021-0001-SO	T	Solid	Moisture	

Report Basis
T = Total

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Laboratory Chronicle

Lab ID: 240-22756-1 **Client ID:** 074SB-0001-0001,0002-SO

Sample Date/Time: 04/02/2013 08:42 Received Date/Time: 04/03/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3540C	240-22756-D-1-A		240-82653	240-81947	04/15/2013 11:33	1	TAL CAN	LM
A:8270C/DoD	240-22756-D-1-A		240-82653	240-81947	04/19/2013 12:17	1	TAL CAN	JG
P:3540C	240-22756-E-1-A		240-82317	240-82081	04/16/2013 09:42	1	TAL CAN	CC
A:8015B_DRO/DOD	240-22756-E-1-A		240-82317	240-82081	04/18/2013 05:04	1	TAL CAN	DB
A:Moisture	240-22756-A-1		240-80579		04/04/2013 10:37	1	TAL CAN	JS

Lab ID: 240-22756-1 **Client ID:** 074SB-0001-0001,0002-SO

Sample Date/Time: 04/02/2013 08:42 Received Date/Time: 04/03/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3540C	240-22756-D-1-B MS		240-82653	240-81947	04/15/2013 11:33	1	TAL CAN	LM
A:8270C/DoD	240-22756-D-1-B MS		240-82653	240-81947	04/19/2013 12:41	1	TAL CAN	JG
P:3540C	240-22756-E-1-B MS		240-82317	240-82081	04/16/2013 09:42	1	TAL CAN	CC
A:8015B_DRO/DOD	240-22756-E-1-B MS		240-82317	240-82081	04/18/2013 05:35	1	TAL CAN	DB

Lab ID: 240-22756-1 **Client ID:** 074SB-0001-0001,0002-SO

Sample Date/Time: 04/02/2013 08:42 Received Date/Time: 04/03/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3540C	240-22756-D-1-C MSD		240-82653	240-81947	04/15/2013 11:33	1	TAL CAN	LM
A:8270C/DoD	240-22756-D-1-C MSD		240-82653	240-81947	04/19/2013 13:04	1	TAL CAN	JG
P:3540C	240-22756-E-1-C MSD		240-82317	240-82081	04/16/2013 09:42	1	TAL CAN	CC
A:8015B_DRO/DOD	240-22756-E-1-C MSD		240-82317	240-82081	04/18/2013 06:05	1	TAL CAN	DB

Lab ID: 240-22756-1 **Client ID:** 074SB-0001-0001,0002-SO

Sample Date/Time: 04/02/2013 08:42 Received Date/Time: 04/03/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	240-22756-B-1 DU		240-80579		04/04/2013 10:37	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Laboratory Chronicle

Lab ID: 240-22756-2 **Client ID: 074SB-0002-0001-SO**

Sample Date/Time: 04/02/2013 09:50 Received Date/Time: 04/03/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3540C	240-22756-B-2-A		240-82653	240-81947	04/15/2013 11:33	1	TAL CAN	LM
A:8270C/DoD	240-22756-B-2-A		240-82653	240-81947	04/19/2013 18:55	1	TAL CAN	JG
P:3540C	240-22756-B-2-B		240-82317	240-82081	04/16/2013 09:42	1	TAL CAN	CC
A:8015B_DRO/DOD	240-22756-B-2-B		240-82317	240-82081	04/18/2013 06:36	1	TAL CAN	DB
A:Moisture	240-22756-A-2		240-80579		04/04/2013 10:37	1	TAL CAN	JS

Lab ID: 240-22756-3 **Client ID: 074SB-0003-0001-SO**

Sample Date/Time: 04/02/2013 09:50 Received Date/Time: 04/03/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3540C	240-22756-B-3-C	RE	240-83588	240-83163	04/23/2013 10:03	1	TAL CAN	JS
A:8270C/DoD	240-22756-B-3-C	RE	240-83588	240-83163	04/25/2013 19:14	1	TAL CAN	MU
P:3540C	240-22756-B-3-B		240-82317	240-82081	04/16/2013 09:42	1	TAL CAN	CC
A:8015B_DRO/DOD	240-22756-B-3-B		240-82317	240-82081	04/18/2013 07:06	1	TAL CAN	DB
A:Moisture	240-22756-A-3		240-80579		04/04/2013 10:37	1	TAL CAN	JS

Lab ID: 240-22756-3 DU **Client ID: 074SB-0003-0001-SO**

Sample Date/Time: 04/02/2013 09:50 Received Date/Time: 04/03/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	240-22756-A-3 DU		240-80579		04/04/2013 10:37	1	TAL CAN	JS

Lab ID: 240-22756-4 **Client ID: 074SB-0005-0001-SO**

Sample Date/Time: 04/02/2013 09:18 Received Date/Time: 04/03/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3540C	240-22756-B-4-A		240-82653	240-81947	04/15/2013 11:33	1	TAL CAN	LM
A:8270C/DoD	240-22756-B-4-A		240-82653	240-81947	04/19/2013 17:21	1	TAL CAN	JG
P:3540C	240-22756-B-4-B		240-82531	240-82081	04/16/2013 09:42	1	TAL CAN	CC
A:8015B_DRO/DOD	240-22756-B-4-B		240-82531	240-82081	04/19/2013 02:09	1	TAL CAN	DB
A:Moisture	240-22756-A-4		240-80579		04/04/2013 10:37	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Laboratory Chronicle

Lab ID: 240-22756-5 **Client ID: 074SB-0006-0001-SO**

Sample Date/Time: 04/02/2013 10:13 Received Date/Time: 04/03/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3540C	240-22756-E-5-A		240-82653	240-81947	04/15/2013 11:33	1	TAL CAN	LM
A:8270C/DoD	240-22756-E-5-A		240-82653	240-81947	04/19/2013 18:31	1	TAL CAN	JG
P:3540C	240-22756-E-5-B		240-82317	240-82081	04/16/2013 09:42	1	TAL CAN	CC
A:8015B_DRO/DOD	240-22756-E-5-B		240-82317	240-82081	04/18/2013 08:37	1	TAL CAN	DB
A:Moisture	240-22756-D-5		240-80579		04/04/2013 10:37	1	TAL CAN	JS

Lab ID: 240-22756-6 **Client ID: 074SB-0007-0001-SO**

Sample Date/Time: 04/02/2013 11:33 Received Date/Time: 04/03/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3540C	240-22756-B-6-A		240-82653	240-81947	04/15/2013 11:33	1	TAL CAN	LM
A:8270C/DoD	240-22756-B-6-A		240-82653	240-81947	04/19/2013 19:18	1	TAL CAN	JG
P:3540C	240-22756-B-6-B		240-82317	240-82081	04/16/2013 09:42	1	TAL CAN	CC
A:8015B_DRO/DOD	240-22756-B-6-B		240-82317	240-82081	04/18/2013 09:07	1	TAL CAN	DB
A:Moisture	240-22756-A-6		240-80579		04/04/2013 10:37	1	TAL CAN	JS

Lab ID: 240-22756-7 **Client ID: 074SB-0008-0001-SO**

Sample Date/Time: 04/02/2013 12:01 Received Date/Time: 04/03/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3540C	240-22756-B-7-A		240-82653	240-81947	04/15/2013 11:33	1	TAL CAN	LM
A:8270C/DoD	240-22756-B-7-A		240-82653	240-81947	04/19/2013 20:28	1	TAL CAN	JG
P:3540C	240-22756-B-7-B		240-82531	240-82081	04/16/2013 09:42	1	TAL CAN	CC
A:8015B_DRO/DOD	240-22756-B-7-B		240-82531	240-82081	04/19/2013 02:39	1	TAL CAN	DB
A:Moisture	240-22756-A-7		240-80579		04/04/2013 10:37	1	TAL CAN	JS

Lab ID: 240-22756-8 **Client ID: 074SB-0009-0001-SO**

Sample Date/Time: 04/02/2013 12:38 Received Date/Time: 04/03/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3540C	240-22756-B-8-A		240-82653	240-81947	04/15/2013 11:33	1	TAL CAN	LM
A:8270C/DoD	240-22756-B-8-A		240-82653	240-81947	04/19/2013 20:05	1	TAL CAN	JG
P:3540C	240-22756-B-8-B		240-82537	240-82097	04/16/2013 10:04	1	TAL CAN	CC
A:8015B_DRO/DOD	240-22756-B-8-B		240-82537	240-82097	04/18/2013 21:44	1	TAL CAN	DB
A:Moisture	240-22756-A-8		240-80579		04/04/2013 10:37	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Laboratory Chronicle

Lab ID: 240-22756-9 **Client ID: 079SD-0308-0001-SO**

Sample Date/Time: 04/02/2013 10:00 Received Date/Time: 04/03/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-22756-B-9-A		180-71214	180-69392	04/17/2013 10:27	1	TAL PIT	CH
A:6020/DOD	240-22756-B-9-A		180-71214	180-69392	05/07/2013 13:21	1	TAL PIT	BR
P:7471A	240-22756-C-9-A		240-82912	240-82367	04/17/2013 14:55	1	TAL CAN	DE
A:7471/DOD	240-22756-C-9-A		240-82912	240-82367	04/19/2013 10:25	1	TAL CAN	AS
A:Moisture	240-22756-A-9		240-80579		04/04/2013 10:37	1	TAL CAN	JS

Lab ID: 240-22756-10 **Client ID: 074SB-0016-0001-SO**

Sample Date/Time: 04/02/2013 09:45 Received Date/Time: 04/03/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3540C	240-22756-B-10-A		240-82653	240-81947	04/15/2013 11:33	2.5	TAL CAN	LM
A:8270C/DoD	240-22756-B-10-A		240-82653	240-81947	04/19/2013 13:51	2.5	TAL CAN	JG
P:3540C	240-22756-B-10-B		240-82537	240-82097	04/16/2013 10:04	1	TAL CAN	CC
A:8015B_DRO/DOD	240-22756-B-10-B		240-82537	240-82097	04/18/2013 22:16	1	TAL CAN	DB
A:Moisture	240-22756-A-10		240-80579		04/04/2013 10:37	1	TAL CAN	JS

Lab ID: 240-22756-11 **Client ID: 074SB-0017-0001-SO**

Sample Date/Time: 04/02/2013 09:12 Received Date/Time: 04/03/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3540C	240-22756-B-11-A		240-82653	240-81947	04/15/2013 11:33	1	TAL CAN	LM
A:8270C/DoD	240-22756-B-11-A		240-82653	240-81947	04/19/2013 17:45	1	TAL CAN	JG
P:3540C	240-22756-B-11-B		240-82537	240-82097	04/16/2013 10:04	1	TAL CAN	CC
A:8015B_DRO/DOD	240-22756-B-11-B		240-82537	240-82097	04/18/2013 22:47	1	TAL CAN	DB
A:Moisture	240-22756-A-11		240-80579		04/04/2013 10:37	1	TAL CAN	JS

Lab ID: 240-22756-12 **Client ID: 074SB-0018-0001-SO**

Sample Date/Time: 04/02/2013 10:08 Received Date/Time: 04/03/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3540C	240-22756-B-12-A		240-82653	240-81947	04/15/2013 11:33	2.5	TAL CAN	LM
A:8270C/DoD	240-22756-B-12-A		240-82653	240-81947	04/19/2013 14:38	2.5	TAL CAN	JG
P:3540C	240-22756-B-12-B		240-82770	240-82097	04/16/2013 10:04	5	TAL CAN	CC
A:8015B_DRO/DOD	240-22756-B-12-B		240-82770	240-82097	04/19/2013 20:29	5	TAL CAN	DB
A:Moisture	240-22756-A-12		240-80579		04/04/2013 10:37	1	TAL CAN	JS

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Laboratory Chronicle

Lab ID: 240-22756-13 **Client ID: 074SB-0019-0001-SO**

Sample Date/Time: 04/02/2013 11:59 Received Date/Time: 04/03/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3540C	240-22756-B-13-A		240-82653	240-81947	04/15/2013 11:33	10	TAL CAN	LM
A:8270C/DoD	240-22756-B-13-A		240-82653	240-81947	04/19/2013 13:28	10	TAL CAN	JG
P:3540C	240-22756-B-13-B		240-82770	240-82097	04/16/2013 10:04	10	TAL CAN	CC
A:8015B_DRO/DOD	240-22756-B-13-B		240-82770	240-82097	04/19/2013 21:00	10	TAL CAN	DB
A:Moisture	240-22756-A-13		240-80579		04/04/2013 10:37	1	TAL CAN	JS

Lab ID: 240-22756-14 **Client ID: 074SB-0020-0001-SO**

Sample Date/Time: 04/02/2013 12:45 Received Date/Time: 04/03/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3540C	240-22756-B-14-A		240-82653	240-81947	04/15/2013 11:33	2.5	TAL CAN	LM
A:8270C/DoD	240-22756-B-14-A		240-82653	240-81947	04/19/2013 14:14	2.5	TAL CAN	JG
P:3540C	240-22756-B-14-B		240-82770	240-82097	04/16/2013 10:04	5	TAL CAN	CC
A:8015B_DRO/DOD	240-22756-B-14-B		240-82770	240-82097	04/19/2013 21:31	5	TAL CAN	DB
A:Moisture	240-22756-A-14		240-80579		04/04/2013 10:37	1	TAL CAN	JS

Lab ID: 240-22756-15 **Client ID: 074SB-0021-0001-SO**

Sample Date/Time: 04/02/2013 12:50 Received Date/Time: 04/03/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3540C	240-22756-B-15-A		240-82653	240-81947	04/15/2013 11:33	1	TAL CAN	LM
A:8270C/DoD	240-22756-B-15-A		240-82653	240-81947	04/19/2013 16:58	1	TAL CAN	JG
P:3540C	240-22756-B-15-B		240-82537	240-82097	04/16/2013 10:04	1	TAL CAN	CC
A:8015B_DRO/DOD	240-22756-B-15-B		240-82537	240-82097	04/19/2013 01:23	1	TAL CAN	DB
A:Moisture	240-22756-A-15		240-80579		04/04/2013 10:37	1	TAL CAN	JS

Lab ID: 240-22756-16 **Client ID: 074SB-0022-0001-TB**

Sample Date/Time: 04/02/2013 08:00 Received Date/Time: 04/03/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	240-22756-A-16		240-81013		04/08/2013 16:48	1	TAL CAN	RQ
A:8260B/DoD	240-22756-A-16		240-81013		04/08/2013 16:48	1	TAL CAN	RQ

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Laboratory Chronicle

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 240-81013/6		240-81013		04/08/2013 13:34	1	TAL CAN	RQ
A:8260B/DoD	MB 240-81013/6		240-81013		04/08/2013 13:34	1	TAL CAN	RQ
P:3540C	MB 240-81947/23-A		240-82653	240-81947	04/15/2013 11:33	1	TAL CAN	LM
A:8270C/DoD	MB 240-81947/23-A		240-82653	240-81947	04/19/2013 11:30	1	TAL CAN	JG
P:3540C	MB 240-83163/15-A		240-83588	240-83163	04/23/2013 10:03	1	TAL CAN	JS
A:8270C/DoD	MB 240-83163/15-A		240-83588	240-83163	04/25/2013 16:33	1	TAL CAN	MU
P:3540C	MB 240-82081/23-A		240-82317	240-82081	04/16/2013 09:42	1	TAL CAN	CC
A:8015B_DRO/DOD	MB 240-82081/23-A		240-82317	240-82081	04/17/2013 20:56	1	TAL CAN	DB
P:3540C	MB 240-82097/23-A		240-82537	240-82097	04/16/2013 10:04	1	TAL CAN	CC
A:8015B_DRO/DOD	MB 240-82097/23-A		240-82537	240-82097	04/18/2013 20:41	1	TAL CAN	DB
P:3050B	MB 180-69392/1-A		180-71214	180-69392	04/17/2013 10:27	1	TAL PIT	CH
A:6020/DOD	MB 180-69392/1-A		180-71214	180-69392	05/07/2013 13:04	1	TAL PIT	BR
P:7471A	MB 240-82367/1-A		240-82912	240-82367	04/17/2013 14:55	1	TAL CAN	DE
A:7471/DOD	MB 240-82367/1-A		240-82912	240-82367	04/19/2013 10:04	1	TAL CAN	AS

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 240-81013/4		240-81013		04/08/2013 12:50	1	TAL CAN	RQ
A:8260B/DoD	LCS 240-81013/4		240-81013		04/08/2013 12:50	1	TAL CAN	RQ
P:3540C	LCS 240-81947/24-A		240-82653	240-81947	04/15/2013 11:33	1	TAL CAN	LM
A:8270C/DoD	LCS 240-81947/24-A		240-82653	240-81947	04/19/2013 11:54	1	TAL CAN	JG
P:3540C	LCS 240-83163/16-A		240-83588	240-83163	04/23/2013 10:03	1	TAL CAN	JS
A:8270C/DoD	LCS 240-83163/16-A		240-83588	240-83163	04/25/2013 17:00	1	TAL CAN	MU
P:3540C	LCS 240-82081/24-A		240-82317	240-82081	04/16/2013 09:42	1	TAL CAN	CC
A:8015B_DRO/DOD	LCS 240-82081/24-A		240-82317	240-82081	04/17/2013 21:26	1	TAL CAN	DB
P:3540C	LCS 240-82097/24-A		240-82537	240-82097	04/16/2013 10:04	1	TAL CAN	CC
A:8015B_DRO/DOD	LCS 240-82097/24-A		240-82537	240-82097	04/18/2013 21:13	1	TAL CAN	DB
P:3050B	LCS 180-69392/2-A		180-71214	180-69392	04/17/2013 10:27	1	TAL PIT	CH
A:6020/DOD	LCS 180-69392/2-A		180-71214	180-69392	05/07/2013 13:13	1	TAL PIT	BR
P:7471A	LCS 240-82367/2-A		240-82912	240-82367	04/17/2013 14:55	1	TAL CAN	DE
A:7471/DOD	LCS 240-82367/2-A		240-82912	240-82367	04/19/2013 10:06	1	TAL CAN	AS

Client: Environmental Chemical Corp. Job Number: 240-22756-1

Laboratory Chronicle

Lab ID: **MRL** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MRL 240-81013/5		240-81013		04/08/2013 13:12	1	TAL CAN	RQ
A:8260B/DoD	MRL 240-81013/5		240-81013		04/08/2013 13:12	1	TAL CAN	RQ
P:5030B	MRL 240-81013/21		240-81013		04/08/2013 18:58	1	TAL CAN	RQ
A:8260B/DoD	MRL 240-81013/21		240-81013		04/08/2013 18:58	1	TAL CAN	RQ
A:8270C/DoD	MRL 240-82653/3		240-82653		04/19/2013 11:07	1	TAL CAN	JG
A:8270C/DoD	MRL 240-82653/28		240-82653		04/19/2013 20:51	1	TAL CAN	JG
A:8270C/DoD	MRL 240-83588/3		240-83588		04/25/2013 16:06	1	TAL CAN	MU
A:8270C/DoD	MRL 240-83588/12		240-83588		04/25/2013 20:07	1	TAL CAN	MU
A:8015B_DRO/DOD	MRL 240-82317/14		240-82317		04/17/2013 20:25	1	TAL CAN	DB
A:8015B_DRO/DOD	MRL 240-82317/42		240-82317		04/18/2013 10:37	1	TAL CAN	DB
A:8015B_DRO/DOD	MRL 240-82537/6		240-82537		04/18/2013 17:32	1	TAL CAN	DB
A:8015B_DRO/DOD	MRL 240-82531/19		240-82531		04/19/2013 00:06	1	TAL CAN	DB
A:8015B_DRO/DOD	MRL 240-82537/39		240-82537		04/19/2013 10:49	1	TAL CAN	DB
A:8015B_DRO/DOD	MRL 240-82531/47		240-82531		04/19/2013 14:21	1	TAL CAN	DB
A:8015B_DRO/DOD	MRL 240-82770/6		240-82770		04/19/2013 19:27	1	TAL CAN	DB
A:8015B_DRO/DOD	MRL 240-82770/26		240-82770		04/20/2013 05:40	1	TAL CAN	DB

Lab References:

TAL CAN = TestAmerica Canton

TAL PIT = TestAmerica Pittsburgh

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
EXBNALCS1_00035	12/13/13	03/27/13	MEOH, Lot 123279	200 mL	EXBNALCS_00010	40 mL	1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,2-Dinitrobenzene	20 ug/mL
							1,2-Diphenylhydrazine	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL
							1,3-Dinitrobenzene	20 ug/mL
							1,4-Dichlorobenzene	20 ug/mL
							1,4-Dinitrobenzene	20 ug/mL
							1-Methylnaphthalene	20 ug/mL
							2,3,4,6-Tetrachlorophenol	20 ug/mL
							2,3,5,6-Tetrachlorophenol	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Trichlorophenol	20 ug/mL
							2,4-Dichlorophenol	20 ug/mL
							2,4-Dimethylphenol	20 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL
							2-Chloronaphthalene	20 ug/mL
							2-Chlorophenol	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							2-Methylphenol	20 ug/mL
							2-Nitroaniline	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL
							4-Chloro-3-methylphenol	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Nitroaniline	20 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Aniline	20.02 ug/mL
							Anthracene	20 ug/mL
							Azobenzene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzoic acid	20 ug/mL
							Benzyl alcohol	20 ug/mL
							bis (2-chloroisopropyl) ether	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethoxy)methane	20 ug/mL
							Bis(2-chloroethyl)ether	20 ug/mL
							Bis(2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di(2-ethylhexyl)adipate	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20.02 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							Naphthalene	20 ug/mL
							Nitrobenzene	20 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	20 ug/mL
							Phenol	20 ug/mL
							Pyrene	20 ug/mL
							Pyridine	20 ug/mL
.EXBNALCS_00010	12/13/13		SUPELCO, Lot LB96645		(Purchased Reagent)		1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dinitrobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dinitrobenzene	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,3,5,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	100 ug/mL
							2,4-Dinitrotoluene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3,3'-Dichlorobenzidine	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	100 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Aniline	100.1 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzoic acid	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di(2-ethylhexyl)adipate	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100.1 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	100 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
EXBNASURRW_00024	11/12/15	03/07/13	MEOH, Lot 124454	2000 mL	EXBNASURR_00009	400 mL	2,4,6-Tribromophenol (Surr)	30 ug/mL
							2-Fluorobiphenyl (Surr)	20 ug/mL
							2-Fluorophenol (Surr)	30 ug/mL
							Nitrobenzene-d5 (Surr)	20 ug/mL
							Phenol-d5 (Surr)	30 ug/mL
							Terphenyl-d14 (Surr)	20 ug/mL
.EXBNASURR_00009	11/15/15		SUPELCO, Lot lb96723		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	150 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	150 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	150 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
EXDIESELSPKW_00027	09/11/13	04/03/13	ACETONE, Lot 0000010624	50 mL	EXDIESELSPK_00005	2.5 mL	Diesel	2500 ug/mL
.EXDIESELSPK_00005	02/28/15		ULTRA, Lot CH-0185		(Purchased Reagent)		Diesel	50000 ug/mL
EXRESTEKSPKW_00019	06/13/13	01/29/13	MEOH, Lot 123279	200 mL	EXBNARESSPK_00007	40 mL	1,1'-Biphenyl	20 ug/mL
							1,4-Dioxane	20 ug/mL
							2-Picoline	20 ug/mL
							Acetophenone	20 ug/mL
							Atrazine	20 ug/mL
							Benzaldehyde	20 ug/mL
							Caprolactam	20 ug/mL
							Chloroacetophenone	20 ug/mL
							Chlorobenzilate	20 ug/mL
							Ethyl methanesulfonate	20 ug/mL
							Phenacetin	20 ug/mL
							Phorate	20 ug/mL
							Pronamide	20 ug/mL
							Quinoline	20 ug/mL
							Safrole, Total	20 ug/mL
.EXBNARESSPK_00007	06/13/13		Restek, Lot A089172		(Purchased Reagent)		1,1'-Biphenyl	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2-Picoline	100 ug/mL
							Acetophenone	100 ug/mL
							Atrazine	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzaldehyde	100 ug/mL
							Caprolactam	100 ug/mL
							Chloroacetophenone	100 ug/mL
							Chlorobenzilate	100 ug/mL
							Ethyl methanesulfonate	100 ug/mL
							Phenacetin	100 ug/mL
							Phorate	100 ug/mL
							Pronamide	100 ug/mL
							Quinoline	100 ug/mL
							Safrole, Total	100 ug/mL
EXTPHSURR_00019	01/18/14	01/15/13	MECL2, Lot 0000027455	1000 mL	EXTPHSTOCK_00007	5 mL	n-Nonane	500 ug/mL
.EXTPHSTOCK_00007	01/18/14	01/18/13	MECL2, Lot 0000027455	20 mL	EXNONANE_00002	2 g	n-Nonane	100000 ug/g
..EXNONANE_00002	06/04/14		Sigma-Aldrich, Lot STBC5938V		(Purchased Reagent)		n-Nonane	1000000 ug/g
MTAQUAREGIA_00494	04/17/13	04/17/13	NA, Lot NA	360 mL	MTTMHCL_00002	270 mL	Hydrogen Chloride	0.75 mL/mL
					MTTMHNO3_00002	90 mL	Nitric acid	0.25 mL/mL
.MTTMHCL_00002	02/06/15		Fisher, Lot 4112100		(Purchased Reagent)		Hydrogen Chloride	100 %
.MTTMHNO3_00002	11/28/14		Fisher, Lot 1112110		(Purchased Reagent)		Nitric acid	100 %
MTAQUAREGIA_00496	04/19/13	04/19/13	NA, Lot NA	280 mL	MTTMHCL_00002	210 mL	Hydrogen Chloride	0.75 mL/mL
					MTTMHNO3_00002	70 mL	Nitric acid	0.25 mL/mL
.MTTMHCL_00002	02/06/15		Fisher, Lot 4112100		(Purchased Reagent)		Hydrogen Chloride	100 %
.MTTMHNO3_00002	11/28/14		Fisher, Lot 1112110		(Purchased Reagent)		Nitric acid	100 %
MTHGCALW_00356	04/17/13	04/17/13	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00008	1 mL	Mercury	100 ug/L
					MTTMHNO3_00002	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00008	03/14/14		High Purity, Lot 1306402		(Purchased Reagent)		Mercury	10 ug/mL
.MTTMHNO3_00002	11/28/14		Fisher, Lot 1112110		(Purchased Reagent)		Nitric acid	100 %
MTHGCALW_00358	04/19/13	04/19/13	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00008	1 mL	Mercury	100 ug/L
					MTTMHNO3_00002	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00008	03/14/14		High Purity, Lot 1306402		(Purchased Reagent)		Mercury	10 ug/mL
.MTTMHNO3_00002	11/28/14		Fisher, Lot 1112110		(Purchased Reagent)		Nitric acid	100 %
MTHgStd_00009	03/08/14		Plasma Pure, Lot 1277101		(Purchased Reagent)		Mercury	1 ug/mL
MTKMN04W_00042	04/05/15	04/05/13	DIWATER, Lot DIWATER	2 L	MTKMN04_00013	100 g	Potassium Permanganate	0.05 g/g
.MTKMN04_00013	10/05/17		Fisher, Lot 121666		(Purchased Reagent)		Potassium Permanganate	1 g/g
MTKMN04W_00043	04/17/15	04/17/13	DIWATER, Lot DIWATER	2 L	MTKMN04_00013	100 g	Potassium Permanganate	0.05 g/g
.MTKMN04_00013	10/05/17		Fisher, Lot 121666		(Purchased Reagent)		Potassium Permanganate	1 g/g
SGDROCAL_00004	08/14/13	02/14/13	MECL2, Lot 0000027455	100 mL	SGDROCALSTK_00004	1 g	Diesel	10000 ug/mL
					SGDROSURR_00002	1 mL	n-Nonane	1000 ug/mL
.SGDROCALSTK_00004	02/05/14		SCFN, Lot 020513		(Purchased Reagent)		Diesel	1000000 ug/mL
.SGDROSURR_00002	08/14/13	02/14/13	MECL2, Lot 0000027455	10 mL	SGDROSURRSTK_00001	1 g	n-Nonane	100000 ug/mL
..SGDROSURRSTK_00001	08/20/13		sigma aldrich, Lot TBC5938V		(Purchased Reagent)		n-Nonane	1000000 ug/mL
SGDROICV_00001	04/12/13	10/12/12	MECL2, Lot 0000010059	100 mL	SGDROICVSTK_00001	1 g	Diesel	10000 ug/mL
.SGDROICVSTK_00001	10/05/13		Sheetz Station, Lot Sheetz		(Purchased Reagent)		Diesel	1000000 g
SMLIST1 L1 W_00002	03/22/14	03/25/13	MECL2, Lot 0000028522	2 mL	SMIS80PPMW_00008	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00002	2 uL	1,1'-Biphenyl	0.1 ug/mL
							1,2,4-Trichlorobenzene	0.1 ug/mL
							1,2-Dichlorobenzene	0.1 ug/mL
							1,3-Dichlorobenzene	0.1 ug/mL
							1,4-Dichlorobenzene	0.1 ug/mL
							1-Methylnaphthalene	0.1 ug/mL
							2,4,5-Trichlorophenol	0.1 ug/mL
							2,4,6-Trichlorophenol	0.1 ug/mL
							2,4-Dichlorophenol	0.1 ug/mL
							2,4-Dimethylphenol	0.1 ug/mL
							2,4-Dinitrophenol	0.2 ug/mL
							2,4-Dinitrotoluene	0.1 ug/mL
							2,6-Dinitrotoluene	0.1 ug/mL
							2-Chloronaphthalene	0.1 ug/mL
							2-Chlorophenol	0.1 ug/mL
							2-Methylnaphthalene	0.1 ug/mL
							2-Methylphenol	0.1 ug/mL
							2-Nitroaniline	0.1 ug/mL
							2-Nitrophenol	0.1 ug/mL
							3 & 4 Methylphenol	0.1 ug/mL
							3-Nitroaniline	0.1 ug/mL
							4,6-Dinitro-2-methylphenol	0.2 ug/mL
							4-Bromophenyl phenyl ether	0.1 ug/mL
							4-Chloro-3-methylphenol	0.1 ug/mL
							4-Chloroaniline	0.1 ug/mL
							4-Chlorophenyl phenyl ether	0.1 ug/mL
							4-Nitroaniline	0.1 ug/mL
							4-Nitrophenol	0.2 ug/mL
							Acenaphthene	0.1 ug/mL
							Acenaphthylene	0.1 ug/mL
							Anthracene	0.1 ug/mL
							Benzo[a]anthracene	0.1 ug/mL
							Benzo[a]pyrene	0.1 ug/mL
							Benzo[b]fluoranthene	0.1 ug/mL
							Benzo[g,h,i]perylene	0.1 ug/mL
							Benzo[k]fluoranthene	0.1 ug/mL
							Benzyl alcohol	0.1 ug/mL
							bis (2-chloroisopropyl) ether	0.1 ug/mL
							Bis(2-chloroethoxy)methane	0.1 ug/mL
							Bis(2-chloroethyl)ether	0.1 ug/mL
							Bis(2-ethylhexyl) phthalate	0.1 ug/mL
							Butyl benzyl phthalate	0.1 ug/mL
							Carbazole	0.1 ug/mL
							Chrysene	0.1 ug/mL
							Di-n-butyl phthalate	0.1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	0.1 ug/mL
							Dibenz(a,h)anthracene	0.1 ug/mL
							Dibenzofuran	0.1 ug/mL
							Diethyl phthalate	0.1 ug/mL
							Dimethyl phthalate	0.1 ug/mL
							Fluoranthene	0.1 ug/mL
							Fluorene	0.1 ug/mL
							Hexachlorobenzene	0.1 ug/mL
							Hexachlorobutadiene	0.1 ug/mL
							Hexachlorocyclopentadiene	0.1 ug/mL
							Hexachloroethane	0.1 ug/mL
							Indeno[1,2,3-cd]pyrene	0.1 ug/mL
							Isophorone	0.1 ug/mL
							N-Nitrosodi-n-propylamine	0.1 ug/mL
							Naphthalene	0.1 ug/mL
							Nitrobenzene	0.1 ug/mL
							Pentachlorophenol	0.2 ug/mL
							Phenanthrene	0.1 ug/mL
							Phenol	0.1 ug/mL
							Pyrene	0.1 ug/mL
							3,3'-Dichlorobenzidine	0.2 ug/mL
							Benzoic acid	0.2 ug/mL
							N-Nitrosodiphenylamine	0.2 ug/mL
							Benzaldehyde	0.2 ug/mL
							2,4,6-Tribromophenol (Surr)	0.1 ug/mL
							2-Fluorobiphenyl (Surr)	0.1 ug/mL
							2-Fluorophenol (Surr)	0.1 ug/mL
							Nitrobenzene-d5 (Surr)	0.1 ug/mL
							Phenol-d5 (Surr)	0.1 ug/mL
							Terphenyl-d14 (Surr)	0.1 ug/mL
.SMIS80PPMW_00008	03/22/14	03/22/13	MECL2, Lot 0000028522	50 mL	SMIS R_00002	2 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00002	03/22/14	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00002	03/22/14	03/22/13	MECL2, Lot 0000028522	3 mL	SMLIST1 S1_00002	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1-Methylnaphthalene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
					SMLIST1 S2_00002	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
					SMLIST1 S3_00002	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 S5_00002	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S6_00002	300 uL	Benzaldehyde	200 ug/mL
					SMLIST1 SURR_00002	60 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00002	03/22/14		Restek, Lot A093709		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
..SMLIST1 S2_00002	03/22/14		Restek, Lot A093755		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
..SMLIST1 S3_00002	03/22/14		Restek, Lot A093441		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 S5_00002	03/22/14		Restek, Lot A093442		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S6_00002	03/22/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
..SMLIST1 SURR_00002	03/22/14		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SMLIST1 L2 W_00002	03/22/14	03/25/13	MECL2, Lot 0000028522	2 mL	SMIS80PPMW_00008	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00002	10 uL	1,1'-Biphenyl	0.5 ug/mL
							1,2,4,5-Tetrachlorobenzene	0.5 ug/mL
							1,2,4-Trichlorobenzene	0.5 ug/mL
							1,2-Dichlorobenzene	0.5 ug/mL
							1,2-Diphenylhydrazine	0.5 ug/mL
							1,3-Dichlorobenzene	0.5 ug/mL
							1,3-Dinitrobenzene	0.5 ug/mL
							1,4-Dichlorobenzene	0.5 ug/mL
							1,4-Dioxane	0.5 ug/mL
							1-Methylnaphthalene	0.5 ug/mL
							2,3,4,6-Tetrachlorophenol	0.5 ug/mL
							2,4,5-Trichlorophenol	0.5 ug/mL
							2,4,6-Trichlorophenol	0.5 ug/mL
							2,4-Dichlorophenol	0.5 ug/mL
							2,4-Dimethylphenol	0.5 ug/mL
							2,4-Dinitrophenol	1 ug/mL
							2,4-Dinitrotoluene	0.5 ug/mL
							2,6-Dinitrotoluene	0.5 ug/mL
							2-Chloronaphthalene	0.5 ug/mL
							2-Chlorophenol	0.5 ug/mL
							2-Methylnaphthalene	0.5 ug/mL
							2-Methylphenol	0.5 ug/mL
							2-Nitroaniline	0.5 ug/mL
							2-Nitrophenol	0.5 ug/mL
							3 & 4 Methylphenol	0.5 ug/mL
							3-Nitroaniline	0.5 ug/mL
							4,6-Dinitro-2-methylphenol	1 ug/mL
							4-Bromophenyl phenyl ether	0.5 ug/mL
							4-Chloro-3-methylphenol	0.5 ug/mL
							4-Chloroaniline	0.5 ug/mL
							4-Chlorophenyl phenyl ether	0.5 ug/mL
							4-Nitroaniline	0.5 ug/mL
							4-Nitrophenol	1 ug/mL
							Acenaphthene	0.5 ug/mL
							Acenaphthylene	0.5 ug/mL
							Acetophenone	0.5 ug/mL
							Aniline	0.5 ug/mL
							Anthracene	0.5 ug/mL
							Azobenzene	0.5 ug/mL
							Benzo[a]anthracene	0.5 ug/mL
							Benzo[a]pyrene	0.5 ug/mL
							Benzo[b]fluoranthene	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[g,h,i]perylene	0.5 ug/mL
							Benzo[k]fluoranthene	0.5 ug/mL
							Benzyl alcohol	0.5 ug/mL
							bis (2-chloroisopropyl) ether	0.5 ug/mL
							Bis(2-chloroethoxy)methane	0.5 ug/mL
							Bis(2-chloroethyl)ether	0.5 ug/mL
							Bis(2-ethylhexyl) phthalate	0.5 ug/mL
							Butyl benzyl phthalate	0.5 ug/mL
							Carbazole	0.5 ug/mL
							Chrysene	0.5 ug/mL
							Di-n-butyl phthalate	0.5 ug/mL
							Di-n-octyl phthalate	0.5 ug/mL
							Dibenz(a,h)anthracene	0.5 ug/mL
							Dibenzofuran	0.5 ug/mL
							Diethyl phthalate	0.5 ug/mL
							Dimethyl phthalate	0.5 ug/mL
							Fluoranthene	0.5 ug/mL
							Fluorene	0.5 ug/mL
							Hexachlorobenzene	0.5 ug/mL
							Hexachlorobutadiene	0.5 ug/mL
							Hexachlorocyclopentadiene	0.5 ug/mL
							Hexachloroethane	0.5 ug/mL
							Indeno[1,2,3-cd]pyrene	0.5 ug/mL
							Isophorone	0.5 ug/mL
							N-Nitrosodi-n-propylamine	0.5 ug/mL
							N-Nitrosodimethylamine	0.5 ug/mL
							Naphthalene	0.5 ug/mL
							Nitrobenzene	0.5 ug/mL
							Pentachlorophenol	1 ug/mL
							Phenanthrene	0.5 ug/mL
							Phenol	0.5 ug/mL
							Pyrene	0.5 ug/mL
							Pyridine	0.5 ug/mL
							3,3'-Dichlorobenzidine	1 ug/mL
							Atrazine	1 ug/mL
							Benzidine	1 ug/mL
							Caprolactam	1 ug/mL
							Benzoic acid	1 ug/mL
							Indene	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							Benzaldehyde	1 ug/mL
							2,4,6-Tribromophenol (Surr)	0.5 ug/mL
							2-Fluorobiphenyl (Surr)	0.5 ug/mL
							2-Fluorophenol (Surr)	0.5 ug/mL
							Nitrobenzene-d5 (Surr)	0.5 ug/mL
							Phenol-d5 (Surr)	0.5 ug/mL
							Terphenyl-d14 (Surr)	0.5 ug/mL
.SMIS80PPMW_00008	03/22/14	03/22/13	MECL2, Lot 0000028522	50 mL	SMIS R_00002	2 mL	1,4-Dichlorobenzene-d4	80 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00002	03/22/14		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00002	03/22/14	03/22/13	MECL2, Lot 0000028522	3 mL	SMLIST1 S1_00002	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00002	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Atrazine	200 ug/mL
							Benzidine	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S3_00002	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 S4_00002	300 uL	Indene	200 ug/mL
					SMLIST1 S5_00002	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S6_00002	300 uL	Benzaldehyde	200 ug/mL
					SMLIST1 SURR_00002	60 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00002	03/22/14		Restek, Lot A093709		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00002	03/22/14		Restek, Lot A093755		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S3_00002	03/22/14		Restek, Lot A093441		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 S4_00002	03/22/14		Restek, Lot A093730		(Purchased Reagent)		Indene	2000 ug/mL
..SMLIST1 S5_00002	03/22/14		Restek, Lot A093442		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S6_00002	03/22/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
..SMLIST1 SURR_00002	03/22/14		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L3 W_00002	03/22/14	03/25/13	MECL2, Lot 0000028522	2 mL	SMIS80PPMW_00008	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00002	20 uL	1,1'-Biphenyl	1 ug/mL
							1,2,4,5-Tetrachlorobenzene	1 ug/mL
							1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,2-Diphenylhydrazine	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,3-Dinitrobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1,4-Dioxane	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,3,4,6-Tetrachlorophenol	1 ug/mL
							2,4,5-Trichlorophenol	1 ug/mL
							2,4,6-Trichlorophenol	1 ug/mL
							2,4-Dichlorophenol	1 ug/mL
							2,4-Dimethylphenol	1 ug/mL
							2,4-Dinitrophenol	2 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Chlorophenol	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							2-Nitroaniline	1 ug/mL
							2-Nitrophenol	1 ug/mL
							3 & 4 Methylphenol	1 ug/mL
							3-Nitroaniline	1 ug/mL
							4,6-Dinitro-2-methylphenol	2 ug/mL
							4-Bromophenyl phenyl ether	1 ug/mL
							4-Chloro-3-methylphenol	1 ug/mL
							4-Chloroaniline	1 ug/mL
							4-Chlorophenyl phenyl ether	1 ug/mL
							4-Nitroaniline	1 ug/mL
							4-Nitrophenol	2 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Aniline	1 ug/mL
							Anthracene	1 ug/mL
							Azobenzene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl alcohol	1 ug/mL
							bis (2-chloroisopropyl) ether	1 ug/mL
							Bis(2-chloroethoxy)methane	1 ug/mL
							Bis(2-chloroethyl)ether	1 ug/mL
							Bis(2-ethylhexyl) phthalate	1 ug/mL
							Butyl benzyl phthalate	1 ug/mL
							Carbazole	1 ug/mL
							Chrysene	1 ug/mL
							Di-n-butyl phthalate	1 ug/mL
							Di-n-octyl phthalate	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Hexachlorobutadiene	1 ug/mL
							Hexachlorocyclopentadiene	1 ug/mL
							Hexachloroethane	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							Isophorone	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodimethylamine	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Pentachlorophenol	2 ug/mL
							Phenanthrene	1 ug/mL
							Phenol	1 ug/mL
							Pyrene	1 ug/mL
							Pyridine	1 ug/mL
							3,3'-Dichlorobenzidine	2 ug/mL
							Atrazine	2 ug/mL
							Benzidine	2 ug/mL
							Caprolactam	2 ug/mL
							Benzoic acid	2 ug/mL
							Indene	2 ug/mL
							N-Nitrosodiphenylamine	2 ug/mL
							Benzaldehyde	2 ug/mL
							2,4,6-Tribromophenol (Surr)	1 ug/mL
							2-Fluorobiphenyl (Surr)	1 ug/mL
							2-Fluorophenol (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Phenol-d5 (Surr)	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL
.SMIS80PPMW_00008	03/22/14	03/22/13	MECL2, Lot 0000028522	50 mL	SMIS R_00002	2 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00002	03/22/14		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00002	03/22/14	03/22/13	MECL2, Lot 0000028522	3 mL	SMLIST1 S1_00002	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00002	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Atrazine	200 ug/mL
							Benzidine	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S3_00002	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 S4_00002	300 uL	Indene	200 ug/mL
					SMLIST1 S5_00002	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S6_00002	300 uL	Benzaldehyde	200 ug/mL
					SMLIST1 SURR_00002	60 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00002	03/22/14		Restek, Lot A093709		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00002	03/22/14		Restek, Lot A093755		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S3_00002	03/22/14		Restek, Lot A093441		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 S4_00002	03/22/14		Restek, Lot A093730		(Purchased Reagent)		Indene	2000 ug/mL
..SMLIST1 S5_00002	03/22/14		Restek, Lot A093442		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S6_00002	03/22/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
..SMLIST1 SURR_00002	03/22/14		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L4 W_00002	03/22/14	03/25/13	MECL2, Lot 0000028522	2 mL	SMIS80PPMW_00008	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00002	40 uL	1,1'-Biphenyl	2 ug/mL
							1,2,4,5-Tetrachlorobenzene	2 ug/mL
							1,2,4-Trichlorobenzene	2 ug/mL
							1,2-Dichlorobenzene	2 ug/mL
							1,2-Diphenylhydrazine	2 ug/mL
							1,3-Dichlorobenzene	2 ug/mL
							1,3-Dinitrobenzene	2 ug/mL
							1,4-Dichlorobenzene	2 ug/mL
							1,4-Dioxane	2 ug/mL
							1-Methylnaphthalene	2 ug/mL
							2,3,4,6-Tetrachlorophenol	2 ug/mL
							2,4,5-Trichlorophenol	2 ug/mL
							2,4,6-Trichlorophenol	2 ug/mL
							2,4-Dichlorophenol	2 ug/mL
							2,4-Dimethylphenol	2 ug/mL
							2,4-Dinitrophenol	4 ug/mL
							2,4-Dinitrotoluene	2 ug/mL
							2,6-Dinitrotoluene	2 ug/mL
							2-Chloronaphthalene	2 ug/mL
							2-Chlorophenol	2 ug/mL
							2-Methylnaphthalene	2 ug/mL
							2-Methylphenol	2 ug/mL
							2-Nitroaniline	2 ug/mL
							2-Nitrophenol	2 ug/mL
							3 & 4 Methylphenol	2 ug/mL
							3-Nitroaniline	2 ug/mL
							4,6-Dinitro-2-methylphenol	4 ug/mL
							4-Bromophenyl phenyl ether	2 ug/mL
							4-Chloro-3-methylphenol	2 ug/mL
							4-Chloroaniline	2 ug/mL
							4-Chlorophenyl phenyl ether	2 ug/mL
							4-Nitroaniline	2 ug/mL
							4-Nitrophenol	4 ug/mL
							Acenaphthene	2 ug/mL
							Acenaphthylene	2 ug/mL
							Acetophenone	2 ug/mL
							Aniline	2 ug/mL
							Anthracene	2 ug/mL
							Azobenzene	2 ug/mL
							Benzo[a]anthracene	2 ug/mL
							Benzo[a]pyrene	2 ug/mL
							Benzo[b]fluoranthene	2 ug/mL
							Benzo[g,h,i]perylene	2 ug/mL
							Benzo[k]fluoranthene	2 ug/mL
							Benzyl alcohol	2 ug/mL
							bis (2-chloroisopropyl) ether	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethoxy)methane	2 ug/mL
							Bis(2-chloroethyl)ether	2 ug/mL
							Bis(2-ethylhexyl) phthalate	2 ug/mL
							Butyl benzyl phthalate	2 ug/mL
							Carbazole	2 ug/mL
							Chrysene	2 ug/mL
							Di-n-butyl phthalate	2 ug/mL
							Di-n-octyl phthalate	2 ug/mL
							Dibenz(a,h)anthracene	2 ug/mL
							Dibenzofuran	2 ug/mL
							Diethyl phthalate	2 ug/mL
							Dimethyl phthalate	2 ug/mL
							Fluoranthene	2 ug/mL
							Fluorene	2 ug/mL
							Hexachlorobenzene	2 ug/mL
							Hexachlorobutadiene	2 ug/mL
							Hexachlorocyclopentadiene	2 ug/mL
							Hexachloroethane	2 ug/mL
							Indeno[1,2,3-cd]pyrene	2 ug/mL
							Isophorone	2 ug/mL
							N-Nitrosodi-n-propylamine	2 ug/mL
							N-Nitrosodimethylamine	2 ug/mL
							Naphthalene	2 ug/mL
							Nitrobenzene	2 ug/mL
							Pentachlorophenol	4 ug/mL
							Phenanthrene	2 ug/mL
							Phenol	2 ug/mL
							Pyrene	2 ug/mL
							Pyridine	2 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Atrazine	4 ug/mL
							Benzidine	4 ug/mL
							Caprolactam	4 ug/mL
							Benzoic acid	4 ug/mL
							Indene	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							Benzaldehyde	4 ug/mL
							2,4,6-Tribromophenol (Surr)	2 ug/mL
							2-Fluorobiphenyl (Surr)	2 ug/mL
							2-Fluorophenol (Surr)	2 ug/mL
							Nitrobenzene-d5 (Surr)	2 ug/mL
							Phenol-d5 (Surr)	2 ug/mL
							Terphenyl-d14 (Surr)	2 ug/mL
.SMIS80PPMW_00008	03/22/14	03/22/13	MECL2, Lot 0000028522	50 mL	SMIS R_00002	2 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene-d10	80 ug/mL
..SMIS R_00002	03/22/14		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00002	03/22/14	03/22/13	MECL2, Lot 0000028522	3 mL	SMLIST1 S1_00002	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00002	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Atrazine	200 ug/mL
							Benzidine	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S3_00002	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 S4_00002	300 uL	Indene	200 ug/mL
					SMLIST1 S5_00002	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S6_00002	300 uL	Benzaldehyde	200 ug/mL
					SMLIST1 SURR_00002	60 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SMLIST1 S1_00002	03/22/14		Restek, Lot A093709		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00002	03/22/14		Restek, Lot A093755		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S3_00002	03/22/14		Restek, Lot A093441		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 S4_00002	03/22/14		Restek, Lot A093730		(Purchased Reagent)		Indene	2000 ug/mL
..SMLIST1 S5_00002	03/22/14		Restek, Lot A093442		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S6_00002	03/22/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
..SMLIST1 SURR_00002	03/22/14		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L5 W_00002	03/22/14	03/25/13	MECL2, Lot 0000028522	2 mL	SMIS80PPMW_00008	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SMLIST1 STOCK_00002	100 uL	1,1'-Biphenyl	5 ug/mL
							1,2,4,5-Tetrachlorobenzene	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Diphenylhydrazine	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dinitrobenzene	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	5 ug/mL
							1-Methylnaphthalene	5 ug/mL
							2,3,4,6-Tetrachlorophenol	5 ug/mL
							2,4,5-Trichlorophenol	5 ug/mL
							2,4,6-Trichlorophenol	5 ug/mL
							2,4-Dichlorophenol	5 ug/mL
							2,4-Dimethylphenol	5 ug/mL
							2,4-Dinitrophenol	10 ug/mL
							2,4-Dinitrotoluene	5 ug/mL
							2,6-Dinitrotoluene	5 ug/mL
							2-Chloronaphthalene	5 ug/mL
							2-Chlorophenol	5 ug/mL
							2-Methylnaphthalene	5 ug/mL
							2-Methylphenol	5 ug/mL
							2-Nitroaniline	5 ug/mL
							2-Nitrophenol	5 ug/mL
							3 & 4 Methylphenol	5 ug/mL
							3-Nitroaniline	5 ug/mL
							4,6-Dinitro-2-methylphenol	10 ug/mL
							4-Bromophenyl phenyl ether	5 ug/mL
							4-Chloro-3-methylphenol	5 ug/mL
							4-Chloroaniline	5 ug/mL
							4-Chlorophenyl phenyl ether	5 ug/mL
							4-Nitroaniline	5 ug/mL
							4-Nitrophenol	10 ug/mL
							Acenaphthene	5 ug/mL
							Acenaphthylene	5 ug/mL
							Acetophenone	5 ug/mL
							Aniline	5 ug/mL
							Anthracene	5 ug/mL
							Azobenzene	5 ug/mL
							Benzo[a]anthracene	5 ug/mL
							Benzo[a]pyrene	5 ug/mL
							Benzo[b]fluoranthene	5 ug/mL
							Benzo[g,h,i]perylene	5 ug/mL
							Benzo[k]fluoranthene	5 ug/mL
							Benzyl alcohol	5 ug/mL
							bis (2-chloroisopropyl) ether	5 ug/mL
							Bis(2-chloroethoxy)methane	5 ug/mL
							Bis(2-chloroethyl)ether	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-ethylhexyl) phthalate	5 ug/mL
							Butyl benzyl phthalate	5 ug/mL
							Carbazole	5 ug/mL
							Chrysene	5 ug/mL
							Di-n-butyl phthalate	5 ug/mL
							Di-n-octyl phthalate	5 ug/mL
							Dibenz(a,h)anthracene	5 ug/mL
							Dibenzofuran	5 ug/mL
							Diethyl phthalate	5 ug/mL
							Dimethyl phthalate	5 ug/mL
							Fluoranthene	5 ug/mL
							Fluorene	5 ug/mL
							Hexachlorobenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexachlorocyclopentadiene	5 ug/mL
							Hexachloroethane	5 ug/mL
							Indeno[1,2,3-cd]pyrene	5 ug/mL
							Isophorone	5 ug/mL
							N-Nitrosodi-n-propylamine	5 ug/mL
							N-Nitrosodimethylamine	5 ug/mL
							Naphthalene	5 ug/mL
							Nitrobenzene	5 ug/mL
							Pentachlorophenol	10 ug/mL
							Phenanthrene	5 ug/mL
							Phenol	5 ug/mL
							Pyrene	5 ug/mL
							Pyridine	5 ug/mL
							3,3'-Dichlorobenzidine	10 ug/mL
							Atrazine	10 ug/mL
							Benzidine	10 ug/mL
							Caprolactam	10 ug/mL
							Benzoic acid	10 ug/mL
							Indene	10 ug/mL
							N-Nitrosodiphenylamine	10 ug/mL
							Benzaldehyde	10 ug/mL
							2,4,6-Tribromophenol (Surr)	5 ug/mL
							2-Fluorobiphenyl (Surr)	5 ug/mL
							2-Fluorophenol (Surr)	5 ug/mL
							Nitrobenzene-d5 (Surr)	5 ug/mL
							Phenol-d5 (Surr)	5 ug/mL
							Terphenyl-d14 (Surr)	5 ug/mL
.SMIS80PPMW_00008	03/22/14	03/22/13	MECL2, Lot 0000028522	50 mL	SMIS R_00002	2 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00002	03/22/14	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00002	03/22/14	03/22/13	MECL2, Lot 0000028522	3 mL	SMLIST1 S1_00002	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00002	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Atrazine	200 ug/mL
							Benzidine	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S3_00002	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 S4_00002	300 uL	Indene	200 ug/mL
					SMLIST1 S5_00002	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S6_00002	300 uL	Benzaldehyde	200 ug/mL
					SMLIST1 SURR_00002	60 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00002	03/22/14		Restek, Lot A093709		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00002	03/22/14		Restek, Lot A093755		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S3_00002	03/22/14		Restek, Lot A093441		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 S4_00002	03/22/14		Restek, Lot A093730		(Purchased Reagent)		Indene	2000 ug/mL
..SMLIST1 S5_00002	03/22/14		Restek, Lot A093442		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S6_00002	03/22/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
..SMLIST1 SURR_00002	03/22/14		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L6 W_00002	03/22/14	03/25/13	MECL2, Lot 0000028522	2 mL	SMIS80PPMW_00008	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00002	200 uL	1,1'-Biphenyl	10 ug/mL
							1,2,4,5-Tetrachlorobenzene	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	10 ug/mL
							1,2-Dichlorobenzene	10 ug/mL
							1,2-Diphenylhydrazine	10 ug/mL
							1,3-Dichlorobenzene	10 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							1,4-Dichlorobenzene	10 ug/mL
							1,4-Dioxane	10 ug/mL
							1-Methylnaphthalene	10 ug/mL
							2,3,4,6-Tetrachlorophenol	10 ug/mL
							2,4,5-Trichlorophenol	10 ug/mL
							2,4,6-Trichlorophenol	10 ug/mL
							2,4-Dichlorophenol	10 ug/mL
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							2-Methylphenol	10 ug/mL
							2-Nitroaniline	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3 & 4 Methylphenol	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Acetophenone	10 ug/mL
							Aniline	10 ug/mL
							Anthracene	10 ug/mL
							Azobenzene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Benzyl alcohol	10 ug/mL
							bis (2-chloroisopropyl) ether	10 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodimethylamine	10 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							Pyridine	10 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL
							Atrazine	20 ug/mL
							Benzidine	20 ug/mL
							Caprolactam	20 ug/mL
							Benzoic acid	20 ug/mL
							Indene	20 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							Benzaldehyde	20 ug/mL
							2,4,6-Tribromophenol (Surr)	10 ug/mL
							2-Fluorobiphenyl (Surr)	10 ug/mL
							2-Fluorophenol (Surr)	10 ug/mL
							Nitrobenzene-d5 (Surr)	10 ug/mL
							Phenol-d5 (Surr)	10 ug/mL
							Terphenyl-d14 (Surr)	10 ug/mL
.SMIS80PPMW_00008	03/22/14	03/22/13	MECL2, Lot 0000028522	50 mL	SMIS R_00002	2 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00002	03/22/14	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00002	03/22/14	03/22/13	MECL2, Lot 0000028522	3 mL	SMLIST1 S1_00002	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00002	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Atrazine	200 ug/mL
							Benzidine	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S3_00002	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 S4_00002	300 uL	Indene	200 ug/mL
					SMLIST1 S5_00002	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S6_00002	300 uL	Benzaldehyde	200 ug/mL
					SMLIST1 SURR_00002	60 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00002	03/22/14		Restek, Lot A093709		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00002	03/22/14		Restek, Lot A093755		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S3_00002	03/22/14		Restek, Lot A093441		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 S4_00002	03/22/14		Restek, Lot A093730		(Purchased Reagent)		Indene	2000 ug/mL
..SMLIST1 S5_00002	03/22/14		Restek, Lot A093442		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S6_00002	03/22/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
..SMLIST1 SURR_00002	03/22/14		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L7 W_00002	03/22/14	03/25/13	MECL2, Lot 0000028522	2 mL	SMIS80PPMW_00008	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00002	300 uL	1,1'-Biphenyl	15 ug/mL
							1,2,4,5-Tetrachlorobenzene	15 ug/mL
							1,2,4-Trichlorobenzene	15 ug/mL
							1,2-Dichlorobenzene	15 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Diphenylhydrazine	15 ug/mL
							1,3-Dichlorobenzene	15 ug/mL
							1,3-Dinitrobenzene	15 ug/mL
							1,4-Dichlorobenzene	15 ug/mL
							1,4-Dioxane	15 ug/mL
							1-Methylnaphthalene	15 ug/mL
							2,3,4,6-Tetrachlorophenol	15 ug/mL
							2,4,5-Trichlorophenol	15 ug/mL
							2,4,6-Trichlorophenol	15 ug/mL
							2,4-Dichlorophenol	15 ug/mL
							2,4-Dimethylphenol	15 ug/mL
							2,4-Dinitrophenol	30 ug/mL
							2,4-Dinitrotoluene	15 ug/mL
							2,6-Dinitrotoluene	15 ug/mL
							2-Chloronaphthalene	15 ug/mL
							2-Chlorophenol	15 ug/mL
							2-Methylnaphthalene	15 ug/mL
							2-Methylphenol	15 ug/mL
							2-Nitroaniline	15 ug/mL
							2-Nitrophenol	15 ug/mL
							3 & 4 Methylphenol	15 ug/mL
							3-Nitroaniline	15 ug/mL
							4,6-Dinitro-2-methylphenol	30 ug/mL
							4-Bromophenyl phenyl ether	15 ug/mL
							4-Chloro-3-methylphenol	15 ug/mL
							4-Chloroaniline	15 ug/mL
							4-Chlorophenyl phenyl ether	15 ug/mL
							4-Nitroaniline	15 ug/mL
							4-Nitrophenol	30 ug/mL
							Acenaphthene	15 ug/mL
							Acenaphthylene	15 ug/mL
							Acetophenone	15 ug/mL
							Aniline	15 ug/mL
							Anthracene	15 ug/mL
							Azobenzene	15 ug/mL
							Benzo[a]anthracene	15 ug/mL
							Benzo[a]pyrene	15 ug/mL
							Benzo[b]fluoranthene	15 ug/mL
							Benzo[g,h,i]perylene	15 ug/mL
							Benzo[k]fluoranthene	15 ug/mL
							Benzyl alcohol	15 ug/mL
							bis (2-chloroisopropyl) ether	15 ug/mL
							Bis(2-chloroethoxy)methane	15 ug/mL
							Bis(2-chloroethyl)ether	15 ug/mL
							Bis(2-ethylhexyl) phthalate	15 ug/mL
							Butyl benzyl phthalate	15 ug/mL
							Carbazole	15 ug/mL
							Chrysene	15 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-butyl phthalate	15 ug/mL
							Di-n-octyl phthalate	15 ug/mL
							Dibenz(a,h)anthracene	15 ug/mL
							Dibenzofuran	15 ug/mL
							Diethyl phthalate	15 ug/mL
							Dimethyl phthalate	15 ug/mL
							Fluoranthene	15 ug/mL
							Fluorene	15 ug/mL
							Hexachlorobenzene	15 ug/mL
							Hexachlorobutadiene	15 ug/mL
							Hexachlorocyclopentadiene	15 ug/mL
							Hexachloroethane	15 ug/mL
							Indeno[1,2,3-cd]pyrene	15 ug/mL
							Isophorone	15 ug/mL
							N-Nitrosodi-n-propylamine	15 ug/mL
							N-Nitrosodimethylamine	15 ug/mL
							Naphthalene	15 ug/mL
							Nitrobenzene	15 ug/mL
							Pentachlorophenol	30 ug/mL
							Phenanthrene	15 ug/mL
							Phenol	15 ug/mL
							Pyrene	15 ug/mL
							Pyridine	15 ug/mL
							3,3'-Dichlorobenzidine	30 ug/mL
							Atrazine	30 ug/mL
							Benzidine	30 ug/mL
							Caprolactam	30 ug/mL
							Benzoic acid	30 ug/mL
							Indene	30 ug/mL
							N-Nitrosodiphenylamine	30 ug/mL
							Benzaldehyde	30 ug/mL
							2,4,6-Tribromophenol (Surr)	15 ug/mL
							2-Fluorobiphenyl (Surr)	15 ug/mL
							2-Fluorophenol (Surr)	15 ug/mL
							Nitrobenzene-d5 (Surr)	15 ug/mL
							Phenol-d5 (Surr)	15 ug/mL
							Terphenyl-d14 (Surr)	15 ug/mL
.SMIS80PPMW_00008	03/22/14	03/22/13	MECL2, Lot 0000028522	50 mL	SMIS R_00002	2 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00002	03/22/14	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00002	03/22/14	03/22/13	MECL2, Lot 0000028522	3 mL	SMLIST1 S1_00002	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00002	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Atrazine	200 ug/mL
							Benzidine	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S3_00002	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 S4_00002	300 uL	Indene	200 ug/mL
					SMLIST1 S5_00002	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S6_00002	300 uL	Benzaldehyde	200 ug/mL
					SMLIST1 SURR_00002	60 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00002	03/22/14		Restek, Lot A093709		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00002	03/22/14		Restek, Lot A093755		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S3_00002	03/22/14		Restek, Lot A093441		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 S4_00002	03/22/14		Restek, Lot A093730		(Purchased Reagent)		Indene	2000 ug/mL
..SMLIST1 S5_00002	03/22/14		Restek, Lot A093442		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S6_00002	03/22/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
..SMLIST1 SURR_00002	03/22/14		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L8 W_00002	03/22/14	03/25/13	MECL2, Lot 0000028522	2 mL	SMIS80PPMW_00008	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00002	400 uL	1,1'-Biphenyl	20 ug/mL
							1,2,4,5-Tetrachlorobenzene	20 ug/mL
							1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,2-Diphenylhydrazine	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dinitrobenzene	20 ug/mL
							1,4-Dichlorobenzene	20 ug/mL
							1,4-Dioxane	20 ug/mL
							1-Methylnaphthalene	20 ug/mL
							2,3,4,6-Tetrachlorophenol	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Trichlorophenol	20 ug/mL
							2,4-Dichlorophenol	20 ug/mL
							2,4-Dimethylphenol	20 ug/mL
							2,4-Dinitrophenol	40 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL
							2-Chloronaphthalene	20 ug/mL
							2-Chlorophenol	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							2-Methylphenol	20 ug/mL
							2-Nitroaniline	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3 & 4 Methylphenol	20 ug/mL
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	40 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL
							4-Chloro-3-methylphenol	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Nitroaniline	20 ug/mL
							4-Nitrophenol	40 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Acetophenone	20 ug/mL
							Aniline	20 ug/mL
							Anthracene	20 ug/mL
							Azobenzene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzyl alcohol	20 ug/mL
							bis (2-chloroisopropyl) ether	20 ug/mL
							Bis(2-chloroethoxy)methane	20 ug/mL
							Bis(2-chloroethyl)ether	20 ug/mL
							Bis(2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz(a,h)anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL
							Naphthalene	20 ug/mL
							Nitrobenzene	20 ug/mL
							Pentachlorophenol	40 ug/mL
							Phenanthrene	20 ug/mL
							Phenol	20 ug/mL
							Pyrene	20 ug/mL
							Pyridine	20 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Atrazine	40 ug/mL
							Benzidine	40 ug/mL
							Caprolactam	40 ug/mL
							Benzoic acid	40 ug/mL
							Indene	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							Benzaldehyde	40 ug/mL
							2,4,6-Tribromophenol (Surr)	20 ug/mL
							2-Fluorobiphenyl (Surr)	20 ug/mL
							2-Fluorophenol (Surr)	20 ug/mL
							Nitrobenzene-d5 (Surr)	20 ug/mL
							Phenol-d5 (Surr)	20 ug/mL
							Terphenyl-d14 (Surr)	20 ug/mL
.SMIS80PPMW_00008	03/22/14	03/22/13	MECL2, Lot 0000028522	50 mL	SMIS R_00002	2 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00002	03/22/14	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00002	03/22/14	03/22/13	MECL2, Lot 0000028522	3 mL	SMLIST1 S1_00002	300 uL	1,1'-Biphenyl	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00002	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Atrazine	200 ug/mL
							Benzidine	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S3_00002	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 S4_00002	300 uL	Indene	200 ug/mL
					SMLIST1 S5_00002	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S6_00002	300 uL	Benzaldehyde	200 ug/mL
					SMLIST1 SURR_00002	60 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00002	03/22/14		Restek, Lot A093709		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00002	03/22/14		Restek, Lot A093755		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S3_00002	03/22/14		Restek, Lot A093441		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 S4_00002	03/22/14		Restek, Lot A093730		(Purchased Reagent)		Indene	2000 ug/mL
..SMLIST1 S5_00002	03/22/14		Restek, Lot A093442		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S6_00002	03/22/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
..SMLIST1 SURR_00002	03/22/14		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L9 W_00002	03/22/14	03/25/13	MECL2, Lot 0000028522	2 mL	SMIS80PPMW_00008	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00002	500 uL	1,1'-Biphenyl	25 ug/mL
							1,2,4,5-Tetrachlorobenzene	25 ug/mL
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Diphenylhydrazine	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,3-Dinitrobenzene	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	25 ug/mL
							1-Methylnaphthalene	25 ug/mL
							2,3,4,6-Tetrachlorophenol	25 ug/mL
							2,4,5-Trichlorophenol	25 ug/mL
							2,4,6-Trichlorophenol	25 ug/mL
							2,4-Dichlorophenol	25 ug/mL
							2,4-Dimethylphenol	25 ug/mL
							2,4-Dinitrophenol	50 ug/mL
							2,4-Dinitrotoluene	25 ug/mL
							2,6-Dinitrotoluene	25 ug/mL
							2-Chloronaphthalene	25 ug/mL
							2-Chlorophenol	25 ug/mL
							2-Methylnaphthalene	25 ug/mL
							2-Methylphenol	25 ug/mL
							2-Nitroaniline	25 ug/mL
							2-Nitrophenol	25 ug/mL
							3 & 4 Methylphenol	25 ug/mL
							3-Nitroaniline	25 ug/mL
							4,6-Dinitro-2-methylphenol	50 ug/mL
							4-Bromophenyl phenyl ether	25 ug/mL
							4-Chloro-3-methylphenol	25 ug/mL
							4-Chloroaniline	25 ug/mL
							4-Chlorophenyl phenyl ether	25 ug/mL
							4-Nitroaniline	25 ug/mL
							4-Nitrophenol	50 ug/mL
							Acenaphthene	25 ug/mL
							Acenaphthylene	25 ug/mL
							Acetophenone	25 ug/mL
							Aniline	25 ug/mL
							Anthracene	25 ug/mL
							Azobenzene	25 ug/mL
							Benzo[a]anthracene	25 ug/mL
							Benzo[a]pyrene	25 ug/mL
							Benzo[b]fluoranthene	25 ug/mL
							Benzo[g,h,i]perylene	25 ug/mL
							Benzo[k]fluoranthene	25 ug/mL
							Benzyl alcohol	25 ug/mL
							bis (2-chloroisopropyl) ether	25 ug/mL
							Bis(2-chloroethoxy)methane	25 ug/mL
							Bis(2-chloroethyl)ether	25 ug/mL
							Bis(2-ethylhexyl) phthalate	25 ug/mL
							Butyl benzyl phthalate	25 ug/mL
							Carbazole	25 ug/mL
							Chrysene	25 ug/mL
							Di-n-butyl phthalate	25 ug/mL
							Di-n-octyl phthalate	25 ug/mL
							Dibenz(a,h)anthracene	25 ug/mL
							Dibenzofuran	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diethyl phthalate	25 ug/mL
							Dimethyl phthalate	25 ug/mL
							Fluoranthene	25 ug/mL
							Fluorene	25 ug/mL
							Hexachlorobenzene	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							Hexachlorocyclopentadiene	25 ug/mL
							Hexachloroethane	25 ug/mL
							Indeno[1,2,3-cd]pyrene	25 ug/mL
							Isophorone	25 ug/mL
							N-Nitrosodi-n-propylamine	25 ug/mL
							N-Nitrosodimethylamine	25 ug/mL
							Naphthalene	25 ug/mL
							Nitrobenzene	25 ug/mL
							Pentachlorophenol	50 ug/mL
							Phenanthrene	25 ug/mL
							Phenol	25 ug/mL
							Pyrene	25 ug/mL
							Pyridine	25 ug/mL
							3,3'-Dichlorobenzidine	50 ug/mL
							Atrazine	50 ug/mL
							Benzidine	50 ug/mL
							Caprolactam	50 ug/mL
							Benzoic acid	50 ug/mL
							Indene	50 ug/mL
							N-Nitrosodiphenylamine	50 ug/mL
							Benzaldehyde	50 ug/mL
							2,4,6-Tribromophenol (Surr)	25 ug/mL
							2-Fluorobiphenyl (Surr)	25 ug/mL
							2-Fluorophenol (Surr)	25 ug/mL
							Nitrobenzene-d5 (Surr)	25 ug/mL
							Phenol-d5 (Surr)	25 ug/mL
							Terphenyl-d14 (Surr)	25 ug/mL
.SMIS80PPMW_00008	03/22/14	03/22/13	MECL2, Lot 0000028522	50 mL	SMIS R_00002	2 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00002	03/22/14	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00002	03/22/14	03/22/13	MECL2, Lot 0000028522	3 mL	SMLIST1 S1_00002	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00002	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Atrazine	200 ug/mL
							Benzidine	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S3_00002	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 S4_00002	300 uL	Indene	200 ug/mL
					SMLIST1 S5_00002	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S6_00002	300 uL	Benzaldehyde	200 ug/mL
					SMLIST1 SURR_00002	60 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00002	03/22/14		Restek, Lot A093709		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00002	03/22/14		Restek, Lot A093755		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S3_00002	03/22/14		Restek, Lot A093441		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 S4_00002	03/22/14		Restek, Lot A093730		(Purchased Reagent)		Indene	2000 ug/mL
..SMLIST1 S5_00002	03/22/14		Restek, Lot A093442		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S6_00002	03/22/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
..SMLIST1 SURR_00002	03/22/14		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 SS W_00001	03/22/14	04/02/13	MECL2, Lot 0000028522	2 mL	SMLIST1 SS ST_00001	200 uL	1,2,4-Trichlorobenzene	10 ug/mL
							1,2-Dichlorobenzene	10 ug/mL
							1,3-Dichlorobenzene	10 ug/mL
							1,4-Dichlorobenzene	10 ug/mL
							2,4,5-Trichlorophenol	10 ug/mL
							2,4,6-Trichlorophenol	10 ug/mL
							2,4-Dichlorophenol	10 ug/mL
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							2-Methylphenol	10 ug/mL
							2-Nitroaniline	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitrophenol	10 ug/mL
							3 & 4 Methylphenol	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Anthracene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Benzyl alcohol	10 ug/mL
							bis (2-chloroisopropyl) ether	7.2 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzoic acid	20 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							2,4,6-Tribromophenol (Surr)	10 ug/mL
							2-Fluorobiphenyl (Surr)	10 ug/mL
							2-Fluorophenol (Surr)	10 ug/mL
							Nitrobenzene-d5 (Surr)	10 ug/mL
							Phenol-d5 (Surr)	10 ug/mL
							Terphenyl-d14 (Surr)	10 ug/mL
.SMLIST1 SS ST_00001	03/22/14	04/02/13	MECL2, Lot 0000028522	3 mL	SMLIST1 SS S1_00001	300 uL	1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	72 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
					SMLIST1 SS S2_00001	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
					SMLIST1 SS S3_00001	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 SS S5_00001	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1SS SUR_00001	60 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 SS S1_00001	04/01/14		Restek, Lot A094002		(Purchased Reagent)		1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	720 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
..SMLIST1 SS S2_00001	04/01/14		Restek, Lot A093775		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SMLIST1 SS S3_00001	04/01/14		Restek, Lot A093654		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 SS S5_00001	04/01/14		Restek, Lot A093671		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1SS SUR_00001	03/22/14		Restek, Lot A092712		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
VM50IS_00026	06/01/13	03/01/13	MEOH, Lot 124454	50 mL	VMSTM520_00016	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.VMSTM520_00016	12/31/14		Ultra Scientific, Lot CH-3660		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50ss_00101	04/08/13	04/01/13	MEOH, Lot na	2 mL	vm50ss_stk_00049	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00049	06/15/13	03/15/13	MEOH, Lot 124454	50 mL	VMstm530_00019	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VMstm530_00019	05/31/15		Ultra Scientific, Lot CJ-1280		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00049	06/15/13	03/15/13	MEOH, Lot 124454	50 mL	VMstm530_00019	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VMstm530_00019	05/31/15		Ultra Scientific, Lot CJ-1280		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMCGAS_00116	04/09/13	04/02/13	MEOH, Lot 124454	10 mL	VMDWM544_00012	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMDWM544_00012	06/30/15		ULTRA, Lot CJ-1658		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VMFASWS_00139	04/04/13	03/28/13	MEOH, Lot na	3 mL	VMFAS_00037	3 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2-Dibromoethane	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloroethene, Total	50 ug/mL
							1,2-Dichloropropane	25 ug/mL
							Benzene	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylene Chloride	25 ug/mL
							o-Xylene	25 ug/mL
							Styrene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
							Xylenes, Total	75 ug/mL
							Bromochloromethane	25 ug/mL
							2-Butanone (MEK)	50 ug/mL
							2-Hexanone	50 ug/mL
							4-Methyl-2-pentanone (MIBK)	50 ug/mL
							Acetone	50 ug/mL
.VMFAS_00037	04/20/13	03/20/13	MEOH, Lot 124454	100 mL	VM48799U_00011	1.25 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VM556005_00011	1 mL	1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	25 ug/mL
							1,2-Dibromoethane	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloroethene, Total	50 ug/mL
							1,2-Dichloropropane	25 ug/mL
							Benzene	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylene Chloride	25 ug/mL
							o-Xylene	25 ug/mL
							Styrene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
							Xylenes, Total	75 ug/mL
					VM563136_00007	1 mL	Bromochloromethane	25 ug/mL
					VM861149_00022	2.5 mL	2-Butanone (MEK)	50 ug/mL
							2-Hexanone	50 ug/mL
							4-Methyl-2-pentanone (MIBK)	50 ug/mL
							Acetone	50 ug/mL
..VM48799U_00011	06/30/13		Supelco, Lot LB91213		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
..VM556005_00011	05/31/13		Restek, Lot A085142		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloroethene, Total	5000 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							Benzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	7500 ug/mL
..VM563136_00007	11/30/16		Restek, Lot A085140		(Purchased Reagent)		Bromochloromethane	2500 ug/mL
..VM861149_00022	11/30/13		Supelco, Lot LB85301		(Purchased Reagent)		2-Butanone (MEK)	2000 ug/mL
							2-Hexanone	2000 ug/mL
							4-Methyl-2-pentanone (MIBK)	2000 ug/mL
							Acetone	2000 ug/mL
VMFASWS_00140	04/12/13	04/05/13	MEOH, Lot na	3 mL	VMFAS_00037	3 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2-Dibromoethane	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloroethene, Total	50 ug/mL
							1,2-Dichloropropane	25 ug/mL
							Benzene	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Ethylbenzene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl tert-butyl ether	25 ug/mL
							Methylene Chloride	25 ug/mL
							Styrene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
							Xylenes, Total	75 ug/mL
							Bromochloromethane	25 ug/mL
							2-Butanone (MEK)	50 ug/mL
							2-Hexanone	50 ug/mL
							4-Methyl-2-pentanone (MIBK)	50 ug/mL
							Acetone	50 ug/mL
.VMFAS_00037	04/20/13	03/20/13	MEOH, Lot 124454	100 mL	VM48799U_00011	1.25 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VM556005_00011	1 mL	1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2-Dibromoethane	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloroethene, Total	50 ug/mL
							1,2-Dichloropropane	25 ug/mL
							Benzene	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylene Chloride	25 ug/mL
							Styrene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
							Xylenes, Total	75 ug/mL
					VM563136_00007	1 mL	Bromochloromethane	25 ug/mL
					VM861149_00022	2.5 mL	2-Butanone (MEK)	50 ug/mL
							2-Hexanone	50 ug/mL
							4-Methyl-2-pentanone (MIBK)	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	50 ug/mL
..VM48799U_00011	06/30/13		Supelco, Lot LB91213		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
..VM556005_00011	05/31/13		Restek, Lot A085142		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloroethene, Total	5000 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							Benzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	7500 ug/mL
..VM563136_00007	11/30/16		Restek, Lot A085140		(Purchased Reagent)		Bromochloromethane	2500 ug/mL
..VM861149_00022	11/30/13		Supelco, Lot LB85301		(Purchased Reagent)		2-Butanone (MEK)	2000 ug/mL
							2-Hexanone	2000 ug/mL
							4-Methyl-2-pentanone (MIBK)	2000 ug/mL
							Acetone	2000 ug/mL
VMPRIMARY_00175	04/09/13	04/02/13	MEOH, Lot na	1 mL	VMCUS7814_00021	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloroethene, Total	100 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	2500 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	150 ug/mL
.VMCUS7814_00021	01/31/15		Ultra Scientific, Lot CJ-4366		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloroethene, Total	100 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	2500 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	150 ug/mL
VMSUPPW_00120	04/09/13	04/02/13	MEOH, Lot na	1 mL	VMSUPP_00019	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							Methyl acetate	50 ug/mL
							Vinyl acetate	50 ug/mL
							Acetonitrile	500 ug/mL
							Acrolein	500 ug/mL
							Acrylonitrile	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
.VMSUPP_00019	04/30/13	01/31/13	MEOH, Lot 124454	50 mL	VM30006_00004	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					VMCU5013_00009	1 mL	Methyl acetate	50 ug/mL
							Vinyl acetate	50 ug/mL
					VMCUS8634_00008	1 mL	Acetonitrile	500 ug/mL
							Acrolein	500 ug/mL
							Acrylonitrile	100 ug/mL
					VMEPA1016_00006	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
..VM30006_00004	11/30/13	Restek, Lot A076449			(Purchased Reagent)		2-Butanone (MEK)	5000 ug/mL
							2-Hexanone	5000 ug/mL
							4-Methyl-2-pentanone (MIBK)	5000 ug/mL
							Acetone	5000 ug/mL
..VMCU5013_00009	05/31/13	Ultra, Lot CK-0277			(Purchased Reagent)		Methyl acetate	2500 ug/mL
							Vinyl acetate	2500 ug/mL
..VMCUS8634_00008	05/31/13	Ultra, Lot CK-0228			(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Acrolein	25000 ug/mL
							Acrylonitrile	5000 ug/mL
..VMEPA1016_00006	06/30/14	Ultra, Lot CG-0850A			(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
CCVHL1_00002	05/01/13	04/10/13	2% Nitric Acid, Lot 12756	50 mL	MCGAL10-1_00004	2.5 mL	Aluminum	500 ppm
					MCGBA1-1_00003	0.75 mL	Barium	15 ppm
					MCGCR(3)1-1_00003	1 mL	Chromium	20 ppm
					MCGCU1-1_00003	1 mL	Copper	20 ppm
					MCGFE10-1_00003	2.5 mL	Iron	500 ppm
					MCGMN1-1_00003	1 mL	Manganese	20 ppm
					MCGNI1-1_00003	0.5 mL	Nickel	10 ppm
					MCGPB1-1_00003	1 mL	Lead	20 ppm
					MCGZN1-1_00003	1 mL	Zinc	20 ppm
.MCGAL10-1_00004	12/01/13	Inorganic Ventures, Lot E2-AL04115			(Purchased Reagent)		Aluminum	10000 ppm
.MCGBA1-1_00003	12/01/13	Inorganic Ventures, Lot D2-BA02066			(Purchased Reagent)		Barium	1000 ppm
.MCGCR(3)1-1_00003	12/01/13	Inorganic Ventures, Lot E2-CR03060			(Purchased Reagent)		Chromium	1000 ppm
.MCGCU1-1_00003	12/01/13	Inorganic Ventures, Lot D2-CU02130			(Purchased Reagent)		Copper	1000 ppm
.MCGFE10-1_00003	06/01/13	Inorganic Ventures, Lot E2-FE03145			(Purchased Reagent)		Iron	10000 ppm
.MCGMN1-1_00003	08/01/13	Inorganic Ventures, Lot E2-MN02093			(Purchased Reagent)		Manganese	1000 ppm
.MCGNI1-1_00003	12/01/13	Inorganic Ventures, Lot D2-NI02074			(Purchased Reagent)		Nickel	1000 ppm
.MCGPB1-1_00003	05/01/13	Inorganic Ventures, Lot F2-PB03035			(Purchased Reagent)		Lead	1000 ppm
.MCGZN1-1_00003	12/01/13	Inorganic Ventures, Lot D2-ZN02075			(Purchased Reagent)		Zinc	1000 ppm
CCVHL2_00002	05/01/13	04/10/13	2% Nitric Acid, Lot 12756	50 mL	MCGCA10-1_00003	5 mL	Calcium	1000 ppm
					MCGK10-1_00003	2.5 mL	Potassium	500 ppm
					MCGMG10-1_00004	5 mL	Magnesium	1000 ppm
					MCGNA10-1_00003	2.5 mL	Sodium	500 ppm
.MCGCA10-1_00003	06/01/13	Inorganic Ventures, Lot F2-CA04043			(Purchased Reagent)		Calcium	10000 ppm
.MCGK10-1_00003	05/01/13	Inorganic Ventures, Lot F2-K03029			(Purchased Reagent)		Potassium	10000 ppm
.MCGMG10-1_00004	12/01/13	Inorganic Ventures, Lot E2-MG03106			(Purchased Reagent)		Magnesium	10000 ppm
.MCGNA10-1_00003	08/01/13	Inorganic Ventures, Lot E2-NA03095			(Purchased Reagent)		Sodium	10000 ppm
MCCV1X_00041	05/22/13	04/22/13	2% Nitric Acid, Lot K35N55	500 mL	MCALSPECAREV_00004	10 mL	Aluminum	0.5 ppm
							Arsenic	0.1 ppm
							Barium	0.1 ppm
							Beryllium	0.1 ppm
							Cadmium	0.1 ppm
							Calcium	50 ppm
							Chromium	0.1 ppm
							Cobalt	0.1 ppm
							Copper	0.1 ppm
							Iron	25 ppm
							Lead	0.1 ppm
							Magnesium	50 ppm
							Manganese	0.5 ppm
							Nickel	0.1 ppm
							Potassium	50 ppm
							Selenium	0.1 ppm
							Silver	0.1 ppm
							Sodium	50 ppm

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Thallium	0.1 ppm
							Vanadium	0.1 ppm
							Zinc	0.1 ppm
					MCALSPECB_00005	10 mL	Antimony	0.1 ppm
.MCALSPECAREV_00004	04/01/14	Inorganic Ventures, Lot F2-MEB415031			(Purchased Reagent)		Aluminum	25 ppm
							Arsenic	5 ppm
							Barium	5 ppm
							Beryllium	5 ppm
							Cadmium	5 ppm
							Calcium	2500 ppm
							Chromium	5 ppm
							Cobalt	5 ppm
							Copper	5 ppm
							Iron	1250 ppm
							Lead	5 ppm
							Magnesium	2500 ppm
							Manganese	25 ppm
							Nickel	5 ppm
							Potassium	2500 ppm
							Selenium	5 ppm
							Silver	5 ppm
							Sodium	2500 ppm
							Thallium	5 ppm
							Vanadium	5 ppm
							Zinc	5 ppm
.MCALSPECB_00005	04/01/14	Inorganic Ventures, Lot F2-MEB415032			(Purchased Reagent)		Antimony	5 ppm
MCRIX_00032	05/26/13	04/26/13	HNO3, Lot K09N65	250 mL	MMSCRI-1B_00002	1 mL	Aluminum	0.03 ppm
							Arsenic	0.001 ppm
							Barium	0.01 ppm
							Beryllium	0.001 ppm
							Cadmium	0.001 ppm
							Calcium	0.1 ppm
							Chromium	0.002 ppm
							Cobalt	0.0005 ppm
							Copper	0.002 ppm
							Iron	0.05 ppm
							Lead	0.001 ppm
							Magnesium	0.1 ppm
							Manganese	0.005 ppm
							Nickel	0.001 ppm
							Potassium	0.1 ppm
							Selenium	0.005 ppm
							Silver	0.001 ppm
							Sodium	0.1 ppm
							Thallium	0.001 ppm
							Vanadium	0.001 ppm
							Zinc	0.005 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MMSCRI-2_00004	1 mL	Antimony	0.002 ppm
.MMSCRI-1B_00002	10/01/13	Inorganic Ventures, Lot F2-MEB439152			(Purchased Reagent)		Aluminum	7.5 ppm
							Arsenic	0.25 ppm
							Barium	2.5 ppm
							Beryllium	0.25 ppm
							Cadmium	0.25 ppm
							Calcium	25 ppm
							Chromium	0.5 ppm
							Cobalt	0.125 ppm
							Copper	0.5 ppm
							Iron	12.5 ppm
							Lead	0.25 ppm
							Magnesium	25 ppm
							Manganese	1.25 ppm
							Nickel	0.25 ppm
							Potassium	25 ppm
							Selenium	1.25 ppm
							Silver	0.25 ppm
							Sodium	25 ppm
							Thallium	0.25 ppm
							Vanadium	0.25 ppm
							Zinc	1.25 ppm
.MMSCRI-2_00004	10/01/13	Inorganic Ventures, Lot F2-MEB436153			(Purchased Reagent)		Antimony	0.5 ppm
MICSABX_00035	05/26/13	04/26/13	2% Nitric Acid, Lot J38N82	100 mL	M6020ICS-0A_00003	10 mL	Aluminum	100 ppm
							Calcium	100 ppm
							Iron	100 ppm
							Magnesium	100 ppm
							Mo	2 ppm
							Potassium	100 ppm
							Sodium	100 ppm
							Ti	2 ppm
					M6020ICS-0B_00004	1 mL	Arsenic	0.02 ppm
							Cadmium	0.02 ppm
							Chromium	0.02 ppm
							Cobalt	0.02 ppm
							Copper	0.02 ppm
							Manganese	0.0225 ppm
							Nickel	0.02 ppm
							Silver	0.02 ppm
							Zinc	0.025 ppm
					MMSICSAB-1_00006	0.2 mL	Barium	0.02 ppm
							Beryllium	0.02 ppm
							Lead	0.02 ppm
							Sr	0.025 ppm
							Thallium	0.02 ppm
							Vanadium	0.02 ppm
					MMSICSAB-2_00005	0.2 mL	Antimony	0.02 ppm

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							B	0.05 ppm
							Selenium	0.05 ppm
							Si	0.5 ppm
							Sn	0.1 ppm
.M6020ICS-0A_00003	11/01/13	Inorganic Ventures, Lot F2-MEB418129			(Purchased Reagent)		Aluminum	1000 ppm
							Calcium	1000 ppm
							Iron	1000 ppm
							Magnesium	1000 ppm
							Mo	20 ppm
							Potassium	1000 ppm
							Sodium	1000 ppm
							Ti	20 ppm
.M6020ICS-0B_00004	11/01/13	Inorganic Ventures, Lot F2-MEB415126			(Purchased Reagent)		Arsenic	2 ppm
							Cadmium	2 ppm
							Chromium	2 ppm
							Cobalt	2 ppm
							Copper	2 ppm
							Manganese	2.25 ppm
							Nickel	2 ppm
							Silver	2 ppm
							Zinc	2.5 ppm
.MMSICSAB-1_00006	04/01/14	Inorganic Ventures, Lot F2-MEB415033			(Purchased Reagent)		Barium	10 ppm
							Beryllium	10 ppm
							Lead	10 ppm
							Sr	12.5 ppm
							Thallium	10 ppm
							Vanadium	10 ppm
.MMSICSAB-2_00005	04/01/14	Inorganic Ventures, Lot G2-MEB467043			(Purchased Reagent)		Antimony	10 ppm
							B	25 ppm
							Selenium	25 ppm
							Si	250 ppm
							Sn	50 ppm
MICSAX_00031	05/26/13	04/26/13	DI Water, Lot J38N82	100 mL	M6020ICS-0A_00003	10 mL	Aluminum	100 ppm
							Calcium	100 ppm
							Iron	100 ppm
							Magnesium	100 ppm
							Mo	2 ppm
							Potassium	100 ppm
							Sodium	100 ppm
							Ti	2 ppm
.M6020ICS-0A_00003	11/01/13	Inorganic Ventures, Lot F2-MEB418129			(Purchased Reagent)		Aluminum	1000 ppm
							Calcium	1000 ppm
							Iron	1000 ppm
							Magnesium	1000 ppm
							Mo	20 ppm
							Potassium	1000 ppm
							Sodium	1000 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ti	20 ppm
MICVX_00005	05/26/13	04/26/13	2% Nitric Acid, Lot K09N65	250 mg/L	MICPMSICV_00013	10 mg/L	Aluminum	0.4 mg/L
							Antimony	0.08 mg/L
							Arsenic	0.08 mg/L
							Barium	0.08 mg/L
							Beryllium	0.08 mg/L
							Cadmium	0.08 mg/L
							Calcium	40 mg/L
							Chromium	0.08 mg/L
							Cobalt	0.08 mg/L
							Copper	0.08 mg/L
							Iron	20 mg/L
							Lead	0.08 mg/L
							Magnesium	40 mg/L
							Manganese	0.4 mg/L
							Nickel	0.08 mg/L
							Potassium	40 mg/L
							Selenium	0.08 mg/L
							Silver	0.08 mg/L
							Sodium	40 mg/L
							Thallium	0.08 mg/L
							Vanadium	0.08 mg/L
							Zinc	0.08 mg/L
.MICPMSICV_00013	12/30/13	SPEX CertiPrep, Lot 17-147CR			(Purchased Reagent)		Aluminum	10 ppm
							Antimony	2 ppm
							Arsenic	2 ppm
							Barium	2 ppm
							Beryllium	2 ppm
							Cadmium	2 ppm
							Calcium	1000 ppm
							Chromium	2 ppm
							Cobalt	2 ppm
							Copper	2 ppm
							Iron	500 ppm
							Lead	2 ppm
							Magnesium	1000 ppm
							Manganese	10 ppm
							Nickel	2 ppm
							Potassium	1000 ppm
							Selenium	2 ppm
							Silver	2 ppm
							Sodium	1000 ppm
							Thallium	2 ppm
							Vanadium	2 ppm
							Zinc	2 ppm
MSTD2X_00020	05/26/13	04/26/13	DI Water, Lot K35N55	250 mL	MCALSPECAREV_00004	10 mg/L	Aluminum	1 ppm

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Arsenic	0.2 ppm
							Barium	0.2 ppm
							Beryllium	0.2 ppm
							Cadmium	0.2 ppm
							Calcium	100 ppm
							Chromium	0.2 ppm
							Cobalt	0.2 ppm
							Copper	0.2 ppm
							Iron	50 ppm
							Lead	0.2 ppm
							Magnesium	100 ppm
							Manganese	1 ppm
							Nickel	0.2 ppm
							Potassium	100 ppm
							Selenium	0.2 ppm
							Silver	0.2 ppm
							Sodium	100 ppm
							Thallium	0.2 ppm
							Vanadium	0.2 ppm
							Zinc	0.2 ppm
.MCALSPECAREV_00004	04/01/14	Inorganic Ventures, Lot F2-MEB415031			(Purchased Reagent)		Aluminum	25 ppm
							Arsenic	5 ppm
							Barium	5 ppm
							Beryllium	5 ppm
							Cadmium	5 ppm
							Calcium	2500 ppm
							Chromium	5 ppm
							Cobalt	5 ppm
							Copper	5 ppm
							Iron	1250 ppm
							Lead	5 ppm
							Magnesium	2500 ppm
							Manganese	25 ppm
							Nickel	5 ppm
							Potassium	2500 ppm
							Selenium	5 ppm
							Silver	5 ppm
							Sodium	2500 ppm
							Thallium	5 ppm
							Vanadium	5 ppm
							Zinc	5 ppm
MSTD3X_00021	05/26/13	04/26/13	2% Nitric Acid, Lot K35N55	250 mL	MCALSPECB_00005	10 mg/L	Antimony	0.2 ppm
.MCALSPECB_00005	04/01/14	Inorganic Ventures, Lot F2-MEB415032			(Purchased Reagent)		Antimony	5 ppm
MTAPITTICPMS_00014	02/01/14	INORGANIC VENTURES, Lot E2-MEB379097			(Purchased Reagent)		Aluminum	200 ug/mL
							Arsenic	4 ug/mL
							B	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Barium	200 ug/mL
							Beryllium	5 ug/mL
							Cadmium	5 ug/mL
							Chromium	20 ug/mL
							Cobalt	50 ug/mL
							Copper	25 ug/mL
							Iron	100 ug/mL
							Lead	2 ug/mL
							Manganese	50 ug/mL
							Nickel	50 ug/mL
							Selenium	1 ug/mL
							Silver	5 ug/mL
							Sr	100 ug/mL
							Thallium	5 ug/mL
							Vanadium	50 ug/mL
							Zinc	50 ug/mL
MTAPITTMSA_00014	03/01/14		INORGANIC VENTURES, Lot G2-MEB458093		(Purchased Reagent)		Calcium	5000 ug/mL
							Magnesium	5000 ug/mL
							Potassium	5000 ug/mL
							Sodium	5000 ug/mL
MTAPITTMSC_00020	03/01/14		Inorganic Ventures, Lot E2-MEB379096		(Purchased Reagent)		Antimony	50 ug/mL
							Mo	100 ug/mL
							Si	1000 ug/mL
							SiO2	2140 ug/mL
							Sn	200 ug/mL
							Ti	100 ug/mL

Certificate of Analysis

Rec. 3-18-13 DE

Product Description:

Name:	Mercury	Source Material:	Mercury Metal
Part Number:	**10 33-1**	Material Purity:	99.9998%
Lot Number:	**1306402**	Matrix:	5% (v/v) HNO_3

Certified Value: 10.0 µg/mL ± 0.1 µg/mL

The Certified value is based on gravimetric and volumetric preparation, and confirmed against SRM 3133 (lot number 061204) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2.

Preparation Information:

The standard solution is prepared using high purity materials and assayed by analytical methods for conformity prior to use. This standard was prepared using the methods developed at NIST for SRM Spectrometric Standard Solutions under appropriate laboratory conditions.

Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 mega ohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
   The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
   The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.
b. **Volumetric Device**
   The calibration of volumetric vessels is checked annually using the NBS 602 method.
c. **Thermometer**
   The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.
d. **Calibration Standards:**
   The Calibration Standard is directly traceable to SRM 3100 Series Spectrometric Standard Solutions.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**March 5, 2013**
Shipped Date:	**March 14, 2013**
Expiration Date:	**March 14, 2013**
Certificate Issue Date:	**March 7, 2013**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Vanny T. Yib,
Inorganic Laboratory Manager

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

PLASMA-PURE ™

Standard Certificate

Catalog Number: 610-0000 **Lot Number:** 1287101

Starting Material: 99.9999% purity Hg metal **Diluent/Matrix:** 2% HCl

Preparation Date: Mar-13 **Expiration Date:** Mar-14

Element	Concentration
Hg	1.00 ± 0.02 µg/ml

Received 3/8/2013
ADS

Residual Impurities *	Concentration
None Detected	

* **Impurities were determined via ICP Emission Spectroscopy. Only elements detected are reported.**

Traceability

1. **This standard is certified using wet chemistry assay procedures and/or plasma emission spectroscopy, traceable to primary or well-characterized secondary standards. Traceable to:** NIST SRM 3133, Hg Lot#991304
2. **Analytical balances are routinely calibrated using NIST weight sets.**

Certification

Leeman Labs, Inc. certifies that PLASMA-PURE Standards have been formulated to the concentrations listed above (±0.5% of reported value). This certification does not apply and will be considered null and void if PLASMA-PURE Standards are used in a manner or in an environment not consistent with their intended purpose or are modified by the Customer in any manner.

Limitations

THE ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MECHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Limitation of Liability

In no event shall Leeman Labs, Inc. be liable for any indirect, incidental, special, or consequential damages, including loss of profits, revenue, or used incurred by Customer or any third party, whether in an action in contract or tort. Leeman Labs Inc's liability for damages hereunder shall in no event exceed the amounts paid for the PLASMA-PURE Standards.

QC Analyst:

Date: March 5, 2013

ISO 9001:2000 QUALITY

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567684 **Lot No.:** A093676

Description : 8270 Internal Standard

8270 Internal Standard 2,000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 2018 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dichlorobenzene-d4	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 3855-82-1		+/- 92.7158	µg/mL	Unstressed
	Purity 99%		+/- 101.3766	µg/mL	Stressed
2	Naphthalene-d8	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 1146-65-2		+/- 92.7158	µg/mL	Unstressed
	Purity 99%		+/- 101.3766	µg/mL	Stressed
3	Acenaphthene-d10	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 15067-26-2		+/- 92.7163	µg/mL	Unstressed
	Purity 97%		+/- 101.3771	µg/mL	Stressed
4	Phenanthrene-d10	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 1517-22-2		+/- 92.7158	µg/mL	Unstressed
	Purity 99%		+/- 101.3766	µg/mL	Stressed
5	Chrysene-d12	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 1719-03-5		+/- 92.7150	µg/mL	Unstressed
	Purity 98%		+/- 101.3758	µg/mL	Stressed
6	Perylene-d12	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 1520-96-3		+/- 92.7158	µg/mL	Unstressed
	Purity 99%		+/- 101.3766	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

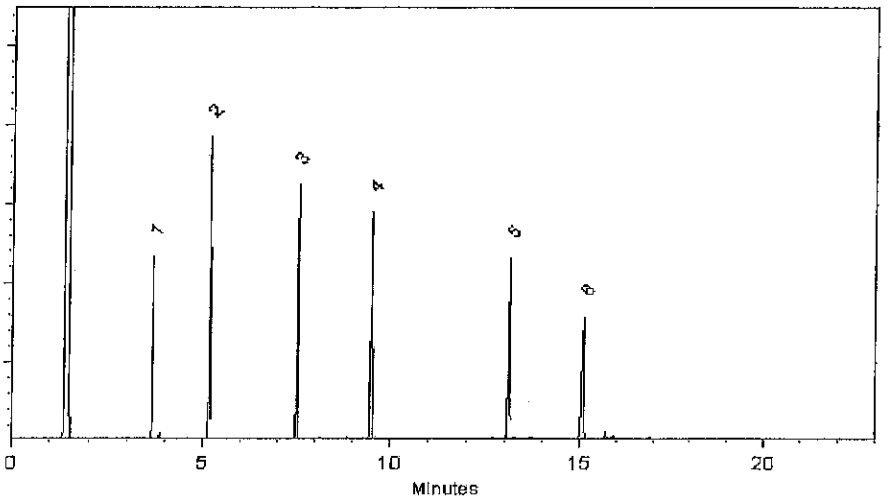
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 27-Feb-2013 Balance: 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

SMLIST1 51 00002

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Certificate #3232.01

ilac-MRA

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3232.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567672 **Lot No.:** A093709

Description : 8270 List 1 / Std #1 MegaMix

8270 List 1 / Std #1 MegaMix 500-2000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 2014 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	1,000.0 µg/mL	+/- 5.8141 µg/mL +/- 8.7957 µg/mL +/- 17.3886 µg/mL	Gravimetric Unstressed Stressed
2	Pyridine **CAS #** 110-86-1 **Purity** 99%	1,000.0 µg/mL	+/- 5.8141 µg/mL +/- 8.7957 µg/mL +/- 17.3886 µg/mL	Gravimetric Unstressed Stressed
3	N-Nitrosodimethylamine **CAS #** 62-75-9 **Purity** 99%	1,000.0 µg/mL	+/- 5.8141 µg/mL +/- 8.7957 µg/mL +/- 17.3886 µg/mL	Gravimetric Unstressed Stressed
4	Aniline **CAS #** 62-53-3 **Purity** 99%	1,000.0 µg/mL	+/- 5.8141 µg/mL +/- 8.7957 µg/mL +/- 17.3886 µg/mL	Gravimetric Unstressed Stressed
5	Phenol **CAS #** 108-95-2 **Purity** 99%	1,000.0 µg/mL	+/- 5.8141 µg/mL +/- 8.7957 µg/mL +/- 17.3886 µg/mL	Gravimetric Unstressed Stressed
6	Bis(2-chloroethyl)ether **CAS #** 111-44-4 **Purity** 99%	1,000.0 µg/mL	+/- 5.8141 µg/mL +/- 8.7957 µg/mL +/- 17.3886 µg/mL	Gravimetric Unstressed Stressed
7	2-Chlorophenol **CAS #** 95-57-8 **Purity** 99%	1,000.0 µg/mL	+/- 5.8141 µg/mL +/- 8.7957 µg/mL +/- 17.3886 µg/mL	Gravimetric Unstressed Stressed
8	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	1,000.0 µg/mL	+/- 5.8141 µg/mL +/- 8.7957 µg/mL +/- 17.3886 µg/mL	Gravimetric Unstressed Stressed
9	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	1,000.0 µg/mL	+/- 5.8141 µg/mL +/- 8.7957 µg/mL +/- 17.3886 µg/mL	Gravimetric Unstressed Stressed

10	1,2-Dichlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-50-1			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
11	Benzyl alcohol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 100-51-6			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
12	Bis(2-chloroisopropyl)ether	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-60-1 2,2'-oxybis(1-chloropropane)			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
13	2-Methylphenol (o-cresol)	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-48-7			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
14	Acetophenone	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 98-86-2			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
15	Hexachloroethane	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 67-72-1			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
16	N-Nitroso-di-n-propylamine	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 621-64-7			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
17	4-Methylphenol (p-cresol)	500.0	µg/mL	+/-	2.9070	µg/mL	Gravimetric
	CAS # 106-44-5			+/-	4.3978	µg/mL	Unstressed
	Purity 99%			+/-	8.6943	µg/mL	Stressed
18	3-Methylphenol (m-cresol)	500.0	µg/mL	+/-	2.9070	µg/mL	Gravimetric
	CAS # 108-39-4			+/-	4.3978	µg/mL	Unstressed
	Purity 99%			+/-	8.6943	µg/mL	Stressed
19	n-Decane (C10)	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 124-18-5			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
20	n-Octadecane (C18)	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 593-45-3			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
21	Nitrobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 98-95-3			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
22	Isophorone	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 78-59-1			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
23	2-Nitrophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 88-75-5			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
24	2,4-Dimethylphenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 105-67-9			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
25	Bis(2-chloroethoxy)methane	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 111-91-1			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
26	2,4-Dichlorophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-83-2			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
27	1,2,4-Trichlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-82-1			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
28	Naphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-20-3			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed

29	4-Chloroaniline	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 106-47-8			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
30	Hexachlorobutadiene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 87-68-3			+/-	8.7956	µg/mL	Unstressed
	Purity 97%			+/-	17.3886	µg/mL	Stressed
31	2-Methylnaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-57-6			+/-	8.7957	µg/mL	Unstressed
	Purity 96%			+/-	17.3887	µg/mL	Stressed
32	4-Chloro-3-methylphenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 59-50-7			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
33	1-Methylnaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 90-12-0			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-94-3			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
35	Hexachlorocyclopentadiene	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 77-47-4			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
36	2,4,6-Trichlorophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 88-06-2			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
37	2,4,5-Trichlorophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-95-4			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
38	2-Chloronaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-58-7			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
39	Biphenyl	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 92-52-4			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
40	2-Nitroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 88-74-4			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
41	Acenaphthylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 208-96-8			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
42	1,3-Dinitrobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 99-65-0			+/-	8.7956	µg/mL	Unstressed
	Purity 97%			+/-	17.3886	µg/mL	Stressed
43	Dimethylphthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 131-11-3			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
44	2,6-Dinitrotoluene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 606-20-2			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
45	Acenaphthene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 83-32-9			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
46	3-Nitroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 99-09-2			+/-	8.7956	µg/mL	Unstressed
	Purity 97%			+/-	17.3886	µg/mL	Stressed
47	2,4-Dinitrophenol	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 51-28-5			+/-	17.5913	µg/mL	Unstressed
	Purity 99%			+/-	34.7772	µg/mL	Stressed

48	Dibenzofuran	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 132-64-9			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
49	2,4-Dinitrotoluene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 121-14-2			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
50	4-Nitrophenol	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-02-7			+/-	17.5913	µg/mL	Unstressed
	Purity 99%			+/-	34.7772	µg/mL	Stressed
51	2,3,4,6-Tetrachlorophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 58-90-2			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
52	Fluorene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 86-73-7			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
53	4-Chlorophenyl phenyl ether	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 7005-72-3			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
54	Diethylphthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 84-66-2			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
55	4-Nitroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 100-01-6			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
56	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 534-52-1			+/-	17.5913	µg/mL	Unstressed
	Purity 99%			+/-	34.7772	µg/mL	Stressed
57	Azobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 103-33-3			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
58	4-Bromophenyl phenyl ether	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 101-55-3			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
59	Hexachlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 118-74-1			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
60	Pentachlorophenol	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-86-5			+/-	17.5913	µg/mL	Unstressed
	Purity 99%			+/-	34.7772	µg/mL	Stressed
61	Phenanthrene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 85-01-8			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
62	Anthracene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-12-7			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
63	n-Hexadecane (C16)	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 544-76-3			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
64	Carbazole	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 86-74-8			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
65	Di-n-butylphthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 84-74-2			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
66	Fluoranthene	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 206-44-0			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed

67	Pyrene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 129-00-0			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
68	Benzyl butyl phthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 85-68-7			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
69	Benz(a)anthracene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 56-55-3			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
70	Chrysene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 218-01-9			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
71	Bis(2-ethylhexyl)phthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 117-81-7			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
72	Di-n-octyl phthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 117-84-0			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
73	Benzo(b)fluoranthene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 205-99-2			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
74	Benzo(k)fluoranthene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 207-08-9			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
75	Benzo(a)pyrene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 50-32-8			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
76	Indeno(1,2,3-cd)pyrene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 193-39-5			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
77	Dibenz(a,h)anthracene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 53-70-3			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
78	Benzo(g,h,i)perylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 191-24-2			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

SMLIST1 SZ-00002

RESTEK

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ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567673 **Lot No.:** A093755

Description : 8270 List 1 / Std #2 Amines

8270 List 1 / Std #2 Amines 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 2014 **Storage:** 10°C or colder

Handling: Contains carcinogen

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	epsilon-Caprolactam	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 105-60-2		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
2	Atrazine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 1912-24-9		+/- 17.5914	µg/mL	Unstressed
	Purity 98%		+/- 34.7774	µg/mL	Stressed
3	Benzidine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 92-87-5		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
4	3,3'-Dichlorobenzidine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 91-94-1		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

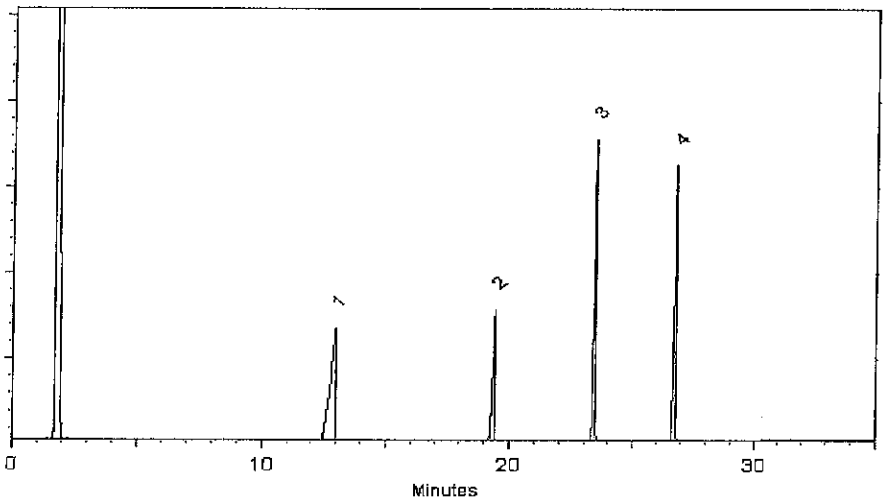
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 11-Mar-2013 Balance: 1128360905

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567674 **Lot No.:** A093441

Description : 8270 List 1 / Std #3 Benzoic Acid

8270 List 1 / Std #3 Benzoic Acid 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzoic acid	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 65-85-0		+/- 96.5249	µg/mL	Unstressed
	Purity 99%		+/- 96.6077	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

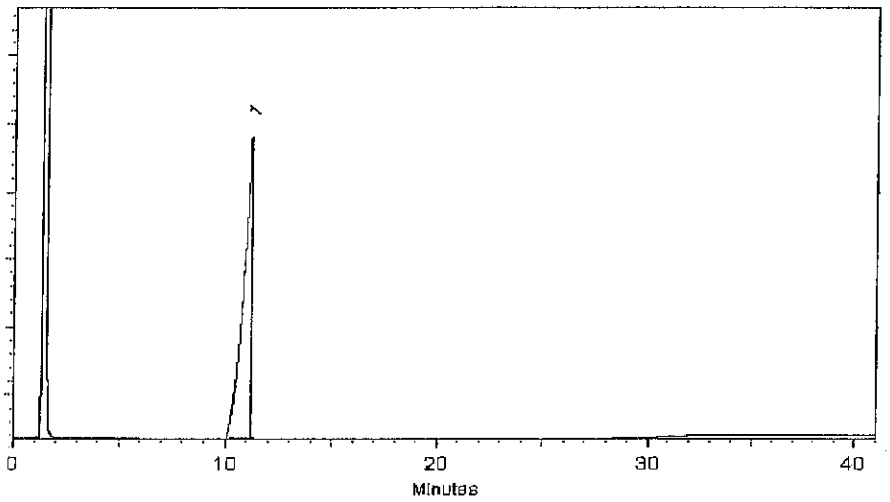
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 22-Feb-2013 **Balance:** 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567675 **Lot No.:** A093730

Description : 8270 List 1 / Std #4 Indene

8270 List 1 / Std #4 Indene 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 2014 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Indene	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 95-13-6		+/- 24.1076	µg/mL	Unstressed
	Purity 99%		+/- 27.2017	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

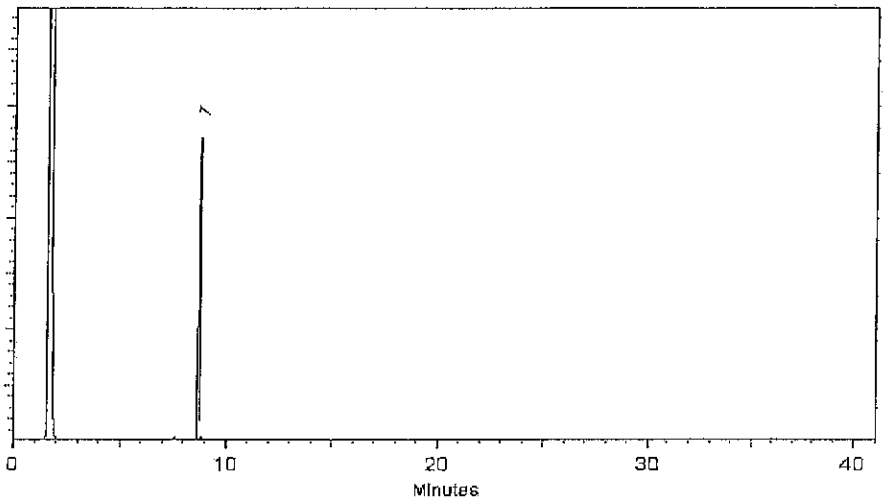
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 27-Feb-2013 **Balance:** 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567676 **Lot No.:** A093442

Description : 8270 List 1 / Std #5 N-Nitrosodiphenylamine

8270 List 1 / Std #5 N-Nitrosodiphenylamine 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 2015 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	N-Nitrosodiphenylamine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 86-30-6		+/- 17.5914	µg/mL	Unstressed
	Purity 97%		+/- 34.7774	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

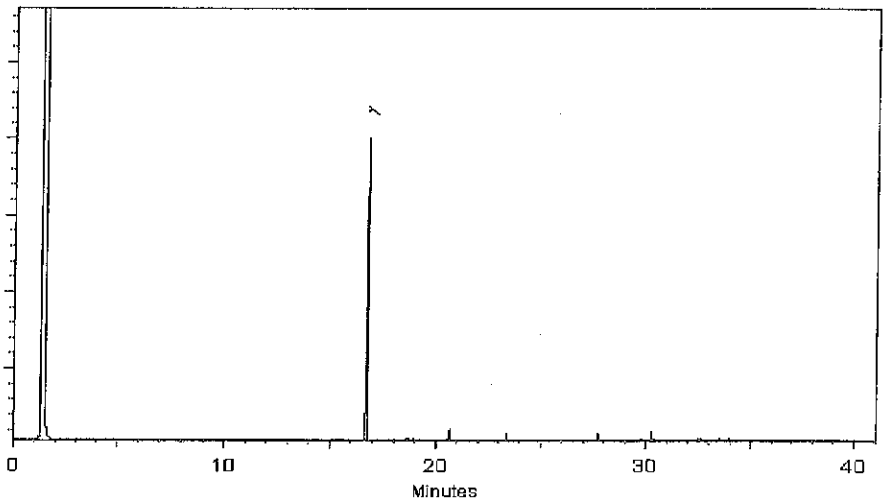
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst Date Passed: 25-Feb-2013 Balance: 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567677 **Lot No.:** A093445

Description : 8270 List 1 / Std #6 Benzaldehyde

8270 List 1 / Std #6 Benzaldehyde 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 2014 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzaldehyde	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 100-52-7		+/- 53.7239	µg/mL	Unstressed
	Purity 99%		+/- 66.9795	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

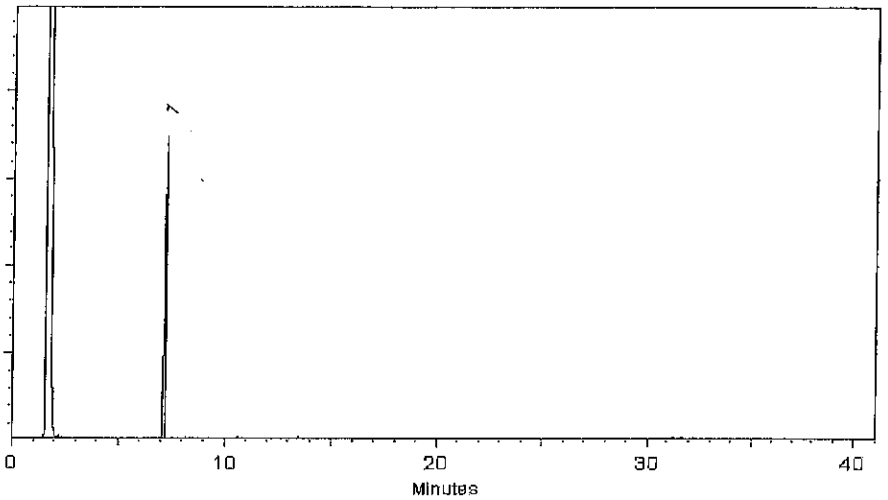
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 25-Feb-2013 Balance: 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
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Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
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- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
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0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
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Certificate of Analysis

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567672.sec **Lot No.:** A094002

Description : 8270 List 1 / Std #1 MegaMix

8270 List 1 / Std #1 MegaMix 500-2000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 2014 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane	1,000.0 µg/mL	+/- 5.8141	µg/mL	Gravimetric
	CAS # 123-91-1.SEC		+/- 8.7957	µg/mL	Unstressed
	Purity 99%		+/- 17.3886	µg/mL	Stressed
2	Pyridine	1,000.0 µg/mL	+/- 5.8141	µg/mL	Gravimetric
	CAS # 110-86-1.SEC		+/- 8.7957	µg/mL	Unstressed
	Purity 99%		+/- 17.3886	µg/mL	Stressed
3	N-Nitrosodimethylamine	1,000.0 µg/mL	+/- 5.8141	µg/mL	Gravimetric
	CAS # 62-75-9.SEC		+/- 8.7957	µg/mL	Unstressed
	Purity 99%		+/- 17.3886	µg/mL	Stressed
4	Aniline	1,000.0 µg/mL	+/- 5.8141	µg/mL	Gravimetric
	CAS # 62-53-3.SEC		+/- 8.7957	µg/mL	Unstressed
	Purity 99%		+/- 17.3886	µg/mL	Stressed
5	Phenol	1,000.0 µg/mL	+/- 5.8141	µg/mL	Gravimetric
	CAS # 108-95-2.SEC		+/- 8.7957	µg/mL	Unstressed
	Purity 99%		+/- 17.3886	µg/mL	Stressed
6	Bis(2-chloroethyl)ether	1,000.0 µg/mL	+/- 5.8141	µg/mL	Gravimetric
	CAS # 111-44-4.SEC		+/- 8.7957	µg/mL	Unstressed
	Purity 99%		+/- 17.3886	µg/mL	Stressed
7	2-Chlorophenol	1,000.0 µg/mL	+/- 5.8141	µg/mL	Gravimetric
	CAS # 95-57-8.SEC		+/- 8.7957	µg/mL	Unstressed
	Purity 99%		+/- 17.3886	µg/mL	Stressed
8	1,3-Dichlorobenzene	1,000.0 µg/mL	+/- 5.8141	µg/mL	Gravimetric
	CAS # 541-73-1.SEC		+/- 8.7957	µg/mL	Unstressed
	Purity 99%		+/- 17.3886	µg/mL	Stressed
9	1,4-Dichlorobenzene	1,000.0 µg/mL	+/- 5.8141	µg/mL	Gravimetric
	CAS # 106-46-7.SEC		+/- 8.7957	µg/mL	Unstressed
	Purity 99%		+/- 17.3886	µg/mL	Stressed

10	1,2-Dichlorobenzene **CAS #** 95-50-1.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Benzyl alcohol **CAS #** 100-51-6.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	Bis(2-chloroisopropyl)ether **CAS #** 108-60-1.SEC **Purity** 72%	720.0	µg/mL	+/- +/- +/-	4.1861 6.3329 12.5198	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	2-Methylphenol (o-cresol) **CAS #** 95-48-7.SEC **Purity** 98%	1,000.0	µg/mL	+/- +/- +/-	5.8140 8.7956 17.3885	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	Acetophenone **CAS #** 98-86-2.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	Hexachloroethane **CAS #** 67-72-1.SEC **Purity** 98%	1,000.0	µg/mL	+/- +/- +/-	5.8140 8.7956 17.3885	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	N-Nitroso-di-n-propylamine **CAS #** 621-64-7.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	4-Methylphenol (p-cresol) **CAS #** 106-44-5.SEC **Purity** 99%	500.0	µg/mL	+/- +/- +/-	2.9138 4.4023 8.6966	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	3-Methylphenol (m-cresol) **CAS #** 108-39-4.SEC **Purity** 99%	500.0	µg/mL	+/- +/- +/-	2.9138 4.4023 8.6966	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	n-Decane (C10) **CAS #** 124-18-5.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	n-Octadecane (C18) **CAS #** 593-45-3.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	Nitrobenzene **CAS #** 98-95-3.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Isophorone **CAS #** 78-59-1.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	2-Nitrophenol **CAS #** 88-75-5.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
24	2,4-Dimethylphenol **CAS #** 105-67-9.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	Bis(2-chloroethoxy)methane **CAS #** 111-91-1 **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	2,4-Dichlorophenol **CAS #** 120-83-2.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	1,2,4-Trichlorobenzene **CAS #** 120-82-1.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Naphthalene **CAS #** 91-20-3.SEC **Purity** 99%	1,000.0	µg/mL	+/- +/- +/-	5.8141 8.7957 17.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

29	4-Chloroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-47-8.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
30	Hexachlorobutadiene	1,000.0	µg/mL	+/-	5.8139	µg/mL	Gravimetric
	CAS # 87-68-3.SEC			+/-	8.7954	µg/mL	Unstressed
	Purity 97%			+/-	17.3881	µg/mL	Stressed
31	2-Methylnaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-57-6.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
32	4-Chloro-3-methylphenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 59-50-7.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
33	1-Methylnaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 90-12-0.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-94-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
35	Hexachlorocyclopentadiene	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 77-47-4.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
36	2,4,6-Trichlorophenol	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 88-06-2.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
37	2,4,5-Trichlorophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-95-4.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
38	2-Chloronaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-58-7.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
39	Biphenyl	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 92-52-4.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
40	2-Nitroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 88-74-4.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
41	Acenaphthylene	1,000.0	µg/mL	+/-	5.8139	µg/mL	Gravimetric
	CAS # 208-96-8.SEC			+/-	8.7954	µg/mL	Unstressed
	Purity 97%			+/-	17.3881	µg/mL	Stressed
42	1,3-Dinitrobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 99-65-0.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
43	Dimethylphthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 131-11-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
44	2,6-Dinitrotoluene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 606-20-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
45	Acenaphthene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 83-32-9.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
46	3-Nitroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 99-09-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
47	2,4-Dinitrophenol	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 51-28-5.SEC			+/-	17.5913	µg/mL	Unstressed
	Purity 99%			+/-	34.7772	µg/mL	Stressed

48	Dibenzofuran	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 132-64-9.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
49	2,4-Dinitrotoluene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 121-14-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
50	4-Nitrophenol	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-02-7.SEC			+/-	17.5913	µg/mL	Unstressed
	Purity 99%			+/-	34.7772	µg/mL	Stressed
51	2,3,4,6-Tetrachlorophenol	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 58-90-2.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
52	Fluorene	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 86-73-7.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
53	4-Chlorophenyl phenyl ether	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 7005-72-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
54	Diethylphthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 84-66-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
55	4-Nitroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 100-01-6.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
56	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 534-52-1.SEC			+/-	17.5912	µg/mL	Unstressed
	Purity 98%			+/-	34.7769	µg/mL	Stressed
57	Azobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 103-33-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
58	4-Bromophenyl phenyl ether	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 101-55-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
59	Hexachlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 118-74-1.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
60	Pentachlorophenol	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-86-5.SEC			+/-	17.5913	µg/mL	Unstressed
	Purity 99%			+/-	34.7772	µg/mL	Stressed
61	Phenanthrene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 85-01-8.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
62	Anthracene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-12-7.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
63	n-Hexadecane (C16)	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 544-76-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
64	Carbazole	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 86-74-8.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
65	Di-n-butylphthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 84-74-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
66	Fluoranthene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 206-44-0.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed

67	Pyrene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 129-00-0.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
68	Benzyl butyl phthalate	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 85-68-7.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
69	Benz(a)anthracene	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 56-55-3.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
70	chrysene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 218-01-9.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
71	Bis(2-ethylhexyl)phthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 117-81-7.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
72	Di-n-octyl phthalate	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 117-84-0.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
73	Benzo(b)fluoranthene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 205-99-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
74	Benzo(k)fluoranthene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 207-08-9.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
75	Benzo(a)pyrene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 50-32-8.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
76	Indeno(1,2,3-cd)pyrene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 193-39-5.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
77	Dibenz(a,h)anthracene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 53-70-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
78	Benzo(g,h,i)perylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 191-24-2			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Specific Reference Material Notes:
The Bis(2-chloroisopropyl)ether contains a 28% impurity of Propane, 1,1'oxybis,, 3-chloro.

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

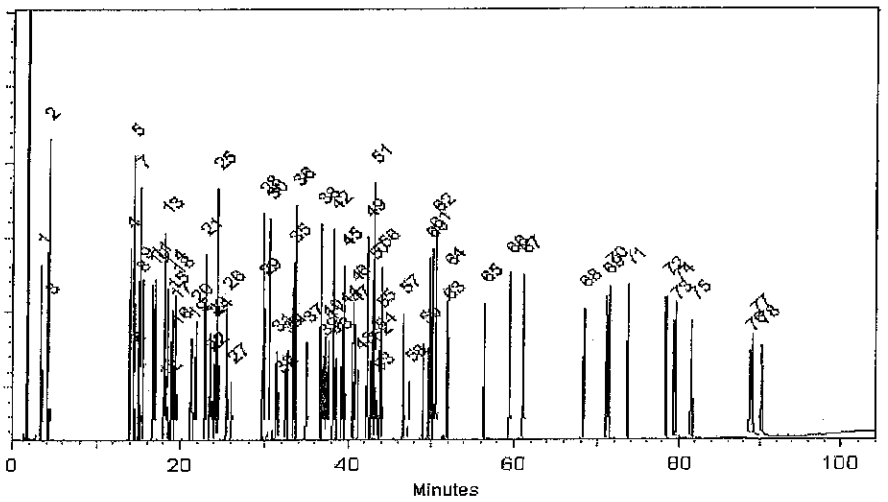
Carrier Gas:
hydrogen-constant pressure 10 psi

Temp. Program:
35°C (hold 3 min.) to 330°C
@ 3°C/min. (hold 3 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 27-Mar-2013 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\,stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\,stability} + U^2_{shipping\,stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

SMLIST1 55 52_00001

RESTEK

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Bellefonte, PA 16823-8812
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Fax: (814)353-1309

www.restek.com

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567673.sec **Lot No.:** A093775

Description : 8270 List 1 / Std #2 Amines

8270 List 1 / Std #2 Amines 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 2014 **Storage:** 10°C or colder

Handling: Contains carcinogen

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	epsilon-Caprolactam	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 105-60-2.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
2	Atrazine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 1912-24-9.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
3	Benzidine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 92-87-5.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
4	3,3'-Dichlorobenzidine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 91-94-1.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

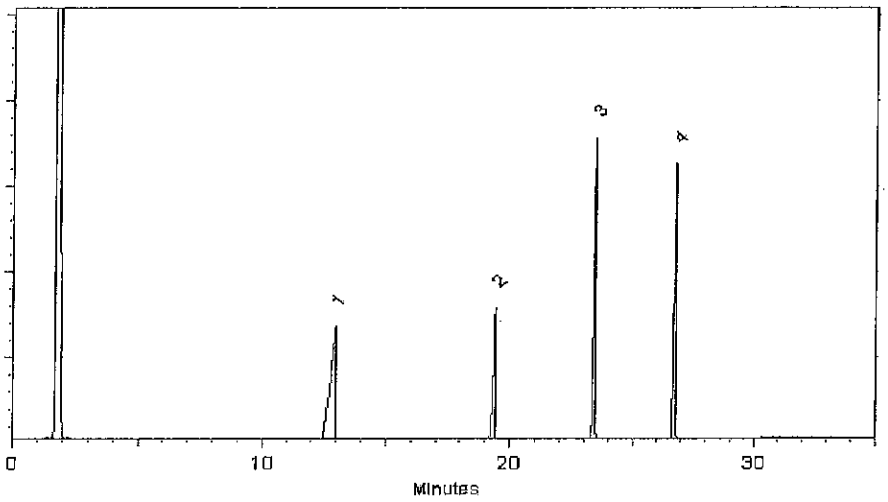
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 11-Mar-2013 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567674.sec **Lot No.:** A093654

Description : 8270 List 1 / Std #3 Benzoic Acid

8270 List 1 / Std #3 Benzoic Acid 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzoic acid	2,000.0 µg/mL	+/- 11.6284	µg/mL	Gravimetric
	CAS # 65-85-0.SEC		+/- 96.5270	µg/mL	Unstressed
	Purity 97%		+/- 96.6098	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

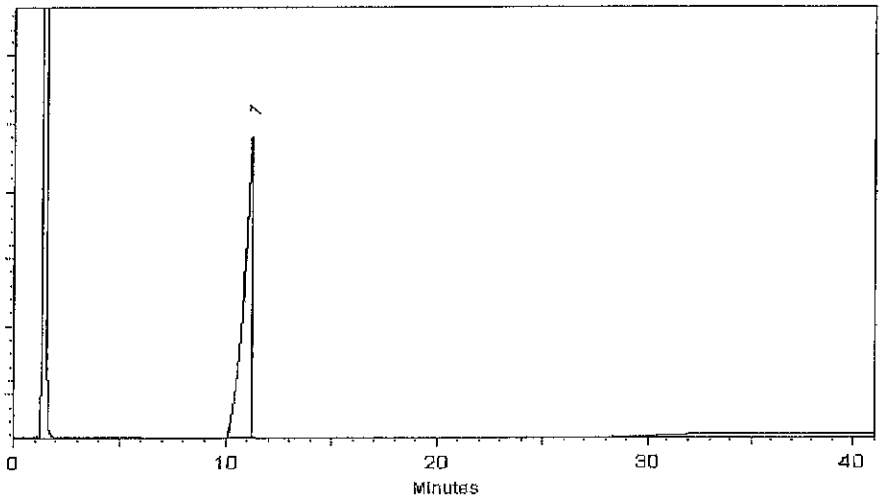
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 22-Feb-2013 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567676.sec **Lot No.:** A093671

Description : 8270 List 1 / Std #5 N-Nitrosodiphenylamine

8270 List 1 / Std #5 N-Nitrosodiphenylamine 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 2015 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	N-Nitrosodiphenylamine	1,999.9 µg/mL	+/- 11.6278	µg/mL	Gravimetric
	CAS # 86-30-6.SEC		+/- 17.5908	µg/mL	Unstressed
	Purity 95%		+/- 34.7762	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

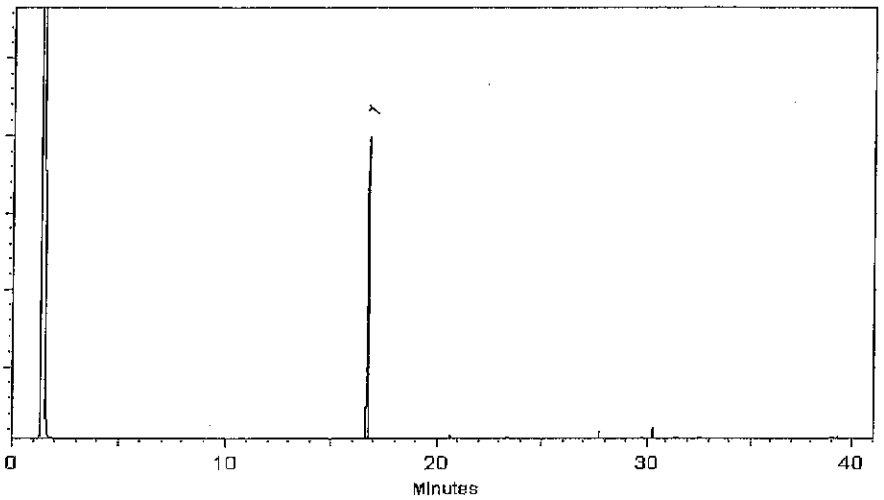
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 25-Feb-2013 Balance: 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

5MLIST1 SURR-00002

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567685 **Lot No.:** A093638

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 2018 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 367-12-4		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
2	Phenol-d5	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 4165-62-2		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
3	Nitrobenzene-d5	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 4165-60-0		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
4	2-Fluorobiphenyl	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 321-60-8		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
5	2,4,6-Tribromophenol	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 118-79-6		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
6	p-Terphenyl-d14	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 1718-51-0		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

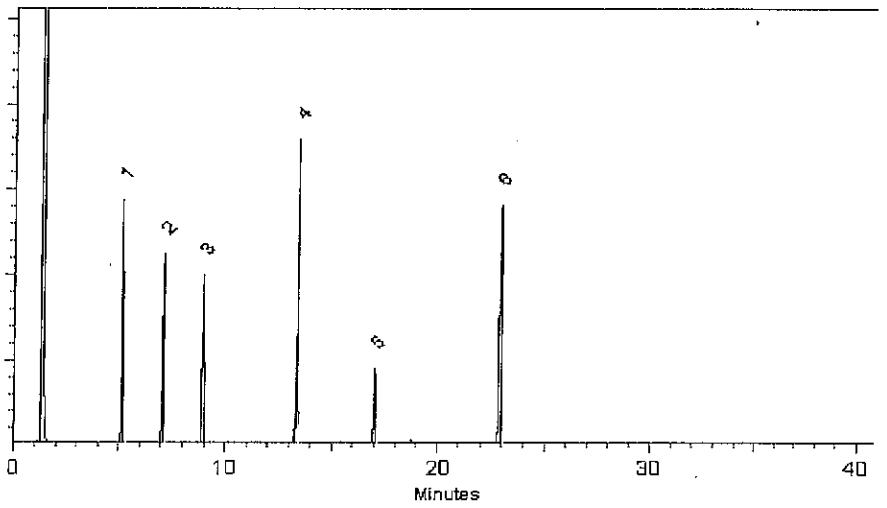
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Diane Shaffer - QA Analyst

Date Passed: 22-Feb-2013 **Balance:** 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Composition

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567685 **Lot No.:** A092712

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 2018 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol	5,000.0 µg/mL	+/- 29.2761	µg/mL	Gravimetric
	CAS # 367-12-4		+/- 132.9947	µg/mL	Unstressed
	Purity 99%		+/- 163.4399	µg/mL	Stressed
2	Phenol-d5	5,000.0 µg/mL	+/- 29.2761	µg/mL	Gravimetric
	CAS # 4165-62-2		+/- 132.9947	µg/mL	Unstressed
	Purity 99%		+/- 163.4399	µg/mL	Stressed
3	Nitrobenzene-d5	5,000.0 µg/mL	+/- 29.2761	µg/mL	Gravimetric
	CAS # 4165-60-0		+/- 132.9947	µg/mL	Unstressed
	Purity 99%		+/- 163.4399	µg/mL	Stressed
4	2-Fluorobiphenyl	5,000.0 µg/mL	+/- 29.2761	µg/mL	Gravimetric
	CAS # 321-60-8		+/- 132.9947	µg/mL	Unstressed
	Purity 99%		+/- 163.4399	µg/mL	Stressed
5	2,4,6-Tribromophenol	5,000.0 µg/mL	+/- 29.2761	µg/mL	Gravimetric
	CAS # 118-79-6		+/- 132.9947	µg/mL	Unstressed
	Purity 99%		+/- 163.4399	µg/mL	Stressed
6	p-Terphenyl-d14	5,000.0 µg/mL	+/- 29.2761	µg/mL	Gravimetric
	CAS # 1718-51-0		+/- 132.9947	µg/mL	Unstressed
	Purity 99%		+/- 163.4399	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

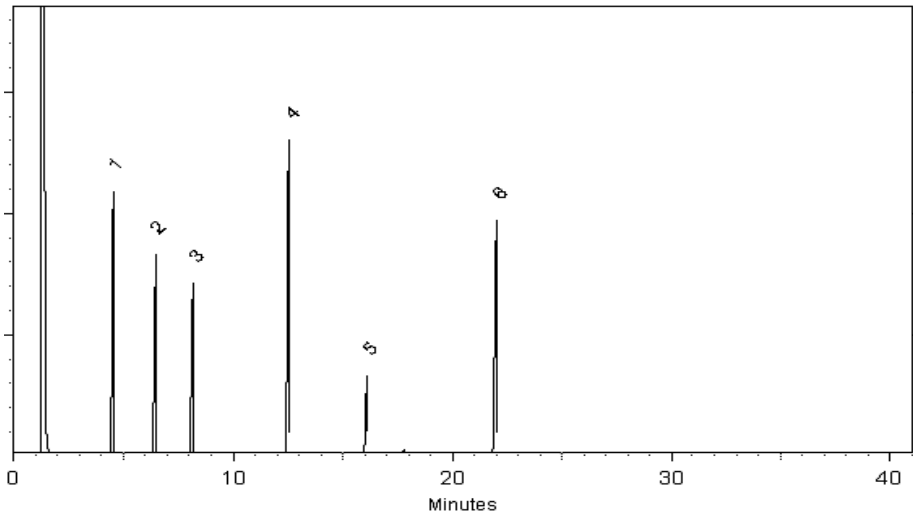
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 14-Jan-2013 **Balance:** 1128342314

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

REVIEWED
By jlidgett at 8:46 am, Jan 15, 2013

3/15/11
TS

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Catalog No. : 30006 **Lot No.:** A076449

Description : VOA Calibration Mix #1

Expiration Date[1]**:** November 2013 **Storage:** Freezer

Elution Order	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	% Uncertainty [4] (95% C.L.; K=2)
1	Acetone	67-64-1	99%	5,000.000 ug/ml	+/-0.58 %
2	2-Butanone (MEK)	78-93-3	99%	5,000.000 ug/ml	+/-0.58 %
3	4-Methyl-2-pentanone (MIBK)	108-10-1	99%	5,000.000 ug/ml	+/-0.58 %
4	2-Hexanone	591-78-6	99%	5,000.000 ug/ml	+/-0.58 %
Solvent:	P&T Methanol/Water (90:10)	67-56-1/7732-18-5	99%		

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

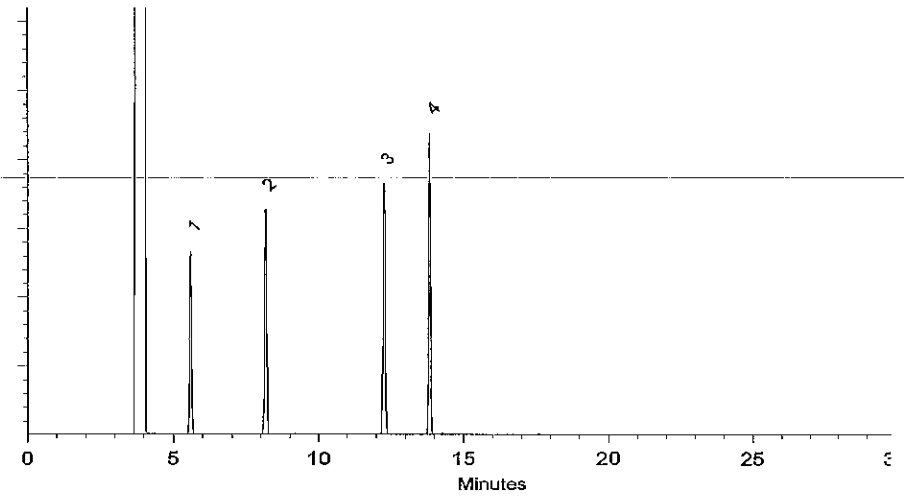
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Sara Eyster QA Analyst

Date Passed: 25-Aug-2010 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

1 Expiration date of the unopened ampule stored at the recommended storage condition.

2A Purity is determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value is rounded to the nearest whole number. Chemical identity is confirmed using GC/MS. See data pack or contact provider for further details.

2B Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities.

2C The following types of compounds will have a listed purity of less than 99%: Aldehyde/Ketone-DNPH compounds, Bromides, Chlorides, HCL salts, HBR salts, sulfates, hydrates, and other compounds as necessary. The listed purity is a correction factor that is equivalent to the percentage of parent compound in the molecule. This correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution. The concentration listed on the certificate is the concentration of the parent compound in the solution.

2D Purity of isomeric compounds is reported as the sum of the isomers. Value is rounded to the nearest whole number after summation.

3 Based upon gravimetric preparation with balance calibration verified using NIST traceable weights (seven mass levels) and/or class A glassware used for dilutions.

4 Uncertainties determined using data for balances and glassware from measurement systems analysis methodology, raw material purity, and, when significant, equipment tolerances or calibration results.

Certificate of Analysis

8/23/12 TS

DESCRIPTION: Volatile Organic Compounds Mix 6

CATALOG NO.: 48799-U MFG DATE: Mar-2012

LOT NO.: LB91213 EXPIRATION DATE: Jun-2013

SOLVENT: METHANOL

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
BROMOMETHANE	74-83-9	99.9 (a)	2000	2041	+/-	35.1	LB68220
CHLOROETHANE	75-00-3	99.9 (a)	2000	2079	+/-	46.9	LB55667
CHLOROMETHANE	74-87-3	99.9	2000	2116	+/-	61.9	LB64986
DICHLORODIFLUOROMETHANE	75-71-8	99.9 (a)	2000	2044	+/-	88.1	LB68837
TRICHLOROFLUOROMETHANE	75-69-4	99.9 (a)	2000	2088	+/-	44.9	LA91320
VINYL CHLORIDE	75-01-4	99.9 (a)	2000	2141	+/-	45.7	LB89571

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.
a) GC; detector HALL

(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.

(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.

Elwood Doughty
Quality Control Supervisor

Supelco warrants that its products conform to the information contained in this publication. Purchaser must determine the suitability of the product for its particular use. Please see the latest catalog or order invoice and packing slip for additional terms and conditions of sale.

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Certificate of Analysis

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Catalog No. : 556005 **Lot No.:** A085142

Description : Custom Volatiles Mix 2

Container Size : [5] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : [1] May 2013 **Storage:** 0°C or colder

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	Grav.Uncert. (95% C.L.; K=2) [4]
1	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	97%	2,500.2 ug/mL	+/- 14.6724 ug/mL
2	1,1-dichloroethene	75-35-4	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
3	Methyl acetate	79-20-9	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
4	Carbon disulfide	75-15-0	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
5	Methylene chloride (dichloromethane)	75-09-2	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
6	Methyl-tert-butyl ether (MTBE)	1634-04-4	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
7	cis-1,2-Dichloroethene	156-59-2	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
8	n-Hexane (C6)	110-54-3	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
9	1,1-Dichloroethane	75-34-3	98%	2,500.0 ug/mL	+/- 17.8401 ug/mL
10	trans-1,2-Dichloroethene	156-60-5	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
11	chloroform	67-66-3	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
12	1,1,1-trichloroethane	71-55-6	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
13	Cyclohexane	110-82-7	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
14	carbon tetrachloride	56-23-5	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
15	1,2-Dichloroethane	107-06-2	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
16	Benzene	71-43-2	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
17	Trichloroethene	79-01-6	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
18	Methylcyclohexane	108-87-2	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
19	1,2-Dichloropropane	78-87-5	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
20	bromodichloromethane	75-27-4	98%	2,500.0 ug/mL	+/- 17.8401 ug/mL
21	cis-1,3-Dichloropropene	10061-01-5	97%	2,500.0 ug/mL	+/- 17.8401 ug/mL
22	Toluene	108-88-3	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
23	trans-1,3-Dichloropropene	10061-02-6	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
24	1,1,2-Trichloroethane	79-00-5	98%	2,500.0 ug/mL	+/- 17.8401 ug/mL
25	Tetrachloroethene	127-18-4	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
26	dibromochloromethane	124-48-1	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
27	1,2-Dibromoethane (EDB)	106-93-4	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
28	Chlorobenzene	108-90-7	99%	2,500.0 ug/mL	+/- 17.8402 ug/mL
29	Ethylbenzene	100-41-4	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
30	m-Xylene	108-38-3	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
31	p-Xylene	106-42-3	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
32	o-Xylene	95-47-6	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
33	Styrene	100-42-5	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL

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Catalog No. : 563136 **Lot No.:** A085140

Description : Custom Revised Supplemental Spike Mix

Container Size : [5] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : [1] November 2016 **Storage:** 0°C or colder

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	Grav.Uncert. (95% C.L.; K=2) [4]
1	Diethyl ether (ethyl ether)	60-29-7	98%	2,500.2 ug/mL	+/- 14.6724 ug/mL
2	tert-Butanol (TBA)	75-65-0	99%	50,001.6 ug/mL	+/- 292.755 ug/mL
3	Iodomethane (methyl iodide)	74-88-4	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
4	Diisopropyl ether (DIPE)	108-20-3	99%	2,500.4 ug/mL	+/- 14.6737 ug/mL
5	2,2-Dichloropropane	594-20-7	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
6	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	125,004.4 ug/mL	+/- 731.89 ug/mL
7	Bromochloromethane	74-97-5	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
8	Tetrahydrofuran	109-99-9	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
9	1,1-Dichloropropene	563-58-6	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
10	Dibromomethane	74-95-3	98%	2,500.2 ug/mL	+/- 14.6724 ug/mL
11	1,3-Dichloropropane	142-28-9	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
12	1,1,1,2-Tetrachloroethane	630-20-6	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
13	1,2,3-Trichloropropane	96-18-4	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
14	trans-1,4-dichloro-2-butene	110-57-6	98%	5,008.2 ug/mL	+/- 29.3241 ug/mL
15	n-Propylbenzene	103-65-1	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
16	Bromobenzene	108-86-1	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
17	1,3,5-Trimethylbenzene	108-67-8	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
18	2-Chlorotoluene	95-49-8	99%	2,501.2 ug/mL	+/- 14.6784 ug/mL
19	4-Chlorotoluene	106-43-4	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
20	tert-Butylbenzene	98-06-6	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
21	1,2,4-Trimethylbenzene	95-63-6	99%	2,500.4 ug/mL	+/- 14.6737 ug/mL
22	sec-Butylbenzene	135-98-8	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
23	4-Isopropyltoluene (p-Cymene)	99-87-6	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
24	1,2,3-Trimethylbenzene	526-73-8	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
25	n-Butylbenzene	104-51-8	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
26	Hexachlorobutadiene	87-68-3	98%	2,500.2 ug/mL	+/- 14.6724 ug/mL
27	Naphthalene	91-20-3	99%	2,500.0 ug/mL	+/- 14.6714 ug/mL
28	1,2,3-Trichlorobenzene	87-61-6	99%	2,500.4 ng/mL	+/- 14.6737 ug/mL

Certificate of Analysis

Rec'd 9/27/12 TB

DESCRIPTION: 8260 Ketones Mix

CATALOG NO.: 861149 MFG DATE: Jun-2011

LOT NO.: LB85301 EXPIRATION DATE: Nov-2013

SOLVENT: METHANOL:WATER (30:70)

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
ACETONE	67-64-1	99.9	2000	1891	+/-	75.1	LB60265
CYCLOHEXANONE	108-94-1	99.5	20002	18806	+/-	673.6	LB67851
2-BUTANONE	78-93-3	99.9	2001	1888	+/-	78.2	LB38154
2-HEXANONE	591-78-6	99.9	2001	1877	+/-	70.9	LB57500
4-METHYL-2-PENTANONE	108-10-1	99.9	2001	1910	+/-	71.4	LB80301

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.

(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.

(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.

Elwood Doughty
Quality Control Supervisor

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Certificate of Analysis

Rec: 1/31/13

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Analytical Solutions

Custom Standard

Product Number: CUS-5013 **Page:** 1 of 1

Lot Number: CK-0277 **Lot Issue Date:** 29-Jan-2013 **Expiration Date:** 31-May-2013

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
vinyl acetate	000108-05-4	RM04478	2511 ± 13 µg/mL
methyl acetate	000079-20-9	NT02091	2511 ± 13 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

VMCU5013-00009

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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William J. Leary
Quality Assurance Manager

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12/13/12
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Custom Standard

Product Number: CUS-7814 **Page:** 1 of 4

Lot Number: CJ-4366 **Lot Issue Date:** 10-Dec-2012 **Expiration Date:** 31-Jan-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
1,1,2-trichlorotrifluoroethane	000076-13-1	RM04487	50.2 ± 0.3 µg/mL
methyl iodide	000074-88-4	RM04128	50.2 ± 0.3 µg/mL
carbon disulfide	000075-15-0	RM04258	50.2 ± 0.3 µg/mL
methylene chloride	000075-09-2	RM01647	50.2 ± 0.3 µg/mL
tert-butanol	000075-65-0	RM00555	1004 ± 5 µg/mL
1,1-dichloroethene	000075-35-4	RM01356	50.2 ± 0.3 µg/mL
1,1-dichloroethane	000075-34-3	RM00019	50.2 ± 0.3 µg/mL
trans-1,2-dichloroethene	000156-60-5	01306HD	50.2 ± 0.3 µg/mL
MTBE	001634-04-4	RM05302	50.2 ± 0.3 µg/mL
n-hexane	000110-54-3	NT00436	50.2 ± 0.3 µg/mL
cis-1,2-dichloroethene	000156-59-2	RM01500	50.2 ± 0.3 µg/mL
tetrahydrofuran	000109-99-9	RM05587	50.2 ± 0.3 µg/mL
chloroform	000067-66-3	RM01693	50.2 ± 0.3 µg/mL
1,2-dichloroethane	000107-06-2	RM02111	50.2 ± 0.3 µg/mL
dibromomethane	000074-95-3	RM02090	50.2 ± 0.3 µg/mL
1,4-dioxane	000123-91-1	RM02104	2503 ± 13 µg/mL
1,1,1-trichloroethane	000071-55-6	RM00027	50.2 ± 0.3 µg/mL
carbon tetrachloride	000056-23-5	RM00012	50.2 ± 0.3 µg/mL
bromodichloromethane	000075-27-4	10529HD	50.2 ± 0.3 µg/mL

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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Quality Assurance Manager

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Product Number: CUS-7814 **Page:** 2 of 4

Lot Number: CJ-4366 **Lot Issue Date:** 10-Dec-2012 **Expiration Date:** 31-Jan-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

1,2-dichloropropane	000078-87-5	RM02091	50.2 ± 0.3 µg/mL
cis-1,3-dichloropropene	010061-01-5	RM01442	50.2 ± 0.3 µg/mL
trichloroethene	000079-01-6	RM00029	50.2 ± 0.3 µg/mL
dibromochloromethane	000124-48-1	07705AN	50.2 ± 0.3 µg/mL
1,2-dibromoethane	000106-93-4	RM00018	50.2 ± 0.3 µg/mL
1,2,3-trichloropropane	000096-18-4	RM02562	50.2 ± 0.3 µg/mL
1,1,2-trichloroethane	000079-00-5	RM02575	50.2 ± 0.3 µg/mL
benzene	000071-43-2	RM03830	50.2 ± 0.3 µg/mL
ethyl methacrylate	000097-63-2	RM04592	50.2 ± 0.3 µg/mL
trans-1,3-dichloropropene	010061-02-6	RM01443	50.2 ± 0.3 µg/mL
bromoform	000075-25-2	RM01801	50.2 ± 0.3 µg/mL
tetrachloroethene	000127-18-4	RM00026	50.2 ± 0.3 µg/mL
toluene	000108-88-3	RM02555	50.2 ± 0.3 µg/mL
1,1,2,2-tetrachloroethane	000079-34-5	RM02540	50.2 ± 0.3 µg/mL
chlorobenzene	000108-90-7	RM01874	50.2 ± 0.3 µg/mL
ethylbenzene	000100-41-4	RM00783	50.2 ± 0.3 µg/mL
styrene	000100-42-5	LR-11228MQ	50.2 ± 0.3 µg/mL
trans-1,4-dichloro-2-butene	000110-57-6	RM04930	50.2 ± 0.3 µg/mL
m-xylene	000108-38-3	RM00053	50.2 ± 0.3 µg/mL

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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Quality Assurance Manager

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Custom Standard

Product Number: CUS-7814 **Page:** 3 of 4

Lot Number: CJ-4366 **Lot Issue Date:** 10-Dec-2012 **Expiration Date:** 31-Jan-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

p-xylene	000106-42-3	RM02647	50.2 ± 0.3 µg/mL
o-xylene	000095-47-6	RM00052	50.2 ± 0.3 µg/mL
1,3-dichlorobenzene	000541-73-1	RM00061	50.2 ± 0.3 µg/mL
1,4-dichlorobenzene	000106-46-7	RM01501	50.2 ± 0.3 µg/mL
1,2-dichlorobenzene	000095-50-1	RM00060	50.2 ± 0.3 µg/mL
bromochloromethane	000074-97-5	RM00009	50.2 ± 0.3 µg/mL
bromobenzene	000108-86-1	RM00056	50.2 ± 0.3 µg/mL
isopropylbenzene	000098-82-8	RM02285	50.2 ± 0.3 µg/mL
n-propylbenzene	000103-65-1	RM02468	50.2 ± 0.3 µg/mL
n-butylbenzene	000104-51-8	RM01802	50.2 ± 0.3 µg/mL
sec-butylbenzene	000135-98-8	RM01800	50.2 ± 0.3 µg/mL
tert-butylbenzene	000098-06-6	RM01814	50.2 ± 0.3 µg/mL
1,2,4-trimethylbenzene	000095-63-6	RM00050	50.2 ± 0.3 µg/mL
1,3,5-trimethylbenzene	000108-67-8	RM02563	50.2 ± 0.3 µg/mL
1,2,3-trichlorobenzene	000087-61-6	RM02563	50.2 ± 0.3 µg/mL
1,2,4-trichlorobenzene	000120-82-1	RM00063	50.2 ± 0.3 µg/mL
1,1-dichloropropene	000563-58-6	RM01234	50.2 ± 0.3 µg/mL
1,3-dichloropropane	000142-28-9	RM02080	50.2 ± 0.3 µg/mL
2,2-dichloropropane	000594-20-7	01104EE	50.2 ± 0.3 µg/mL

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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William J. Leary
Quality Assurance Manager

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

Custom Standard

Product Number: CUS-7814 **Page:** 4 of 4

Lot Number: CJ-4366 **Lot Issue Date:** 10-Dec-2012 **Expiration Date:** 31-Jan-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

2-chlorotoluene	000095-49-8	NT00290	50.2 ± 0.3 µg/mL
4-chlorotoluene	000106-43-4	RM01866	50.2 ± 0.3 µg/mL
4-isopropyltoluene	000099-87-6	RM00046	50.2 ± 0.3 µg/mL
1,2-dibromo-3-chloropropane	000096-12-8	RM02088	50.2 ± 0.3 µg/mL
hexachlorobutadiene	000087-68-3	RM02247	50.1 ± 0.3 µg/mL
1,1,1,2-tetrachloroethane	000630-20-6	RM02567	50.2 ± 0.3 µg/mL
naphthalene	000091-20-3	RM02406	50.2 ± 0.3 µg/mL
methyl acetate	000079-20-9	NT02091	50.2 ± 0.3 µg/mL
methylcyclohexane	000108-87-2	RM04641	50.2 ± 0.3 µg/mL
cyclohexane	000110-82-7	RM01880	50.2 ± 0.3 µg/mL
1,3,5-trichlorobenzene	000108-70-3	RM02554	50.2 ± 0.3 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0861-01
ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

Rec: 1/29/13

Custom Standard

Product Number: CUS-8634 **Page:** 1 of 1

Lot Number: CK-0228 **Lot Issue Date:** 24-Jan-2013 **Expiration Date:** 31-May-2013

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
acrylonitrile	000107-13-1	RM05172	5023 ± 25 µg/mL
acetonitrile	000075-05-8	RM01645	25123 ± 126 µg/mL
acrolein	000107-02-8	RM04210	25123 ± 126 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

VMCUS 8634_ 00008

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

A2LA ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01

ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

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William J. Leary
Quality Assurance Manager

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

6/11/12
TB

VOC Gas Mixture

Product Number: DWM-544 **Page:** 1 of 1

Lot Number: CJ-1658 **Lot Issue Date:** 09-May-2012 **Expiration Date:** 30-Jun-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
bromomethane	000074-83-9	06623AQ	2008 ± 10 µg/mL
chloroethane	000075-00-3	00223KG	2008 ± 10 µg/mL
chloromethane	000074-87-3	07-44048	2008 ± 10 µg/mL
dichlorodifluoromethane	000075-71-8	Q96-67	2007 ± 10 µg/mL
trichlorofluoromethane	000075-69-4	DR-16417BR	2006 ± 10 µg/mL
vinyl chloride	000075-01-4	1201FC10	2008 ± 10 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

VM DWM544 00012

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

A2LA ACCREDITED
ISO 17025:2005
Accredited
A2LA
Cert. No. 0851-01

ISO 9001:2008
Registered
TUV USA, Inc.
Cert. No. 09-1009

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William J. Leary
Quality Assurance Manager

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

12/13/12
TS

2-Chloroethylvinyl Ether Solution

Product Number: EPA-1016 **Page:** 1 of 1

Lot Number: CG-0850A **Lot Issue Date:** 03-May-2012 **Expiration Date:** 30-Jun-2014

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
2-chloroethylvinyl ether	000110-75-8	04606CJ	5015 ± 25 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01
ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

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William J. Leary
Quality Assurance Manager

Certificate of Analysis

RCC'D 5-15-12

ULTRA SCIENTIFIC
Analytical Solutions

Internal Standard Mixture

Product Number: STM-520 **Page:** 1 of 1

Lot Number: CH-3660 **Lot Issue Date:** 15-Nov-2011 **Expiration Date:** 31-Dec-2014

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
chlorobenzene-d5	003114-55-4	RM01430-01	2503 ± 13 µg/mL
1,4-dichlorobenzene-d4	003855-82-1	RM01700-06	2500 ± 13 µg/mL
fluorobenzene	000462-06-6	RM03366-01	2513 ± 13 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

VMSTM520_00016

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01
ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

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William J. Leary
Quality Assurance Manager

Certificate of Analysis

ULTRA SCIENTIFIC
Analytical Solutions

2/15/13
TS

Method 8260 Surrogate Standard Mixture

Product Number: STM-530 **Page:** 1 of 1

Lot Number: CJ-1280 **Lot Issue Date:** 17-Apr-2012 **Expiration Date:** 31-May-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
4-bromofluorobenzene	000460-00-4	RM03908-	2512 ± 13 µg/mL
dibromofluoromethane	001868-53-7	RM04871-01	2512 ± 13 µg/mL
1,2-dichloroethane-d4	017060-07-0	RM04304-	2512 ± 13 µg/mL
toluene-d8	002037-26-5	RM04138-	2512 ± 13 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

A2LA ACCREDITED
ISO 17025:2005
Accredited
A2LA
Cert. No. 0861-01

ISO 9001:2008
Registered
TUV USA, Inc.
Cert. No. 09-1008

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William J. Leary
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Rec 31313

CERTIFICATE OF ANALYSIS

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765217

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **Custom Solution**

Catalog No.: TAPITT-CAL-SPECA-REV

Lot Number: **F2-MEB415031**

Matrix: 3% HNO3(v/v)

2,500 µg/mL ea:
Ca, K, Mg, Na,

1,250 µg/mL ea:
Fe,

25 µg/mL ea:
Al, Mn,

5 µg/mL ea:
Ag, As, Ba, Be, Cd, Co, Cr3, Cu, Ni,
Pb, Se, Sr, Tl, V, Zn

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	25.00 ± 0.18 µg/mL	Arsenic, As	5.000 ± 0.032 µg/mL	Barium, Ba	4.999 ± 0.036 µg/mL
Beryllium, Be	5.002 ± 0.036 µg/mL	Cadmium, Cd	5.000 ± 0.032 µg/mL	Calcium, Ca	2,500 ± 16 µg/mL
Chromium+3, Cr3	5.001 ± 0.032 µg/mL	Cobalt, Co	5.003 ± 0.032 µg/mL	Copper, Cu	5.001 ± 0.032 µg/mL
Iron, Fe	1,250 ± 8 µg/mL	Lead, Pb	5.002 ± 0.032 µg/mL	Magnesium, Mg	2,500 ± 16 µg/mL
Manganese, Mn	25.02 ± 0.15 µg/mL	Nickel, Ni	4.999 ± 0.028 µg/mL	Potassium, K	2,500 ± 16 µg/mL
Selenium, Se	5.002 ± 0.028 µg/mL	Silver, Ag	4.999 ± 0.032 µg/mL	Sodium, Na	2,500 ± 16 µg/mL
Strontium, Sr	5.001 ± 0.032 µg/mL	Thallium, Tl	5.002 ± 0.032 µg/mL	Vanadium, V	4.999 ± 0.032 µg/mL
Zinc, Zn	5.001 ± 0.028 µg/mL				

Certified Density: 1.051 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$

$(\bar{x})$ = mean

x_i = individual results

n = number of measurements

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$

2 = the coverage factor.

$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a NIST SRM/RM. See section 4.2 for balance traceability.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212
Ag	Volhard	999b	999b
Al	ICP Assay	3101a	060502
Al	EDTA	928	928
As	Calculated		See Sec. 4.2
As	ICP Assay	3103a	010713
Ba	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	070222
Be	Calculated		See Sec. 4.2
Be	ICP Assay	3105a	892707
Ca	ICP Assay	3109a	050825
Ca	EDTA	928	928
Cd	ICP Assay	3108	060531
Cd	EDTA	928	928
Co	ICP Assay	3113	00630
Co	EDTA	928	928
Cr3	Calculated		See Sec. 4.2
Cr3	ICP Assay	3112a	030730
Cu	ICP Assay	3114	011017
Cu	EDTA	928	928
Fe	ICP Assay	3126a	051031
Fe	EDTA	928	928
K	Gravimetric		See Sec. 4.2
K	ICP Assay	3141a	051220
Mg	ICP Assay	3131a	050302
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	Gravimetric		See Sec. 4.2
Na	ICP Assay	3152a	010728
Ni	ICP Assay	3136	000612
Ni	EDTA	928	928
Pb	ICP Assay	3128	030721
Pb	EDTA	928	928
Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	992106
Sr	ICP Assay	3153a	990906
Sr	EDTA	928	928
Tl	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706
V	EDTA	928	928
Zn	ICP Assay	3168a	080123
Zn	EDTA	928	928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- SAI Global File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: March 06, 2012

Expiration Date: EXPIRES 01 APR 2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Donna Senn
Product Documentation Technician

Certificate Approved By: Brian Alexander
PhD., Technical Process Director

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

Rec: 31313

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 • 540.585.3030
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765240

is an ISO Guide 34 "General Requirements for the
e Material Producers" and ISO 9001 registered
icturing laboratory is accredited to ISO/IEC 17025
or the Competence of Testing and Calibration

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

Custom Solution

TAPITT-CAL-SPECB

F2-MEB415032

3% HNO3(v/v), tr. HF

Sn, Ti

UNCERTAINTIES

	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
nL	Boron, B	5.000 ± 0.032 µg/mL	Molybdenum, Mo	5.002 ± 0.035 µg/mL
nL	Tin, Sn	5.002 ± 0.041 µg/mL	Titanium, Ti	5.002 ± 0.039 µg/mL

6 g/mL (measured at 20 ± 1° C)

alculation of the certified value and the uncertainty. Reported uncertainties represent expanded
the 95% confidence level using a coverage factor of k = 2.

$(\bar{x})$ = mean

x_i = individual results

n = number of measurements

2 = the coverage factor.

$[\Sigma(s_i)^2]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
B	Calculated		See Sec. 4.2
B	ICP Assay	3107	070514
Mo	Calculated		See Sec. 4.2
Mo	ICP Assay	3134	891307
Sb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102A	061229
Si	Calculated		See Sec. 4.2
Si	ICP Assay	3150	071204
Sn	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	070330
Ti	Calculated		See Sec. 4.2
Ti	ICP Assay	3162a	060808

4.2 **BALANCE CALIBRATION -** All analytical balances are calibrated yearly by an accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION -** All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION -** An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- SAI Global File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: March 06, 2012

Expiration Date: EXPIRES 01 APR 2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Donna Senn
Product Documentation Technician

Certificate Approved By: Brian Alexander
PhD., Technical Process Director

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

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CERTIFICATE OF ANALYSIS

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1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 863.01 ACCREDITED Reference Material Producer Certificate 863.02

2.0 DESCRIPTION OF CRM **10000 µg/mL Aluminum in 7% (v/v) HNO3**

Catalog Number:	CGAL10-1, CGAL10-2, and CGAL10-5
Lot Number:	**F2-AL04115**
Starting Material:	Al ingot
Starting Material Purity (%):	99.9991
Starting Material Lot No:	1629
Matrix:	7% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,041 ± 51 µg/mL - weighted mean

Certified Density: 1.089 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$ ($\bar{x}$) = mean
x_i = individual results
n = number of measurements

Uncertainty (±) = $2\,[\,\Sigma(s_i)^2\,]^{1/2}$ 2 = the coverage factor.
$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **10,039 ± 31 µg/mL**
ICP Assay NIST SRM 3101a Lot Number: 060502

Assay Method #2 **10,043 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

s	Al	M	Dy < 0.036903	O	Li 0.000033	M	Pr < 0.001845	M	Te < 0.184517
M	Sb < 0.003075	M	Er < 0.030753	M	Lu < 0.002460	M	Re < 0.006151	M	Tb < 0.001845
M	As < 0.061506	M	Eu < 0.018452	O	Mg 0.002764	M	Rh < 0.006151	M	Tl < 0.006151
M	Ba < 0.061506	M	Gd < 0.006151	O	Mn 0.000488	M	Rb < 0.006151	M	Th < 0.006151
O	Be < 0.000170	M	Ga < 0.006151	O	Hg < 0.007000	M	Ru < 0.012301	M	Tm < 0.002460
M	Bi 0.006000	M	Ge < 0.036903	M	Mo < 0.012301	M	Sm < 0.006151	M	Sn < 0.030753
O	B 0.001626	M	Au < 0.018452	M	Nd < 0.012301	M	Sc < 0.061506	O	Ti 0.006016
M	Cd < 0.018452	M	Hf < 0.012301	O	Ni 0.001301	M	Se < 0.049205	M	W < 0.061506
O	Ca 0.013495	M	Ho < 0.003075	M	Nb < 0.003075	O	Si 0.048777	M	U < 0.012301
M	Ce < 0.030753	M	In < 0.061506	n	Os	M	Ag < 0.012301	M	V < 0.012301
M	Cs < 0.001845	M	Ir < 0.030753	M	Pd < 0.030753	O	Na 0.022763	M	Yb < 0.006151
O	Cr < 0.001500	O	Fe 0.003252	O	P < 0.030000	M	Sr < 0.003075	M	Y < 0.246023
M	Co < 0.018452	M	La < 0.003075	M	Pt < 0.012301	O	S < 0.100000	O	Zn 0.016259
M	Cu < 0.036903	M	Pb < 0.018452	O	K 0.019511	M	Ta < 0.043054	M	Zr < 0.030753

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4 °C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 26.98154; +3; 6;Al(H2O)6+3

Chemical Compatibility - Soluble in HCl, HNO3, HF and H2SO4. Avoid neutral media. Soluble in strongly basic NaOH forming the Al(OH)4(H2O)21- species. Stable with most metals and inorganic anions. The phosphate is insoluble in water and only slightly soluble in acid.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Al Containing Samples (Preparation and Solution) - Metal (Best dissolved in HCl / HNO3); α- Al2O3 (Na2CO3 fusion in Pt0); γ- Al2O3 (Soluble in acids such as HCl) ; Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (sulfuric/peroxide digestion or nitric / sulfuric / perchloric acid decomposition, or dry ash and dissolution in dilute HCl.

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES394.401 nm	0.05 / 0.006 µg/mL	1	atom	U, Ce
ICP-OES396.152 nm	0.03 / 0.006 µg/mL	1	atom	Mo, Zr, Ce
ICP-OES167.078 nm	0.1 / 0.009 µg/mL	1	ion	Fe
ICP-MS27 amu	30 ppt	n/a	M+	12C15N, 13C14N, 1H12C14N, 11B16O, 54Cr2+, 54Fe2+

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous. Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: June 27, 2012

Expiration Date: EXPIRES 01 DEC 2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Stephan Blaakman Product Documentation Technician	
Certificate Approved By:	Brian Alexander PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

6350560

INORGANIC VENTURES™
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CERTIFICATE OF ANALYSIS

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1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **1000 µg/mL Barium in 0.1% (v/v) HNO3**

Catalog Number:	CGBA1-1, CGBA1-2, and CGBA1-5
Lot Number:	**E2-BA02066**
Starting Material:	Ba(NO3)2
Starting Material Purity (%):	99.9998
Starting Material Lot No:	1514_1599
Matrix:	0.1% (v/v) HNO3

Received 11/12/12 JR

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration:	997 ± 6 µg/mL - weighted mean
Certified Density:	1.000 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$

Uncertainty $(\pm) = \frac{2\,[(\sum s_i)^2]^{1/2}}{(n)^{1/2}}$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1	**Assay Method #1**	**997 ± 4 µg/mL** ICP Assay NIST SRM 3104a Lot Number: 070222
	Assay Method #2	**996 ± 3 µg/mL** Gravimetric NIST SRM Lot Number: See Sec. 4.2

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O Al < 0.000900	M Dy < 0.012010	O Li < 0.004000	M Pr < 0.000601	M Te < 0.060052
M Sb < 0.001001	M Er < 0.010009	M Lu < 0.000801	M Re < 0.002002	O Tb < 0.003900
M As < 0.020017	O Eu < 0.000400	O Mg 0.000130	M Rh < 0.002002	M Tl < 0.002002
s Ba	O Gd < 0.000520	M Mn < 0.008007	M Rb < 0.002002	M Th < 0.002002
M Be < 0.001001	M Ga < 0.002002	O Hg < 0.012000	M Ru < 0.004003	M Tm < 0.000801
M Bi < 0.000801	M Ge < 0.012010	M Mo < 0.004003	O Sm < 0.000710	M Sn < 0.010009
M B < 0.140121	M Au < 0.006005	O Nd < 0.001400	M Sc < 0.020017	M Ti < 0.100087
M Cd < 0.006005	M Hf < 0.004003	O Ni < 0.000900	M Se < 0.016014	M W < 0.020017
O Ca 0.000999	M Ho < 0.001001	M Nb < 0.001001	O Si < 0.003400	M U < 0.004003
M Ce < 0.010009	M In < 0.020017	n Os	M Ag < 0.004003	M V < 0.004003
M Cs < 0.000601	M Ir < 0.010009	M Pd < 0.010009	O Na < 0.010000	M Yb < 0.002002
M Cr < 0.010009	O Fe 0.001149	O P < 0.002600	O Sr 0.001449	O Y < 0.001000
M Co < 0.006005	O La < 0.000200	M Pt < 0.004003	O S < 0.025000	O Zn < 0.000390
M Cu < 0.012010	M Pb < 0.006005	O K < 0.001800	O Ta < 0.006900	M Zr < 0.010009

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 137.33; +2; 6; $Ba(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, iodate, molybdate, sulfite and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1 -10,000 ppm solutions chemically stable for years in 1-3.5% HNO_3 / LDPE container.

Ba Containing Samples (Preparation and Solution) - Metal(is best dissolved in diluted HNO_3); Ores(Carbonate fusion in Pt0 followed by HCl dissolution. If sulfate is present dissolve the fuseate using HCl / tartaric acid to prevent $BaSO_4$ precipitate); Organic Matrices (dry ash and dissolve in dilute HCl.)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 455.403 nm	0.002 / 0.0001 µg/mL	1	ion	Zr, U
ICP-OES 233.527 nm	0.004 / 0.0003 µg/mL	1	ion	
ICP-OES 230.424 nm	0.004 / 0.0005 µg/mL	1	ion	Mo, Ir, Co
ICP-MS 138 amu	1 ppt	n/a	M+	122Sn16O, 122Te16O

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

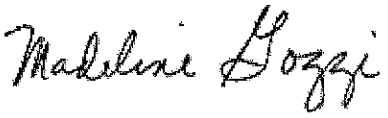
11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: October 31, 2011

Expiration Date: EXPIRES 01 Dec 2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny Product Documentation Technician	
Certificate Approved By:	Madeline Gozzi Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

#424659

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CERTIFICATE OF ANALYSIS

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1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 863.01 — ACCREDITED Reference Material Producer Certificate 863.02

Received 5/24/12 RJR

2.0 DESCRIPTION OF CRM **10000 µg/mL Calcium in 2% (v/v) HNO3**

Catalog Number:	CGCA10-1, CGCA10-2, and CGCA10-5
Lot Number:	**F2-CA04043**
Starting Material:	CaO
Starting Material Purity (%):	99.9980
Starting Material Lot No:	1635
Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration:	10,025 ± 56 µg/mL - weighted mean
Certified Density:	1.039 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean

x_i = individual results

n = number of measurements

Uncertainty (±) = $2\,[\,\Sigma(s_i)^2\,]^{1/2}$ 2 = the coverage factor.

$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **10,026 ± 41 µg/mL**
ICP Assay NIST SRM 3109a Lot Number: 050825

Assay Method #2 **10,022 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Al	< 0.000900	M	Dy	< 0.044386	O	Li	< 0.000024	M	Pr	< 0.002219	M	Te	< 0.221932
M	Sb	< 0.003699	M	Er	< 0.036989	M	Lu	< 0.002959	M	Re	< 0.007398	M	Tb	< 0.002219
M	As	< 0.073977	M	Eu	< 0.022193	O	Mg	0.047315	M	Rh	< 0.007398	M	Tl	< 0.007398
O	Ba	0.004732	M	Gd	< 0.007398	O	Mn	< 0.000300	M	Rb	< 0.007398	M	Th	< 0.007398
O	Be	< 0.000085	M	Ga	< 0.007398	O	Hg	< 0.011000	M	Ru	< 0.014795	M	Tm	< 0.002959
M	Bi	< 0.002959	M	Ge	< 0.044386	M	Mo	< 0.014795	M	Sm	< 0.007398	M	Sn	< 0.036989
O	B	< 0.000540	M	Au	< 0.022193	M	Nd	< 0.014795	O	Sc	< 0.000020	O	Ti	< 0.005000
O	Cd	< 0.004500	M	Hf	< 0.014795	O	Ni	< 0.002300	O	Se	< 0.006200	M	W	< 0.073977
s	Ca		M	Ho	< 0.003699	M	Nb	< 0.003699	O	Si	0.013519	M	U	< 0.014795
M	Ce	< 0.036989	O	In	< 0.002000	n	Os		M	Ag	< 0.014795	O	V	< 0.000900
M	Cs	< 0.002219	M	Ir	< 0.036989	M	Pd	< 0.036989	O	Na	0.021630	M	Yb	< 0.007398
O	Cr	< 0.000800	O	Fe	< 0.001100	O	P	< 0.004800	O	Sr	0.189261	M	Y	< 0.295910
O	Co	< 0.001200	M	La	< 0.003699	M	Pt	< 0.014795	O	S	0.108149	O	Zn	< 0.000190
O	Cu	< 0.004000	M	Pb	< 0.022193	O	K	0.008111	M	Ta	< 0.051784	M	Zr	< 0.036989

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 40.078; +2; 6; $Ca(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl and HNO_3. Avoid H_2SO_4, HF, H_3PO_4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO_3 / LDPE container.

Ca Containing Samples (Preparation and Solution) - Metal (best dissolved in diluted HNO_3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (dry ash and dissolution in dilute HCl. Do not heat when dissolving to avoid precipitation of SiO_2) .The oxide, hydroxide, carbonate, phosphate, and fluoride of calcium are soluble in % levels of HCl or HNO_3. The sulfates (gypsum, anhydrite, etc.), certain silicates and complex compounds require fusion with Na_2CO_3 followed by HCl / water dissolution. Contamination is a very real problem when analyzing for trace levels.

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 393.366 nm	0.0002 / 0.00004 µg/mL	1	ion	U, Ce
ICP-OES 396.847 nm	0.0005 / 0.00006 µg/mL	1	ion	Th
ICP-OES 422.673 nm	0.01 / 0.001 µg/mL	1	atom	Ge
ICP-MS 44 amu	1200 ppt	n/a	M+	16O212C, 28Si16O, 88Sr

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous. Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

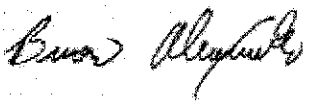
11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: March 12, 2012

Expiration Date:

EXPIRES
01/2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny Product Documentation Technician	
Certificate Approved By:	Brian Alexander PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

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635012

CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM **1000 µg/mL Chromium (+3) in 2% (v/v) HNO3**

Catalog Number:	CGCR(3)1-1, CGCR(3)1-2, and CGCR(3)1-5
Lot Number:	**E2-CR03060**
Starting Material:	Cr pieces
Starting Material Purity (%):	99.9958
Starting Material Lot No:	1604
Matrix:	2% (v/v) HNO3

received 11/20/12 JR

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 998 ± 5 µg/mL - weighted mean

Certified Density: 1.011 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1	**Assay Method #1**	**997 ± 3 µg/mL** ICP Assay NIST SRM 3112a Lot Number: 030730
	Assay Method #2	**998 ± 3 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Al	0.001480	M	Dy < 0.032554	O	Li < 0.000020	M	Pr < 0.001628	M	Te < 0.162771
M	Sb < 0.002713		M	Er < 0.027128	M	Lu < 0.002170	M	Re < 0.005426	M	Tb < 0.001628
M	As < 0.054257		M	Eu < 0.016277	O	Mg < 0.000300	M	Rh < 0.005426	M	Tl < 0.005426
M	Ba < 0.054257		M	Gd < 0.005426	M	Mn < 0.021703	M	Rb < 0.005426	M	Th < 0.005426
M	Be < 0.002713		M	Ga < 0.005426	O	Hg < 0.015000	M	Ru < 0.010851	M	Tm < 0.002170
M	Bi < 0.002170		M	Ge < 0.032554	M	Mo < 0.010851	M	Sm < 0.005426	M	Sn < 0.027128
O	B < 0.010000		M	Au < 0.016277	M	Nd < 0.010851	M	Sc < 0.054257	O	Ti < 0.001000
M	Cd < 0.016277		M	Hf < 0.010851	O	Ni < 0.020000	M	Se < 0.043406	M	W < 0.054257
O	Ca	0.003885	M	Ho < 0.002713	M	Nb < 0.002713	O	Si < 0.200000	M	U < 0.010851
M	Ce < 0.027128		M	In < 0.054257	n	Os	M	Ag < 0.010851	O	V < 0.020000
M	Cs < 0.001628		M	Ir < 0.027128	M	Pd < 0.027128	O	Na 0.004625	M	Yb < 0.005426
s	Cr		O	Fe 0.022572	O	P < 0.040000	M	Sr < 0.002713	M	Y < 0.217028
M	Co < 0.016277		M	La < 0.002713	M	Pt < 0.010851	i	S	O	Zn < 0.004000
M	Cu	0.006023	M	Pb < 0.016277	O	K 0.004070	M	Ta < 0.037980	M	Zr < 0.027128

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 51.9961; +3; 6; $Cr(H_2O)_6^{3+}$

Chemical Compatibility - Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cr Containing Samples (Preparation and Solution) - Metal (soluble in HCl); Oxides/Ores (Chrome ore/oxides are very difficult to dissolve. The following procedures [A-D] are commonly used:

A. Fusion with $KHSO_4$ and extraction with hot KCl. The residue fused with Na_2CO_3 and $KClO_3$, 3:1.
B. Fusion with $NaKSO_4$ and NaF, 2:1.
C. Fusion with magnesia or lime and sodium or potassium carbonates, 4:1.
D. Fusion with Na_2O_2 or NaOH and KNO_3 or NaOH and Na_2O_2.

Nickel, iron, copper, or silver crucibles should be used for **D**. Platinum may be used for **A, B and C**);
Organic Matrices (Ash at 450EC followed by one of the fusion methods above or sulfuric/hydrogen peroxide acid digestions may be applicable to non oxide containing samples) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 205.552 nm	0.006 / 0.0008 µg/mL	1	ion	Os
ICP-OES 284.325 nm	0.008 / 0.0007 µg/mL	1	ion	
ICP-OES 276.654 nm	0.01 / 0.001 µg/mL	1	ion	Cu, Ta, V
ICP-MS 52 amu	40 ppt	n/a	M+	36S16O, 36Ar16O - The 50Cr, 53Cr, 54Cr lines suffer from many more potential interferences from sulfur, chlorine and argon compounds of oxygen, nitrogen and carbon.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

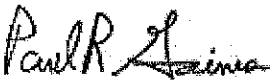
11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: January 13, 2012
Expiration Date: EXPIRES 01 DEC 2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny Product Documentation Technician	
Certificate Approved By:	Brian Alexander PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

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CERTIFICATE OF ANALYSIS

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1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **1000 µg/mL Copper in 3% (v/v) HNO3**

Catalog Number:	CGCU1-1, CGCU1-2, and CGCU1-5
Lot Number:	**E2-CU02130**
Starting Material:	Cu shot
Starting Material Purity (%):	100.0000
Starting Material Lot No:	1612
Matrix:	3% (v/v) HNO3

Received 11/12/12 JR

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 1,002 ± 5 µg/mL - weighted mean

Certified Density: 1.016 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1	**Assay Method #1**	**1,001 ± 3 µg/mL** ICP Assay NIST SRM 3114 Lot Number: 011017
	Assay Method #2	**1,003 ± 3 µg/mL** EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O Al < 0.000900	M Dy < 0.059973	O Li < 0.000020	M Pr < 0.002999	M Te < 0.299865
M Sb < 0.004998	M Er < 0.049978	M Lu < 0.003998	M Re < 0.009996	M Tb < 0.002999
M As < 0.099955	M Eu < 0.029987	O Mg < 0.000030	M Rh < 0.009996	M Tl < 0.009996
M Ba < 0.099955	M Gd < 0.009996	O Mn < 0.000200	M Rb < 0.009996	M Th < 0.009996
M Be < 0.004998	M Ga < 0.009996	O Hg < 0.015000	M Ru < 0.019991	M Tm < 0.003998
M Bi < 0.003998	M Ge < 0.059973	M Mo < 0.019991	M Sm < 0.009996	O Sn < 0.004000
M B < 0.699685	M Au < 0.029987	M Nd < 0.019991	M Sc < 0.099955	M Ti < 0.499775
M Cd < 0.029987	M Hf < 0.019991	O Ni < 0.003000	M Se < 0.079964	M W < 0.099955
O Ca 0.000040	M Ho < 0.004998	M Nb < 0.004998	O Si < 0.003400	M U < 0.019991
M Ce < 0.049978	M In < 0.099955	n Os	M Ag < 0.019991	O V < 0.003000
M Cs < 0.002999	M Ir < 0.049978	M Pd < 0.049978	O Na 0.000060	M Yb < 0.009996
M Cr < 0.049978	O Fe < 0.001100	O P < 0.002600	M Sr < 0.004998	M Y < 0.399820
M Co < 0.029987	M La < 0.004998	M Pt < 0.019991	n S	O Zn < 0.010000
s Cu	O Pb < 0.010000	O K < 0.001800	M Ta < 0.069969	M Zr < 0.049978

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 63.546; +2; 6; $Cu(H_2O)_6^{2+}$

Chemical Compatibility - Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cu Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 324.754 nm	0.06/.001 µg/mL		atom	Nb, U, Th, Mo, Hf
ICP-OES 224.700 nm	0.01/.001µg/mL	1	ion	Pb, Ir, Ni, W
ICP-OES 219.958 nm	0.01/.002 µg/mL	1	atom	Th, Ta, Nb, U, Hf
ICP-MS 63 amu	10 ppt	n/a	M+	40Ar23Na 47Ti16O, 14N12C37Cl, 16O12C35Cl, 23Na40Ca

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: November 18, 2011

Expiration Date: EXPIRES 01 DEC 2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny Product Documentation Technician	
Certificate Approved By:	Brian Alexander PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

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CERTIFICATE OF ANALYSIS

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1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 663.01 ACCREDITED Reference Material Producer Certificate 663.02

Ron Rowland
RECEIVED
5/29/12

2.0 DESCRIPTION OF CRM **10000 µg/mL Iron in 5% (v/v) HNO3**

Catalog Number:	CGFE10-1, CGFE10-2, and CGFE10-5
Lot Number:	**E2-FE03145**
Starting Material:	Fe powder
Starting Material Purity (%):	99.9983
Starting Material Lot No:	1618
Matrix:	5% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,032 ± 54 µg/mL - weighted mean

Certified Density: 1.053 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **10,023 ± 38 µg/mL**
ICP Assay NIST SRM 3126a Lot Number: 051031

Assay Method #2 **10,052 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O Al < 0.002700	M Dy < 0.039911	O Li < 0.000030	M Pr < 0.001996	M Te < 0.199556
M Sb < 0.003326	M Er < 0.033259	M Lu < 0.002661	M Re < 0.006652	M Tb < 0.001996
M As < 0.066519	M Eu < 0.019956	O Mg < 0.000060	M Rh < 0.006652	M Tl < 0.006652
O Ba < 0.000100	M Gd < 0.006652	O Mn 0.054322	M Rb < 0.006652	M Th < 0.006652
O Be < 0.000050	M Ga < 0.006652	O Hg < 0.011000	M Ru < 0.013304	M Tm < 0.002661
M Bi < 0.002661	i Ge	M Mo < 0.013304	M Sm < 0.006652	M Sn < 0.033259
O B < 0.020000	M Au < 0.019956	M Nd < 0.013304	M Sc < 0.066519	M Ti < 0.332594
M Cd < 0.019956	M Hf < 0.013304	O Ni 0.055831	M Se < 0.053215	M W < 0.066519
O Ca 0.004527	M Ho < 0.003326	M Nb < 0.003326	O Si < 0.010000	M U < 0.013304
M Ce < 0.033259	M In < 0.066519	n Os	M Ag < 0.013304	M V < 0.013304
M Cs < 0.001996	M Ir < 0.033259	M Pd < 0.033259	O Na 0.004678	M Yb < 0.006652
M Cr < 0.033259	s Fe	i P	M Sr < 0.003326	M Y < 0.266075
O Co 0.057340	M La < 0.003326	M Pt < 0.013304	i S	M Zn < 0.133038
M Cu < 0.039911	M Pb < 0.019956	O K < 0.001700	M Ta < 0.046563	M Zr < 0.033259

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 55.847; +3; 6; $Fe(H_2O)_6^{3+}$

Chemical Compatibility - Stable in HCl, HNO_3, H_2SO_4 ,HF and H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Fe Containing Samples (Preparation and Solution) - Metal (Soluble in HCl); Oxides (If the oxide has been at a high temperature then Na_2CO_3 fusion in Pt0 followed by HCl dissolution otherwise dissolve in dilute HCl); Ores (See Oxides above using only the fusion approach).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 238.204 nm	0.005 / 0.001 µg/mL	1	ion	Ru, Co
ICP-OES 239.562 nm	0.005 / 0.001 µg/mL	1	ion	Co, W, Cr
ICP-OES 259.940 nm	0.006 / 0.001 µg/mL	1	ion	Hf, Nb
ICP-MS 56 amu	970 ppt	n/a	M+	40Ar15N1H, 40Ar16O, 36Ar17O1H , 38Ar18O, 37Cl18O1H, 40Ca16O

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI Certificate Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

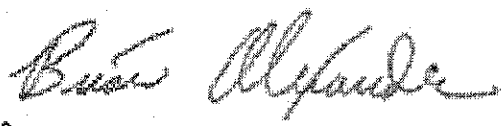
11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: January 16, 2012
Expiration Date:

EXPIRES
01/2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny, Product Documentation Technician	
Certificate Approved By:	Brian Alexander, PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines, PhD., Senior Technical Director	

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381729

CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **10000 µg/mL Potassium in 2% (v/v) HNO3**

Catalog Number:	CGK10-1, CGK10-2, and CGK10-5
Lot Number:	**F2-K03029**
Starting Material:	KNO3
Starting Material Purity (%):	99.9981
Starting Material Lot No:	B19P01
Matrix:	2% (v/v) HNO3

Received 4/17/12

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 9,979 ± 55 µg/mL - weighted mean

Certified Density: 1.024 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
2 = the coverage factor.
$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **9,981 ± 40 µg/mL**
ICP Assay NIST SRM 3141a Lot Number: 051220

Assay Method #2 **9,971 ± 18 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O Al < 0.000900	M Dy < 0.037817	O Li 0.000065	M Pr < 0.001891	M Te < 0.189084
M Sb < 0.003151	M Er < 0.031514	M Lu < 0.002521	M Re < 0.006303	M Tb < 0.001891
M As < 0.063028	M Eu < 0.018908	O Mg 0.001032	M Rh < 0.006303	M Tl < 0.006303
O Ba 0.000055	M Gd < 0.006303	O Mn 0.000161	M Rb 0.416797	M Th < 0.006303
O Be < 0.000200	M Ga < 0.006303	O Hg < 0.015000	M Ru < 0.012606	M Tm < 0.002521
M Bi < 0.002521	O Ge < 0.001500	M Mo < 0.012606	M Sm < 0.006303	M Sn < 0.031514
O B < 0.000600	O Au < 0.003000	M Nd < 0.012606	O Sc < 0.000100	O Ti < 0.000700
M Cd < 0.018908	M Hf < 0.012606	O Ni 0.000806	O Se < 0.050000	M W < 0.063028
O Ca 0.003548	M Ho < 0.003151	M Nb < 0.003151	O Si < 0.003400	M U < 0.012606
M Ce < 0.031514	M In < 0.063028	n Os	M Ag < 0.012606	O V < 0.000900
M Cs < 0.001891	M Ir < 0.031514	M Pd < 0.031514	O Na 0.051613	M Yb < 0.006303
M Cr < 0.031514	O Fe 0.000500	O P < 0.002500	M Sr < 0.003151	M Y < 0.252111
M Co < 0.018908	M La < 0.003151	M Pt < 0.012606	O S < 0.072000	O Zn 0.000403
M Cu < 0.037817	M Pb < 0.018908	s K	M Ta < 0.044119	M Zr < 0.031514

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 39.0983; +1; (6); K+(aq)
(Coordination Number in parentheses is assumed, not certain.)

Chemical Compatibility - Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Avoid use of HClO4 due to insolubility of the perchlorate. Stable with all metals and inorganic anions except ClO4-.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

K Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Sodium carbonate fusion in Pt0 followed by HCl dissolution-blank levels of K in sodium carbonate critical); Organic Matrices (Sulfuric/peroxide digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 766.490 nm	0.4 / 0.001 µg/mL	1	atom	2nd order radiation from R.E.s on some optical designs
ICP-OES 771.531 nm	1.0 / 0.03 µg/mL	1	atom	2nd order radiation from R.E.s on some optical designs
ICP-OES 404.721 nm	1.1 / 0.05 µg/mL	1	atom	U, Ce,
ICP-MS 39 amu	10 ppt	n/a	M+	38ArH, 23Na16O, 78Se

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous. Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: March 29, 2012
Expiration Date:

EXPIRES
01-2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny, Product Documentation Technician	
Certificate Approved By:	Brian Alexander, PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines, PhD., Senior Technical Director	

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CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM **10000 µg/mL Magnesium in 2% (v/v) HNO3**

Catalog Number:	CGMG10-1, CGMG10-2, and CGMG10-5
Lot Number:	**E2-MG03106**
Starting Material:	Mg metal
Starting Material Purity (%):	99.9998
Starting Material Lot No:	1484
Matrix:	2% (v/v) HNO3

Received 11/12/12 JR

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,000 ± 54 µg/mL - weighted mean

Certified Density: 1.053 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$

Uncertainty $(\pm) = \frac{2\,[(\sum s_i)^2]^{1/2}}{(n)^{1/2}}$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1	Assay Method #1	**9,999 ± 38 µg/mL** ICP Assay NIST SRM 3131a Lot Number: 050302
	Assay Method #2	**10,001 ± 26 µg/mL** EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O Al < 0.000600	M Dy < 0.022339	O Li 0.011947	M Pr < 0.001117	M Te < 0.111693
M Sb < 0.001862	M Er < 0.018615	M Lu < 0.001489	M Re < 0.003723	M Tb < 0.001117
M As < 0.037231	M Eu < 0.011169	s Mg	M Rh < 0.003723	M Tl < 0.003723
M Ba < 0.037231	M Gd < 0.003723	O Mn < 0.000024	M Rb < 0.003723	M Th < 0.003723
O Be < 0.000170	M Ga < 0.003723	O Hg < 0.009000	M Ru < 0.007446	M Tm < 0.001489
M Bi < 0.001489	M Ge < 0.022339	M Mo < 0.007446	M Sm < 0.003723	M Sn < 0.018615
O B < 0.003000	M Au < 0.011169	M Nd < 0.007446	M Sc < 0.037231	O Ti < 0.001100
M Cd < 0.011169	M Hf < 0.007446	O Ni < 0.002700	M Se < 0.029785	M W < 0.037231
O Ca 0.003982	M Ho < 0.001862	M Nb < 0.001862	O Si < 0.006000	M U < 0.007446
M Ce < 0.018615	M In < 0.037231	n Os	M Ag < 0.007446	M V < 0.007446
M Cs < 0.001117	M Ir < 0.018615	M Pd < 0.018615	O Na 0.011947	M Yb < 0.003723
O Cr < 0.000300	O Fe < 0.001600	O P < 0.016000	M Sr < 0.001862	M Y < 0.148924
M Co < 0.011169	M La < 0.001862	M Pt < 0.007446	n S	O Zn < 0.000900
O Cu < 0.004000	M Pb 0.004942	O K < 0.050000	M Ta < 0.026062	M Zr < 0.018615

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 24.305; +2; 6; $Mg(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, HNO_3, and H_2SO_4 avoid HF, H_3PO_4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicates, carbonates, hydroxides, oxides, and tungstates in neutral and slightly acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO_3 / LDPE container.

Mg Containing Samples (Preparation and Solution) - Metal (Best dissolved in diluted HNO_3); Oxide (Readily soluble in above compatible aqueous acidic solutions); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric / peroxide digestion or nitric / sulfuric / perchloric acid decomposition, or dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 279.553 nm	0.0002 / 0.00003 µg/mL	1	ion	Th
ICP-OES 280.270 nm	0.0003 / 0.00005 µg/mL	1	ion	U, V
ICP-OES 285.213 nm	0.002 / 0.00003 µg/mL	1	atom	U, Hf, Cr, Zr
ICP-MS 24 amu	42 ppt	n/a	M+	$^{7}Li^{17}O$, $^{48}Ti^{+2}$, $^{48}Ca^{+2}$

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

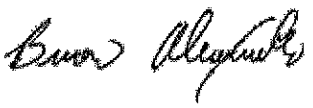
11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: November 30, 2011

Expiration Date: EXPIRES 01 DEC 2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny Product Documentation Technician	
Certificate Approved By:	Brian Alexander PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

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CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM **1000 µg/mL Manganese in 3% (v/v) HNO3**

Catalog Number:	CGMN1-1, CGMN1-2, and CGMN1-5
Lot Number:	**E2-MN02093**
Starting Material:	Mn pieces
Starting Material Purity (%):	99.9940
Starting Material Lot No:	1573
Matrix:	3% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 999 ± 5 µg/mL - weighted mean

Certified Density: 1.017 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **998 ± 3 µg/mL**
ICP Assay NIST SRM 3132 Lot Number: 050429

Assay Method #2 **1,000 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

4.2 BALANCE CALIBRATION - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 THERMOMETER CALIBRATION - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 GLASSWARE CALIBRATION - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Al	0.000806	M	Dy	< 0.049987	O	Li	< 0.000020	M	Pr	< 0.002499	M	Te	< 0.249933
M	Sb	< 0.004166	M	Er	< 0.041656	M	Lu	< 0.003332	M	Re	< 0.008331	M	Tb	< 0.002499
M	As	< 0.083311	M	Eu	< 0.024993	O	Mg	0.041735	M	Rh	< 0.008331	M	Tl	< 0.008331
M	Ba	< 0.083311	M	Gd	< 0.008331	s	Mn		M	Rb	< 0.008331	M	Th	< 0.008331
M	Be	< 0.004166	O	Ga	< 0.050000	i	Hg		M	Ru	< 0.016662	M	Tm	< 0.003332
M	Bi	< 0.003332	O	Ge	< 0.003000	M	Mo	< 0.016662	M	Sm	< 0.008331	M	Sn	< 0.041656
O	B	0.002646	M	Au	< 0.024993	M	Nd	< 0.016662	M	Sc	< 0.083311	O	Ti	< 0.002000
M	Cd	< 0.024993	M	Hf	< 0.016662	M	Ni	< 0.066649	M	Se	< 0.066649	M	W	< 0.083311
O	Ca	0.003247	M	Ho	< 0.004166	M	Nb	< 0.004166	O	Si	< 0.050000	M	U	< 0.016662
M	Ce	< 0.041656	M	In	< 0.083311	n	Os		M	Ag	< 0.016662	M	V	< 0.016662
M	Cs	< 0.002499	M	Ir	< 0.041656	M	Pd	< 0.041656	O	Na	0.006375	M	Yb	< 0.008331
M	Cr	0.004208	O	Fe	< 0.010000	i	P		M	Sr	< 0.004166	M	Y	< 0.333244
M	Co	0.001804	M	La	< 0.004166	M	Pt	< 0.016662	i	S		O	Zn	< 0.000600
M	Cu	< 0.049987	M	Pb	< 0.024993	O	K	0.000842	M	Ta	< 0.058318	M	Zr	< 0.041656

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of “working reference samples”
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.
Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 54.9380; +2; **6**; Mn(H2O)62+
Chemical Compatibility - Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO3/LDPE container.
Mn Containing Samples (Preparation and Solution) - Metal (Soluble in dilute acids); Oxides (Soluble in dilute acids); Ores (Dissolve with HCl. If silica is present add HF and then fume off silica by adding H2SO4 and heat to SO3 fumes - dense white fumes).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 257.610 nm	0.0014 / 0.00002 µg/mL	1	ion	Ce, W, Re
ICP-OES 259.373 nm	0.0016 / 0.00002 µg/mL	1	ion	U, Ta, Mo, Fe, Nb
ICP-OES 260.569 nm	0.0021 / 0.00002 µg/mL	1	ion	Co
ICP-MS 55 amu	10 ppt	n/a	M+	40Ar14N1H, 39K16O, 37Cl18O, 40Ar15N, 38Ar17O, 36Ar18O1H , 38Ar16O1H, 37Cl17O1H, 23Na32S

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: January 03, 2012
Expiration Date:

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny, Product Documentation Technician	
Certificate Approved By:	Brian Alexander, PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines, PhD., Senior Technical Director	

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300 Technology Drive
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CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
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1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 DESCRIPTION OF CRM **10000 µg/mL Sodium in 2% (v/v) HNO3**

Catalog Number:	CGNA10-1, CGNA10-2, and CGNA10-5
Lot Number:	**E2-NA03095**
Starting Material:	Na2CO3
Starting Material Purity (%):	99.9994
Starting Material Lot No:	C18157
Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 9,986 ± 55 µg/mL - weighted mean

Certified Density: 1.033 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **9,983 ± 39 µg/mL**
ICP Assay NIST SRM 3152a Lot Number: 010728

Assay Method #2 **9,998 ± 18 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

4.2 BALANCE CALIBRATION - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 THERMOMETER CALIBRATION - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 GLASSWARE CALIBRATION - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Al	0.002434	M	Dy	< 0.051831	O	Li	< 0.000030	M	Pr	< 0.002592	M	Te	< 0.259157
M	Sb	< 0.004319	M	Er	< 0.043193	M	Lu	< 0.003455	M	Re	< 0.008639	M	Tb	< 0.002592
M	As	< 0.086386	M	Eu	< 0.025916	O	Mg	0.003361	M	Rh	< 0.008639	M	Tl	< 0.008639
O	Ba	0.001043	M	Gd	< 0.008639	O	Mn	< 0.000030	M	Rb	< 0.008639	M	Th	< 0.008639
O	Be	< 0.000200	M	Ga	< 0.008639	O	Hg	< 0.015000	M	Ru	< 0.017277	M	Tm	< 0.003455
M	Bi	< 0.003455	O	Ge	< 0.001500	M	Mo	< 0.017277	M	Sm	< 0.008639	M	Sn	< 0.043193
O	B	< 0.000600	M	Au	< 0.025916	M	Nd	< 0.017277	O	Sc	< 0.000020	O	Ti	< 0.000700
M	Cd	< 0.025916	M	Hf	< 0.017277	O	Ni	< 0.002300	O	Se	< 0.050000	M	W	< 0.086386
O	Ca	0.026656	M	Ho	< 0.004319	M	Nb	< 0.004319	O	Si	0.008113	M	U	< 0.017277
M	Ce	< 0.043193	M	In	< 0.086386	n	Os		M	Ag	< 0.017277	O	V	< 0.000900
M	Cs	< 0.002592	M	Ir	< 0.043193	M	Pd	< 0.043193	S	Na		M	Yb	< 0.008639
M	Cr	< 0.043193	O	Fe	< 0.001100	O	P	< 0.040000	O	Sr	0.000174	M	Y	< 0.345543
M	Co	< 0.025916	M	La	< 0.004319	M	Pt	< 0.017277	O	S	< 0.072000	O	Zn	0.000116
O	Cu	< 0.001400	M	Pb	< 0.025916	O	K	0.023179	M	Ta	< 0.060470	M	Zr	< 0.043193

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of “working reference samples”
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 22.98977; +1; (6); Na+(aq) largely ionic in nature (Coordination Number in parentheses is assumed, not certain.)

Chemical Compatibility - Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Na Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Lithium carbonate fusion in graphite crucible followed by HCl dissolution - blank levels of Na in lithium carbonate critical); Organic Matrices (Sulfuric / peroxide digestion or nitric/sulfuric/perchloric acid decomposition).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 589.595 nm	0.07 / 0.00009 µg/mL	1	atom	2nd order radiation from R.E.s on some optical designs
ICP-OES 588.995 nm	0.03 / 0.006 µg/mL	1	atom	2nd order radiation from R.E.s on some optical designs
ICP-OES 330.237 nm	2.0 / 0.09 µg/mL	1	atom	Pd, Zn
ICP-MS 23 amu	310 ppt	n/a	M+	46Ti+2 , 46Ca+2

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI Certificate Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: December 12, 2011

Expiration Date:

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny, Product Documentation Technician	
Certificate Approved By:	Brian Alexander, PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines, PhD., Senior Technical Director	

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CERTIFICATE OF ANALYSIS

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1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **1000 µg/mL Nickel in 2% (v/v) HNO3**

Catalog Number:	CGNI1-1, CGNI1-2, and CGNI1-5
Lot Number:	**E2-NI02074**
Starting Material:	Ni pieces
Starting Material Purity (%):	99.9998
Starting Material Lot No:	1559
Matrix:	2% (v/v) HNO3

Received 11/12/12 JR

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 1,003 ± 5 µg/mL - weighted mean

Certified Density: 1.011 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$

Uncertainty $(\pm) = \frac{2\,[(\sum s_i)^2]^{1/2}}{(n)^{1/2}}$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1	**Assay Method #1**	**1,002 ± 3 µg/mL** ICP Assay NIST SRM 3136 Lot Number: 000612
	Assay Method #2	**1,003 ± 3 µg/mL** EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Al	< 0.003000	M	Dy	< 0.070404	O	Li	< 0.000020	M	Pr	< 0.003520	M	Te	< 0.352022
M	Sb	< 0.005867	M	Er	< 0.058670	M	Lu	< 0.004694	M	Re	< 0.011734	M	Tb	< 0.003520
O	As	< 0.005400	M	Eu	< 0.035202	O	Mg	0.000033	M	Rh	< 0.011734	M	Tl	< 0.011734
M	Ba	< 0.117341	M	Gd	< 0.011734	M	Mn	< 0.046936	M	Rb	< 0.011734	M	Th	< 0.011734
O	Be	< 0.002000	M	Ga	< 0.011734	O	Hg	< 0.011000	M	Ru	< 0.023468	M	Tm	< 0.004694
M	Bi	< 0.004694	M	Ge	< 0.070404	M	Mo	< 0.023468	M	Sm	< 0.011734	M	Sn	< 0.058670
O	B	< 0.009900	M	Au	< 0.035202	M	Nd	< 0.023468	M	Sc	< 0.117341	M	Ti	< 0.586704
M	Cd	< 0.035202	M	Hf	< 0.023468	s	Ni		O	Se	< 0.006000	M	W	< 0.117341
O	Ca	0.000327	M	Ho	< 0.005867	M	Nb	< 0.005867	O	Si	< 0.003400	M	U	< 0.023468
M	Ce	< 0.058670	M	In	< 0.117341	n	Os		M	Ag	< 0.023468	M	V	< 0.023468
M	Cs	< 0.003520	M	Ir	< 0.058670	M	Pd	< 0.058670	O	Na	0.000435	M	Yb	< 0.011734
M	Cr	< 0.058670	O	Fe	0.000762	O	P	< 0.100000	M	Sr	< 0.005867	M	Y	< 0.469363
O	Co	< 0.002000	M	La	< 0.005867	M	Pt	< 0.023468	O	S	< 0.025000	M	Zn	< 0.234682
M	Cu	< 0.070404	M	Pb	< 0.035202	O	K	0.000163	M	Ta	< 0.082139	M	Zr	< 0.058670

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.69; +2; 6; $Ni(H_2O)_6^{2+}$

Chemical Compatibility - Stable in HCl, HNO_3, H_2SO_4 ,HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Ni Containing Samples (Preparation and Solution) - Metal (Soluble in HNO_3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 221.647 nm	0.01 / 0.0009 µg/mL	1	ion	Si
ICP-OES 232.003 nm	0.02 / 0.006 µg/mL	1	atom	Cr, Re, Os, Nb, Ag, Pt, Fe
ICP-OES 231.604 nm	0.02 / 0.002 µg/mL	1	ion	Sb, Ta, Co
ICP-MS 60 amu	100 ppt	n/a	M+	43Ca16O1H , 44Ca16O, 23Na37Cl

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: February 10, 2012

Expiration Date: EXPIRES 01 DEC 2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny Product Documentation Technician	
Certificate Approved By:	Brian Alexander PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

INORGANIC VENTURES™
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381731

CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0	**DESCRIPTION OF CRM**	**1000 µg/mL Lead in 0.5% (v/v) HNO3**
	Catalog Number:	CGPB1-1, CGPB1-2, and CGPB1-5
	Lot Number:	**F2-PB03035**
	Starting Material:	Pb(NO3)2
	Starting Material Purity (%):	99.9998
	Starting Material Lot No:	1717
	Matrix:	0.5% (v/v) HNO3

Received 4/17/12

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,001 ± 5 µg/mL - weighted mean

Certified Density: 1.002 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1	Assay Method #1	**1,000 ± 3 µg/mL**
		ICP Assay NIST SRM 3128 Lot Number: 101026
	Assay Method #2	**1,002 ± 3 µg/mL**
		EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Al	0.000477	M	Dy	< 0.017590	O	Li	0.000136	M	Pr	< 0.000880	M	Te	< 0.087952
M	Sb	< 0.001466	M	Er	< 0.014659	M	Lu	< 0.001173	M	Re	< 0.002932	M	Tb	< 0.000880
M	As	< 0.029317	M	Eu	< 0.008795	O	Mg	0.000102	O	Rh	< 0.009000	O	Tl	< 0.022000
O	Ba	0.000545	M	Gd	< 0.002932	M	Mn	< 0.011727	M	Rb	< 0.002932	M	Th	< 0.002932
M	Be	< 0.001466	M	Ga	< 0.002932	O	Hg	< 0.015000	M	Ru	< 0.005863	M	Tm	< 0.001173
O	Bi	< 0.020000	M	Ge	< 0.017590	M	Mo	< 0.005863	M	Sm	< 0.002932	M	Sn	< 0.014659
O	B	< 0.040000	M	Au	< 0.008795	M	Nd	< 0.005863	M	Sc	< 0.029317	M	Ti	< 0.146587
M	Cd	< 0.008795	M	Hf	< 0.005863	O	Ni	< 0.003000	M	Se	< 0.023454	M	W	< 0.029317
O	Ca	0.000682	M	Ho	< 0.001466	M	Nb	< 0.001466	O	Si	< 0.003400	M	U	< 0.005863
M	Ce	< 0.014659	M	In	< 0.029317	n	Os		M	Ag	< 0.005863	M	V	< 0.005863
M	Cs	< 0.000880	M	Ir	< 0.014659	M	Pd	< 0.014659	O	Na	< 0.006000	M	Yb	< 0.002932
M	Cr	< 0.014659	O	Fe	0.000545	O	P	< 0.005000	O	Sr	0.000204	M	Y	< 0.117270
M	Co	< 0.008795	M	La	< 0.001466	M	Pt	< 0.005863	O	S	< 0.100000	O	Zn	< 0.000200
M	Cu	< 0.017590	s	Pb		O	K	< 0.001800	M	Ta	< 0.020522	M	Zr	< 0.014659

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 207.2; +2; 6; $Pb(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, HF and HNO_3. Avoid H_2SO_4. Stable with most metals and inorganic anions forming insoluble carbonate, borate, sulfate, sulfite, sulfide, phosphate, oxalate, chromate, tannate, iodate, and cyanide in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO_3 / LDPE container.

Pb Containing Samples (Preparation and Solution) - Metal (Best dissolved in 1:1 H_2O / HNO_3); Oxides (The many different Pb oxides are soluble in HNO_3 with the exception of PbO_2 which is soluble in HCl or HF); Ores and Alloys (Best attacked using 1:1 H_2O / HNO_3); Organic Matrices (Dry ash and dissolve in dilute HCl.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 168.215 nm	0.03 / 0.003 µg/mL	1	ion	Co
ICP-OES 220.353 nm	0.04 / 0.006 µg/mL	1	ion	Bi, Nb
ICP-OES 217.000 nm	0.09 / 0.03 µg/mL	1	atom	W, Ir, Hf, Sb, Th
ICP-MS 208 amu	5 ppt	n/a	M+	192Pt16O, 192Os16O

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI Certificate Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: February 10, 2012

Expiration Date:

EXPIRES
01/2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny, Product Documentation Technician	
Certificate Approved By:	Brian Alexander, PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines, PhD., Senior Technical Director	

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CERTIFICATE OF ANALYSIS

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1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **1000 µg/mL Zinc in 2% (v/v) HNO3**

Catalog Number:	CGZN1-1, CGZN1-2, and CGZN1-5
Lot Number:	**F2-ZN02075**
Starting Material:	Zn shot
Starting Material Purity (%):	99.9999
Starting Material Lot No:	1676 1677
Matrix:	2% (v/v) HNO3

Received 11/12/12 JR

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 1,000 ± 5 µg/mL - weighted mean

Certified Density: 1.007 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$

Uncertainty $(\pm) = \frac{2\,[(\sum s_i)^2]^{1/2}}{(n)^{1/2}}$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
$\sum s_i$ = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **998 ± 3 µg/mL**
ICP Assay NIST SRM 3168a Lot Number: 080123

Assay Method #2 **1,001 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O Al < 0.007000	M Dy < 0.031427	O Li < 0.000030	M Pr < 0.001571	M Te < 0.157134
M Sb < 0.002619	M Er < 0.026189	M Lu < 0.002095	M Re < 0.005238	M Tb < 0.001571
M As < 0.052378	M Eu < 0.015713	M Mg 0.000330	M Rh < 0.005238	M Tl 0.000020
M Ba < 0.052378	M Gd < 0.005238	O Mn < 0.000300	M Rb < 0.005238	M Th < 0.005238
M Be < 0.002619	M Ga < 0.005238	O Hg < 0.010000	M Ru < 0.010476	M Tm < 0.002095
M Bi < 0.002095	M Ge < 0.031427	M Mo < 0.010476	M Sm < 0.005238	M Sn < 0.026189
O B < 0.001000	M Au < 0.015713	M Nd < 0.010476	M Sc < 0.052378	M Ti < 0.261891
M Cd < 0.015713	M Hf < 0.010476	O Ni < 0.000900	M Se < 0.041903	M W < 0.052378
O Ca 0.000134	M Ho < 0.002619	M Nb < 0.002619	O Si < 0.004000	M U < 0.010476
M Ce < 0.026189	M In < 0.052378	n Os	M Ag < 0.010476	M V < 0.010476
M Cs < 0.001571	M Ir < 0.026189	M Pd < 0.026189	O Na 0.000153	M Yb < 0.005238
O Cr < 0.001000	O Fe < 0.001000	O P < 0.003000	M Sr < 0.002619	M Y < 0.209513
M Co < 0.015713	M La < 0.002619	M Pt < 0.010476	O S < 0.020000	s Zn
O Cu < 0.000500	M Pb < 0.015713	O K < 0.003000	M Ta < 0.036665	M Zr < 0.026189

M - Checked by ICP-MS O - Checked by ICP-OES I - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± °4C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 65.39; +2; 4; Zn(OH)(aq)1+

Chemical Compatibility - Stable in HCl, HNO3, H2SO4 ,HF, H3PO4 Avoid basic media that promotes the formation of insoluble carbonate and hydroxide. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Zn Containing Samples (Preparation and Solution) - Metal (Soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl /HNO3); Organic based (Dry ash at 450EC and dissolve ash in HCl) (Sulfuric/peroxide acid digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 213.856 nm	0.002 / 0.0004 µg/mL	1	atom	Ni, Cu, V
ICP-OES 202.548 nm	0.004 / 0.0002 µg/mL	1	ion	Nb, Cu, Co, Hf
ICP-OES 206.200 nm	0.006 / 0.0006 µg/mL	1	ion	Sb, Ta, Bi, Os
ICP-MS 66 amu	7 ppt	n/a	M+	50Ti16O,50Cr16O, 50V16O, 34S16O2, 32S16O18O, 32S17O2, 33S16O17O, 32S34S, 33S2

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: February 13, 2012

Expiration Date: EXPIRES: 01 Dec 2013

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Danny Feeny Product Documentation Technician	
Certificate Approved By:	Brian Alexander PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

Reference Materials Producer
Cert #2495.01

SPEXertificate®

Certificate of Reference Material

Chemical Testing
Cert #2495.02

Catalog Number: ZCAL-60-250 **Lot No.** 17-147CR

Description: Custom Claritas Standard

Matrix: 5% HNO_3 / Tr. Tart. Acid / Tr. HF

This CLARITAS PPT® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for inorganic spectroscopic instrumentation such as ICP-OES, DCP, AA, ICP-MS, and XRF. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

The CRM is prepared from high purity single element concentrates of individual elements using Class A laboratory ware to give precise concentrations.

Instrumental Analysis by ICP Spectrometer:

Analyte	Labeled	Uncertainty	SRM	Analyte	Labeled	Uncertainty	SRM
Ca	1000 mg/L	±5 mg/L	3109a*	Co	2 mg/L	±0.01 mg/L	3113*
K	1000 mg/L	±5 mg/L	3141a*	Cr	2 mg/L	±0.01 mg/L	3112a*
Mg	1000 mg/L	±5 mg/L	3131a*	Cu	2 mg/L	±0.01 mg/L	3114*
Na	1000 mg/L	±5 mg/L	3152a*	Mo	2 mg/L	±0.01 mg/L	3134*
Fe	500 mg/L	±3 mg/L	3126a*	Ni	2 mg/L	±0.01 mg/L	3136*
Si	100 mg/L	±0.5 mg/L	3150*	Pb	2 mg/L	±0.01 mg/L	3128*
Al	10 mg/L	±0.05 mg/L	3101a*	Sb	2 mg/L	±0.01 mg/L	3102a*
Mn	10 mg/L	±0.05 mg/L	3132*	Se	2 mg/L	±0.01 mg/L	3149*
Ag	2 mg/L	±0.01 mg/L	3151*	Sn	2 mg/L	±0.01 mg/L	3161a*
As	2 mg/L	±0.01 mg/L	3103a*	Sr	2 mg/L	±0.01 mg/L	3153a*
B	2 mg/L	±0.01 mg/L	3107*	Tl	2 mg/L	±0.01 mg/L	3162a*
Ba	2 mg/L	±0.01 mg/L	3104a*	Tl	2 mg/L	±0.01 mg/L	3158*
Be	2 mg/L	±0.01 mg/L	3105a*	V	2 mg/L	±0.01 mg/L	3165*
Cd	2 mg/L	±0.01 mg/L	3108*	Zn	2 mg/L	±0.01 mg/L	3168a*

* - indicates NIST SRM † - indicates SPEX CertiPrep CRM (when NIST SRM is not available)

SPEX CertiPrep Reference Multi: Lot# ALL8

Trace Metallic Impurities in the Actual Solution via ICP/ICP-MS Analysis:

Element	µg/L	Element	µg/L	Element	µg/L	Element	µg/L	Element	µg/L	Element	µg/L
Au	<0.7	Ga	<3	Ir	20	Pd	<2	Sc	<1	Tm	<0.1
Bi	6	Gd	<0.01	La	1	Pr	<0.05	Sm	<0.4	U	<0.2
Ce	1	Ge	<6	Li	<30	Pt	<1	Ta	20	W	<7
Cs	<0.3	Hf	0.2	Lu	<0.05	Rb	40	Tb	0.1	Y	0.4
Dy	<0.2	Hg	<4	Nb	2	Re	<0.4	Te	<6	Yb	<0.3
Er	<0.2	Ho	<0.1	Nd	<0.2	Rh	<0.8	Th	0.4	Zr	<50
Eu	<0.1	In	<6	P	<400	Ru	<0.8				

Balances are calibrated regularly with weight sets traceable to NIST#s 32856, 32867 and others. This CRM is guaranteed stable and accurate to ±0.5% of the labeled value. This includes uncertainty components due to preparation, measurement, homogeneity, short-term and long-term stability, as well as transpiration loss. This guarantee is valid for a period of one year from the date of certification only when the material is kept tightly closed and stored under ambient laboratory conditions.

Date of Certification: DEC 2012 Certifying Officer:

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fax: 540.585.3012
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Rec 3B13

CERTIFICATE OF ANALYSIS

773262

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM **Custom Solution**

Catalog No.: TAPITT-MSICSAB-1

Lot Number: **F2-MEB415033**

Matrix: 3% HNO3(v/v)

10 µg/mL ea:
Ba, Be, Pb, Sr, Tl, V

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Barium, Ba	10.00 ± 0.07 µg/mL	Beryllium, Be	10.00 ± 0.07 µg/mL	Lead, Pb	10.00 ± 0.06 µg/mL
Strontium, Sr	10.00 ± 0.06 µg/mL	Thallium, Tl	10.00 ± 0.06 µg/mL	Vanadium, V	10.00 ± 0.06 µg/mL

Certified Density: 1.014 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
2 = the coverage factor.
$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a NIST SRM/RM. See section 4.2 for balance traceability.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ba	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	070222
Be	Calculated		See Sec. 4.2
Be	ICP Assay	3105a	892707
Pb	ICP Assay	3128	030721
Pb	EDTA	928	928
Sr	ICP Assay	3153a	990906
Sr	EDTA	928	928
Tl	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706
V	EDTA	928	928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- SAI Global File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: March 06, 2012

Expiration Date: EXPIRES 01 APR 2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Donna Senn
Product Documentation Technician

Certificate Approved By: Brian Alexander
PhD., Technical Process Director

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

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Rec 3B13

CERTIFICATE OF ANALYSIS

773263

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **Custom Solution**

Catalog No.: TAPITT-MSICSAB-2

Lot Number: **G2-MEB467043**

Matrix: 3% HNO3(v/v), tr. HF

250 µg/mL ea:
Si,

50 µg/mL ea:
Sn,

25 µg/mL ea:
B, Se,

10 µg/mL ea:
Sb

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Antimony, Sb	10.00 ± 0.06 µg/mL	Boron, B	24.98 ± 0.17 µg/mL	Selenium, Se	25.01 ± 0.21 µg/mL
Silicon, Si	249.9 ± 1.6 µg/mL	Tin, Sn	50.04 ± 0.36 µg/mL		

Certified Density: 1.018 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$

2 = the coverage factor.

$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a NIST SRM/RM. See section 4.2 for balance traceability.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	070514
Sb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102A	061229
Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	992106
Si	Calculated		See Sec. 4.2
Si	ICP Assay	3150	071204
Sn	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	070330

4.2 BALANCE CALIBRATION - All analytical balances are calibrated yearly by an accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 THERMOMETER CALIBRATION - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 GLASSWARE CALIBRATION - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- SAI Global File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: March 08, 2013

Expiration Date: EXPIRES 01APR2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Donna Senn
Product Documentation Technician

Certificate Approved By: Brian Alexander
PhD., Technical Process Director

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

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300 Technology Drive
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CERTIFICATE OF ANALYSIS

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1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 863.01

ACCREDITED Reference Material Producer Certificate 863.02

2.0 **DESCRIPTION OF CRM** Custom Solution

Catalog No.: TAPITT-MS-ICPMS

Lot Number: **E2-MEB379097**

Matrix: 0.7% HNO3(v/v)

200 µg/mL ea:
Al, Ba,

100 µg/mL ea:
B, Fe, Sr,

50 µg/mL ea:
Co, Mn, Ni, V, Zn,

25 µg/mL ea:
Cu,

20 µg/mL ea:
Cr3,

5 µg/mL ea:
Ag, Be, Cd, Tl,

4 µg/mL ea:
As,

2 µg/mL ea:
Pb,

1 µg/mL ea:
Se

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	200.0 ± 1.1 µg/mL	Arsenic, As	4.001 ± 0.016 µg/mL	Barium, Ba	200.0 ± 1.5 µg/mL
Beryllium, Be	5.000 ± 0.030 µg/mL	Boron, B	100.0 ± 0.5 µg/mL	Cadmium, Cd	5.000 ± 0.020 µg/mL
Chromium+3, Cr3	20.01 ± 0.15 µg/mL	Cobalt, Co	50.00 ± 0.33 µg/mL	Copper, Cu	25.01 ± 0.07 µg/mL
Iron, Fe	100.0 ± 0.6 µg/mL	Lead, Pb	2.001 ± 0.004 µg/mL	Manganese, Mn	50.00 ± 0.38 µg/mL
Nickel, Ni	50.01 ± 0.31 µg/mL	Selenium, Se	1.000 ± 0.004 µg/mL	Silver, Ag	5.000 ± 0.025 µg/mL
Strontium, Sr	100.1 ± 0.5 µg/mL	Thallium, Tl	5.000 ± 0.020 µg/mL	Vanadium, V	50.00 ± 0.39 µg/mL
Zinc, Zn	50.00 ± 0.16 µg/mL				

Certified Density: 1.006 g/mL (measured at 20 ± 1° C)

uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean

x_i = individual results

n = number of measurements

Uncertainty (±) = $\frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$ Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212
Al	ICP Assay	3101a	060502
As	Calculated		See Sec. 4.2
B	ICP Assay	3107	070514
Ba	ICP Assay	3104a	070222
Be	ICP Assay	3105a	892707
Cd	EDTA	928	928
Co	EDTA	928	928
Cr3	ICP Assay	3112a	030730
Cu	EDTA	928	928
Fe	EDTA	928	928
Mn	EDTA	928	928
Ni	EDTA	928	928
Pb	EDTA	928	928
Se	ICP Assay	3149	992106
Sr	EDTA	928	928
Tl	ICP Assay	3158	993012
V	EDTA	928	928
Zn	EDTA	928	928

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ag	Volhard	999b	999b
Al	EDTA	928	928
As	ICP Assay	3103a	010713
Ba	Gravimetric		See Sec. 4.2
Be	Calculated		See Sec. 4.2
Cd	ICP Assay	3108	060531
Co	ICP Assay	3113	00630
Cr3	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	011017
Fe	ICP Assay	3126a	051031
Mn	ICP Assay	3132	050429
Ni	ICP Assay	3136	000612
Pb	ICP Assay	3128	030721
Se	Calculated		See Sec. 4.2
Sr	ICP Assay	3153a	990906
Tl	Calculated		See Sec. 4.2
V	ICP Assay	3165	992706
Zn	ICP Assay	3168a	080123

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 **ISO 9001 Quality Management System Registration**
- QMI File Number 010105

10.2 **ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"**
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 **ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"**
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 **10CFR50 Appendix B - Nuclear Regulatory Commission**
- Domestic Licensing of Production and Utilization Facilities

10.5 **10CFR21 - Nuclear Regulatory Commission**
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: June 16, 2011

Expiration Date: EXPIRES 01 FEB 2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Donna Senn
Product Documentation Technician

Donna Senn

Certificate Approved By: Madeline Gozzi
Quality Control Supervisor

Madeline Gozzi

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

Paul R Gaines

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CERTIFICATE OF ANALYSIS

CH 2/14/13

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** Custom Solution

Catalog No.: TAPITT-MS-A

Lot Number: **G2-MEB458093**

Matrix: 3% HNO3(v/v)

5,000 µg/mL ea:
Ca, K, Mg, Na

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Calcium, Ca	5,000 ± 35 µg/mL	Magnesium, Mg	5,000 ± 33 µg/mL	Potassium, K	5,000 ± 37 µg/mL
Sodium, Na	5,000 ± 34 µg/mL				

Certified Density: 1.073 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$

2 = the coverage factor.
$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

· The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a NIST SRM/RM. See section 4.2 for balance traceability.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#	ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ca	ICP Assay	3109a	050825	Ca	EDTA	928	928
K	Gravimetric		See Sec. 4.2	K	ICP Assay	3141a	051220
Mg	ICP Assay	3131a	050302	Mg	EDTA	928	928
Na	Gravimetric		See Sec. 4.2	Na	ICP Assay	3152a	010728

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

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10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

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11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: February 01, 2013

Expiration Date: EXPIRES 01 MAR 2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Zach Saunders
Product Documentation Technician

Certificate Approved By: Brian Alexander
PhD., Quality Control Supervisor

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

Certification Summary

Client: Environmental Chemical Corp.
Project/Site: RVAAP - ECC

TestAmerica Job ID: 240-22756-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	NELAP	9	01144CA
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Florida	NELAP	4	E87225
TestAmerica Canton	Georgia	State Program	4	N/A
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky	State Program	4	58
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	
TestAmerica Canton	USDA	Federal		P330-11-00328
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190
TestAmerica Pittsburgh	Arkansas DEQ	State Program	6	88-0690
TestAmerica Pittsburgh	California	NELAP	9	4224CA
TestAmerica Pittsburgh	Connecticut	State Program	1	PH-0688
TestAmerica Pittsburgh	Florida	NELAP	4	E871008
TestAmerica Pittsburgh	Illinois	NELAP	5	002602
TestAmerica Pittsburgh	Kansas	NELAP	7	E-10350
TestAmerica Pittsburgh	L-A-B	DoD ELAP		L2314
TestAmerica Pittsburgh	Louisiana	NELAP	6	04041
TestAmerica Pittsburgh	New Hampshire	NELAP	1	203011
TestAmerica Pittsburgh	New Jersey	NELAP	2	PA005
TestAmerica Pittsburgh	New York	NELAP	2	11182
TestAmerica Pittsburgh	North Carolina DENR	State Program	4	434
TestAmerica Pittsburgh	Pennsylvania	NELAP	3	02-00416
TestAmerica Pittsburgh	South Carolina	State Program	4	89014
TestAmerica Pittsburgh	US Fish & Wildlife	Federal		LE94312A-1
TestAmerica Pittsburgh	USDA	Federal		P330-10-00139
TestAmerica Pittsburgh	USDA	Federal		P-Soil-01
TestAmerica Pittsburgh	Utah	NELAP	8	STLP
TestAmerica Pittsburgh	Virginia	NELAP	3	460189
TestAmerica Pittsburgh	West Virginia DEP	State Program	3	142
TestAmerica Pittsburgh	Wisconsin	State Program	5	998027800

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260B DOD

Volatile Organic Compounds (GC/MS) by Method 8260B/DOD

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
	MRL 240-81013/5	98	93	92	89
	MRL 240-81013/21	96	94	93	91

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	50-150
DCA = 1,2-Dichloroethane-d4 (Surr)	50-150
TOL = Toluene-d8 (Surr)	50-150
BFB = 4-Bromofluorobenzene (Surr)	50-150

Column to be used to flag recovery values

FORM II 8260B/DoD

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
074SB-0022-0001-TB	240-22756-16	97	97	87	77
	MB 240-81013/6	98	92	90	81
	LCS 240-81013/4	94	91	94	100

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	85-115
DCA = 1,2-Dichloroethane-d4 (Surr)	70-120
TOL = Toluene-d8 (Surr)	85-120
BFB = 4-Bromofluorobenzene (Surr)	75-120

Column to be used to flag recovery values

FORM II 8260B/DoD

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXR3282.D

Lab ID: LCS 240-81013/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	9.36	94	65-130	
1,1,2,2-Tetrachloroethane	10.0	10.2	102	65-130	
1,1,2-Trichloroethane	10.0	10.3	103	75-125	
1,1-Dichloroethane	10.0	9.63	96	70-135	
1,1-Dichloroethene	10.0	9.25	92	70-130	
1,2-Dichloroethane	10.0	10.1	101	70-130	
1,2-Dichloropropane	10.0	9.98	100	75-125	
2-Butanone (MEK)	20.0	20.0	100	30-150	
2-Hexanone	20.0	21.2	106	55-130	
4-Methyl-2-pentanone (MIBK)	20.0	22.0	110	60-135	
Acetone	20.0	15.5	78	40-140	
Benzene	10.0	9.89	99	80-120	
Bromoform	10.0	10.7	107	70-130	
Bromomethane	10.0	6.68	67	30-145	
Carbon disulfide	10.0	9.29	93	35-160	
Carbon tetrachloride	10.0	9.52	95	65-140	
Chlorobenzene	10.0	9.72	97	80-120	
Chloromethane	10.0	9.84	98	40-125	
cis-1,3-Dichloropropene	10.0	9.36	94	70-130	
Dibromochloromethane	10.0	10.6	106	60-135	
Bromodichloromethane	10.0	10.6	106	75-120	
Ethylbenzene	10.0	9.51	95	75-125	
Methyl tert-butyl ether	10.0	10.2	102	65-125	
Methylene Chloride	10.0	9.88	99	55-140	
Styrene	10.0	10.1	101	65-135	
Tetrachloroethene	10.0	9.51	95	45-150	
Toluene	10.0	9.42	94	75-120	
trans-1,3-Dichloropropene	10.0	9.71	97	55-140	
Trichloroethene	10.0	10.2	102	70-125	
Vinyl chloride	10.0	9.88	99	50-145	
Xylenes, Total	30.0	29.4	98	75-130	
Chloroform	10.0	9.60	96	65-135	
Bromochloromethane	10.0	10.0	100	65-130	
Chloroethane	10.0	8.71	87	60-135	

Column to be used to flag recovery and RPD values

FORM III 8260B/DoD

FORM III
GC/MS VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXR3283.D

Lab ID: MRL 240-81013/5 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	0.00100	0.00109	109	70-130	
1,1,2,2-Tetrachloroethane	0.00100	0.00140	140	70-130	^
1,1,2-Trichloroethane	0.00100	0.00104	104	70-130	
1,1-Dichloroethane	0.00100	0.00111	111	70-130	
1,1-Dichloroethene	0.00100	0.00106	106	70-130	
1,2-Dichloroethane	0.00100	0.00120	120	70-130	
1,2-Dichloropropane	0.00100	0.00110	110	70-130	
2-Butanone (MEK)	0.0100	0.00973 J	97	70-130	
2-Hexanone	0.0100	0.00935 J	93	70-130	
4-Methyl-2-pentanone (MIBK)	0.0100	0.00956 J	96	70-130	
Acetone	0.0100	0.00883 J	88	70-130	
Benzene	0.00100	0.00116	116	70-130	
Bromoform	0.00100	0.00103	103	70-130	
Bromomethane	0.00100	0.000930 J	93	70-130	
Carbon disulfide	0.00100	0.00106	106	70-130	
Carbon tetrachloride	0.00100	0.00104	104	70-130	
Chlorobenzene	0.00100	0.00111	111	70-130	
Chloromethane	0.00100	0.00116	116	70-130	
cis-1,3-Dichloropropene	0.00100	0.00131	131	70-130	^
Dibromochloromethane	0.00100	0.00106	106	70-130	
Bromodichloromethane	0.00100	0.00111	111	70-130	
Ethylbenzene	0.00100	0.000933 J	93	70-130	
Methyl tert-butyl ether	0.00100	0.00118	118	70-130	
Methylene Chloride	0.00100	0.00138	138	70-130	^
Styrene	0.00100	0.000866 J	87	70-130	
Tetrachloroethene	0.00100	0.00114	114	70-130	
Toluene	0.00100	0.00108	108	70-130	
trans-1,3-Dichloropropene	0.00100	0.00131	131	70-130	^
Trichloroethene	0.00100	0.00118	118	70-130	
Vinyl chloride	0.00100	0.00106	106	70-130	
Xylenes, Total	0.00300	0.00286	95	70-130	
Chloroform	0.00100	0.00119	119	70-130	
Bromochloromethane	0.00100	0.00115	115	70-130	
Chloroethane	0.00100	0.00106	106	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260B/DoD

FORM III
GC/MS VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXR3299.D

Lab ID: MRL 240-81013/21 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	0.00100	0.000940 J	94	70-130	
1,1,2,2-Tetrachloroethane	0.00100	0.00125	125	70-130	
1,1,2-Trichloroethane	0.00100	0.000961 J	96	70-130	
1,1-Dichloroethane	0.00100	0.000994 J	99	70-130	
1,1-Dichloroethene	0.00100	0.00101	101	70-130	
1,2-Dichloroethane	0.00100	0.00104	104	70-130	
1,2-Dichloropropane	0.00100	0.000976 J	98	70-130	
2-Butanone (MEK)	0.0100	0.00771 J	77	70-130	
2-Hexanone	0.0100	0.00949 J	95	70-130	
4-Methyl-2-pentanone (MIBK)	0.0100	0.00897 J	90	70-130	
Acetone	0.0100	0.00676 J	68	70-130	^
Benzene	0.00100	0.00102	102	70-130	
Bromoform	0.00100	0.000836 J	84	70-130	
Bromomethane	0.00100	0.000770 J	77	70-130	
Carbon disulfide	0.00100	0.000894 J	89	70-130	
Carbon tetrachloride	0.00100	0.000915 J	91	70-130	
Chlorobenzene	0.00100	0.000980 J	98	70-130	
Chloromethane	0.00100	0.00113	113	70-130	
cis-1,3-Dichloropropene	0.00100	0.00121	121	70-130	
Dibromochloromethane	0.00100	0.000823 J	82	70-130	
Bromodichloromethane	0.00100	0.000890 J	89	70-130	
Ethylbenzene	0.00100	0.000915 J	91	70-130	
Methyl tert-butyl ether	0.00100	0.00101	101	70-130	
Methylene Chloride	0.00100	0.00256	256	70-130	^
Styrene	0.00100	0.000745 J	74	70-130	
Tetrachloroethene	0.00100	0.000960 J	96	70-130	
Toluene	0.00100	0.000933 J	93	70-130	
trans-1,3-Dichloropropene	0.00100	0.00118	118	70-130	
Trichloroethene	0.00100	0.00102	102	70-130	
Vinyl chloride	0.00100	0.000961 J	96	70-130	
Xylenes, Total	0.00300	0.00240	80	70-130	
Chloroform	0.00100	0.000960 J	96	70-130	
Bromochloromethane	0.00100	0.00100	100	70-130	
Chloroethane	0.00100	0.000985 J	98	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260B/DoD

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab File ID: UXR3284.D Lab Sample ID: MB 240-81013/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX10 Date Analyzed: 04/08/2013 13:34

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-81013/4	UXR3282.D	04/08/2013 12:50
074SB-0022-0001-TB	240-22756-16	UXR3293.D	04/08/2013 16:48

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab File ID: BFB5167.D BFB Injection Date: 04/02/2013

Instrument ID: A3UX10 BFB Injection Time: 12:48

Analysis Batch No.: 80277

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.5	
75	30.0 - 60.0 % of mass 95	47.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.2	(0.3)1
174	50.0 - 120.00 % of mass 95	78.7	
175	5.0 - 9.0 % of mass 174	6.1	(7.8)1
176	95.0 - 101.0 % of mass 174	76.7	(97.5)1
177	5.0 - 9.0 % of mass 176	5.0	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-80277/2	UXX3070.D	04/02/2013	13:09
	STD8260 240-80277/3	UXX3071.D	04/02/2013	13:31
	STD8260 240-80277/4	UXX3072.D	04/02/2013	13:52
	STD8260 240-80277/5	UXX3073.D	04/02/2013	14:13
	STD8260 240-80277/6	UXX3074.D	04/02/2013	14:35
	STD8260 240-80277/7	UXX3075.D	04/02/2013	14:56
	ICV 240-80277/14	UXX3082.D	04/02/2013	17:28

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab File ID: BFB5182.D BFB Injection Date: 04/08/2013

Instrument ID: A3UX10 BFB Injection Time: 11:40

Analysis Batch No.: 81013

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	23.0	
75	30.0 - 60.0 % of mass 95	45.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	81.7	
175	5.0 - 9.0 % of mass 174	5.5	(6.7)1
176	95.0 - 101.0 % of mass 174	80.3	(98.2)1
177	5.0 - 9.0 % of mass 176	5.5	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-81013/2	UXR3280.D	04/08/2013	12:07
	CCV 240-81013/3	UXR3281.D	04/08/2013	12:28
	LCS 240-81013/4	UXR3282.D	04/08/2013	12:50
	MRL 240-81013/5	UXR3283.D	04/08/2013	13:12
	MB 240-81013/6	UXR3284.D	04/08/2013	13:34
074SB-0022-0001-TB	240-22756-16	UXR3293.D	04/08/2013	16:48
	MRL 240-81013/21	UXR3299.D	04/08/2013	18:58
	LODV 240-81013/22	UXR3300.D	04/08/2013	19:19

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Sample No.: STD8260 240-80277/4 Date Analyzed: 04/02/2013 13:52

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXX3072.D Heated Purge: (Y/N) N

Calibration ID: 14338

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1886494	5.20	1228757	7.87	689846	10.12
UPPER LIMIT		3772988	5.70	2457514	8.37	1379692	10.62
LOWER LIMIT		943247	4.70	614379	7.37	344923	9.62
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-80277/14		1993798	5.20	1310576	7.87	752623	10.12
CCV 240-81013/2		2015557	5.20	1371090	7.87	724491	10.12
CCV 240-81013/3		2049932	5.20	1366092	7.87	611255	10.12
LCS 240-81013/4		1833691	5.20	1294647	7.87	729378	10.12
MRL 240-81013/5		1934419	5.20	1336222	7.87	675843	10.12
MB 240-81013/6		1900087	5.20	1259469	7.87	588716	10.12
240-22756-16	074SB-0022-0001-TB	1719780	5.20	1162887	7.87	515814	10.12
MRL 240-81013/21		1847532	5.21	1247564	7.87	650422	10.12
LODV 240-81013/22		1799091	5.20	1234434	7.88	602927	10.12

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B/DOD

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0022-0001-TB | Lab Sample ID: 240-22756-16

Matrix: Water | Lab File ID: UXR3293.D

Analysis Method: 8260B/DoD | Date Collected: 04/02/2013 08:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/08/2013 16:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 81013 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.25	U	1.0	0.25	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U	1.0	0.25	0.18
79-00-5	1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.27
75-34-3	1,1-Dichloroethane	0.25	U	1.0	0.25	0.15
75-35-4	1,1-Dichloroethene	0.25	U	1.0	0.25	0.19
107-06-2	1,2-Dichloroethane	0.25	U	1.0	0.25	0.22
540-59-0	1,2-Dichloroethene, Total	0.50	U	2.0	0.50	0.34
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25	0.18
78-93-3	2-Butanone (MEK)	0.57	U	10	0.57	0.57
591-78-6	2-Hexanone	0.50	U	10	0.50	0.41
108-10-1	4-Methyl-2-pentanone (MIBK)	0.50	U	10	0.50	0.32
67-64-1	Acetone	6.4	J	10	1.1	1.1
71-43-2	Benzene	0.25	U	1.0	0.25	0.13
75-25-2	Bromoform	0.64	U	1.0	0.64	0.64
74-83-9	Bromomethane	0.50	U	1.0	0.50	0.41
75-15-0	Carbon disulfide	0.25	U	1.0	0.25	0.13
56-23-5	Carbon tetrachloride	0.25	U	1.0	0.25	0.13
108-90-7	Chlorobenzene	0.25	U	1.0	0.25	0.15
74-87-3	Chloromethane	0.50	U	1.0	0.50	0.30
10061-01-5	cis-1,3-Dichloropropene	0.25	U	1.0	0.25	0.14
124-48-1	Dibromochloromethane	0.25	U	1.0	0.25	0.18
75-27-4	Bromodichloromethane	0.25	U	1.0	0.25	0.15
100-41-4	Ethylbenzene	0.25	U	1.0	0.25	0.17
1634-04-4	Methyl tert-butyl ether	0.25	U	1.0	0.25	0.17
75-09-2	Methylene Chloride	0.49	J	1.0	0.50	0.33
100-42-5	Styrene	0.25	U	1.0	0.25	0.11
127-18-4	Tetrachloroethene	0.50	U	1.0	0.50	0.29
108-88-3	Toluene	0.25	U	1.0	0.25	0.13
10061-02-6	trans-1,3-Dichloropropene	0.25	U	1.0	0.25	0.19
79-01-6	Trichloroethene	0.25	U	1.0	0.25	0.17
75-01-4	Vinyl chloride	0.25	U	1.0	0.25	0.22
1330-20-7	Xylenes, Total	0.75	U	2.0	0.75	0.28
67-66-3	Chloroform	0.25	U	1.0	0.25	0.16
74-97-5	Bromochloromethane	0.50	U	1.0	0.50	0.29
106-93-4	1,2-Dibromoethane	0.25	U	1.0	0.25	0.24
75-00-3	Chloroethane	0.50	U	1.0	0.50	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0022-0001-TB Lab Sample ID: 240-22756-16

Matrix: Water Lab File ID: UXR3293.D

Analysis Method: 8260B/DoD Date Collected: 04/02/2013 08:00

Sample wt/vol: 5(mL) Date Analyzed: 04/08/2013 16:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 81013 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	87		85-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-120
460-00-4	4-Bromofluorobenzene (Surr)	77		75-120
1868-53-7	Dibromofluoromethane (Surr)	97		85-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX10\20130408-18651.b\UXR3293.D
Lims ID: 240-22756-A-16 Client ID: 074SB-0022-0001-TB
Inject. Date: 08-Apr-2013 16:48:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0018651-015
Misc. Info.:
Operator: 1904 Instrument ID: A3UX10
Purge Vol: 5.000 mL ALS Bottle#: 14
Lims Batch ID: 81013 Lims Sample ID: 15
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX10\20130408-18651.b\8260_10.m
Last Update: 09-Apr-2013 08:43:29 Calib Date: 02-Apr-2013 17:07:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3081.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK021

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.199	5.200	-0.001	99	1719780	10.0	
* 2 Chlorobenzene-d5	117	7.873	7.874	-0.001	88	1162887	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.121	10.122	-0.001	95	515814	10.0	
$ 5 Dibromofluoromethane (Surr)	113	4.631	4.629	0.002	58	384220	9.69	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.915	4.913	0.002	0	502087	9.65	
$ 7 Toluene-d8 (Surr)	98	6.560	6.570	-0.010	94	1415562	8.74	
$ 8 4-Bromofluorobenzene (Surr)	95	8.986	8.984	0.002	89	472405	7.74	
13 Chloromethane	50		1.695					9
14 Vinyl chloride	62		1.789					
16 Bromomethane	94		2.085					
17 Chloroethane	64		2.168					
23 1,1-Dichloroethene	96		2.807					
24 Acetone	43	2.821	2.819	0.002	91	78224	6.44	
27 Carbon disulfide	76		3.008					9
31 Methylene Chloride	84	3.187	3.197	-0.010	94	60082	0.4883	
35 Methyl tert-butyl ether	73		3.422					
34 trans-1,2-Dichloroethene	96		3.422					
37 1,1-Dichloroethane	63		3.765					
43 cis-1,2-Dichloroethene	96		4.239					
42 2-Butanone (MEK)	43	4.229	4.239	-0.010	68	6155	0.3063	
48 Chlorobromomethane	128		4.440					
50 Chloroform	83		4.499					9
51 1,1,1-Trichloroethane	97		4.677					
54 Carbon tetrachloride	117		4.819					
56 1,2-Dichloroethane	62		4.972					
57 Benzene	78		4.984					9
61 Trichloroethene	130		5.517					
64 1,2-Dichloropropane	63		5.694					
68 Dichlorobromomethane	83		5.919					
71 cis-1,3-Dichloropropene	75		6.309					
72 4-Methyl-2-pentanone (MIBK)	43	6.430	6.440	-0.010	67	8636	0.2100	
73 Toluene	91		6.629					9

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
74 trans-1,3-Dichloropropene	75		6.795					
76 1,1,2-Trichloroethane	97		6.960					
78 Tetrachloroethene	164		7.126					
79 2-Hexanone	43		7.185					9
81 Chlorodibromomethane	129		7.327					
83 Ethylene Dibromide	107		7.445					
85 Chlorobenzene	112		7.907					
87 Ethylbenzene	106		8.002					
88 m-Xylene & p-Xylene	106		8.108					
89 o-Xylene	106		8.487					
90 Styrene	104		8.499					
91 Bromoform	173		8.676					
95 1,1,2,2-Tetrachloroethane	83		9.102					
S 120 1,2-Dichloroethene, Total	96		1.140					7
S 122 Xylenes, Total	106		16.530					7

QC Flag Legend

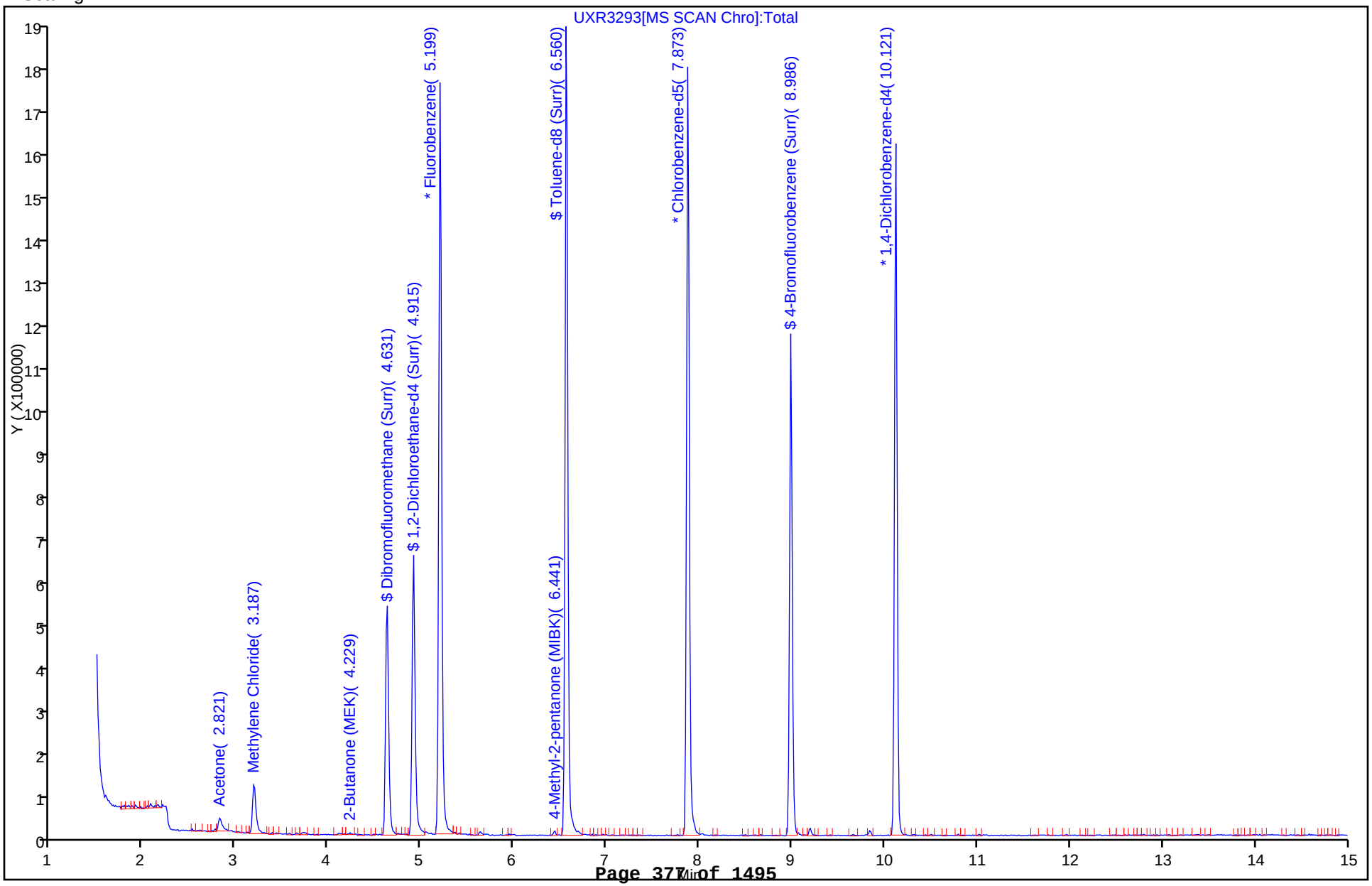
Processing Flags
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

Report Date: 09-Apr-2013 08:43:38 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File:	\\NCChrom\ChromData\A3UX10\20130408-18651.b\UXR3293.D		
Injection Date:	08-Apr-2013 16:48:30	Limit Group:	MSV 8260DOD ICAL
Client ID:	074SB-0022-0001-TB	Instrument ID:	A3UX10
Lims Batch ID:	81013	Lims Sample ID:	15
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



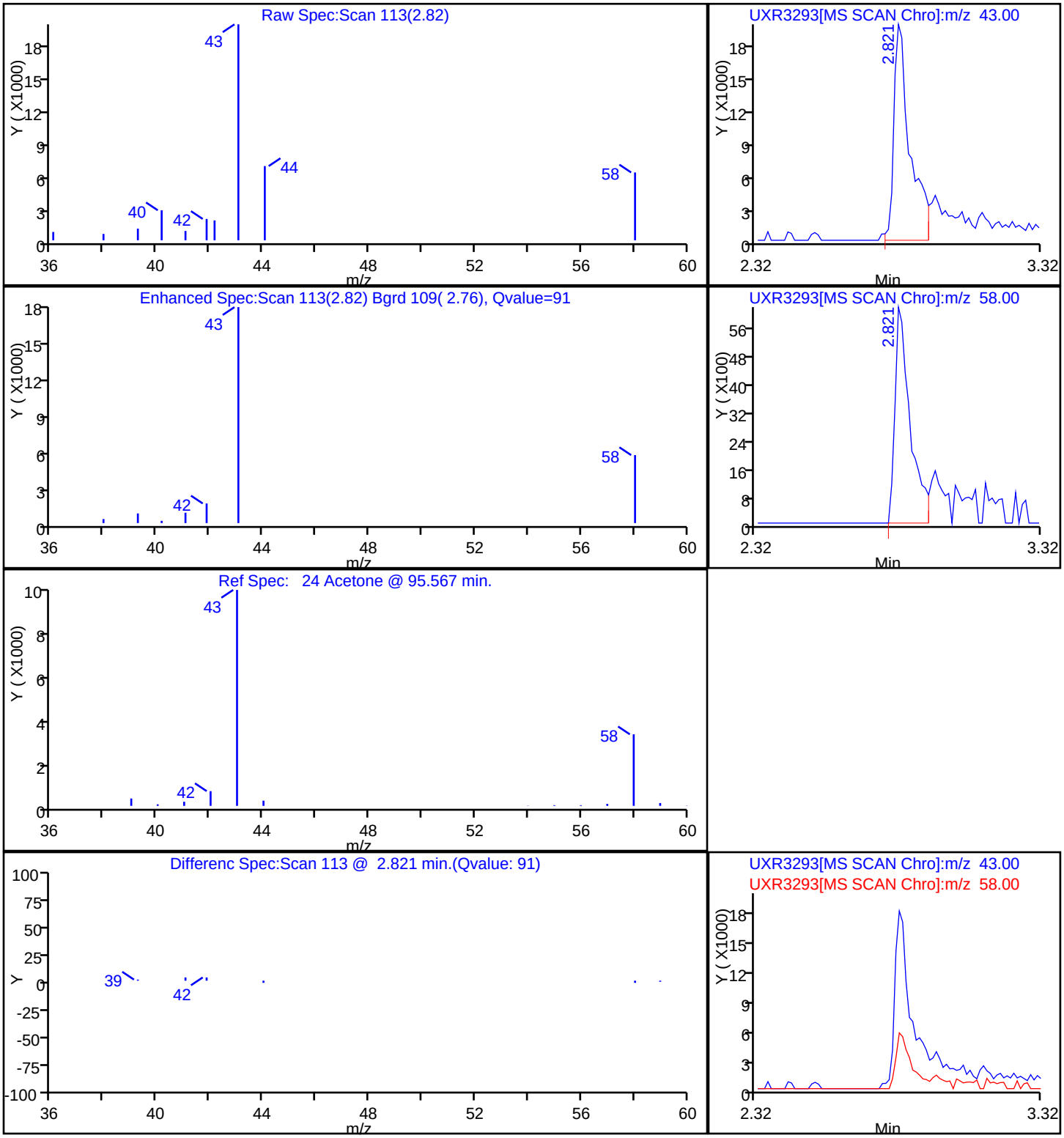
Report Date: 09-Apr-2013 08:43:38 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX10\20130408-18651.b\UXR3293.D

Injection Date:	08-Apr-2013 16:48:30	Limit Group:	MSV 8260DOD ICAL
Client ID:	074SB-0022-0001-TB	Instrument ID:	A3UX10
Lims Batch ID:	81013	Lims Sample ID:	15
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

24 Acetone



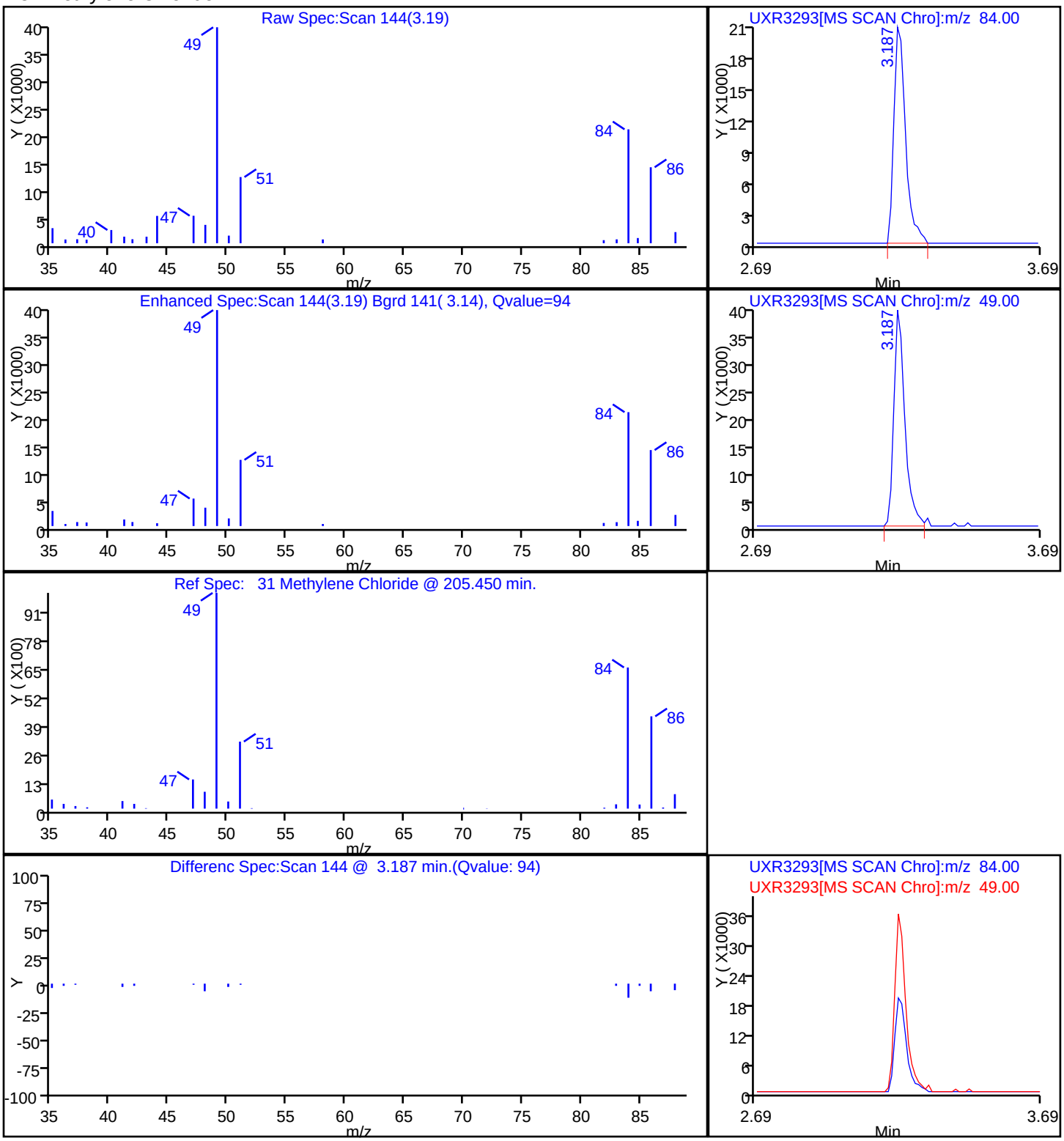
Report Date: 09-Apr-2013 08:43:38 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX10\20130408-18651.b\UXR3293.D

Injection Date:	08-Apr-2013 16:48:30	Limit Group:	MSV 8260DOD ICAL
Client ID:	074SB-0022-0001-TB	Instrument ID:	A3UX10
Lims Batch ID:	81013	Lims Sample ID:	15
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

31 Methylene Chloride



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 80277

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:09 Calibration End Date: 04/02/2013 14:56 Calibration ID: 14338

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-80277/7	UXX3075.D
Level 2	STD8260 240-80277/6	UXX3074.D
Level 3	STD8260 240-80277/5	UXX3073.D
Level 4	STD8260 240-80277/4	UXX3072.D
Level 5	STD8260 240-80277/3	UXX3071.D
Level 6	STD8260 240-80277/2	UXX3070.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2222 0.2393	0.2055	0.2175	0.2058	0.2125	Ave		0.2171			0.1000	5.8		15.0			
Chloromethane	0.5916 0.5622	0.5897	0.5786	0.5784	0.5625	Ave		0.5772			0.1000	2.2		15.0			
Vinyl chloride	0.4038 0.3829	0.3937	0.3892	0.3811	0.3777	Ave		0.3881			0.1000	2.5		15.0			
Bromomethane	0.1637 0.1368	0.1534	0.1435	0.1404	0.1311	Ave		0.1448			0.0500	8.2		15.0			
Chloroethane	0.2303 0.2043	0.2315	0.2156	0.2144	0.1990	Ave		0.2158				6.1		15.0			
Trichlorofluoromethane	0.2699 0.2829	0.2756	0.2909	0.2699	0.2748	Ave		0.2773			0.1000	3.0		15.0			
Acrolein	0.0350 0.0383	0.0363	0.0370	0.0359	0.0418	Ave		0.0374				6.5		15.0			
1,1-Dichloroethene	0.2699 0.2518	0.2620	0.2637	0.2580	0.2529	Ave		0.2597			0.1000	2.6		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2127 0.1842	0.2017	0.1992	0.1829	0.1854	Ave		0.1943			0.0500	6.2		15.0			
Acetone	0.0787 0.0614	0.0793	0.0672	0.0568	0.0806	Ave		0.0707			0.0500	15.0		15.0			
Iodomethane	0.4090 0.4036	0.4185	0.4094	0.4191	0.4055	Ave		0.4108				1.6		15.0			
Carbon disulfide	0.8527 0.9048	0.8508	0.8695	0.8862	0.8927	Ave		0.8761			0.1000	2.5		15.0			
Acetonitrile	0.0177 0.0148	0.0184	0.0206	0.0148	0.0288	Ave		0.0192				27.0	*	15.0			
Methyl acetate	0.2183 0.2093	0.2264	0.2159	0.1991	0.2369	Ave		0.2176			0.1000	6.0		15.0			
Methylene Chloride	0.5022 0.2965	0.3828	0.3426	0.3196	0.3077	Lin1	0.2056	0.2943			0.1000				1.0000		0.9950

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 80277

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:09 Calibration End Date: 04/02/2013 14:56 Calibration ID: 14338

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Methyl-2-propanol	0.0091 0.0074	0.0092	0.0105	0.0072	0.0150	Ave		0.0097				29.0	*	15.0			
Acrylonitrile	0.0921 0.1078	0.1050	0.1041	0.0966	0.1242	Ave		0.1050				11.0		15.0			
Methyl tert-butyl ether	0.6041 0.6538	0.5929	0.6441	0.6027	0.6630	Ave		0.6267			0.1000	4.8		15.0			
trans-1,2-Dichloroethene	0.2975 0.3062	0.3089	0.3066	0.3065	0.3089	Ave		0.3058			0.1000	1.4		15.0			
Hexane	0.0579 0.0616	0.0604	0.0620	0.0584	0.0610	Ave		0.0602				2.8		15.0			
1,1-Dichloroethane	0.5772 0.5733	0.5821	0.5623	0.5710	0.5814	Ave		0.5745			0.1000	1.3		15.0			
Vinyl acetate	0.0358 0.0551	0.0444	0.0472	0.0499	0.0559	Ave		0.0480				15.0		15.0			
2-Butanone (MEK)	0.1287 0.1064	0.1085	0.1213	0.1024	0.1338	Ave		0.1169			0.0500	11.0		15.0			
cis-1,2-Dichloroethene	0.3078 0.3146	0.3092	0.3163	0.3153	0.3207	Ave		0.3140			0.1000	1.5		15.0			
2,2-Dichloropropane	0.2603 0.2774	0.2594	0.2729	0.2771	0.2732	Ave		0.2701				3.0		15.0			
Bromochloromethane	0.1374 0.1405	0.1445	0.1379	0.1389	0.1436	Ave		0.1405				2.1		15.0			
Tetrahydrofuran	0.0823 0.0710	0.0882	0.0778	0.0677	0.0849	Ave		0.0786				10.0		15.0			
Chloroform	0.4683 0.4636	0.4731	0.4678	0.4584	0.4661	Ave		0.4662				1.1		15.0			
1,1,1-Trichloroethane	0.3492 0.3695	0.3671	0.3650	0.3676	0.3713	Ave		0.3650			0.1000	2.2		15.0			
Cyclohexane	0.5863 0.6576	0.6128	0.6397	0.6334	0.6496	Ave		0.6299			0.1000	4.2		15.0			
1,1-Dichloropropene	0.3387 0.3711	0.3489	0.3642	0.3676	0.3720	Ave		0.3604				3.8		15.0			
Carbon tetrachloride	0.2802 0.3067	0.2793	0.2978	0.2982	0.3003	Ave		0.2938			0.1000	3.8		15.0			
1,2-Dichloroethane	0.3855 0.3881	0.3756	0.3932	0.3785	0.3998	Ave		0.3868			0.1000	2.3		15.0			
Benzene	1.1387 1.1662	1.1284	1.1480	1.1551	1.1613	Ave		1.1496			0.5000	1.2		15.0			
Trichloroethene	0.2812 0.2858	0.2772	0.2820	0.2908	0.2907	Ave		0.2846			0.2000	1.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 80277

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:09 Calibration End Date: 04/02/2013 14:56 Calibration ID: 14338

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methylcyclohexane	0.3897 0.4252	0.3811	0.4143	0.4049	0.4193	Ave		0.4057			0.1000	4.3		15.0			
1,2-Dichloropropane	0.2881 0.3113	0.2860	0.3007	0.2988	0.3112	Ave		0.2994			0.1000	3.6		15.0			
Dibromomethane	0.1344 0.1383	0.1409	0.1387	0.1386	0.1478	Ave		0.1398				3.2		15.0			
1,4-Dioxane	0.0015 0.0007	0.0011	0.0014	0.0012	0.0020	Ave		0.0013				33.0	*	15.0			
Bromodichloromethane	0.2598 0.3254	0.2774	0.2802	0.3016	0.3185	Ave		0.2938			0.1000	8.7		15.0			
2-Chloroethyl vinyl ether	0.1066 0.1585	0.1067	0.1279	0.1345	0.1598	Lin1	-0.165	0.1582							0.9960		0.9950
cis-1,3-Dichloropropene	0.2439 0.3900	0.2866	0.3124	0.3371	0.3691	Lin1	-0.192	0.3832			0.1500				0.9980		0.9950
4-Methyl-2-pentanone (MIBK)	0.2057 0.2408	0.2106	0.2482	0.2407	0.2886	Ave		0.2391			0.0500	13.0		15.0			
Toluene	1.6419 1.8708	1.6689	1.7033	1.8007	1.8095	Ave		1.7492			0.4000	5.2		15.0			
trans-1,3-Dichloropropene	0.3131 0.4929	0.3282	0.3846	0.4073	0.4473	Lin1	-0.260	0.4768			0.1000				0.9950		0.9950
Ethyl methacrylate	0.2878 0.4601	0.3253	0.3845	0.3983	0.4650	Lin1	-0.238	0.4612							0.9980		0.9950
1,1,2-Trichloroethane	0.3100 0.3145	0.2947	0.3178	0.3158	0.3219	Ave		0.3124			0.1000	3.1		15.0			
1,3-Dichloropropane	0.5427 0.5617	0.5253	0.5343	0.5491	0.5693	Ave		0.5471				3.0		15.0			
Tetrachloroethene	0.3204 0.3248	0.3283	0.3227	0.3288	0.3299	Ave		0.3258			0.2000	1.2		15.0			
2-Hexanone	0.2114 0.2455	0.2345	0.2348	0.2478	0.2878	Ave		0.2436			0.0500	10.0		15.0			
Dibromochloromethane	0.2303 0.3279	0.2566	0.2831	0.2962	0.3150	Ave		0.2849				13.0		15.0			
1,2-Dibromoethane	0.2791 0.2963	0.2861	0.2945	0.2857	0.3127	Ave		0.2924				4.0		15.0			
Chlorobenzene	1.0868 1.1127	1.0507	1.0922	1.0970	1.1162	Ave		1.0926			0.3000	2.2		15.0			
1,1,1,2-Tetrachloroethane	0.3224 0.3655	0.3347	0.3461	0.3476	0.3634	Ave		0.3466				4.8		15.0			
Ethylbenzene	0.5336 0.6119	0.5469	0.5755	0.6099	0.6201	Ave		0.5830				6.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 80277

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:09 Calibration End Date: 04/02/2013 14:56 Calibration ID: 14338

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
m-Xylene & p-Xylene	0.6398 0.7742	0.6859	0.7411	0.7704	0.7804	Ave		0.7320				7.8		15.0			
o-Xylene	0.6178 0.7186	0.6684	0.7089	0.7279	0.7558	Ave		0.6996				7.0		15.0			
Styrene	0.9840 1.2376	1.0216	1.1402	1.1906	1.2653	Ave		1.1399			0.3000	10.0		15.0			
Bromoform	0.1606 0.1890	0.1542	0.1588	0.1704	0.1883	Ave		0.1702			0.1000	8.9		15.0			
Isopropylbenzene	1.4884 1.8095	1.5558	1.7129	1.7696	1.8564	Ave		1.6988			0.1000	8.6		15.0			
1,1,2,2-Tetrachloroethane	0.7052 0.6682	0.6825	0.7180	0.6953	0.7349	Ave		0.7007			0.3000	3.4		15.0			
Bromobenzene	0.7814 0.8667	0.8027	0.8117	0.8297	0.8492	Ave		0.8236				3.8		15.0			
1,2,3-Trichloropropane	0.2201 0.2101	0.2107	0.2293	0.2223	0.2338	Ave		0.2211				4.3		15.0			
trans-1,4-Dichloro-2-butene	0.1375 0.2488	0.1762	0.1817	0.2047	0.2096	Qua	-0.012	0.1782	0.0018						1.0000		0.9900
N-Propylbenzene	0.7051 0.9162	0.7686	0.8479	0.8819	0.9044	Ave		0.8374				10.0		15.0			
2-Chlorotoluene	0.7426 0.7977	0.7239	0.7811	0.8016	0.8146	Ave		0.7769				4.6		15.0			
1,3,5-Trimethylbenzene	2.0229 2.5884	2.1958	2.4489	2.5165	2.6134	Ave		2.3976				9.9		15.0			
4-Chlorotoluene	0.7176 0.8811	0.7837	0.8593	0.8687	0.8767	Ave		0.8312				8.0		15.0			
tert-Butylbenzene	1.8941 2.3926	1.9609	2.2220	2.0839	2.4045	Ave		2.1597				10.0		15.0			
1,2,4-Trimethylbenzene	2.0740 2.6183	2.2920	2.5296	2.5433	2.6567	Ave		2.4523				9.2		15.0			
sec-Butylbenzene	2.3958 2.8370	2.4791	2.7786	2.7835	2.9380	Ave		2.7020				7.9		15.0			
1,3-Dichlorobenzene	1.5748 1.4847	1.5643	1.5196	1.5069	1.5575	Ave		1.5346			0.6000	2.4		15.0			
4-Isopropyltoluene	1.8899 2.3216	2.0207	2.2677	2.2683	2.4727	Ave		2.2068				9.6		15.0			
1,4-Dichlorobenzene	1.6506 1.5648	1.6662	1.6012	1.5676	1.6160	Ave		1.6111			0.5000	2.6		15.0			
n-Butylbenzene	1.6426 1.9718	1.7614	1.8453	1.8900	2.0848	Ave		1.8660				8.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 80277

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:09 Calibration End Date: 04/02/2013 14:56 Calibration ID: 14338

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichlorobenzene	1.4844 1.3034	1.3999	1.4612	1.3726	1.4456	Ave		1.4112			0.4000	4.7		15.0			
1,2-Dibromo-3-Chloropropane	0.0854 0.0663	0.0846	0.0810	0.0842	0.0991	Ave		0.0834			0.0500	13.0		15.0			
1,3,5-Trichlorobenzene	0.8127 0.6326	0.8064	0.8197	0.7327	0.7963	Ave		0.7668				9.5		15.0			
1,2,4-Trichlorobenzene	0.6795 0.4371	0.6757	0.6367	0.6049	0.6560	Ave		0.6150			0.2000	15.0		15.0			
Hexachlorobutadiene	0.3992 +++++	0.3761	0.3440	0.2753	0.2713	Lin	0.2385	0.2594							0.9970		0.9950
Naphthalene	1.3863 +++++	1.4978	1.4996	1.6086	1.6668	Ave		1.5318				7.1		15.0			
1,2,3-Trichlorobenzene	0.6587 +++++	0.6370	0.5880	0.6081	0.4879	Ave		0.5959				11.0		15.0			
Dibromofluoromethane (Surr)	0.2266 0.2319	0.2288	0.2304	0.2354	0.2306	Ave		0.2306				1.3		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2926 0.3073	0.2986	0.3068	0.2961	0.3137	Ave		0.3025				2.6		15.0			
Toluene-d8 (Surr)	1.2265 1.5314	1.3077	1.3687	1.4584	1.4611	Ave		1.3923				8.1		15.0			
4-Bromofluorobenzene (Surr)	0.4984 0.5227	0.5034	0.5263	0.5418	0.5569	Ave		0.5249				4.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 80277

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:09 Calibration End Date: 04/02/2013 14:56 Calibration ID: 14338

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-80277/7	UXX3075.D
Level 2	STD8260 240-80277/6	UXX3074.D
Level 3	STD8260 240-80277/5	UXX3073.D
Level 4	STD8260 240-80277/4	UXX3072.D
Level 5	STD8260 240-80277/3	UXX3071.D
Level 6	STD8260 240-80277/2	UXX3070.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	41808 1835557	76451	206542	388278	836350	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	111283 4313083	219331	549588	1091071	2213857	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	75970 2937374	146420	369625	718978	1486280	1.00 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Ave	30796 1049185	57064	136308	264871	516044	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	43323 1567299	86103	204752	404385	783101	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	50765 2170186	102492	276289	509141	1081571	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Ave	65886 2939200	135071	351578	677987	1646729	10.0 400	20.0	50.0	100	200
1,1-Dichloroethene	FB	Ave	50773 1931607	97437	250444	486702	995436	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	40009 1413067	75005	189194	345127	729678	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Ave	29614 942735	58956	127589	214301	634205	2.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	76936 3095996	155647	388846	790631	1595870	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	160407 6941399	316459	825846	1671847	3513199	1.00 40.0	2.00	5.00	10.0	20.0
Acetonitrile	FB	Ave	33296 1139089	68403	195670	279545	1134080	10.0 400	20.0	50.0	100	200
Methyl acetate	FB	Ave	82138 3211250	168438	410037	751347	1864409	2.00 80.0	4.00	10.0	20.0	40.0
Methylene Chloride	FB	Lin1	94480 2274360	142373	325364	602963	1210794	1.00 40.0	2.00	5.00	10.0	20.0
2-Methyl-2-propanol	FB	Ave	34310 1138548	68691	199602	270186	1182004	20.0 800	40.0	100	200	400

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 80277

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:09 Calibration End Date: 04/02/2013 14:56 Calibration ID: 14338

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acrylonitrile	FB	Ave	34665 1654355	78101	197785	364607	977991	2.00 80.0	4.00	10.0	20.0	40.0
Methyl tert-butyl ether	FB	Ave	113631 5016015	220514	611736	1136948	2609326	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	55970 2349011	114906	291177	578214	1215831	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	10895 472496	22466	58852	110115	239948	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	108589 4397769	216504	534121	1077204	2287961	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	6741 422473	16510	44832	94086	219868	1.00 40.0	2.00	5.00	10.0	20.0
2-Butanone (MEK)	FB	Ave	48427 1631836	80685	230509	386470	1053513	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,2-Dichloroethene	FB	Ave	57896 2413541	114999	300408	594780	1262018	1.00 40.0	2.00	5.00	10.0	20.0
2,2-Dichloropropane	FB	Ave	48972 2128392	96485	259157	522788	1075297	1.00 40.0	2.00	5.00	10.0	20.0
Bromochloromethane	FB	Ave	25849 1077627	53741	130955	261978	565124	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Ave	15476 544339	32816	73937	127713	334073	1.00 40.0	2.00	5.00	10.0	20.0
Chloroform	FB	Ave	88100 3556460	175979	444361	864861	1834219	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	65682 2834800	136533	346696	693507	1461427	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	110292 5044672	227933	607572	1194894	2556545	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	63715 2846837	129757	345949	693529	1463993	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	52715 2352877	103877	282834	562577	1181970	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane	FB	Ave	72524 2977197	139709	373424	713999	1573270	1.00 40.0	2.00	5.00	10.0	20.0
Benzene	FB	Ave	214206 8946286	419724	1090372	2179168	4570236	1.00 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	52893 2192550	103093	267890	548675	1143984	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	73305 3261920	141740	393547	763780	1650193	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	54191 2388303	106391	285629	563763	1224612	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 80277

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:09 Calibration End Date: 04/02/2013 14:56 Calibration ID: 14338

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dibromomethane	FB	Ave	25275 1061183	52408	131702	261420	581769	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Ave	13835 269850	19933	67618	115727	396451	50.0 2000	100	250	500	1000
Bromodichloromethane	FB	Ave	48876 2496662	103188	266156	568951	1253360	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Lin1	40096 2431875	79402	243031	507578	1257864	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Lin1	45884 2992302	106586	296762	635992	1452801	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	77389 3694586	156631	471560	908182	2271643	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBZ	Ave	201451 9531258	409076	1083814	2212577	4785758	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Lin1	38420 2511313	80437	244704	500431	1183047	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBZ	Lin1	35308 2344024	79734	244660	489359	1229795	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	38038 1602244	72228	202217	388035	851341	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	66587 2861962	128770	340001	674740	1505554	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBZ	Ave	39311 1654699	80477	205321	404048	872484	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBZ	Ave	51872 2501479	114942	298762	608892	1522127	2.00 80.0	4.00	10.0	20.0	40.0
Dibromochloromethane	CBZ	Ave	28260 1670758	62902	180147	363965	832983	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromoethane	CBZ	Ave	34243 1509571	70130	187412	351092	827007	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBZ	Ave	133342 5669175	257533	694989	1347988	2952129	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	39556 1862228	82028	220243	427108	961025	1.00 40.0	2.00	5.00	10.0	20.0
Ethylbenzene	CBZ	Ave	65475 3117579	134042	366166	749421	1639914	1.00 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	157001 7888959	336257	943071	1893294	4128059	2.00 80.0	4.00	10.0	20.0	40.0
o-Xylene	CBZ	Ave	75803 3660934	163835	451061	894442	1998813	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBZ	Ave	120729 6305143	250408	725497	1462920	3346515	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 80277

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:09 Calibration End Date: 04/02/2013 14:56 Calibration ID: 14338

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Bromoform	CBZ	Ave	19701 962930	37795	101068	209329	498007	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	182617 9219334	381347	1089884	2174375	4909651	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	48615 1771993	98742	265678	479621	1109764	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCB	Ave	53862 2298628	116132	300338	572364	1282392	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	15170 557319	30486	84846	153378	353092	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Qua	9478 659792	25488	67242	141210	316572	1.00 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCB	Ave	48604 2429858	111202	313733	608382	1365730	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCB	Ave	51192 2115608	104733	288997	552984	1230144	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	139445 6864548	317689	906112	1735992	3946506	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCB	Ave	49465 2336623	113390	317959	599293	1323957	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCB	Ave	130568 6345424	283704	822158	1437554	3631076	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	142968 6944036	331606	935960	1754512	4011895	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCB	Ave	165149 7523861	358671	1028071	1920157	4436688	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	108558 3937535	226317	562270	1039549	2352045	1.00 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCB	Ave	130276 6157013	292347	839036	1564797	3734110	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	113782 4149857	241060	592458	1081385	2440421	1.00 40.0	2.00	5.00	10.0	20.0
n-Butylbenzene	DCB	Ave	113228 5229291	254834	682781	1303789	3148282	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	102327 3456849	202537	540651	946874	2183107	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	5890 175868	12238	29966	58073	149644	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trichlorobenzene	DCB	Ave	56023 1677832	116668	303305	505443	1202551	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	46838 1159330	97752	235570	417298	990579	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 80277

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:09 Calibration End Date: 04/02/2013 14:56 Calibration ID: 14338

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Hexachlorobutadiene	DCB	Lin	27516 +++++	54419	127266	189922	409689	1.00 +++++	2.00	5.00	10.0	20.0
Naphthalene	DCB	Ave	95560 +++++	216702	554847	1109671	2517066	1.00 +++++	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	45409 +++++	92160	217550	419473	736820	1.00 +++++	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	42633 1778992	85103	218837	444109	907736	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	55051 2357223	111057	291388	558519	1234623	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	150483 7802147	320540	870878	1792074	3864284	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	61147 2662880	123380	334891	665764	1472995	1.00 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3070.D
Lims ID: STD8260 L6 Client ID:
Inject. Date: 02-Apr-2013 13:09:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0018471-002
Misc. Info.:
Operator: 1904 Instrument ID: A3UX10
Purge Vol: 5.000 mL ALS Bottle#: 1
Lims Batch ID: 80277 Lims Sample ID: 2
Sublist: chrom-8260_10*sub25
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX10\20130402-18471.b\8260_10.m
Last Update: 03-Apr-2013 11:29:03 Calib Date: 02-Apr-2013 17:07:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3081.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK019

First Level Reviewer: quayler Date: 02-Apr-2013 15:06:09

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.197	5.209	-0.012	99	1917907	10.0	
* 2 Chlorobenzene-d5	117	7.872	7.871	0.001	86	1273712	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.120	10.119	0.001	87	663021	10.0	
$ 5 Dibromofluoromethane (Surr)	113	4.629	4.631	-0.002	58	1778992	40.2	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.913	4.915	-0.002	0	2357223	40.6	
$ 7 Toluene-d8 (Surr)	98	6.558	6.560	-0.002	90	7802147	44.0	
$ 8 4-Bromofluorobenzene (Surr)	95	8.984	8.986	-0.002	87	2662880	39.8	
12 Dichlorodifluoromethane	85	1.565	1.555	0.010	99	1835557	44.1	
13 Chloromethane	50	1.695	1.697	-0.002	99	4313083	39.0	
14 Vinyl chloride	62	1.801	1.792	0.009	97	2937374	39.5	
16 Bromomethane	94	2.085	2.076	0.009	90	1049185	37.8	
17 Chloroethane	64	2.168	2.158	0.010	97	1567299	37.9	
19 Trichlorofluoromethane	101	2.393	2.383	0.010	98	2170186	40.8	
21 Acrolein	56	2.701	2.703	-0.002	95	2939200	409.7	
23 1,1-Dichloroethene	96	2.807	2.809	-0.002	94	1931607	38.8	
24 Acetone	43	2.819	2.821	-0.002	57	942735	69.6	
25 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.819	2.821	-0.002	92	1413067	37.9	
26 Iodomethane	142	2.937	2.939	-0.002	97	3095996	39.3	
27 Carbon disulfide	76	3.008	2.999	0.010	100	6941399	41.3	
28 Acetonitrile	41	3.044	3.046	-0.002	95	1139089	309.4	
30 Methyl acetate	43	3.103	3.093	0.010	98	3211250	76.9	
31 Methylene Chloride	84	3.186	3.188	-0.002	91	2274360	39.6	
32 2-Methyl-2-propanol	59	3.257	3.259	-0.002	93	1138548	609.3	
33 Acrylonitrile	53	3.375	3.377	-0.002	96	1654355	82.2	
35 Methyl tert-butyl ether	73	3.423	3.424	-0.002	91	5016015	41.7	
34 trans-1,2-Dichloroethene	96	3.423	3.424	-0.002	81	2349011	40.1	
36 Hexane	86	3.659	3.661	-0.002	94	472496	40.9	
37 1,1-Dichloroethane	63	3.766	3.768	-0.002	97	4397769	39.9	
38 Vinyl acetate	86	3.789	3.791	-0.002	96	422473	45.9	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
42 2-Butanone (MEK)	43	4.239	4.241	-0.002	95	1631836	72.8	
43 cis-1,2-Dichloroethene	96	4.239	4.241	-0.002	87	2413541	40.1	
44 2,2-Dichloropropane	77	4.251	4.253	-0.002	85	2128392	41.1	
48 Chlorobromomethane	128	4.440	4.442	-0.002	90	1077627	40.0	
49 Tetrahydrofuran	42	4.487	4.489	-0.002	81	544339	36.1	
50 Chloroform	83	4.499	4.489	0.010	96	3556460	39.8	
51 1,1,1-Trichloroethane	97	4.677	4.679	-0.002	93	2834800	40.5	
52 Cyclohexane	56	4.736	4.738	-0.002	92	5044672	41.8	
53 1,1-Dichloropropene	75	4.807	4.809	-0.002	90	2846837	41.2	
54 Carbon tetrachloride	117	4.819	4.821	-0.002	87	2352877	41.8	
57 Benzene	78	4.984	4.975	0.009	97	8946286	40.6	
56 1,2-Dichloroethane	62	4.973	4.975	-0.002	54	2977197	40.1	
61 Trichloroethene	130	5.517	5.507	0.010	97	2192550	40.2	
64 1,2-Dichloropropane	63	5.694	5.696	-0.002	91	2388303	41.6	
63 Methylcyclohexane	83	5.694	5.696	-0.002	95	3261920	41.9	
67 1,4-Dioxane	88	5.801	5.803	-0.002	89	269850	1067.0	
66 Dibromomethane	93	5.801	5.803	-0.002	91	1061183	39.6	
68 Dichlorobromomethane	83	5.919	5.921	-0.002	98	2496662	44.3	
70 2-Chloroethyl vinyl ether	63	6.168	6.170	-0.002	90	2431875	81.2	
71 cis-1,3-Dichloropropene	75	6.310	6.312	-0.002	89	2992302	41.2	
72 4-Methyl-2-pentanone (MIBK)	43	6.440	6.442	-0.002	98	3694586	80.6	
73 Toluene	91	6.629	6.619	0.010	97	9531258	42.8	
74 trans-1,3-Dichloropropene	75	6.795	6.797	-0.002	97	2511313	41.9	
75 Ethyl methacrylate	69	6.866	6.868	-0.002	94	2344024	40.4	
76 1,1,2-Trichloroethane	97	6.961	6.962	-0.001	92	1602244	40.3	
77 1,3-Dichloropropane	76	7.114	7.116	-0.002	97	2861962	41.1	
78 Tetrachloroethene	164	7.126	7.128	-0.002	97	1654699	39.9	
79 2-Hexanone	43	7.185	7.175	0.010	99	2501479	80.6	
81 Chlorodibromomethane	129	7.327	7.329	-0.002	90	1670758	46.0	
83 Ethylene Dibromide	107	7.446	7.448	-0.002	98	1509571	40.5	
85 Chlorobenzene	112	7.907	7.897	0.010	91	5669175	40.7	
86 1,1,1,2-Tetrachloroethane	131	7.966	7.968	-0.002	89	1862228	42.2	
87 Ethylbenzene	106	8.002	8.004	-0.002	98	3117579	42.0	
88 m-Xylene & p-Xylene	106	8.108	8.110	-0.002	99	7888959	84.6	
89 o-Xylene	106	8.487	8.489	-0.002	90	3660934	41.1	
90 Styrene	104	8.499	8.501	-0.002	91	6305143	43.4	
91 Bromoform	173	8.676	8.678	-0.002	97	962930	44.4	
92 Isopropylbenzene	105	8.842	8.844	-0.002	95	9219334	42.6	
95 1,1,2,2-Tetrachloroethane	83	9.102	9.104	-0.002	94	1771993	38.1	
96 Bromobenzene	156	9.138	9.140	-0.002	96	2298628	42.1	
97 1,2,3-Trichloropropane	110	9.161	9.152	0.009	75	557319	38.0	
98 trans-1,4-Dichloro-2-butene	53	9.161	9.163	-0.002	75	659792	40.0	
99 N-Propylbenzene	120	9.244	9.234	0.010	98	2429858	43.8	
100 2-Chlorotoluene	126	9.327	9.329	-0.002	96	2115608	41.1	
101 1,3,5-Trimethylbenzene	105	9.410	9.412	-0.002	94	6864548	43.2	
102 4-Chlorotoluene	126	9.434	9.424	0.010	98	2336623	42.4	
103 tert-Butylbenzene	119	9.729	9.731	-0.002	92	6345424	44.3	
104 1,2,4-Trimethylbenzene	105	9.777	9.779	-0.002	98	6944036	42.7	
105 sec-Butylbenzene	105	9.942	9.944	-0.002	92	7523861	42.0	
106 1,3-Dichlorobenzene	146	10.061	10.063	-0.002	97	3937535	38.7	
107 4-Isopropyltoluene	119	10.084	10.086	-0.002	97	6157013	42.1	
108 1,4-Dichlorobenzene	146	10.144	10.146	-0.002	94	4149857	38.9	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
110 n-Butylbenzene	91	10.499	10.489	0.010	94	5229291	42.3	
111 1,2-Dichlorobenzene	146	10.510	10.512	-0.002	97	3456849	36.9	
112 1,2-Dibromo-3-Chloropropane	157	11.279	11.281	-0.002	80	175868	31.8	
113 1,3,5-Trichlorobenzene	180	11.504	11.506	-0.002	97	1677832	33.0	
114 1,2,4-Trichlorobenzene	180	12.120	12.122	-0.002	95	1159330	28.4	
115 Hexachlorobutadiene	225	12.297	12.299	-0.002	95	472661	26.6	
116 Naphthalene	128	12.368	12.370	-0.002	100	2239162	22.0	
117 1,2,3-Trichlorobenzene	180	12.617	12.619	-0.002	98	676291	17.1	
S 119 Trihalomethanes, Total	1				0		174.5	
S 120 1,2-Dichloroethene, Total	96				0		80.1	
S 121 1,3-Dichloropropene, Total	75				0		83.1	
S 122 Xylenes, Total	106				0		125.7	

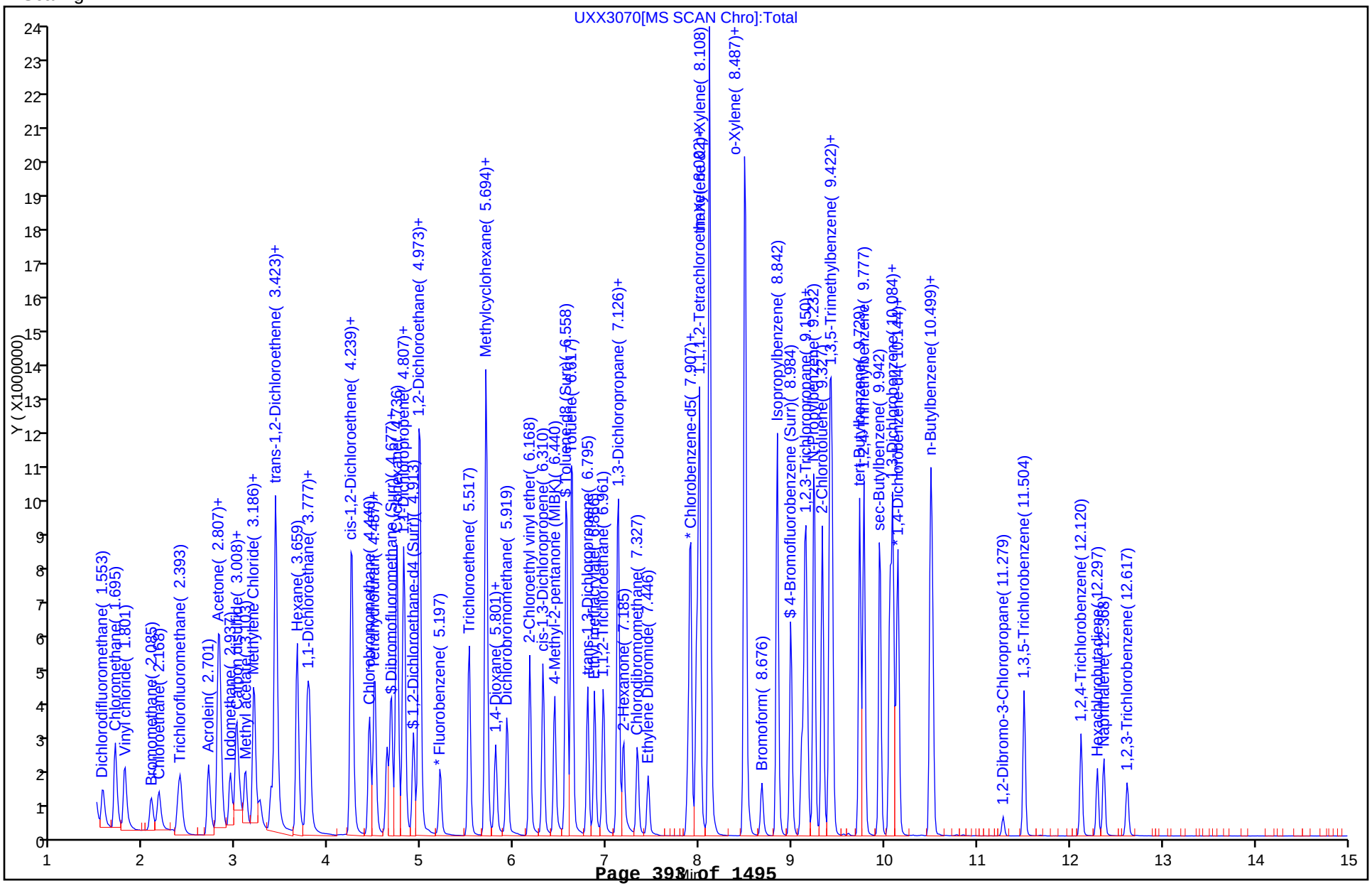
Report Date: 03-Apr-2013 11:29:04 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3070.D

Injection Date:	02-Apr-2013 13:09:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX10
Lims Batch ID:	80277	Lims Sample ID:	2
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3071.D
Lims ID: STD8260 L5 Client ID:
Inject. Date: 02-Apr-2013 13:31:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0018471-003
Misc. Info.:
Operator: 1904 Instrument ID: A3UX10
Purge Vol: 5.000 mL ALS Bottle#: 2
Lims Batch ID: 80277 Lims Sample ID: 3
Sublist: chrom-8260_10*sub25
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX10\20130402-18471.b\8260_10.m
Last Update: 03-Apr-2013 11:29:05 Calib Date: 02-Apr-2013 17:07:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3081.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK019

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.197	5.209	-0.012	99	1967796	10.0	
* 2 Chlorobenzene-d5	117	7.872	7.871	0.001	88	1322389	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.120	10.119	0.001	78	755062	10.0	
$ 5 Dibromofluoromethane (Surr)	113	4.629	4.631	-0.002	58	907736	20.0	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.913	4.915	-0.002	0	1234623	20.7	
$ 7 Toluene-d8 (Surr)	98	6.558	6.560	-0.002	94	3864284	21.0	
$ 8 4-Bromofluorobenzene (Surr)	95	8.984	8.986	-0.002	88	1472995	21.2	
12 Dichlorodifluoromethane	85	1.553	1.555	-0.002	96	836350	19.6	
13 Chloromethane	50	1.695	1.697	-0.002	99	2213857	19.5	
14 Vinyl chloride	62	1.790	1.792	-0.002	97	1486280	19.5	
16 Bromomethane	94	2.085	2.076	0.009	90	516044	18.1	
17 Chloroethane	64	2.168	2.158	0.010	97	783101	18.4	
19 Trichlorofluoromethane	101	2.381	2.383	-0.002	99	1081571	19.8	
21 Acrolein	56	2.701	2.703	-0.002	98	1646729	223.7	
23 1,1-Dichloroethene	96	2.807	2.809	-0.002	94	995436	19.5	
24 Acetone	43	2.819	2.821	-0.002	98	634205	45.6	
25 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.819	2.821	-0.002	93	729678	19.1	
26 Iodomethane	142	2.937	2.939	-0.002	96	1595870	19.7	
27 Carbon disulfide	76	3.008	2.999	0.010	100	3513199	20.4	
28 Acetonitrile	41	3.056	3.046	0.010	99	1134080	300.2	
30 Methyl acetate	43	3.103	3.093	0.010	98	1864409	43.5	
31 Methylene Chloride	84	3.186	3.188	-0.002	93	1210794	20.2	
32 2-Methyl-2-propanol	59	3.257	3.259	-0.002	94	1182004	616.5	
33 Acrylonitrile	53	3.375	3.377	-0.002	99	977991	47.3	
35 Methyl tert-butyl ether	73	3.422	3.424	-0.002	91	2609326	21.2	
34 trans-1,2-Dichloroethene	96	3.422	3.424	-0.002	82	1215831	20.2	
36 Hexane	86	3.659	3.661	-0.002	95	239948	20.3	
37 1,1-Dichloroethane	63	3.766	3.768	-0.002	96	2287961	20.2	
38 Vinyl acetate	86	3.789	3.791	-0.002	96	219868	23.3	
42 2-Butanone (MEK)	43	4.239	4.241	-0.002	58	1053513	45.8	
43 cis-1,2-Dichloroethene	96	4.239	4.241	-0.002	86	1262018	20.4	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
44 2,2-Dichloropropane	77	4.251	4.253	-0.002	83	1075297	20.2	
48 Chlorobromomethane	128	4.440	4.442	-0.002	88	565124	20.4	
49 Tetrahydrofuran	42	4.487	4.489	-0.002	86	334073	21.6	
50 Chloroform	83	4.499	4.489	0.010	96	1834219	20.0	
51 1,1,1-Trichloroethane	97	4.677	4.679	-0.002	93	1461427	20.3	
52 Cyclohexane	56	4.736	4.738	-0.002	92	2556545	20.6	
53 1,1-Dichloropropene	75	4.807	4.809	-0.002	91	1463993	20.6	
54 Carbon tetrachloride	117	4.819	4.821	-0.002	90	1181970	20.4	
57 Benzene	78	4.984	4.975	0.009	97	4570236	20.2	
56 1,2-Dichloroethane	62	4.973	4.975	-0.002	55	1573270	20.7	
61 Trichloroethene	130	5.517	5.507	0.010	97	1143984	20.4	
64 1,2-Dichloropropane	63	5.694	5.696	-0.002	94	1224612	20.8	
63 Methylcyclohexane	83	5.694	5.696	-0.002	95	1650193	20.7	
67 1,4-Dioxane	88	5.813	5.803	0.010	85	396451	1527.9	
66 Dibromomethane	93	5.801	5.803	-0.002	91	581769	21.2	
68 Dichlorobromomethane	83	5.919	5.921	-0.002	99	1253360	21.7	
70 2-Chloroethyl vinyl ether	63	6.168	6.170	-0.002	91	1257864	41.5	
71 cis-1,3-Dichloropropene	75	6.310	6.312	-0.002	89	1452801	19.8	
72 4-Methyl-2-pentanone (MIBK)	43	6.440	6.442	-0.002	98	2271643	48.3	
73 Toluene	91	6.617	6.619	-0.002	97	4785758	20.7	
74 trans-1,3-Dichloropropene	75	6.795	6.797	-0.002	97	1183047	19.3	
75 Ethyl methacrylate	69	6.866	6.868	-0.002	95	1229795	20.7	
76 1,1,2-Trichloroethane	97	6.960	6.962	-0.002	92	851341	20.6	
77 1,3-Dichloropropane	76	7.114	7.116	-0.002	97	1505554	20.8	
78 Tetrachloroethene	164	7.126	7.128	-0.002	97	872484	20.2	
79 2-Hexanone	43	7.185	7.175	0.010	99	1522127	47.3	
81 Chlorodibromomethane	129	7.327	7.329	-0.002	91	832983	22.1	
83 Ethylene Dibromide	107	7.446	7.448	-0.002	99	827007	21.4	
85 Chlorobenzene	112	7.907	7.897	0.010	94	2952129	20.4	
86 1,1,1,2-Tetrachloroethane	131	7.966	7.968	-0.002	84	961025	21.0	
87 Ethylbenzene	106	8.002	8.004	-0.002	98	1639914	21.3	
88 m-Xylene & p-Xylene	106	8.108	8.110	-0.002	99	4128059	42.6	
89 o-Xylene	106	8.487	8.489	-0.002	89	1998813	21.6	
90 Styrene	104	8.499	8.501	-0.002	92	3346515	22.2	
91 Bromoform	173	8.676	8.678	-0.002	98	498007	22.1	
92 Isopropylbenzene	105	8.842	8.844	-0.002	95	4909651	21.9	
95 1,1,2,2-Tetrachloroethane	83	9.102	9.104	-0.002	89	1109764	21.0	
96 Bromobenzene	156	9.138	9.140	-0.002	96	1282392	20.6	
97 1,2,3-Trichloropropane	110	9.161	9.152	0.009	75	353092	21.2	
98 trans-1,4-Dichloro-2-butene	53	9.161	9.163	-0.002	62	316572	19.7	
99 N-Propylbenzene	120	9.244	9.234	0.010	98	1365730	21.6	
100 2-Chlorotoluene	126	9.327	9.329	-0.002	97	1230144	21.0	
101 1,3,5-Trimethylbenzene	105	9.410	9.412	-0.002	94	3946506	21.8	
102 4-Chlorotoluene	126	9.434	9.424	0.010	97	1323957	21.1	
103 tert-Butylbenzene	119	9.729	9.731	-0.002	92	3631076	22.3	
104 1,2,4-Trimethylbenzene	105	9.777	9.779	-0.002	76	4011895	21.7	
105 sec-Butylbenzene	105	9.942	9.944	-0.002	94	4436688	21.7	
106 1,3-Dichlorobenzene	146	10.061	10.063	-0.002	97	2352045	20.3	
107 4-Isopropyltoluene	119	10.084	10.086	-0.002	97	3734110	22.4	
108 1,4-Dichlorobenzene	146	10.144	10.146	-0.002	94	2440421	20.1	
110 n-Butylbenzene	91	10.487	10.489	-0.002	96	3148282	22.3	
111 1,2-Dichlorobenzene	146	10.510	10.512	-0.002	97	2183107	20.5	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
112 1,2-Dibromo-3-Chloropropane	157	11.279	11.281	-0.002	79	149644	23.8	
113 1,3,5-Trichlorobenzene	180	11.504	11.506	-0.002	97	1202551	20.8	
114 1,2,4-Trichlorobenzene	180	12.120	12.122	-0.002	94	990579	21.3	
115 Hexachlorobutadiene	225	12.297	12.299	-0.002	96	409689	20.0	
116 Naphthalene	128	12.368	12.370	-0.002	100	2517066	21.8	
117 1,2,3-Trichlorobenzene	180	12.617	12.619	-0.002	99	736820	16.4	
S 119 Trihalomethanes, Total	1				0		85.9	
S 120 1,2-Dichloroethene, Total	96				0		40.6	
S 121 1,3-Dichloropropene, Total	75				0		39.1	
S 122 Xylenes, Total	106				0		64.3	

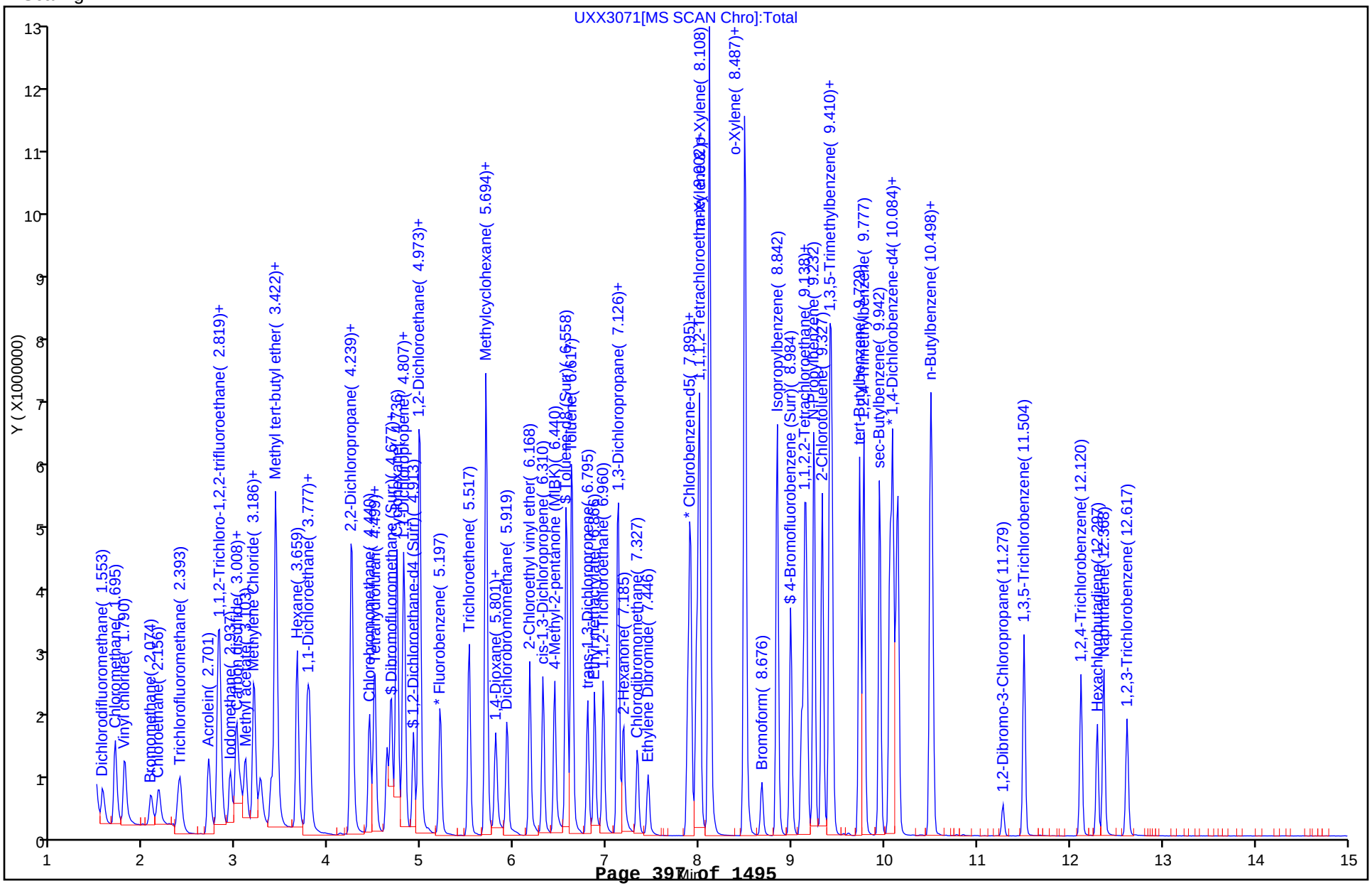
Report Date: 03-Apr-2013 11:29:05 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3071.D

Injection Date:	02-Apr-2013 13:31:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX10
Lims Batch ID:	80277	Lims Sample ID:	3
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3072.D
Lims ID: STD8260 L4 Client ID:
Inject. Date: 02-Apr-2013 13:52:30 Dil. Factor: 1.0000
Sample Type: ICIS Calib Level: 4
Sample ID: 240-0018471-004
Misc. Info.:
Operator: 1904 Instrument ID: A3UX10
Purge Vol: 5.000 mL ALS Bottle#: 3
Lims Batch ID: 80277 Lims Sample ID: 4
Sublist: chrom-8260_10*sub25
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX10\20130402-18471.b\8260_10.m
Last Update: 03-Apr-2013 11:29:05 Calib Date: 02-Apr-2013 17:07:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3081.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK019

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.199	5.199	0.0	99	1886494	10.0	
* 2 Chlorobenzene-d5	117	7.874	7.874	0.0	88	1228757	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.122	10.122	0.0	91	689846	10.0	
$ 5 Dibromofluoromethane (Surr)	113	4.631	4.631	0.0	63	444109	10.2	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.915	4.915	0.0	0	558519	9.79	
$ 7 Toluene-d8 (Surr)	98	6.560	6.560	0.0	90	1792074	10.5	
$ 8 4-Bromofluorobenzene (Surr)	95	8.986	8.986	0.0	88	665764	10.3	
12 Dichlorodifluoromethane	85	1.555	1.555	0.0	98	388278	9.48	
13 Chloromethane	50	1.697	1.697	0.0	99	1091071	10.0	
14 Vinyl chloride	62	1.792	1.792	0.0	82	718978	9.82	
16 Bromomethane	94	2.076	2.076	0.0	87	264871	9.69	
17 Chloroethane	64	2.158	2.158	0.0	98	404385	9.93	
19 Trichlorofluoromethane	101	2.383	2.383	0.0	99	509141	9.73	
21 Acrolein	56	2.703	2.703	0.0	95	677987	96.1	
23 1,1-Dichloroethene	96	2.809	2.809	0.0	94	486702	9.93	
24 Acetone	43	2.821	2.821	0.0	55	214301	16.1	
25 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.821	2.821	0.0	90	345127	9.41	
26 Iodomethane	142	2.939	2.939	0.0	96	790631	10.2	
27 Carbon disulfide	76	2.999	2.999	0.0	100	1671847	10.1	
28 Acetonitrile	41	3.046	3.046	0.0	93	279545	77.2	
30 Methyl acetate	43	3.093	3.093	0.0	98	751347	18.3	
31 Methylene Chloride	84	3.188	3.188	0.0	94	602963	10.2	
32 2-Methyl-2-propanol	59	3.259	3.259	0.0	94	270186	147.0	
33 Acrylonitrile	53	3.377	3.377	0.0	99	364607	18.4	
35 Methyl tert-butyl ether	73	3.424	3.424	0.0	90	1136948	9.62	
34 trans-1,2-Dichloroethene	96	3.424	3.424	0.0	88	578214	10.0	
36 Hexane	86	3.661	3.661	0.0	94	110115	9.70	
37 1,1-Dichloroethane	63	3.768	3.768	0.0	96	1077204	9.94	
38 Vinyl acetate	86	3.791	3.791	0.0	96	94086	10.4	
42 2-Butanone (MEK)	43	4.241	4.241	0.0	47	386470	17.5	
43 cis-1,2-Dichloroethene	96	4.241	4.241	0.0	86	594780	10.0	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
44 2,2-Dichloropropane	77	4.253	4.253	0.0	81	522788	10.3	
48 Chlorobromomethane	128	4.442	4.442	0.0	89	261978	9.89	
49 Tetrahydrofuran	42	4.489	4.489	0.0	87	127713	8.61	
50 Chloroform	83	4.489	4.489	0.0	96	864861	9.83	
51 1,1,1-Trichloroethane	97	4.679	4.679	0.0	90	693507	10.1	
52 Cyclohexane	56	4.738	4.738	0.0	93	1194894	10.1	
53 1,1-Dichloropropene	75	4.809	4.809	0.0	90	693529	10.2	
54 Carbon tetrachloride	117	4.821	4.821	0.0	86	562577	10.2	
57 Benzene	78	4.975	4.975	0.0	96	2179168	10.0	
56 1,2-Dichloroethane	62	4.975	4.975	0.0	53	713999	9.79	
61 Trichloroethene	130	5.507	5.507	0.0	97	548675	10.2	
64 1,2-Dichloropropane	63	5.696	5.696	0.0	74	563763	9.98	
63 Methylcyclohexane	83	5.696	5.696	0.0	87	763780	9.98	
67 1,4-Dioxane	88	5.803	5.803	0.0	34	115727	465.2	
66 Dibromomethane	93	5.803	5.803	0.0	93	261420	9.91	
68 Dichlorobromomethane	83	5.921	5.921	0.0	98	568951	10.3	
70 2-Chloroethyl vinyl ether	63	6.170	6.170	0.0	90	507578	18.1	
71 cis-1,3-Dichloropropene	75	6.312	6.312	0.0	88	635992	9.30	
72 4-Methyl-2-pentanone (MIBK)	43	6.442	6.442	0.0	97	908182	20.1	
73 Toluene	91	6.619	6.619	0.0	96	2212577	10.3	
74 trans-1,3-Dichloropropene	75	6.797	6.797	0.0	97	500431	9.09	
75 Ethyl methacrylate	69	6.868	6.868	0.0	95	489359	9.15	
76 1,1,2-Trichloroethane	97	6.962	6.962	0.0	93	388035	10.1	
77 1,3-Dichloropropane	76	7.116	7.116	0.0	97	674740	10.0	
78 Tetrachloroethene	164	7.128	7.128	0.0	97	404048	10.1	
79 2-Hexanone	43	7.175	7.175	0.0	98	608892	20.3	
81 Chlorodibromomethane	129	7.329	7.329	0.0	88	363965	10.4	
83 Ethylene Dibromide	107	7.448	7.448	0.0	97	351092	9.77	
85 Chlorobenzene	112	7.897	7.897	0.0	93	1347988	10.0	
86 1,1,1,2-Tetrachloroethane	131	7.968	7.968	0.0	83	427108	10.0	
87 Ethylbenzene	106	8.004	8.004	0.0	98	749421	10.5	
88 m-Xylene & p-Xylene	106	8.110	8.110	0.0	99	1893294	21.1	
89 o-Xylene	106	8.489	8.489	0.0	90	894442	10.4	
90 Styrene	104	8.501	8.501	0.0	91	1462920	10.4	
91 Bromoform	173	8.678	8.678	0.0	96	209329	10.0	
92 Isopropylbenzene	105	8.844	8.844	0.0	96	2174375	10.4	
95 1,1,2,2-Tetrachloroethane	83	9.104	9.104	0.0	89	479621	9.92	
96 Bromobenzene	156	9.140	9.140	0.0	95	572364	10.1	
97 1,2,3-Trichloropropane	110	9.152	9.152	0.0	76	153378	10.1	
98 trans-1,4-Dichloro-2-butene	53	9.163	9.163	0.0	63	141210	10.5	
99 N-Propylbenzene	120	9.234	9.234	0.0	98	608382	10.5	
100 2-Chlorotoluene	126	9.329	9.329	0.0	97	552984	10.3	
101 1,3,5-Trimethylbenzene	105	9.412	9.412	0.0	94	1735992	10.5	
102 4-Chlorotoluene	126	9.424	9.424	0.0	98	599293	10.5	
103 tert-Butylbenzene	119	9.731	9.731	0.0	90	1437554	9.65	
104 1,2,4-Trimethylbenzene	105	9.779	9.779	0.0	70	1754512	10.4	
105 sec-Butylbenzene	105	9.944	9.944	0.0	93	1920157	10.3	
106 1,3-Dichlorobenzene	146	10.063	10.063	0.0	84	1039549	9.82	
107 4-Isopropyltoluene	119	10.086	10.086	0.0	97	1564797	10.3	
108 1,4-Dichlorobenzene	146	10.146	10.146	0.0	93	1081385	9.73	
110 n-Butylbenzene	91	10.489	10.489	0.0	96	1303789	10.1	
111 1,2-Dichlorobenzene	146	10.512	10.512	0.0	97	946874	9.73	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
112 1,2-Dibromo-3-Chloropropane	157	11.281	11.281	0.0	76	58073	10.1	
113 1,3,5-Trichlorobenzene	180	11.506	11.506	0.0	98	505443	9.56	
114 1,2,4-Trichlorobenzene	180	12.122	12.122	0.0	95	417298	9.84	
115 Hexachlorobutadiene	225	12.299	12.299	0.0	91	189922	9.69	
116 Naphthalene	128	12.370	12.370	0.0	100	1109671	10.5	
117 1,2,3-Trichlorobenzene	180	12.619	12.619	0.0	99	419473	10.2	
S 119 Trihalomethanes, Total	1				0		40.5	
S 120 1,2-Dichloroethene, Total	96				0		20.1	
S 121 1,3-Dichloropropene, Total	75				0		18.4	
S 122 Xylenes, Total	106				0		31.5	

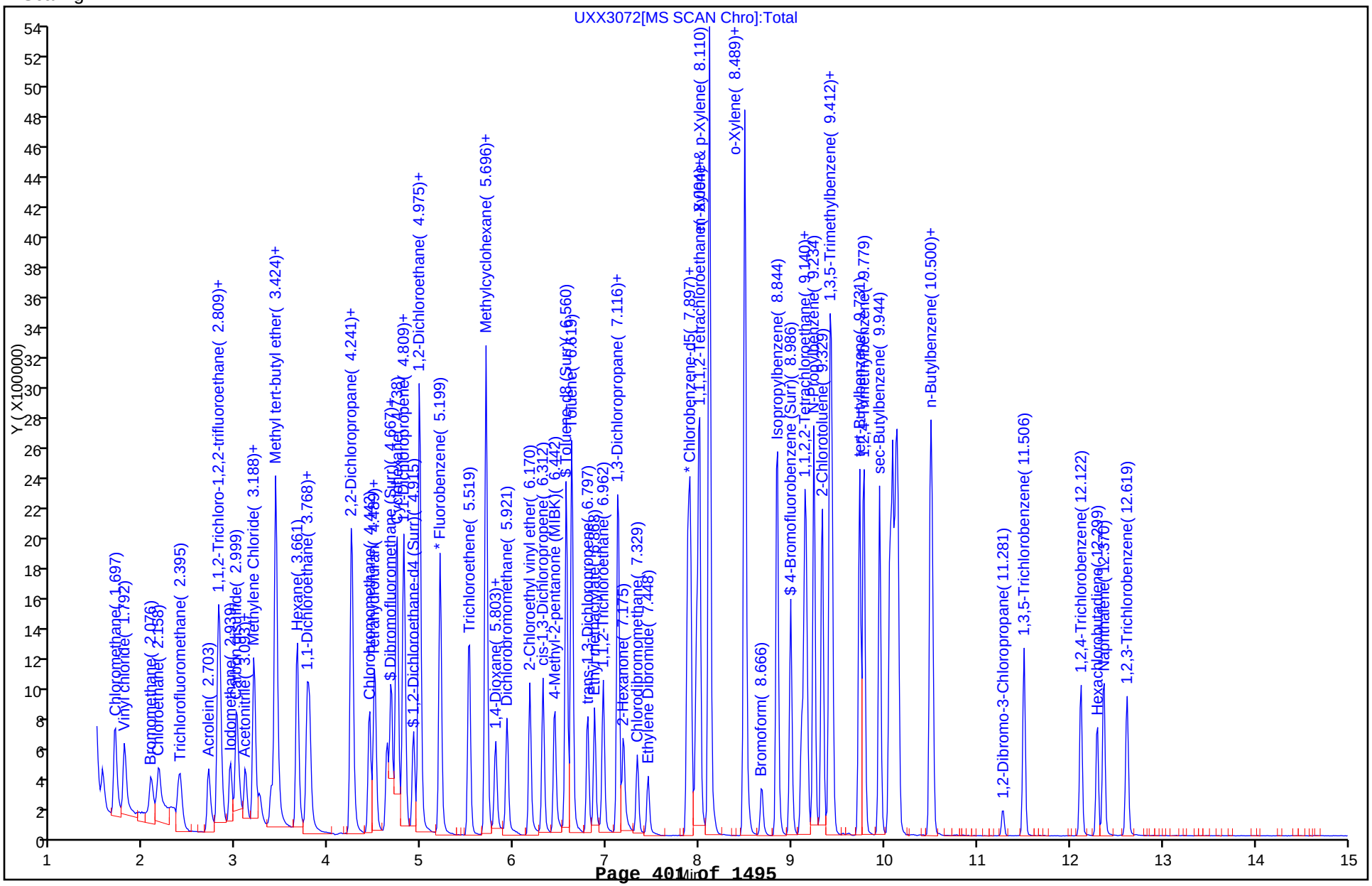
Report Date: 03-Apr-2013 11:29:06 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3072.D

Injection Date:	02-Apr-2013 13:52:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX10
Lims Batch ID:	80277	Lims Sample ID:	4
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3073.D
Lims ID: STD8260 L3 Client ID:
Inject. Date: 02-Apr-2013 14:13:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0018471-005
Misc. Info.:
Operator: 1904 Instrument ID: A3UX10
Purge Vol: 5.000 mL ALS Bottle#: 4
Lims Batch ID: 80277 Lims Sample ID: 5
Sublist: chrom-8260_10*sub25
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX10\20130402-18471.b\8260_10.m
Last Update: 03-Apr-2013 11:29:06 Calib Date: 02-Apr-2013 17:07:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3081.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK019

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.198	5.199	-0.001	99	1899626	10.0	
* 2 Chlorobenzene-d5	117	7.872	7.874	-0.002	88	1272589	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.120	10.122	-0.002	95	740002	10.0	
$ 5 Dibromofluoromethane (Surr)	113	4.630	4.631	-0.001	56	218837	4.99	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.914	4.915	-0.001	0	291388	5.07	
$ 7 Toluene-d8 (Surr)	98	6.559	6.560	-0.001	93	870878	4.92	
$ 8 4-Bromofluorobenzene (Surr)	95	8.984	8.986	-0.002	88	334891	5.01	
12 Dichlorodifluoromethane	85	1.553	1.555	-0.002	97	206542	5.01	
13 Chloromethane	50	1.695	1.697	-0.002	99	549588	5.01	
14 Vinyl chloride	62	1.790	1.792	-0.002	97	369625	5.01	
16 Bromomethane	94	2.086	2.076	0.010	88	136308	4.95	
17 Chloroethane	64	2.157	2.158	-0.001	96	204752	4.99	
19 Trichlorofluoromethane	101	2.382	2.383	-0.001	97	276289	5.24	
21 Acrolein	56	2.701	2.703	-0.002	96	351578	49.5	
23 1,1-Dichloroethene	96	2.808	2.809	-0.001	95	250444	5.08	
24 Acetone	43	2.819	2.821	-0.002	60	127589	9.51	
25 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.819	2.821	-0.002	89	189194	5.12	
26 Iodomethane	142	2.938	2.939	-0.001	98	388846	4.98	
27 Carbon disulfide	76	2.997	2.999	-0.001	100	825846	4.96	
28 Acetonitrile	41	3.044	3.046	-0.002	94	195670	53.7	
30 Methyl acetate	43	3.092	3.093	-0.001	97	410037	9.92	
31 Methylene Chloride	84	3.186	3.188	-0.002	95	325364	5.12	
32 2-Methyl-2-propanol	59	3.257	3.259	-0.002	93	199602	107.8	
33 Acrylonitrile	53	3.376	3.377	-0.001	100	197785	9.92	
35 Methyl tert-butyl ether	73	3.423	3.424	-0.001	89	611736	5.14	
34 trans-1,2-Dichloroethene	96	3.423	3.424	-0.001	82	291177	5.01	
36 Hexane	86	3.660	3.661	-0.001	96	58852	5.15	
37 1,1-Dichloroethane	63	3.766	3.768	-0.002	97	534121	4.89	
38 Vinyl acetate	86	3.790	3.791	-0.001	97	44832	4.91	
42 2-Butanone (MEK)	43	4.239	4.241	-0.002	47	230509	10.4	
43 cis-1,2-Dichloroethene	96	4.239	4.241	-0.002	86	300408	5.04	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
44 2,2-Dichloropropane	77	4.251	4.253	-0.002	72	259157	5.05	
48 Chlorobromomethane	128	4.441	4.442	-0.001	91	130955	4.91	
49 Tetrahydrofuran	42	4.488	4.489	-0.001	79	73937	4.95	
50 Chloroform	83	4.500	4.489	0.011	95	444361	5.02	
51 1,1,1-Trichloroethane	97	4.665	4.679	-0.014	91	346696	5.00	
52 Cyclohexane	56	4.736	4.738	-0.002	94	607572	5.08	
53 1,1-Dichloropropene	75	4.807	4.809	-0.002	89	345949	5.05	
54 Carbon tetrachloride	117	4.819	4.821	-0.002	87	282834	5.07	
57 Benzene	78	4.973	4.975	-0.002	96	1090372	4.99	
56 1,2-Dichloroethane	62	4.973	4.975	-0.002	54	373424	5.08	
61 Trichloroethene	130	5.517	5.507	0.010	96	267890	4.95	
64 1,2-Dichloropropane	63	5.695	5.696	-0.001	80	285629	5.02	
63 Methylcyclohexane	83	5.695	5.696	-0.001	90	393547	5.11	
67 1,4-Dioxane	88	5.801	5.803	-0.002	39	67618	269.9	
66 Dibromomethane	93	5.801	5.803	-0.002	88	131702	4.96	
68 Dichlorobromomethane	83	5.920	5.921	-0.001	96	266156	4.77	
70 2-Chloroethyl vinyl ether	63	6.168	6.170	-0.002	88	243031	9.13	
71 cis-1,3-Dichloropropene	75	6.310	6.312	-0.002	85	296762	4.58	
72 4-Methyl-2-pentanone (MIBK)	43	6.440	6.442	-0.002	97	471560	10.4	
73 Toluene	91	6.618	6.619	-0.001	94	1083814	4.87	
74 trans-1,3-Dichloropropene	75	6.795	6.797	-0.002	97	244704	4.58	
75 Ethyl methacrylate	69	6.866	6.868	-0.002	94	244660	4.68	
76 1,1,2-Trichloroethane	97	6.961	6.962	-0.001	92	202217	5.09	
77 1,3-Dichloropropane	76	7.115	7.116	-0.001	97	340001	4.88	
78 Tetrachloroethene	164	7.127	7.128	-0.001	97	205321	4.95	
79 2-Hexanone	43	7.186	7.175	0.011	99	298762	9.64	
81 Chlorodibromomethane	129	7.328	7.329	-0.001	90	180147	4.97	
83 Ethylene Dibromide	107	7.446	7.448	-0.002	97	187412	5.04	
85 Chlorobenzene	112	7.908	7.897	0.011	95	694989	5.00	
86 1,1,1,2-Tetrachloroethane	131	7.967	7.968	-0.001	85	220243	4.99	
87 Ethylbenzene	106	8.002	8.004	-0.002	98	366166	4.94	
88 m-Xylene & p-Xylene	106	8.109	8.110	-0.001	99	943071	10.1	
89 o-Xylene	106	8.487	8.489	-0.002	93	451061	5.07	
90 Styrene	104	8.499	8.501	-0.002	92	725497	5.00	
91 Bromoform	173	8.677	8.678	-0.001	97	101068	4.67	
92 Isopropylbenzene	105	8.842	8.844	-0.002	96	1089884	5.04	
95 1,1,2,2-Tetrachloroethane	83	9.103	9.104	-0.001	94	265678	5.12	
96 Bromobenzene	156	9.138	9.140	-0.002	95	300338	4.93	
97 1,2,3-Trichloropropane	110	9.150	9.152	-0.002	64	84846	5.19	
98 trans-1,4-Dichloro-2-butene	53	9.162	9.163	-0.001	60	67242	4.92	
99 N-Propylbenzene	120	9.233	9.234	-0.001	98	313733	5.06	
100 2-Chlorotoluene	126	9.327	9.329	-0.002	96	288997	5.03	
101 1,3,5-Trimethylbenzene	105	9.410	9.412	-0.002	93	906112	5.11	
102 4-Chlorotoluene	126	9.434	9.424	0.010	98	317959	5.17	
103 tert-Butylbenzene	119	9.730	9.731	-0.001	93	822158	5.14	
104 1,2,4-Trimethylbenzene	105	9.777	9.779	-0.002	77	935960	5.16	
105 sec-Butylbenzene	105	9.943	9.944	-0.001	93	1028071	5.14	
106 1,3-Dichlorobenzene	146	10.061	10.063	-0.002	85	562270	4.95	
107 4-Isopropyltoluene	119	10.085	10.086	-0.001	97	839036	5.14	
108 1,4-Dichlorobenzene	146	10.144	10.146	-0.002	94	592458	4.97	
110 n-Butylbenzene	91	10.487	10.489	-0.002	97	682781	4.94	
111 1,2-Dichlorobenzene	146	10.511	10.512	-0.001	96	540651	5.18	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
112 1,2-Dibromo-3-Chloropropane	157	11.280	11.281	-0.001	59	29966	4.85	
113 1,3,5-Trichlorobenzene	180	11.505	11.506	-0.001	97	303305	5.35	
114 1,2,4-Trichlorobenzene	180	12.120	12.122	-0.002	94	235570	5.18	
115 Hexachlorobutadiene	225	12.298	12.299	-0.001	93	127266	5.71	
116 Naphthalene	128	12.369	12.370	-0.001	99	554847	4.89	
117 1,2,3-Trichlorobenzene	180	12.617	12.619	-0.002	98	217550	4.93	
S 119 Trihalomethanes, Total	1				0		19.4	
S 120 1,2-Dichloroethene, Total	96				0		10.0	
S 121 1,3-Dichloropropene, Total	75				0		9.16	
S 122 Xylenes, Total	106				0		15.2	

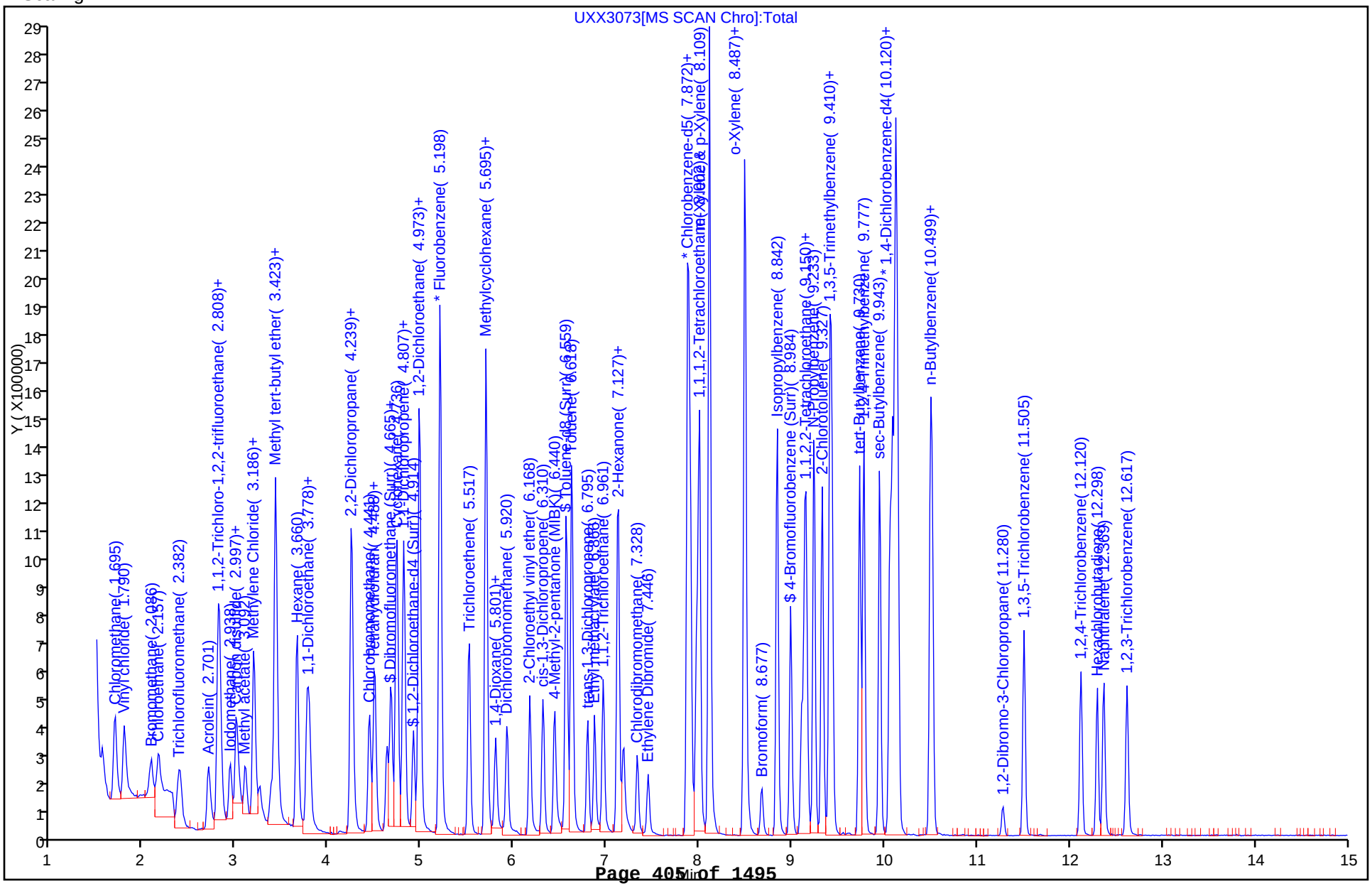
Report Date: 03-Apr-2013 11:29:07 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3073.D

Injection Date:	02-Apr-2013 14:13:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX10
Lims Batch ID:	80277	Lims Sample ID:	5
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3074.D		
Lims ID:	STD8260 L2	Client ID:	
Inject. Date:	02-Apr-2013 14:35:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	240-0018471-006		
Misc. Info.:			
Operator:	1904	Instrument ID:	A3UX10
Purge Vol:	5.000 mL	ALS Bottle#:	5
Lims Batch ID:	80277	Lims Sample ID:	6
Sublist:	chrom-8260_10*sub25		
Detector:	MS SCAN		
Method:	\\NCChrom\ChromData\A3UX10\20130402-18471.b\8260_10.m		
Last Update:	03-Apr-2013 11:29:07	Calib Date:	02-Apr-2013 17:07:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3081.D		
Limit Group:	MSV 8260DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624	Column Dia:	0.18 mm
Process Host:	XAWRK019		
First Level Reviewer: quayler		Date:	03-Apr-2013 08:25:37

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.197	5.199	-0.002	99	1859739	10.0	
* 2 Chlorobenzene-d5	117	7.871	7.874	-0.003	88	1225576	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.120	10.122	-0.002	94	723388	10.0	
$ 5 Dibromofluoromethane (Surr)	113	4.629	4.631	-0.002	51	85103	1.98	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.913	4.915	-0.002	0	111057	1.97	
$ 7 Toluene-d8 (Surr)	98	6.558	6.560	-0.002	94	320540	1.88	
$ 8 4-Bromofluorobenzene (Surr)	95	8.984	8.986	-0.002	85	123380	1.92	
12 Dichlorodifluoromethane	85	1.553	1.555	-0.002	88	76451	1.89	
13 Chloromethane	50	1.695	1.697	-0.002	99	219331	2.04	
14 Vinyl chloride	62	1.789	1.792	-0.003	93	146420	2.03	
16 Bromomethane	94	2.073	2.076	-0.003	88	57064	2.12	
17 Chloroethane	64	2.168	2.158	0.010	98	86103	2.15	
19 Trichlorofluoromethane	101	2.381	2.383	-0.002	92	102492	1.99	
21 Acrolein	56	2.701	2.703	-0.002	90	135071	19.4	
23 1,1-Dichloroethene	96	2.807	2.809	-0.002	94	97437	2.02	
24 Acetone	43	2.819	2.821	-0.002	50	58956	4.49	
25 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.819	2.821	-0.002	82	75005	2.08	
26 Iodomethane	142	2.937	2.939	-0.002	96	155647	2.04	
27 Carbon disulfide	76	2.996	2.999	-0.002	99	316459	1.94	
28 Acetonitrile	41	3.056	3.046	0.010	91	68403	19.2	
30 Methyl acetate	43	3.103	3.093	0.010	97	168438	4.16	
31 Methylene Chloride	84	3.198	3.188	0.010	96	142373	1.90	
32 2-Methyl-2-propanol	59	3.257	3.259	-0.002	84	68691	37.9	
33 Acrylonitrile	53	3.375	3.377	-0.002	97	78101	4.00	
35 Methyl tert-butyl ether	73	3.422	3.424	-0.002	89	220514	1.89	
34 trans-1,2-Dichloroethene	96	3.422	3.424	-0.002	88	114906	2.02	
36 Hexane	86	3.659	3.661	-0.002	94	22466	2.01	
37 1,1-Dichloroethane	63	3.765	3.768	-0.003	96	216504	2.03	
38 Vinyl acetate	86	3.801	3.791	0.010	96	16510	1.85	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
42 2-Butanone (MEK)	43	4.239	4.241	-0.002	43	80685	3.71	
43 cis-1,2-Dichloroethene	96	4.239	4.241	-0.002	87	114999	1.97	
44 2,2-Dichloropropane	77	4.251	4.253	-0.002	67	96485	1.92	
48 Chlorobromomethane	128	4.440	4.442	-0.002	88	53741	2.06	
49 Tetrahydrofuran	42	4.487	4.489	-0.002	23	32816	2.24	
50 Chloroform	83	4.499	4.489	0.010	84	175979	2.03	
51 1,1,1-Trichloroethane	97	4.677	4.679	-0.002	89	136533	2.01	
52 Cyclohexane	56	4.736	4.738	-0.002	93	227933	1.95	
53 1,1-Dichloropropene	75	4.807	4.809	-0.002	90	129757	1.94	
54 Carbon tetrachloride	117	4.819	4.821	-0.002	86	103877	1.90	
57 Benzene	78	4.984	4.975	0.009	96	419724	1.96	
56 1,2-Dichloroethane	62	4.972	4.975	-0.003	54	139709	1.94	
61 Trichloroethene	130	5.517	5.507	0.010	96	103093	1.95	
64 1,2-Dichloropropane	63	5.694	5.696	-0.002	77	106391	1.91	
63 Methylcyclohexane	83	5.694	5.696	-0.002	87	141740	1.88	
67 1,4-Dioxane	88	5.813	5.803	0.010	27	19933	81.3	
66 Dibromomethane	93	5.801	5.803	-0.002	90	52408	2.02	
68 Dichlorobromomethane	83	5.919	5.921	-0.002	93	103188	1.89	
70 2-Chloroethyl vinyl ether	63	6.168	6.170	-0.002	88	79402	3.74	
71 cis-1,3-Dichloropropene	75	6.310	6.312	-0.002	84	106586	2.00	
72 4-Methyl-2-pentanone (MIBK)	43	6.440	6.442	-0.002	95	156631	3.52	
73 Toluene	91	6.629	6.619	0.010	97	409076	1.91	
74 trans-1,3-Dichloropropene	75	6.795	6.797	-0.002	95	80437	1.92	
75 Ethyl methacrylate	69	6.866	6.868	-0.002	91	79734	1.93	
76 1,1,2-Trichloroethane	97	6.960	6.962	-0.002	93	72228	1.89	
77 1,3-Dichloropropane	76	7.114	7.116	-0.002	97	128770	1.92	
78 Tetrachloroethene	164	7.126	7.128	-0.002	94	80477	2.02	
79 2-Hexanone	43	7.185	7.175	0.010	96	114942	3.85	
81 Chlorodibromomethane	129	7.327	7.329	-0.002	85	62902	1.80	
83 Ethylene Dibromide	107	7.445	7.448	-0.003	88	70130	1.96	
85 Chlorobenzene	112	7.907	7.897	0.010	91	257533	1.92	
86 1,1,1,2-Tetrachloroethane	131	7.966	7.968	-0.002	81	82028	1.93	
87 Ethylbenzene	106	8.002	8.004	-0.002	98	134042	1.88	
88 m-Xylene & p-Xylene	106	8.108	8.110	-0.002	99	336257	3.75	
89 o-Xylene	106	8.487	8.489	-0.002	89	163835	1.91	
90 Styrene	104	8.499	8.501	-0.002	89	250408	1.79	
91 Bromoform	173	8.676	8.678	-0.002	89	37795	1.81	
92 Isopropylbenzene	105	8.842	8.844	-0.002	95	381347	1.83	
95 1,1,2,2-Tetrachloroethane	83	9.102	9.104	-0.002	96	98742	1.95	
96 Bromobenzene	156	9.138	9.140	-0.002	93	116132	1.95	
97 1,2,3-Trichloropropane	110	9.161	9.152	0.009	77	30486	1.91	
98 trans-1,4-Dichloro-2-butene	53	9.161	9.163	-0.002	60	25488	2.00	
99 N-Propylbenzene	120	9.232	9.234	-0.002	97	111202	1.84	
100 2-Chlorotoluene	126	9.327	9.329	-0.002	96	104733	1.86	
101 1,3,5-Trimethylbenzene	105	9.410	9.412	-0.002	90	317689	1.83	
102 4-Chlorotoluene	126	9.433	9.424	0.009	98	113390	1.89	
103 tert-Butylbenzene	119	9.729	9.731	-0.002	93	283704	1.82	
104 1,2,4-Trimethylbenzene	105	9.777	9.779	-0.002	71	331606	1.87	
105 sec-Butylbenzene	105	9.942	9.944	-0.002	92	358671	1.84	
106 1,3-Dichlorobenzene	146	10.061	10.063	-0.002	97	226317	2.04	
107 4-Isopropyltoluene	119	10.084	10.086	-0.002	96	292347	1.83	
108 1,4-Dichlorobenzene	146	10.143	10.146	-0.003	89	241060	2.07	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
110 n-Butylbenzene	91	10.498	10.489	0.009	95	254834	1.89	
111 1,2-Dichlorobenzene	146	10.510	10.512	-0.002	95	202537	1.98	
112 1,2-Dibromo-3-Chloropropane	157	11.267	11.281	-0.014	37	12238	2.03	
113 1,3,5-Trichlorobenzene	180	11.504	11.506	-0.002	96	116668	2.10	
114 1,2,4-Trichlorobenzene	180	12.119	12.122	-0.003	91	97752	2.20	
115 Hexachlorobutadiene	225	12.297	12.299	-0.002	87	54419	1.98	
116 Naphthalene	128	12.368	12.370	-0.002	99	216702	1.96	
117 1,2,3-Trichlorobenzene	180	12.616	12.619	-0.003	97	92160	2.14	
S 119 Trihalomethanes, Total	1				0		7.53	
S 120 1,2-Dichloroethene, Total	96				0		3.99	
S 121 1,3-Dichloropropene, Total	75				0		3.92	
S 122 Xylenes, Total	106				0		5.66	

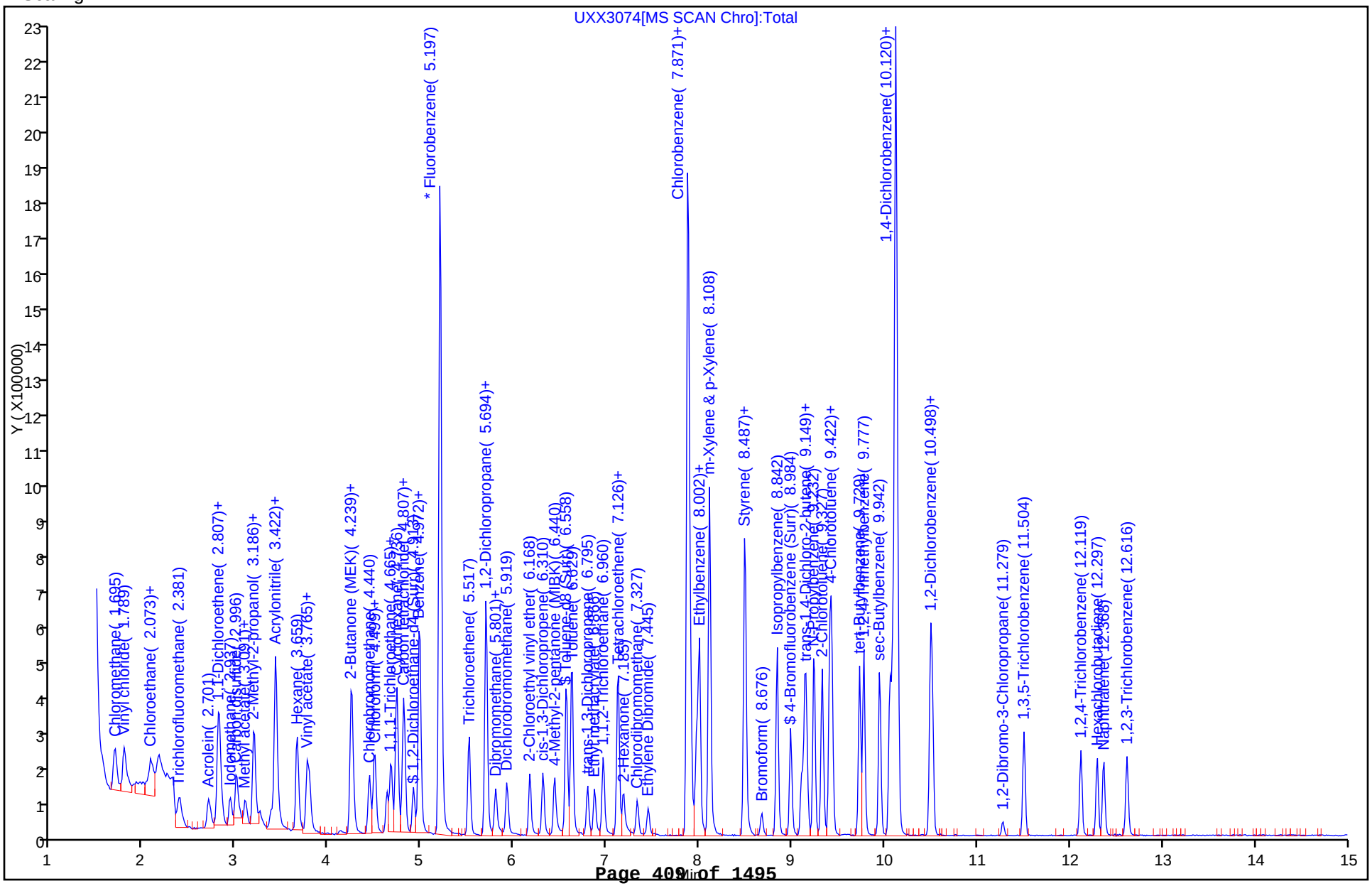
Report Date: 03-Apr-2013 11:29:07 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3074.D

Injection Date:	02-Apr-2013 14:35:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX10
Lims Batch ID:	80277	Lims Sample ID:	6
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3075.D
Lims ID: STD8260 L1 Client ID:
Inject. Date: 02-Apr-2013 14:56:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0018471-007
Misc. Info.:
Operator: 1904 Instrument ID: A3UX10
Purge Vol: 5.000 mL ALS Bottle#: 6
Lims Batch ID: 80277 Lims Sample ID: 7
Sublist: chrom-8260_10*sub25
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX10\20130402-18471.b\8260_10.m
Last Update: 03-Apr-2013 11:29:07 Calib Date: 02-Apr-2013 17:07:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3081.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK019

First Level Reviewer: quayler Date: 02-Apr-2013 15:17:29

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.198	5.199	-0.001	99	1881147	10.0	
* 2 Chlorobenzene-d5	117	7.872	7.874	-0.002	89	1226930	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.120	10.122	-0.002	96	689336	10.0	
$ 5 Dibromofluoromethane (Surr)	113	4.630	4.631	-0.001	51	42633	0.9827	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.914	4.915	-0.001	0	55051	0.9674	
$ 7 Toluene-d8 (Surr)	98	6.558	6.560	-0.002	90	150483	0.8809	
$ 8 4-Bromofluorobenzene (Surr)	95	8.984	8.986	-0.002	82	61147	0.9494	
12 Dichlorodifluoromethane	85	1.553	1.555	-0.002	78	41808	1.02	
13 Chloromethane	50	1.695	1.697	-0.002	98	111283	1.02	
14 Vinyl chloride	62	1.790	1.792	-0.002	88	75970	1.04	
16 Bromomethane	94	2.074	2.076	-0.002	80	30796	1.13	
17 Chloroethane	64	2.168	2.158	0.010	81	43323	1.07	
19 Trichlorofluoromethane	101	2.369	2.383	-0.014	85	50765	0.9731	
21 Acrolein	56	2.701	2.703	-0.002	88	65886	9.36	
23 1,1-Dichloroethene	96	2.807	2.809	-0.002	88	50773	1.04	
24 Acetone	43	2.831	2.821	0.010	70	29614	2.23	
25 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.819	2.821	-0.002	73	40009	1.09	
26 Iodomethane	142	2.937	2.939	-0.002	95	76936	1.00	
27 Carbon disulfide	76	2.997	2.999	-0.001	98	160407	0.9733	
28 Acetonitrile	41	3.044	3.046	-0.002	94	33296	9.22	
30 Methyl acetate	43	3.091	3.093	-0.002	97	82138	2.01	
31 Methylene Chloride	84	3.198	3.188	0.010	96	94480	1.01	
32 2-Methyl-2-propanol	59	3.269	3.259	0.010	92	34310	18.7	
33 Acrylonitrile	53	3.375	3.377	-0.002	94	34665	1.76	
35 Methyl tert-butyl ether	73	3.423	3.424	-0.001	90	113631	0.9638	
34 trans-1,2-Dichloroethene	96	3.434	3.424	0.010	91	55970	0.9730	
36 Hexane	86	3.647	3.661	-0.014	91	10895	0.9621	
37 1,1-Dichloroethane	63	3.766	3.768	-0.002	89	108589	1.00	
38 Vinyl acetate	86	3.789	3.791	-0.002	94	6741	0.7459	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
42 2-Butanone (MEK)	43	4.239	4.241	-0.002	43	48427	2.20	
43 cis-1,2-Dichloroethene	96	4.239	4.241	-0.002	84	57896	0.9803	
44 2,2-Dichloropropane	77	4.251	4.253	-0.002	69	48972	0.9640	
48 Chlorobromomethane	128	4.440	4.442	-0.002	74	25849	0.9784	
49 Tetrahydrofuran	42	4.488	4.489	-0.001	25	15476	1.05	
50 Chloroform	83	4.499	4.489	0.010	70	88100	1.00	
51 1,1,1-Trichloroethane	97	4.665	4.679	-0.014	87	65682	0.9567	
52 Cyclohexane	56	4.736	4.738	-0.002	92	110292	0.9308	
53 1,1-Dichloropropene	75	4.807	4.809	-0.002	86	63715	0.9398	
54 Carbon tetrachloride	117	4.819	4.821	-0.002	77	52715	0.9540	
57 Benzene	78	4.985	4.975	0.010	96	214206	0.99	
56 1,2-Dichloroethane	62	4.973	4.975	-0.002	53	72524	1.00	
61 Trichloroethene	130	5.517	5.507	0.010	92	52893	0.9879	
64 1,2-Dichloropropane	63	5.706	5.696	0.010	74	54191	0.9623	
63 Methylcyclohexane	83	5.694	5.696	-0.002	89	73305	0.9604	
67 1,4-Dioxane	88	5.825	5.803	0.022	21	13835	55.8	
66 Dibromomethane	93	5.801	5.803	-0.002	81	25275	0.9613	
68 Dichlorobromomethane	83	5.919	5.921	-0.002	92	48876	0.8843	
70 2-Chloroethyl vinyl ether	63	6.168	6.170	-0.002	73	40096	2.39	
71 cis-1,3-Dichloropropene	75	6.310	6.312	-0.002	66	45884	1.14	
72 4-Methyl-2-pentanone (MIBK)	43	6.440	6.442	-0.002	89	77389	1.72	
73 Toluene	91	6.629	6.619	0.010	96	201451	0.9387	
74 trans-1,3-Dichloropropene	75	6.795	6.797	-0.002	75	38420	1.20	
75 Ethyl methacrylate	69	6.866	6.868	-0.002	86	35308	1.14	
76 1,1,2-Trichloroethane	97	6.961	6.962	-0.001	80	38038	0.99	
77 1,3-Dichloropropane	76	7.114	7.116	-0.002	90	66587	0.99	
78 Tetrachloroethene	164	7.126	7.128	-0.002	92	39311	0.9834	
79 2-Hexanone	43	7.185	7.175	0.010	94	51872	1.74	
81 Chlorodibromomethane	129	7.327	7.329	-0.002	82	28260	0.8086	
83 Ethylene Dibromide	107	7.446	7.448	-0.002	78	34243	0.9545	
85 Chlorobenzene	112	7.907	7.897	0.010	91	133342	0.99	
86 1,1,1,2-Tetrachloroethane	131	7.978	7.968	0.010	76	39556	0.9301	
87 Ethylbenzene	106	8.002	8.004	-0.002	98	65475	0.9154	
88 m-Xylene & p-Xylene	106	8.108	8.110	-0.002	99	157001	1.75	
89 o-Xylene	106	8.487	8.489	-0.002	88	75803	0.8832	
90 Styrene	104	8.499	8.501	-0.002	86	120729	0.8632	
91 Bromoform	173	8.676	8.678	-0.002	75	19701	0.9434	
92 Isopropylbenzene	105	8.842	8.844	-0.002	91	182617	0.8762	
95 1,1,2,2-Tetrachloroethane	83	9.102	9.104	-0.002	81	48615	1.01	
96 Bromobenzene	156	9.138	9.140	-0.002	93	53862	0.9488	
97 1,2,3-Trichloropropane	110	9.150	9.152	-0.002	56	15170	1.00	
98 trans-1,4-Dichloro-2-butene	53	9.162	9.163	-0.001	55	9478	0.8308	
99 N-Propylbenzene	120	9.233	9.234	-0.002	98	48604	0.8420	
100 2-Chlorotoluene	126	9.327	9.329	-0.002	95	51192	0.9559	
101 1,3,5-Trimethylbenzene	105	9.410	9.412	-0.002	92	139445	0.8437	
102 4-Chlorotoluene	126	9.434	9.424	0.010	97	49465	0.8633	
103 tert-Butylbenzene	119	9.729	9.731	-0.002	90	130568	0.8770	
104 1,2,4-Trimethylbenzene	105	9.777	9.779	-0.002	68	142968	0.8457	
105 sec-Butylbenzene	105	9.942	9.944	-0.002	89	165149	0.8867	
106 1,3-Dichlorobenzene	146	10.061	10.063	-0.002	89	108558	1.03	
107 4-Isopropyltoluene	119	10.084	10.086	-0.002	95	130276	0.8564	
108 1,4-Dichlorobenzene	146	10.144	10.146	-0.002	77	113782	1.02	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
110 n-Butylbenzene	91	10.487	10.489	-0.002	92	113228	0.8803	
111 1,2-Dichlorobenzene	146	10.510	10.512	-0.002	94	102327	1.05	
112 1,2-Dibromo-3-Chloropropane	157	11.280	11.281	-0.001	11	5890	1.02	
113 1,3,5-Trichlorobenzene	180	11.504	11.506	-0.002	90	56023	1.06	
114 1,2,4-Trichlorobenzene	180	12.120	12.122	-0.002	83	46838	1.10	
115 Hexachlorobutadiene	225	12.297	12.299	-0.002	78	27516	0.6192	
116 Naphthalene	128	12.368	12.370	-0.002	100	95560	0.9050	
117 1,2,3-Trichlorobenzene	180	12.617	12.619	-0.002	88	45409	1.11	
S 119 Trihalomethanes, Total	1				0		3.64	
S 120 1,2-Dichloroethene, Total	96				0		1.95	
S 121 1,3-Dichloropropene, Total	75				0		2.34	
S 122 Xylenes, Total	106				0		2.63	

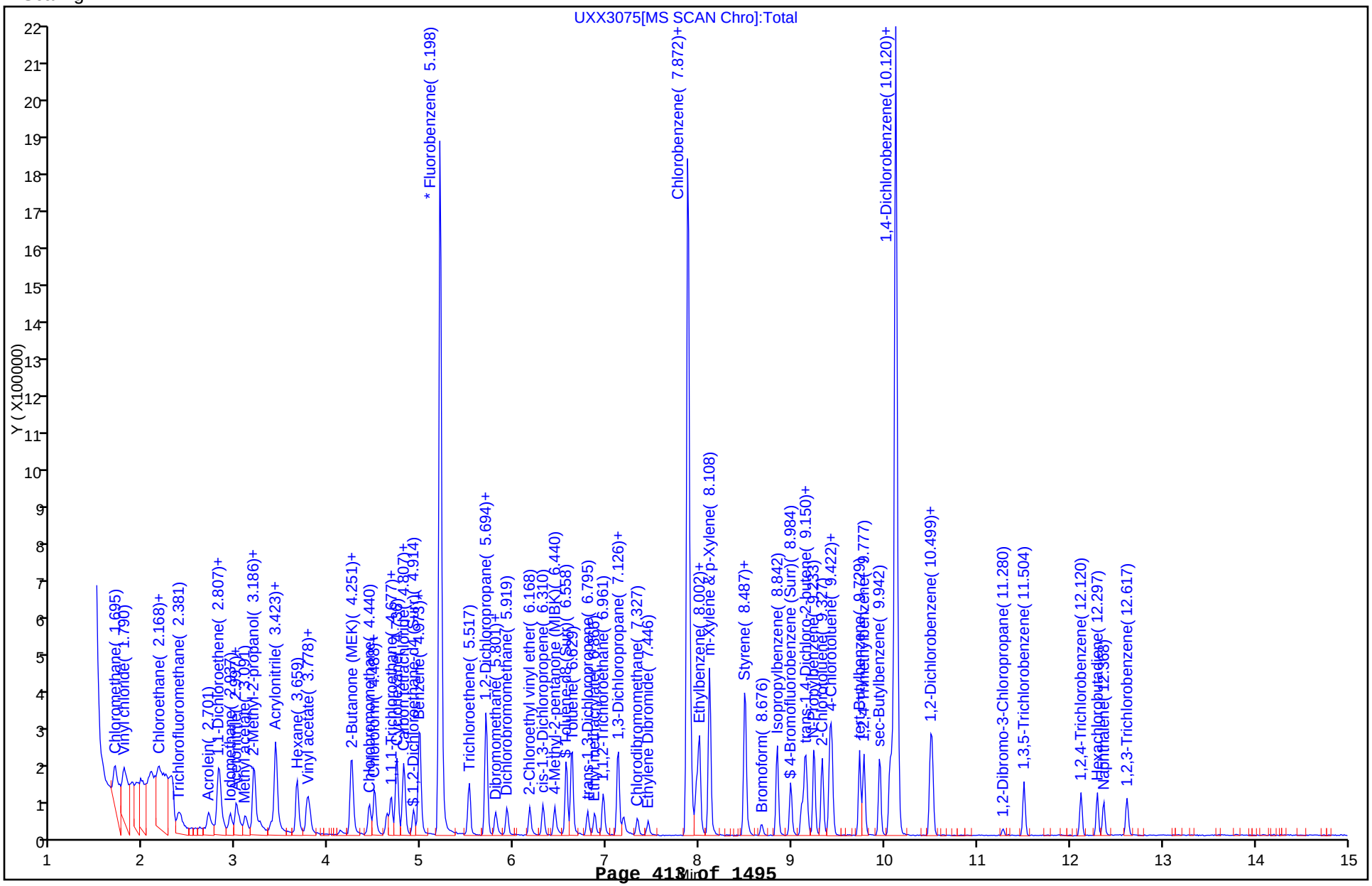
Report Date: 03-Apr-2013 11:29:08 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3075.D

Injection Date:	02-Apr-2013 14:56:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX10
Lims Batch ID:	80277	Lims Sample ID:	7
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: ICV 240-80277/14 Calibration Date: 04/02/2013 17:28

Instrument ID: A3UX10 Calib Start Date: 04/02/2013 13:09

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/02/2013 14:56

Lab File ID: UXX3082.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2171	0.2052	0.1000	0.00945	0.0100	-5.5	20.0
Chloromethane	Ave	0.5772	0.5385	0.1000	0.00933	0.0100	-6.7	20.0
Vinyl chloride	Ave	0.3881	0.3728	0.1000	0.00961	0.0100	-3.9	20.0
Bromomethane	Ave	0.1448	0.1243	0.0500	0.00859	0.0100	-14.1	20.0
Chloroethane	Ave	0.2158	0.2028	0.0500	0.00939	0.0100	-6.1	20.0
Trichlorofluoromethane	Ave	0.2773	0.2741	0.1000	0.00988	0.0100	-1.2	20.0
Acrolein	Ave	0.0374	0.0404		0.0324	0.0300	8.1	20.0
1,1-Dichloroethene	Ave	0.2597	0.2475	0.1000	0.00953	0.0100	-4.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1943	0.1966	0.0500	0.0101	0.0100	1.1	20.0
Acetone	Ave	0.0707	0.0627	0.0500	0.0178	0.0200	-11.2	20.0
Iodomethane	Ave	0.4108	0.3788		0.00922	0.0100	-7.8	20.0
Carbon disulfide	Ave	0.8761	0.7972	0.1000	0.00910	0.0100	-9.0	20.0
Acetonitrile	Ave	0.0192	0.0182		0.0285	0.0300	-5.0	20.0
Methyl acetate	Ave	0.2176	0.2355	0.1000	0.0108	0.0100	8.2	20.0
Methylene Chloride	Lin1		0.3228	0.1000	0.0103	0.0100	2.7	20.0
2-Methyl-2-propanol	Ave	0.0097	0.0084		0.171	0.200	-14.3	20.0
Acrylonitrile	Ave	0.1050	0.0975		0.0279	0.0300	-7.1	20.0
Methyl tert-butyl ether	Ave	0.6267	0.6167	0.1000	0.00984	0.0100	-1.6	20.0
trans-1,2-Dichloroethene	Ave	0.3058	0.2918	0.1000	0.00954	0.0100	-4.6	20.0
1,1-Dichloroethane	Ave	0.5745	0.5731	0.1000	0.00997	0.0100	-0.3	20.0
Vinyl acetate	Ave	0.0480	0.0381		0.00793	0.0100	-20.7*	20.0
2-Butanone (MEK)	Ave	0.1169	0.1025	0.0500	0.0175	0.0200	-12.3	20.0
cis-1,2-Dichloroethene	Ave	0.3140	0.3021	0.1000	0.00962	0.0100	-3.8	20.0
2,2-Dichloropropane	Ave	0.2701	0.2494		0.00924	0.0100	-7.6	20.0
Bromochloromethane	Ave	0.1405	0.1328		0.00945	0.0100	-5.5	20.0
Chloroform	Ave	0.4662	0.4525	0.2000	0.00970	0.0100	-3.0	20.0
1,1,1-Trichloroethane	Ave	0.3650	0.3392	0.1000	0.00929	0.0100	-7.1	20.0
Cyclohexane	Ave	0.6299	0.5825	0.1000	0.00925	0.0100	-7.5	20.0
1,1-Dichloropropene	Ave	0.3604	0.3583		0.00994	0.0100	-0.6	20.0
Carbon tetrachloride	Ave	0.2938	0.2690	0.1000	0.00916	0.0100	-8.4	20.0
1,2-Dichloroethane	Ave	0.3868	0.3891	0.1000	0.0101	0.0100	0.6	20.0
Benzene	Ave	1.150	1.133	0.5000	0.00986	0.0100	-1.4	20.0
Trichloroethene	Ave	0.2846	0.2686	0.2000	0.00944	0.0100	-5.6	20.0
1,2-Dichloropropane	Ave	0.2994	0.2949	0.1000	0.00985	0.0100	-1.5	20.0
Methylcyclohexane	Ave	0.4057	0.3786	0.1000	0.00933	0.0100	-6.7	20.0
Dibromomethane	Ave	0.1398	0.1388		0.00993	0.0100	-0.7	20.0
Bromodichloromethane	Ave	0.2938	0.2867	0.1000	0.00976	0.0100	-2.4	20.0
cis-1,3-Dichloropropene	Lin1		0.3043	0.1500	0.00844	0.0100	-15.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2391	0.2465	0.0500	0.0206	0.0200	3.1	20.0
Toluene	Ave	1.749	1.696	0.4000	0.00969	0.0100	-3.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: ICV 240-80277/14 Calibration Date: 04/02/2013 17:28

Instrument ID: A3UX10 Calib Start Date: 04/02/2013 13:09

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/02/2013 14:56

Lab File ID: UXX3082.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
trans-1,3-Dichloropropene	Lin1		0.3966	0.1000	0.00886	0.0100	-11.4	20.0
1,1,2-Trichloroethane	Ave	0.3124	0.3089	0.1000	0.00989	0.0100	-1.1	20.0
1,3-Dichloropropane	Ave	0.5471	0.5513		0.0101	0.0100	0.8	20.0
Tetrachloroethene	Ave	0.3258	0.3149	0.2000	0.00967	0.0100	-3.3	20.0
2-Hexanone	Ave	0.2436	0.2490	0.0500	0.0204	0.0200	2.2	20.0
Dibromochloromethane	Ave	0.2849	0.2680		0.00941	0.0100	-5.9	20.0
1,2-Dibromoethane	Ave	0.2924	0.2851		0.00975	0.0100	-2.5	20.0
Chlorobenzene	Ave	1.093	1.051	0.3000	0.00962	0.0100	-3.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3466	0.3234		0.00933	0.0100	-6.7	20.0
Ethylbenzene	Ave	0.5830	0.5628		0.00965	0.0100	-3.5	20.0
m-Xylene & p-Xylene	Ave	0.7320	0.7313		0.0200	0.0200	-0.1	20.0
o-Xylene	Ave	0.6996	0.7099		0.0101	0.0100	1.5	20.0
Styrene	Ave	1.140	1.198	0.3000	0.0105	0.0100	5.1	20.0
Bromoform	Ave	0.1702	0.1571	0.1000	0.00923	0.0100	-7.7	20.0
Isopropylbenzene	Ave	1.699	1.650	0.1000	0.00972	0.0100	-2.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7007	0.6674	0.3000	0.00952	0.0100	-4.8	20.0
Bromobenzene	Ave	0.8236	0.8056		0.00978	0.0100	-2.2	20.0
1,2,3-Trichloropropane	Ave	0.2211	0.2220		0.0100	0.0100	0.4	20.0
N-Propylbenzene	Ave	0.8374	0.8654		0.0103	0.0100	3.4	20.0
2-Chlorotoluene	Ave	0.7769	0.7570		0.00974	0.0100	-2.6	20.0
1,3,5-Trimethylbenzene	Ave	2.398	2.351		0.00980	0.0100	-2.0	20.0
4-Chlorotoluene	Ave	0.8312	0.8265		0.00994	0.0100	-0.6	20.0
tert-Butylbenzene	Ave	2.160	2.141		0.00991	0.0100	-0.9	20.0
1,2,4-Trimethylbenzene	Ave	2.452	2.484		0.0101	0.0100	1.3	20.0
sec-Butylbenzene	Ave	2.702	2.568		0.00950	0.0100	-5.0	20.0
1,3-Dichlorobenzene	Ave	1.535	1.447	0.6000	0.00943	0.0100	-5.7	20.0
4-Isopropyltoluene	Ave	2.207	2.250		0.0102	0.0100	2.0	20.0
1,4-Dichlorobenzene	Ave	1.611	1.496	0.5000	0.00929	0.0100	-7.1	20.0
n-Butylbenzene	Ave	1.866	1.764		0.00945	0.0100	-5.5	20.0
1,2-Dichlorobenzene	Ave	1.411	1.363	0.4000	0.00966	0.0100	-3.4	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0834	0.0776	0.0500	0.00930	0.0100	-7.0	20.0
1,2,4-Trichlorobenzene	Ave	0.6150	0.4431	0.2000	0.00721	0.0100	-27.9*	20.0
Hexachlorobutadiene	Lin		0.1813		0.00607	0.0100	-39.3*	20.0
Naphthalene	Ave	1.532	0.9291		0.00607	0.0100	-39.3*	20.0
1,2,3-Trichlorobenzene	Ave	0.5959	0.3492		0.00586	0.0100	-41.4*	20.0
Dibromofluoromethane (Surr)	Ave	0.2306	0.2085		0.00904	0.0100	-9.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3025	0.2946		0.00974	0.0100	-2.6	20.0
Toluene-d8 (Surr)	Ave	1.392	1.333		0.00958	0.0100	-4.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5249	0.5161		0.00983	0.0100	-1.7	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3082.D
Lims ID: ICV Client ID:
Inject. Date: 02-Apr-2013 17:28:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018471-014
Misc. Info.:
Operator: 1904 Instrument ID: A3UX10
Purge Vol: 5.000 mL ALS Bottle#: 13
Lims Batch ID: 80277 Lims Sample ID: 14
Sublist:
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX10\20130402-18471.b\8260_10.m
Last Update: 03-Apr-2013 11:29:11 Calib Date: 02-Apr-2013 17:07:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3081.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK019

First Level Reviewer: quayler Date: 03-Apr-2013 08:48:03

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.197	5.209	-0.012	99	1993798	10.0	
* 2 Chlorobenzene-d5	117	7.872	7.871	0.001	88	1310576	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.120	10.119	0.001	92	752623	10.0	
$ 5 Dibromofluoromethane (Surr)	113	4.629	4.631	-0.002	58	415657	9.04	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.913	4.915	-0.002	0	587347	9.74	
$ 7 Toluene-d8 (Surr)	98	6.558	6.560	-0.002	90	1747408	9.58	
$ 8 4-Bromofluorobenzene (Surr)	95	8.984	8.986	-0.002	86	676384	9.83	
12 Dichlorodifluoromethane	85	1.553	1.555	-0.002	98	409121	9.45	
13 Chloromethane	50	1.695	1.697	-0.002	99	1073589	9.33	
14 Vinyl chloride	62	1.790	1.792	-0.002	82	743270	9.61	
16 Bromomethane	94	2.085	2.076	0.009	88	247916	8.59	
17 Chloroethane	64	2.168	2.158	0.010	98	404251	9.39	
19 Trichlorofluoromethane	101	2.381	2.383	-0.002	98	546399	9.88	
20 Ethyl ether	59	2.594	2.605	-0.011	97	534787	10.4	
21 Acrolein	56	2.701	2.703	-0.002	91	241786	32.4	
23 1,1-Dichloroethene	96	2.807	2.809	-0.002	95	493522	9.53	
24 Acetone	43	2.819	2.821	-0.002	95	250062	17.8	
25 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.819	2.821	-0.002	89	391893	10.1	
26 Iodomethane	142	2.937	2.939	-0.002	97	755208	9.22	
27 Carbon disulfide	76	3.008	2.999	0.010	100	1589373	9.10	
28 Acetonitrile	41	3.044	3.046	-0.002	88	109022	28.5	
30 Methyl acetate	43	3.103	3.093	0.010	98	469431	10.8	
31 Methylene Chloride	84	3.198	3.188	0.010	92	643638	10.3	
32 2-Methyl-2-propanol	59	3.257	3.259	-0.002	92	333007	171.4	
33 Acrylonitrile	53	3.375	3.377	-0.002	99	583394	27.9	
35 Methyl tert-butyl ether	73	3.422	3.424	-0.002	88	1229602	9.84	
34 trans-1,2-Dichloroethene	96	3.422	3.424	-0.002	88	581686	9.54	
36 Hexane	86	3.659	3.661	-0.002	95	120995	10.1	
37 1,1-Dichloroethane	63	3.766	3.768	-0.002	96	1142623	9.97	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
38 Vinyl acetate	86	3.801	3.791	0.010	95	75955	7.93	
39 Isopropyl ether	87	3.825	3.824	0.001	98	474773	9.95	
42 2-Butanone (MEK)	43	4.239	4.241	-0.002	49	408549	17.5	
43 cis-1,2-Dichloroethene	96	4.239	4.241	-0.002	86	602400	9.62	
44 2,2-Dichloropropane	77	4.251	4.253	-0.002	71	497297	9.24	
48 Chlorobromomethane	128	4.440	4.442	-0.002	91	264751	9.45	
49 Tetrahydrofuran	42	4.487	4.489	-0.002	85	144145	9.19	
50 Chloroform	83	4.499	4.489	0.010	96	902129	9.70	
51 1,1,1-Trichloroethane	97	4.677	4.679	-0.002	91	676338	9.29	
52 Cyclohexane	56	4.736	4.738	-0.002	93	1161426	9.25	
53 1,1-Dichloropropene	75	4.807	4.809	-0.002	93	714416	9.94	
54 Carbon tetrachloride	117	4.819	4.821	-0.002	88	536234	9.16	
55 Isobutyl alcohol	41	4.842	4.842	0.0	90	651510	578.0	
57 Benzene	78	4.984	4.975	0.009	97	2259598	9.86	
56 1,2-Dichloroethane	62	4.973	4.975	-0.002	54	775767	10.1	
61 Trichloroethene	130	5.517	5.507	0.010	98	535569	9.44	
64 1,2-Dichloropropane	63	5.694	5.696	-0.002	84	588009	9.85	
63 Methylcyclohexane	83	5.694	5.696	-0.002	93	754870	9.33	
66 Dibromomethane	93	5.801	5.803	-0.002	88	276828	9.93	
68 Dichlorobromomethane	83	5.919	5.921	-0.002	98	571627	9.76	
70 2-Chloroethyl vinyl ether	63	6.168	6.170	-0.002	91	258773	9.25	
71 cis-1,3-Dichloropropene	75	6.310	6.312	-0.002	89	606749	8.44	
72 4-Methyl-2-pentanone (MIBK)	43	6.440	6.442	-0.002	98	982798	20.6	
73 Toluene	91	6.629	6.619	0.010	98	2222358	9.69	
74 trans-1,3-Dichloropropene	75	6.795	6.797	-0.002	97	519741	8.86	
76 1,1,2-Trichloroethane	97	6.961	6.962	-0.002	93	404786	9.89	
77 1,3-Dichloropropane	76	7.114	7.116	-0.002	97	722487	10.1	
78 Tetrachloroethene	164	7.126	7.128	-0.002	96	412725	9.67	
79 2-Hexanone	43	7.185	7.175	0.010	100	652756	20.4	
81 Chlorodibromomethane	129	7.327	7.329	-0.002	90	351173	9.41	
83 Ethylene Dibromide	107	7.446	7.448	-0.002	96	373701	9.75	
85 Chlorobenzene	112	7.907	7.897	0.010	95	1377237	9.62	
86 1,1,1,2-Tetrachloroethane	131	7.966	7.968	-0.002	84	423772	9.33	
87 Ethylbenzene	106	8.002	8.004	-0.002	98	737636	9.65	
88 m-Xylene & p-Xylene	106	8.108	8.110	-0.002	100	1916716	20.0	
89 o-Xylene	106	8.487	8.489	-0.002	91	930396	10.1	
90 Styrene	104	8.499	8.501	-0.002	91	1570620	10.5	
91 Bromoform	173	8.676	8.678	-0.002	97	205847	9.23	
92 Isopropylbenzene	105	8.842	8.844	-0.002	96	2163079	9.72	
94 Cyclohexanone	55	8.925	8.924	0.001	91	211550	25.4	
95 1,1,2,2-Tetrachloroethane	83	9.102	9.104	-0.002	89	502271	9.52	
96 Bromobenzene	156	9.138	9.140	-0.002	95	606273	9.78	
97 1,2,3-Trichloropropane	110	9.150	9.152	-0.002	77	167085	10.0	
98 trans-1,4-Dichloro-2-butene	53	9.161	9.163	-0.002	77	265185	17.0	
99 N-Propylbenzene	120	9.244	9.234	0.010	97	651328	10.3	
100 2-Chlorotoluene	126	9.327	9.329	-0.002	96	569721	9.74	
101 1,3,5-Trimethylbenzene	105	9.410	9.412	-0.002	93	1769251	9.80	
102 4-Chlorotoluene	126	9.434	9.424	0.010	97	622066	9.94	
103 tert-Butylbenzene	119	9.729	9.731	-0.002	92	1611484	9.91	
104 1,2,4-Trimethylbenzene	105	9.777	9.779	-0.002	73	1869588	10.1	
105 sec-Butylbenzene	105	9.942	9.944	-0.002	94	1932709	9.50	
106 1,3-Dichlorobenzene	146	10.061	10.063	-0.002	89	1088850	9.43	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
107 4-Isopropyltoluene	119	10.084	10.086	-0.002	91	1693533	10.2	
108 1,4-Dichlorobenzene	146	10.144	10.146	-0.002	94	1126202	9.29	
109 1,2,3-Trimethylbenzene	105	10.191	10.190	0.001	96	1894820	10.0	
110 n-Butylbenzene	91	10.499	10.489	0.010	95	1327792	9.45	
111 1,2-Dichlorobenzene	146	10.510	10.512	-0.002	97	1025621	9.66	
112 1,2-Dibromo-3-Chloropropane	157	11.279	11.281	-0.002	69	58407	9.30	
114 1,2,4-Trichlorobenzene	180	12.120	12.122	-0.002	95	333503	7.21	
115 Hexachlorobutadiene	225	12.297	12.299	-0.002	95	136470	6.07	
116 Naphthalene	128	12.368	12.370	-0.002	99	699293	6.07	
117 1,2,3-Trichlorobenzene	180	12.617	12.619	-0.002	98	262813	5.86	
S 119 Trihalomethanes, Total	1				0		38.1	
S 120 1,2-Dichloroethene, Total	96				0		19.2	
S 122 Xylenes, Total	106				0		30.1	

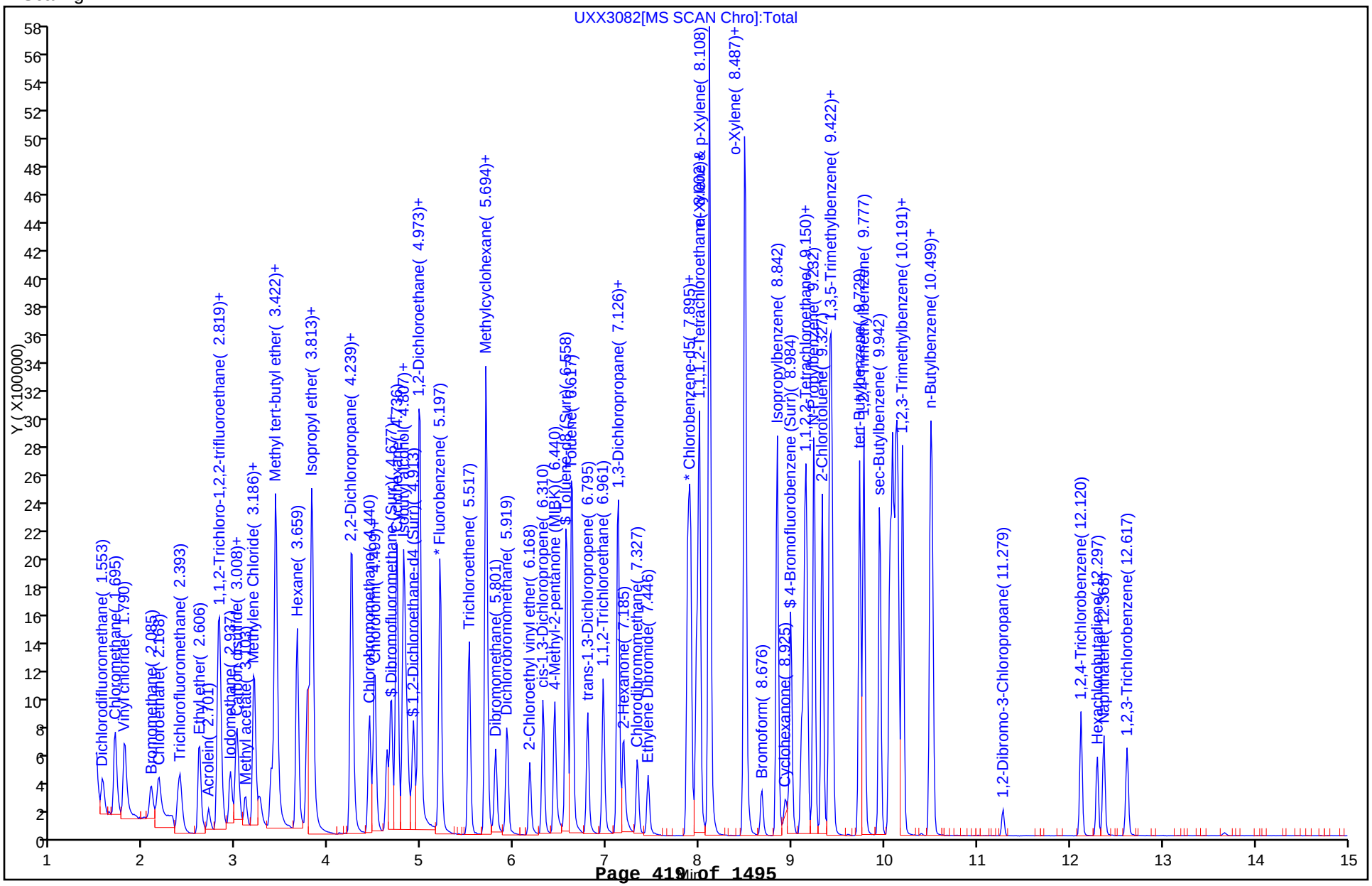
Report Date: 03-Apr-2013 11:29:12 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3082.D

Injection Date:	02-Apr-2013 17:28:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX10
Lims Batch ID:	80277	Lims Sample ID:	14
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: ICV 240-80277/14 Calibration Date: 04/02/2013 17:28

Instrument ID: A3UX10 Calib Start Date: 04/02/2013 15:18

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/02/2013 17:07

Lab File ID: UXX3082.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isobutyl alcohol	Qua		0.0099		0.578	0.500	15.6	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3082.D
Lims ID: ICV Client ID:
Inject. Date: 02-Apr-2013 17:28:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018471-014
Misc. Info.:
Operator: 1904 Instrument ID: A3UX10
Purge Vol: 5.000 mL ALS Bottle#: 13
Lims Batch ID: 80277 Lims Sample ID: 14
Sublist:
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX10\20130402-18471.b\8260_10.m
Last Update: 03-Apr-2013 11:29:11 Calib Date: 02-Apr-2013 17:07:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3081.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK019

First Level Reviewer: quayler Date: 03-Apr-2013 08:48:03

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.197	5.209	-0.012	99	1993798	10.0	
* 2 Chlorobenzene-d5	117	7.872	7.871	0.001	88	1310576	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.120	10.119	0.001	92	752623	10.0	
$ 5 Dibromofluoromethane (Surr)	113	4.629	4.631	-0.002	58	415657	9.04	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.913	4.915	-0.002	0	587347	9.74	
$ 7 Toluene-d8 (Surr)	98	6.558	6.560	-0.002	90	1747408	9.58	
$ 8 4-Bromofluorobenzene (Surr)	95	8.984	8.986	-0.002	86	676384	9.83	
12 Dichlorodifluoromethane	85	1.553	1.555	-0.002	98	409121	9.45	
13 Chloromethane	50	1.695	1.697	-0.002	99	1073589	9.33	
14 Vinyl chloride	62	1.790	1.792	-0.002	82	743270	9.61	
16 Bromomethane	94	2.085	2.076	0.009	88	247916	8.59	
17 Chloroethane	64	2.168	2.158	0.010	98	404251	9.39	
19 Trichlorofluoromethane	101	2.381	2.383	-0.002	98	546399	9.88	
20 Ethyl ether	59	2.594	2.605	-0.011	97	534787	10.4	
21 Acrolein	56	2.701	2.703	-0.002	91	241786	32.4	
23 1,1-Dichloroethene	96	2.807	2.809	-0.002	95	493522	9.53	
24 Acetone	43	2.819	2.821	-0.002	95	250062	17.8	
25 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.819	2.821	-0.002	89	391893	10.1	
26 Iodomethane	142	2.937	2.939	-0.002	97	755208	9.22	
27 Carbon disulfide	76	3.008	2.999	0.010	100	1589373	9.10	
28 Acetonitrile	41	3.044	3.046	-0.002	88	109022	28.5	
30 Methyl acetate	43	3.103	3.093	0.010	98	469431	10.8	
31 Methylene Chloride	84	3.198	3.188	0.010	92	643638	10.3	
32 2-Methyl-2-propanol	59	3.257	3.259	-0.002	92	333007	171.4	
33 Acrylonitrile	53	3.375	3.377	-0.002	99	583394	27.9	
35 Methyl tert-butyl ether	73	3.422	3.424	-0.002	88	1229602	9.84	
34 trans-1,2-Dichloroethene	96	3.422	3.424	-0.002	88	581686	9.54	
36 Hexane	86	3.659	3.661	-0.002	95	120995	10.1	
37 1,1-Dichloroethane	63	3.766	3.768	-0.002	96	1142623	9.97	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
38 Vinyl acetate	86	3.801	3.791	0.010	95	75955	7.93	
39 Isopropyl ether	87	3.825	3.824	0.001	98	474773	9.95	
42 2-Butanone (MEK)	43	4.239	4.241	-0.002	49	408549	17.5	
43 cis-1,2-Dichloroethene	96	4.239	4.241	-0.002	86	602400	9.62	
44 2,2-Dichloropropane	77	4.251	4.253	-0.002	71	497297	9.24	
48 Chlorobromomethane	128	4.440	4.442	-0.002	91	264751	9.45	
49 Tetrahydrofuran	42	4.487	4.489	-0.002	85	144145	9.19	
50 Chloroform	83	4.499	4.489	0.010	96	902129	9.70	
51 1,1,1-Trichloroethane	97	4.677	4.679	-0.002	91	676338	9.29	
52 Cyclohexane	56	4.736	4.738	-0.002	93	1161426	9.25	
53 1,1-Dichloropropene	75	4.807	4.809	-0.002	93	714416	9.94	
54 Carbon tetrachloride	117	4.819	4.821	-0.002	88	536234	9.16	
55 Isobutyl alcohol	41	4.842	4.842	0.0	90	651510	578.0	
57 Benzene	78	4.984	4.975	0.009	97	2259598	9.86	
56 1,2-Dichloroethane	62	4.973	4.975	-0.002	54	775767	10.1	
61 Trichloroethene	130	5.517	5.507	0.010	98	535569	9.44	
64 1,2-Dichloropropane	63	5.694	5.696	-0.002	84	588009	9.85	
63 Methylcyclohexane	83	5.694	5.696	-0.002	93	754870	9.33	
66 Dibromomethane	93	5.801	5.803	-0.002	88	276828	9.93	
68 Dichlorobromomethane	83	5.919	5.921	-0.002	98	571627	9.76	
70 2-Chloroethyl vinyl ether	63	6.168	6.170	-0.002	91	258773	9.25	
71 cis-1,3-Dichloropropene	75	6.310	6.312	-0.002	89	606749	8.44	
72 4-Methyl-2-pentanone (MIBK)	43	6.440	6.442	-0.002	98	982798	20.6	
73 Toluene	91	6.629	6.619	0.010	98	2222358	9.69	
74 trans-1,3-Dichloropropene	75	6.795	6.797	-0.002	97	519741	8.86	
76 1,1,2-Trichloroethane	97	6.961	6.962	-0.002	93	404786	9.89	
77 1,3-Dichloropropane	76	7.114	7.116	-0.002	97	722487	10.1	
78 Tetrachloroethene	164	7.126	7.128	-0.002	96	412725	9.67	
79 2-Hexanone	43	7.185	7.175	0.010	100	652756	20.4	
81 Chlorodibromomethane	129	7.327	7.329	-0.002	90	351173	9.41	
83 Ethylene Dibromide	107	7.446	7.448	-0.002	96	373701	9.75	
85 Chlorobenzene	112	7.907	7.897	0.010	95	1377237	9.62	
86 1,1,1,2-Tetrachloroethane	131	7.966	7.968	-0.002	84	423772	9.33	
87 Ethylbenzene	106	8.002	8.004	-0.002	98	737636	9.65	
88 m-Xylene & p-Xylene	106	8.108	8.110	-0.002	100	1916716	20.0	
89 o-Xylene	106	8.487	8.489	-0.002	91	930396	10.1	
90 Styrene	104	8.499	8.501	-0.002	91	1570620	10.5	
91 Bromoform	173	8.676	8.678	-0.002	97	205847	9.23	
92 Isopropylbenzene	105	8.842	8.844	-0.002	96	2163079	9.72	
94 Cyclohexanone	55	8.925	8.924	0.001	91	211550	25.4	
95 1,1,2,2-Tetrachloroethane	83	9.102	9.104	-0.002	89	502271	9.52	
96 Bromobenzene	156	9.138	9.140	-0.002	95	606273	9.78	
97 1,2,3-Trichloropropane	110	9.150	9.152	-0.002	77	167085	10.0	
98 trans-1,4-Dichloro-2-butene	53	9.161	9.163	-0.002	77	265185	17.0	
99 N-Propylbenzene	120	9.244	9.234	0.010	97	651328	10.3	
100 2-Chlorotoluene	126	9.327	9.329	-0.002	96	569721	9.74	
101 1,3,5-Trimethylbenzene	105	9.410	9.412	-0.002	93	1769251	9.80	
102 4-Chlorotoluene	126	9.434	9.424	0.010	97	622066	9.94	
103 tert-Butylbenzene	119	9.729	9.731	-0.002	92	1611484	9.91	
104 1,2,4-Trimethylbenzene	105	9.777	9.779	-0.002	73	1869588	10.1	
105 sec-Butylbenzene	105	9.942	9.944	-0.002	94	1932709	9.50	
106 1,3-Dichlorobenzene	146	10.061	10.063	-0.002	89	1088850	9.43	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
107 4-Isopropyltoluene	119	10.084	10.086	-0.002	91	1693533	10.2	
108 1,4-Dichlorobenzene	146	10.144	10.146	-0.002	94	1126202	9.29	
109 1,2,3-Trimethylbenzene	105	10.191	10.190	0.001	96	1894820	10.0	
110 n-Butylbenzene	91	10.499	10.489	0.010	95	1327792	9.45	
111 1,2-Dichlorobenzene	146	10.510	10.512	-0.002	97	1025621	9.66	
112 1,2-Dibromo-3-Chloropropane	157	11.279	11.281	-0.002	69	58407	9.30	
114 1,2,4-Trichlorobenzene	180	12.120	12.122	-0.002	95	333503	7.21	
115 Hexachlorobutadiene	225	12.297	12.299	-0.002	95	136470	6.07	
116 Naphthalene	128	12.368	12.370	-0.002	99	699293	6.07	
117 1,2,3-Trichlorobenzene	180	12.617	12.619	-0.002	98	262813	5.86	
S 119 Trihalomethanes, Total	1				0		38.1	
S 120 1,2-Dichloroethene, Total	96				0		19.2	
S 122 Xylenes, Total	106				0		30.1	

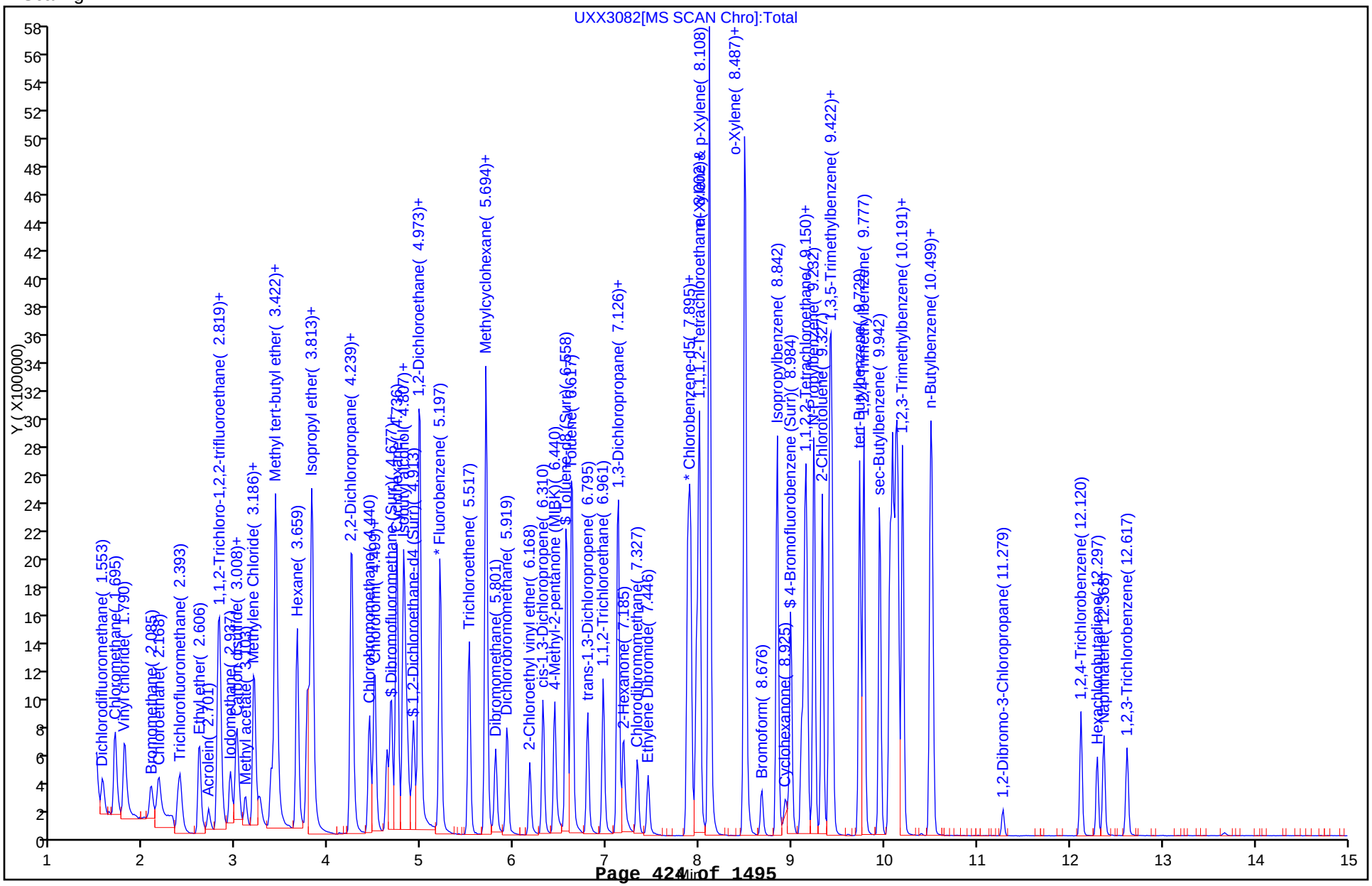
Report Date: 03-Apr-2013 11:29:12 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3082.D

Injection Date:	02-Apr-2013 17:28:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX10
Lims Batch ID:	80277	Lims Sample ID:	14
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-81013/2 Calibration Date: 04/08/2013 12:07

Instrument ID: A3UX10 Calib Start Date: 04/02/2013 13:09

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/02/2013 14:56

Lab File ID: UXR3280.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2171	0.2639	0.1000	0.0122	0.0100	21.5*	20.0
Chloromethane	Ave	0.5772	0.6176	0.1000	0.0107	0.0100	7.0	20.0
Vinyl chloride	Ave	0.3881	0.3839	0.1000	0.00989	0.0100	-1.1	20.0
Bromomethane	Ave	0.1448	0.1206	0.0500	0.00833	0.0100	-16.7	20.0
Chloroethane	Ave	0.2158	0.1895	0.0500	0.00878	0.0100	-12.2	20.0
Trichlorofluoromethane	Ave	0.2773	0.2765	0.1000	0.00997	0.0100	-0.3	20.0
Acrolein	Ave	0.0374	0.0389		0.104	0.100	3.9	20.0
1,1-Dichloroethene	Ave	0.2597	0.2473	0.1000	0.00952	0.0100	-4.8	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1943	0.1995	0.0500	0.0103	0.0100	2.7	20.0
Acetone	Ave	0.0707	0.0625	0.0500	0.0177	0.0200	-11.5	20.0
Iodomethane	Ave	0.4108	0.4051		0.00986	0.0100	-1.4	20.0
Carbon disulfide	Ave	0.8761	0.8760	0.1000	0.0100	0.0100	-0.0	20.0
Acetonitrile	Ave	0.0192	0.0156		0.0812	0.100	-18.8	20.0
Methyl acetate	Ave	0.2176	0.2360	0.1000	0.0217	0.0200	8.4	20.0
Methylene Chloride	Lin1		0.3130	0.1000	0.00994	0.0100	-0.6	20.0
2-Methyl-2-propanol	Ave	0.0097	0.0087		0.178	0.200	-11.0	20.0
Acrylonitrile	Ave	0.1050	0.1182		0.0225	0.0200	12.6	20.0
Methyl tert-butyl ether	Ave	0.6267	0.6790	0.1000	0.0108	0.0100	8.3	20.0
trans-1,2-Dichloroethene	Ave	0.3058	0.3036	0.1000	0.00993	0.0100	-0.7	20.0
1,1-Dichloroethane	Ave	0.5745	0.5589	0.1000	0.00973	0.0100	-2.7	20.0
Vinyl acetate	Ave	0.0480	0.0500		0.0104	0.0100	4.0	20.0
2-Butanone (MEK)	Ave	0.1169	0.1147	0.0500	0.0196	0.0200	-1.8	20.0
cis-1,2-Dichloroethene	Ave	0.3140	0.3180	0.1000	0.0101	0.0100	1.3	20.0
2,2-Dichloropropane	Ave	0.2701	0.2907		0.0108	0.0100	7.6	20.0
Bromochloromethane	Ave	0.1405	0.1465		0.0104	0.0100	4.3	20.0
Chloroform	Ave	0.4662	0.4705	0.2000	0.0101	0.0100	0.9	20.0
1,1,1-Trichloroethane	Ave	0.3650	0.3704	0.1000	0.0101	0.0100	1.5	20.0
Cyclohexane	Ave	0.6299	0.6344	0.1000	0.0101	0.0100	0.7	20.0
1,1-Dichloropropene	Ave	0.3604	0.3717		0.0103	0.0100	3.1	20.0
Carbon tetrachloride	Ave	0.2938	0.3057	0.1000	0.0104	0.0100	4.0	20.0
1,2-Dichloroethane	Ave	0.3868	0.3874	0.1000	0.0100	0.0100	0.2	20.0
Benzene	Ave	1.150	1.147	0.5000	0.00998	0.0100	-0.2	20.0
Trichloroethene	Ave	0.2846	0.2819	0.2000	0.00991	0.0100	-0.9	20.0
1,2-Dichloropropane	Ave	0.2994	0.2927	0.1000	0.00978	0.0100	-2.2	20.0
Methylcyclohexane	Ave	0.4057	0.4167	0.1000	0.0103	0.0100	2.7	20.0
Dibromomethane	Ave	0.1398	0.1420		0.0102	0.0100	1.6	20.0
Bromodichloromethane	Ave	0.2938	0.3062	0.1000	0.0104	0.0100	4.2	20.0
cis-1,3-Dichloropropene	Lin1		0.3436	0.1500	0.00947	0.0100	-5.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2391	0.2542	0.0500	0.0213	0.0200	6.3	20.0
Toluene	Ave	1.749	1.707	0.4000	0.00976	0.0100	-2.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-81013/2 Calibration Date: 04/08/2013 12:07

Instrument ID: A3UX10 Calib Start Date: 04/02/2013 13:09

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/02/2013 14:56

Lab File ID: UXR3280.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
trans-1,3-Dichloropropene	Lin1		0.4142	0.1000	0.00923	0.0100	-7.7	20.0
1,1,2-Trichloroethane	Ave	0.3124	0.3186	0.1000	0.0102	0.0100	2.0	20.0
1,3-Dichloropropane	Ave	0.5471	0.5315		0.00971	0.0100	-2.9	20.0
Tetrachloroethene	Ave	0.3258	0.3150	0.2000	0.00967	0.0100	-3.3	20.0
2-Hexanone	Ave	0.2436	0.2397	0.0500	0.0197	0.0200	-1.6	20.0
Dibromochloromethane	Ave	0.2849	0.3065		0.0108	0.0100	7.6	20.0
1,2-Dibromoethane	Ave	0.2924	0.2967		0.0101	0.0100	1.5	20.0
Chlorobenzene	Ave	1.093	1.053	0.3000	0.00964	0.0100	-3.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3466	0.3556		0.0103	0.0100	2.6	20.0
Ethylbenzene	Ave	0.5830	0.5709		0.00979	0.0100	-2.1	20.0
m-Xylene & p-Xylene	Ave	0.7320	0.7346		0.0201	0.0200	0.4	20.0
o-Xylene	Ave	0.6996	0.6949		0.00993	0.0100	-0.7	20.0
Styrene	Ave	1.140	1.147	0.3000	0.0101	0.0100	0.6	20.0
Bromoform	Ave	0.1702	0.1828	0.1000	0.0107	0.0100	7.4	20.0
Isopropylbenzene	Ave	1.699	1.650	0.1000	0.00971	0.0100	-2.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7007	0.7563	0.3000	0.0108	0.0100	7.9	20.0
Bromobenzene	Ave	0.8236	0.8456		0.0103	0.0100	2.7	20.0
1,2,3-Trichloropropane	Ave	0.2211	0.2433		0.0110	0.0100	10.0	20.0
N-Propylbenzene	Ave	0.8374	0.8820		0.0105	0.0100	5.3	20.0
2-Chlorotoluene	Ave	0.7769	0.7771		0.0100	0.0100	0.0	20.0
1,3,5-Trimethylbenzene	Ave	2.398	2.528		0.0105	0.0100	5.4	20.0
4-Chlorotoluene	Ave	0.8312	0.8493		0.0102	0.0100	2.2	20.0
tert-Butylbenzene	Ave	2.160	2.238		0.0104	0.0100	3.6	20.0
1,2,4-Trimethylbenzene	Ave	2.452	2.517		0.0103	0.0100	2.6	20.0
sec-Butylbenzene	Ave	2.702	2.712		0.0100	0.0100	0.4	20.0
1,3-Dichlorobenzene	Ave	1.535	1.474	0.6000	0.00960	0.0100	-4.0	20.0
4-Isopropyltoluene	Ave	2.207	2.274		0.0103	0.0100	3.0	20.0
1,4-Dichlorobenzene	Ave	1.611	1.534	0.5000	0.00952	0.0100	-4.8	20.0
n-Butylbenzene	Ave	1.866	1.696		0.00909	0.0100	-9.1	20.0
1,2-Dichlorobenzene	Ave	1.411	1.359	0.4000	0.00963	0.0100	-3.7	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0834	0.0802	0.0500	0.00961	0.0100	-3.9	20.0
1,2,4-Trichlorobenzene	Ave	0.6150	0.4781	0.2000	0.00777	0.0100	-22.3*	20.0
Hexachlorobutadiene	Lin		0.2098		0.00717	0.0100	-28.3*	20.0
Naphthalene	Ave	1.532	0.8962		0.00585	0.0100	-41.5*	20.0
1,2,3-Trichlorobenzene	Ave	0.5959	0.3590		0.00602	0.0100	-39.8*	20.0
Dibromofluoromethane (Surr)	Ave	0.2306	0.2261		0.00980	0.0100	-2.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3025	0.2931		0.00969	0.0100	-3.1	20.0
Toluene-d8 (Surr)	Ave	1.392	1.299		0.00933	0.0100	-6.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5249	0.4903		0.00934	0.0100	-6.6	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX10\20130408-18651.b\UXR3280.D
Lims ID: CCVIS L4 8260 Client ID:
Inject. Date: 08-Apr-2013 12:07:30 Dil. Factor: 1.0000
Sample Type: CCVIS
Sample ID: 240-0018651-002
Misc. Info.:
Operator: 1904 Instrument ID: A3UX10
Purge Vol: 5.000 mL ALS Bottle#: 1
Lims Batch ID: 81013 Lims Sample ID: 2
Sublist: chrom-8260_10*sub25
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX10\20130408-18651.b\8260_10.m
Last Update: 09-Apr-2013 08:43:28 Calib Date: 02-Apr-2013 17:07:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3081.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK021

First Level Reviewer: quayler Date: 08-Apr-2013 12:28:53

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.197	5.197	0.0	99	2015557	10.0	
* 2 Chlorobenzene-d5	117	7.871	7.871	0.0	88	1371090	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.120	10.120	0.0	87	724491	10.0	
$ 5 Dibromofluoromethane (Surr)	113	4.629	4.629	0.0	58	455723	9.80	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.913	4.913	0.0	0	590704	9.69	
$ 7 Toluene-d8 (Surr)	98	6.570	6.570	0.0	93	1781694	9.33	
$ 8 4-Bromofluorobenzene (Surr)	95	8.984	8.984	0.0	89	672171	9.34	
12 Dichlorodifluoromethane	85	1.553	1.553	0.0	98	531888	12.2	
13 Chloromethane	50	1.695	1.695	0.0	89	1244878	10.7	
14 Vinyl chloride	62	1.789	1.789	0.0	97	773740	9.89	
16 Bromomethane	94	2.085	2.085	0.0	89	243027	8.33	
17 Chloroethane	64	2.168	2.168	0.0	98	381858	8.78	
19 Trichlorofluoromethane	101	2.393	2.393	0.0	98	557383	9.97	
21 Acrolein	56	2.700	2.700	0.0	96	783486	103.9	
23 1,1-Dichloroethene	96	2.807	2.807	0.0	93	498404	9.52	
24 Acetone	43	2.819	2.819	0.0	53	252006	17.7	
25 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.819	2.819	0.0	83	402116	10.3	
26 Iodomethane	142	2.937	2.937	0.0	95	816478	9.86	
27 Carbon disulfide	76	3.008	3.008	0.0	100	1765519	10.0	
28 Acetonitrile	41	3.044	3.044	0.0	94	313988	81.2	
30 Methyl acetate	43	3.103	3.103	0.0	97	951391	21.7	
31 Methylene Chloride	84	3.197	3.197	0.0	97	630782	9.94	
32 2-Methyl-2-propanol	59	3.257	3.257	0.0	93	349648	178.0	
33 Acrylonitrile	53	3.375	3.375	0.0	96	476510	22.5	
35 Methyl tert-butyl ether	73	3.422	3.422	0.0	89	1368519	10.8	
34 trans-1,2-Dichloroethene	96	3.422	3.422	0.0	77	611870	9.93	
36 Hexane	86	3.659	3.659	0.0	95	131781	10.9	
37 1,1-Dichloroethane	63	3.765	3.765	0.0	96	1126434	9.73	
38 Vinyl acetate	86	3.789	3.789	0.0	96	100679	10.4	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
43 cis-1,2-Dichloroethene	96	4.239	4.239	0.0	85	640938	10.1	
42 2-Butanone (MEK)	43	4.239	4.239	0.0	90	462515	19.6	
44 2,2-Dichloropropane	77	4.251	4.251	0.0	85	585869	10.8	
48 Chlorobromomethane	128	4.440	4.440	0.0	85	295176	10.4	
49 Tetrahydrofuran	42	4.487	4.487	0.0	93	146839	9.26	
50 Chloroform	83	4.499	4.499	0.0	96	948332	10.1	
51 1,1,1-Trichloroethane	97	4.677	4.677	0.0	93	746465	10.1	
52 Cyclohexane	56	4.736	4.736	0.0	93	1278590	10.1	
53 1,1-Dichloropropene	75	4.807	4.807	0.0	91	749242	10.3	
54 Carbon tetrachloride	117	4.819	4.819	0.0	90	616049	10.4	
56 1,2-Dichloroethane	62	4.972	4.972	0.0	55	780757	10.0	
57 Benzene	78	4.984	4.984	0.0	97	2311659	9.98	
61 Trichloroethene	130	5.517	5.517	0.0	97	568258	9.91	
64 1,2-Dichloropropane	63	5.694	5.694	0.0	86	589935	9.78	
63 Methylcyclohexane	83	5.694	5.694	0.0	92	839806	10.3	
67 1,4-Dioxane	88	5.801	5.801	0.0	39	101118	380.5	
66 Dibromomethane	93	5.801	5.801	0.0	87	286228	10.2	
68 Dichlorobromomethane	83	5.919	5.919	0.0	98	617224	10.4	
70 2-Chloroethyl vinyl ether	63	6.168	6.168	0.0	91	543164	18.1	
71 cis-1,3-Dichloropropene	75	6.309	6.309	0.0	89	692556	9.47	
72 4-Methyl-2-pentanone (MIBK)	43	6.440	6.440	0.0	98	1024732	21.3	
73 Toluene	91	6.629	6.629	0.0	98	2340058	9.76	
74 trans-1,3-Dichloropropene	75	6.795	6.795	0.0	96	567853	9.23	
75 Ethyl methacrylate	69	6.866	6.866	0.0	95	555335	9.30	
76 1,1,2-Trichloroethane	97	6.960	6.960	0.0	92	436760	10.2	
77 1,3-Dichloropropane	76	7.114	7.114	0.0	98	728721	9.71	
78 Tetrachloroethene	164	7.126	7.126	0.0	96	431833	9.67	
79 2-Hexanone	43	7.185	7.185	0.0	99	657328	19.7	
81 Chlorodibromomethane	129	7.327	7.327	0.0	88	420239	10.8	
83 Ethylene Dibromide	107	7.445	7.445	0.0	97	406817	10.1	
85 Chlorobenzene	112	7.907	7.907	0.0	94	1444147	9.64	
86 1,1,1,2-Tetrachloroethane	131	7.966	7.966	0.0	87	487492	10.3	
87 Ethylbenzene	106	8.002	8.002	0.0	98	782726	9.79	
88 m-Xylene & p-Xylene	106	8.108	8.108	0.0	99	2014262	20.1	
89 o-Xylene	106	8.487	8.487	0.0	90	952751	9.93	
90 Styrene	104	8.499	8.499	0.0	90	1572654	10.1	
91 Bromoform	173	8.676	8.676	0.0	96	250603	10.7	
92 Isopropylbenzene	105	8.842	8.842	0.0	95	2262519	9.71	
95 1,1,2,2-Tetrachloroethane	83	9.102	9.102	0.0	93	547944	10.8	
96 Bromobenzene	156	9.138	9.138	0.0	93	612654	10.3	
97 1,2,3-Trichloropropane	110	9.161	9.161	0.0	76	176230	11.0	
98 trans-1,4-Dichloro-2-butene	53	9.161	9.161	0.0	60	132045	9.42	
99 N-Propylbenzene	120	9.244	9.244	0.0	99	638989	10.5	
100 2-Chlorotoluene	126	9.327	9.327	0.0	97	562980	10.0	
101 1,3,5-Trimethylbenzene	105	9.410	9.410	0.0	93	1831186	10.5	
102 4-Chlorotoluene	126	9.433	9.433	0.0	98	615299	10.2	
103 tert-Butylbenzene	119	9.729	9.729	0.0	93	1621416	10.4	
104 1,2,4-Trimethylbenzene	105	9.777	9.777	0.0	73	1823397	10.3	
105 sec-Butylbenzene	105	9.942	9.942	0.0	94	1964687	10.0	
106 1,3-Dichlorobenzene	146	10.060	10.060	0.0	85	1067649	9.60	
107 4-Isopropyltoluene	119	10.084	10.084	0.0	97	1647439	10.3	
108 1,4-Dichlorobenzene	146	10.143	10.143	0.0	93	1111208	9.52	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
110 n-Butylbenzene	91	10.498	10.498	0.0	95	1228628	9.09	
111 1,2-Dichlorobenzene	146	10.510	10.510	0.0	97	984828	9.63	
112 1,2-Dibromo-3-Chloropropane	157	11.279	11.279	0.0	66	58069	9.61	
113 1,3,5-Trichlorobenzene	180	11.504	11.504	0.0	95	473931	8.53	
114 1,2,4-Trichlorobenzene	180	12.119	12.119	0.0	92	346369	7.77	
115 Hexachlorobutadiene	225	12.297	12.297	0.0	91	151972	7.17	
116 Naphthalene	128	12.368	12.368	0.0	100	649273	5.85	
117 1,2,3-Trichlorobenzene	180	12.616	12.616	0.0	97	260082	6.02	
S 119 Trihalomethanes, Total	1				0		42.0	
S 120 1,2-Dichloroethene, Total	96				0		20.1	
S 121 1,3-Dichloropropene, Total	75				0		18.7	
S 122 Xylenes, Total	106				0		30.0	

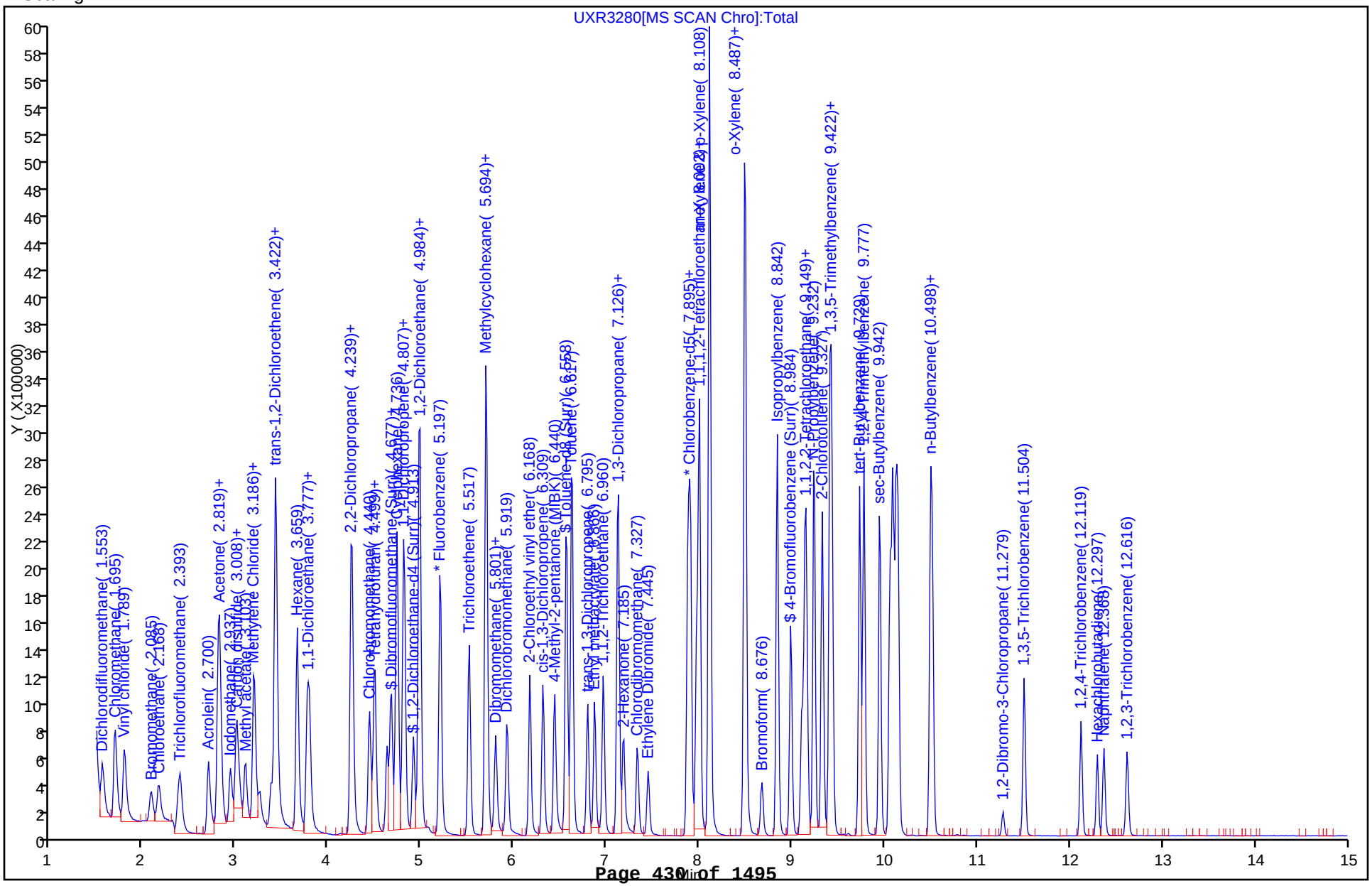
Report Date: 09-Apr-2013 08:43:28 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX10\20130408-18651.b\UXR3280.D

Injection Date:	08-Apr-2013 12:07:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX10
Lims Batch ID:	81013	Lims Sample ID:	2
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: LODV 240-81013/22 Calibration Date: 04/08/2013 19:19

Instrument ID: A3UX10 Calib Start Date: 04/02/2013 13:09

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/02/2013 14:56

Lab File ID: UXR3300.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetone	Ave	0.0707			0.00317	0.00500		
Dibromofluoromethane (Surr)	Ave	0.2306			0.00946	0.0100	95	85-115
1,2-Dichloroethane-d4 (Surr)	Ave	0.3025			0.00896	0.0100	90	70-120
Toluene-d8 (Surr)	Ave	1.392			0.00865	0.0100	86	85-120
4-Bromofluorobenzene (Surr)	Ave	0.5249			0.00848	0.0100	85	75-120

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX10\20130408-18651.b\UXR3300.D
Lims ID: LODV Client ID:
Inject. Date: 08-Apr-2013 19:19:30 Dil. Factor: 1.0000
Sample Type: LODV
Sample ID: 240-0018651-022
Misc. Info.:
Operator: 1904 Instrument ID: A3UX10
Purge Vol: 5.000 mL ALS Bottle#: 21
Lims Batch ID: 81013 Lims Sample ID: 22
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX10\20130408-18651.b\8260_10.m
Last Update: 09-Apr-2013 08:43:29 Calib Date: 02-Apr-2013 17:07:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3081.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK021

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.200	5.200	0.0	99	1799091	10.0	
* 2 Chlorobenzene-d5	117	7.875	7.874	0.001	88	1234434	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.123	10.122	0.001	94	602927	10.0	
$ 4 BFB	95	3.414	3.709	-0.295	0	422	0	
$ 5 Dibromofluoromethane (Surr)	113	4.621	4.629	-0.008	65	392480	9.46	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.916	4.913	0.003	0	487525	8.96	
$ 7 Toluene-d8 (Surr)	98	6.561	6.570	-0.009	94	1486333	8.65	
$ 8 4-Bromofluorobenzene (Surr)	95	8.987	8.984	0.003	89	549395	8.48	
143 1,3-Diethylbenzene TIC	1		0.000					
10 C6-C12	1		0.000					
9 Benzyl chloride	126		0.000					
11 C6-C10	1		0.000					
12 Dichlorodifluoromethane	85	1.556	1.553	0.003	67	24299	0.6220	
13 Chloromethane	50	1.686	1.695	-0.009	96	65270	0.6286	
14 Vinyl chloride	62	1.793	1.789	0.004	87	38832	0.5562	
15 Chlorodifluoromethane TIC	1		1.900					
16 Bromomethane	94	2.077	2.085	-0.008	66	11239	0.4314	
17 Chloroethane	64	2.159	2.168	-0.009	67	22469	0.5786	
18 Dichlorofluoromethane	67		2.325					
19 Trichlorofluoromethane	101	2.384	2.393	-0.009	78	23401	0.4690	
20 Ethyl ether	59		2.597					
21 Acrolein	56	2.704	2.700	0.004	75	20290	3.01	
23 1,1-Dichloroethene	96	2.810	2.807	0.003	93	20934	0.4480	
24 Acetone	43	2.834	2.819	0.015	90	40236	3.17	
25 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.822	2.819	0.003	48	10774	0.3081	
22 Methylal	45		2.851					
26 Iodomethane	142	2.940	2.937	0.003	85	35486	0.4801	
27 Carbon disulfide	76	3.000	3.008	-0.008	95	67744	0.4298	
28 Acetonitrile	41	3.047	3.044	0.003	78	14937	4.33	
29 3-Chloro-1-propene	76		3.094					9
30 Methyl acetate	43	3.106	3.103	0.003	89	55705	1.42	
31 Methylene Chloride	84	3.189	3.197	-0.008	95	144596	2.03	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
32 2-Methyl-2-propanol	59	3.260	3.257	0.003	70	11113	6.34	
33 Acrylonitrile	53	3.390	3.375	0.015	70	13763	0.7286	
35 Methyl tert-butyl ether	73	3.426	3.422	0.004	85	54853	0.4865	
34 trans-1,2-Dichloroethene	96	3.426	3.422	0.004	76	25869	0.4702	
36 Hexane	86	3.650	3.659	-0.009	82	2797	0.2582	
37 1,1-Dichloroethane	63	3.769	3.765	0.004	79	50511	0.4887	
38 Vinyl acetate	86	3.792	3.789	0.003	89	2119	0.2452	
39 Isopropyl ether	87		3.816					
40 2-Chloro-1,3-butadiene	53		3.851					
41 Tert-butyl ethyl ether	59		4.111					
43 cis-1,2-Dichloroethene	96	4.242	4.239	0.003	84	26404	0.4675	
42 2-Butanone (MEK)	43	4.230	4.239	-0.009	95	72388	3.44	
44 2,2-Dichloropropane	77	4.254	4.251	0.003	62	23446	0.4826	
45 Propionitrile	54		4.277					
46 Ethyl acetate	43	4.230	4.289	-0.059	56	79159	1.88	
47 Methacrylonitrile	41		4.407					9
48 Chlorobromomethane	128	4.443	4.440	0.003	81	12267	0.4855	
49 Tetrahydrofuran	42	4.491	4.487	0.003	25	7980	0.5640	
50 Chloroform	83	4.491	4.499	-0.009	77	41167	0.4908	
51 1,1,1-Trichloroethane	97	4.668	4.677	-0.009	79	30088	0.4583	
52 Cyclohexane	56	4.739	4.736	0.003	87	35213	0.3107	
53 1,1-Dichloropropene	75	4.798	4.807	-0.009	81	29288	0.4517	
54 Carbon tetrachloride	117	4.810	4.819	-0.009	80	21317	0.4034	
55 Isobutyl alcohol	41		4.845					9
56 1,2-Dichloroethane	62	4.976	4.972	0.004	42	34821	0.5004	
57 Benzene	78	4.976	4.984	-0.008	94	102485	0.4955	
58 Tert-amyl methyl ether	73		5.058					9
59 n-Heptane	100		5.188					
60 n-Butanol	56		5.401					
61 Trichloroethene	130	5.520	5.517	0.003	76	24860	0.4855	
62 Ethyl acrylate	55		5.605					9
64 1,2-Dichloropropane	63	5.697	5.694	0.003	64	22377	0.4155	
63 Methylcyclohexane	83	5.697	5.694	0.003	69	20155	0.2761	
65 Methyl methacrylate	41		5.768					9
67 1,4-Dioxane	88	5.804	5.801	0.003	1	2876	12.1	
66 Dibromomethane	93	5.792	5.801	-0.009	75	12008	0.4775	
68 Dichlorobromomethane	83	5.922	5.919	0.003	74	20798	0.3934	
69 2-Nitropropane	41		6.111					
70 2-Chloroethyl vinyl ether	63	6.159	6.168	-0.009	63	16109	1.61	
71 cis-1,3-Dichloropropene	75	6.313	6.309	0.004	57	19880	0.7891	
72 4-Methyl-2-pentanone (MIBK)	43	6.431	6.440	-0.009	97	159224	3.70	
73 Toluene	91	6.620	6.629	-0.009	89	100373	0.4649	
74 trans-1,3-Dichloropropene	75	6.798	6.795	0.003	66	17298	0.8389	
75 Ethyl methacrylate	69	6.869	6.866	0.003	70	16923	0.8134	
76 1,1,2-Trichloroethane	97	6.964	6.960	0.004	72	16657	0.4319	
77 1,3-Dichloropropane	76	7.117	7.114	0.003	85	31442	0.4656	
78 Tetrachloroethene	164	7.117	7.126	-0.009	86	15161	0.3770	
79 2-Hexanone	43	7.177	7.185	-0.008	97	104950	3.49	
80 n-Butyl acetate	56		7.294					
81 Chlorodibromomethane	129	7.330	7.327	0.003	48	13168	0.3745	
82 Tetrahydrothiophene	60		7.346					
83 Ethylene Dibromide	107	7.449	7.445	0.004	55	17173	0.4758	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
84 1-Chlorohexane	91		7.779					9
85 Chlorobenzene	112	7.898	7.907	-0.009	88	66327	0.4918	
86 1,1,1,2-Tetrachloroethane	131	7.969	7.966	0.003	52	17896	0.4183	
87 Ethylbenzene	106	8.005	8.002	0.003	89	29241	0.4063	
88 m-Xylene & p-Xylene	106	8.111	8.108	0.003	98	63291	0.7005	
89 o-Xylene	106	8.490	8.487	0.003	87	30648	0.3549	
90 Styrene	104	8.502	8.499	0.003	87	48805	0.3468	
91 Bromoform	173	8.679	8.676	0.003	59	6690	0.3184	
92 Isopropylbenzene	105	8.845	8.842	0.003	79	65063	0.3103	
94 Cyclohexanone	55		8.927					9
93 1,4-Dichlorobutane	55		8.931					9
95 1,1,2,2-Tetrachloroethane	83	9.105	9.102	0.003	75	24290	0.5750	
96 Bromobenzene	156	9.141	9.138	0.003	91	23694	0.4772	
97 1,2,3-Trichloropropane	110	9.153	9.161	-0.008	59	8242	0.6184	
98 trans-1,4-Dichloro-2-butene	53	9.164	9.161	0.003	34	3604	0.3999	
99 N-Propylbenzene	120	9.235	9.244	-0.009	90	20259	0.4013	
100 2-Chlorotoluene	126	9.330	9.327	0.003	90	21227	0.4532	
101 1,3,5-Trimethylbenzene	105	9.413	9.410	0.003	83	52973	0.3664	
102 4-Chlorotoluene	126	9.425	9.433	-0.008	87	20283	0.4047	
103 tert-Butylbenzene	119	9.732	9.729	0.003	82	49040	0.3766	
104 1,2,4-Trimethylbenzene	105	9.780	9.777	0.004	58	48139	0.3256	
105 sec-Butylbenzene	105	9.945	9.942	0.003	80	53831	0.3304	
106 1,3-Dichlorobenzene	146	10.064	10.060	0.004	89	43685	0.4721	
107 4-Isopropyltoluene	119	10.087	10.084	0.003	81	43584	0.3276	
108 1,4-Dichlorobenzene	146	10.147	10.143	0.004	78	50736	0.5223	
109 1,2,3-Trimethylbenzene	105		10.193					9
110 n-Butylbenzene	91	10.490	10.498	-0.008	86	34710	0.3085	
111 1,2-Dichlorobenzene	146	10.513	10.510	0.003	84	43096	0.5065	
112 1,2-Dibromo-3-Chloropropane	157	11.271	11.279	-0.008	1	2753	0.5473	
113 1,3,5-Trichlorobenzene	180	11.507	11.504	0.003	61	19224	0.4158	
114 1,2,4-Trichlorobenzene	180	12.123	12.119	0.004	62	18226	0.4916	
115 Hexachlorobutadiene	225		12.297					
116 Naphthalene	128	12.371	12.368	0.003	94	41588	0.4503	
117 1,2,3-Trichlorobenzene	180	12.620	12.616	0.004	73	18053	0.5024	
118 2-Methylnaphthalene	142		13.669					
S 119 Trihalomethanes, Total	1				0		1.58	
S 120 1,2-Dichloroethene, Total	96				0		0.9377	
S 121 1,3-Dichloropropene, Total	75				0		1.63	
S 122 Xylenes, Total	106				0		1.06	
T 144 Isobutylene TIC	1		1.900					1
T 145 1,3-Butadiene TIC	1		2.100					1
T 123 Butyl Methacrylate TIC	1		9.400					1
T 124 Hexachloroethane TIC	1		10.700					1

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

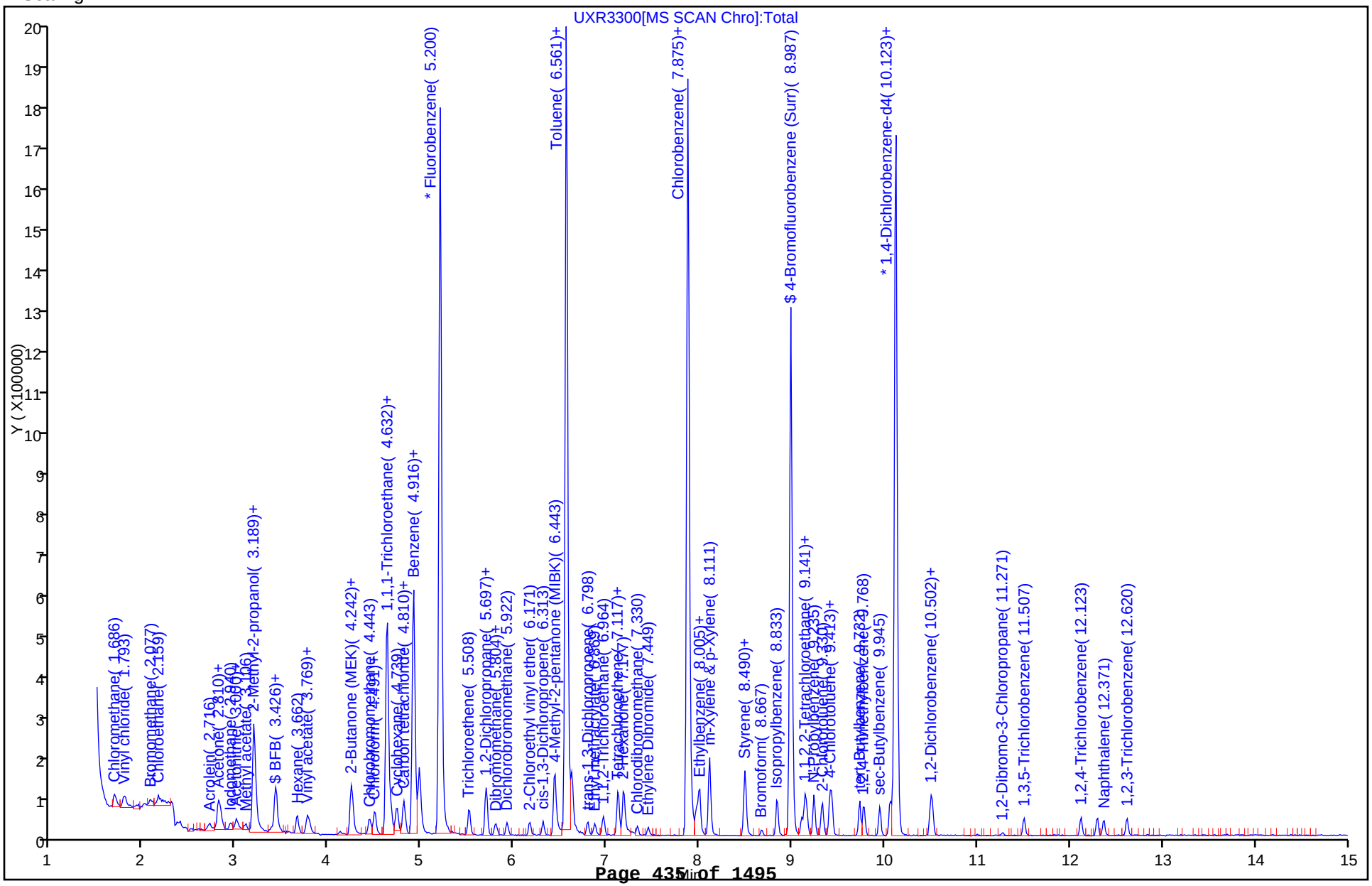
Report Date: 09-Apr-2013 08:43:41 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX10\20130408-18651.b\UXR3300.D

Injection Date:	08-Apr-2013 19:19:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX10
Lims Batch ID:	81013	Lims Sample ID:	22
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A3UX10\20130402-18471.b\BFB5167.D		
Lims ID:	BFB	Client ID:	
Inject. Date:	02-Apr-2013 12:48:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	240-0018471-001		
Misc. Info.:			
Operator:	1904	Instrument ID:	A3UX10
Purge Vol:	5.000 mL	ALS Bottle#:	11
Lims Batch ID:	80277	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\NCChrom\ChromData\A3UX10\20130402-18471.b\8260_10.m		
Last Update:	03-Apr-2013 11:29:02	Calib Date:	02-Apr-2013 17:07:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3081.D		
Limit Group:	MSV 8260DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624	Column Dia:	0.18 mm
Process Host:	XAWRK019		
First Level Reviewer: quayler		Date:	02-Apr-2013 13:02:16

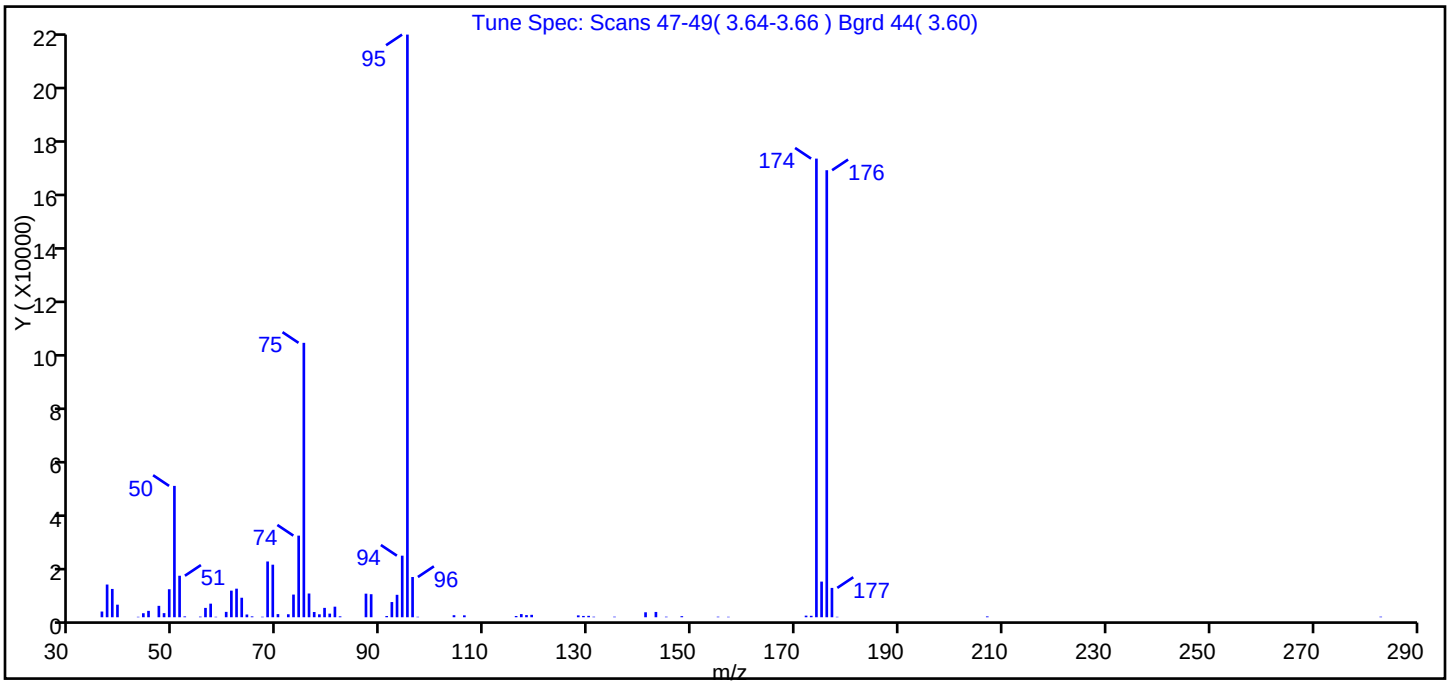
Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
$ 4 BFB	95	3.650	3.650	0.0	0	488839	0	

MS Tune Report

TestAmerica Canton

Data File:	\\NCChrom\ChromData\A3UX10\20130402-18471.b\BFB5167.D		
Injection Date:	02-Apr-2013 12:48:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX10
Lims Batch ID:	80277	Lims Sample ID:	1
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm
Tune Method:	BFB Method 8260		

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.54
75	30.00 - 60.00% of mass 95	47.10
96	5.00 - 9.00% of mass 95	6.91
173	Less than 2.00% of mass 174	0.25 (0.32)
174	Greater than 50.00% of mass 95	78.72
175	5.00 - 9.00% of mass 174	6.12 (7.77)
176	95.00 - 101.00% of mass 174	76.72 (97.47)
177	5.00 - 9.00% of mass 176	5.04 (6.57)

Data File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\BFB5167.D\8260_10.rslt\spectra.d
Injection Date: 02-Apr-2013 12:48:30
Spectrum: Tune Spec: Scans 47-49(3.64-3.66) Bgrd 44(3.60)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 73

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2148	62.00	10708	87.00	8841	135.00	215
37.00	12260	63.00	7314	88.00	8637	141.00	1864
38.00	10608	64.00	1035	91.00	463	143.00	1989
39.00	4712	65.00	328	92.00	5700	145.00	214
43.00	173	67.00	193	93.00	8410	148.00	406
44.00	1508	68.00	20896	94.00	23072	155.00	217
45.00	2396	69.00	19696	95.00	218304	157.00	177
47.00	4277	70.00	1179	96.00	15080	172.00	606
48.00	1546	72.00	1122	97.00	181	173.00	544
49.00	10497	73.00	8501	104.00	768	174.00	171840
50.00	49216	74.00	30584	106.00	720	175.00	13358
51.00	15553	75.00	102816	116.00	473	176.00	167488
52.00	319	76.00	8898	117.00	1186	177.00	10999
55.00	246	77.00	1965	118.00	810	178.00	171
56.00	3504	78.00	1100	119.00	910	207.00	317
57.00	5095	79.00	3514	128.00	701	283.00	223
58.00	180	80.00	1358	129.00	491		
60.00	2017	81.00	3966	130.00	529		
61.00	9974	82.00	341	131.00	214		

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A3UX10\20130408-18651.b\BFB5182.D		
Lims ID:	BFB	Client ID:	
Inject. Date:	08-Apr-2013 11:40:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	240-0018651-001		
Misc. Info.:			
Operator:	1904	Instrument ID:	A3UX10
Purge Vol:	5.000 mL	ALS Bottle#:	4
Lims Batch ID:	81013	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\NCChrom\ChromData\A3UX10\20130408-18651.b\8260_10.m		
Last Update:	09-Apr-2013 08:43:27	Calib Date:	02-Apr-2013 17:07:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3081.D		
Limit Group:	MSV 8260DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624	Column Dia:	0.18 mm
Process Host:	XAWRK021		
First Level Reviewer: quayler		Date:	08-Apr-2013 13:29:55

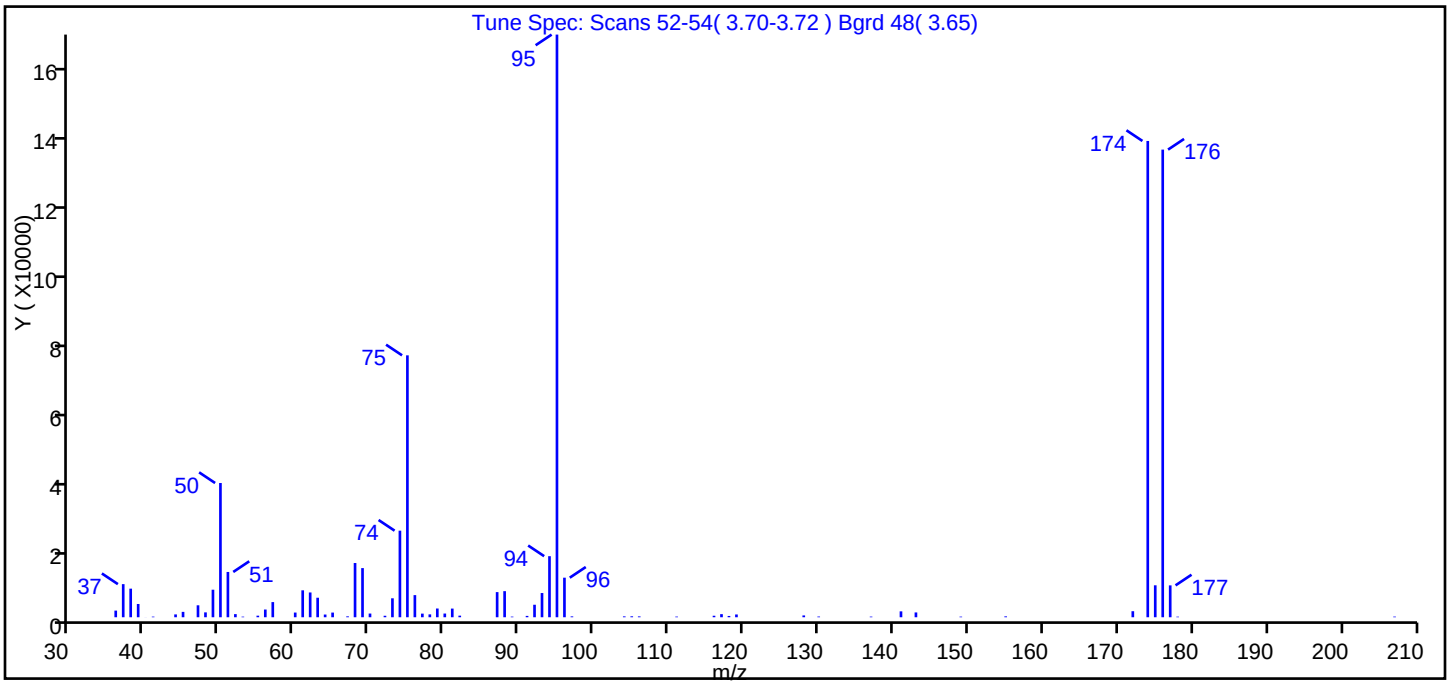
Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
$ 4 BFB	95	3.709	3.709	0.0	0	604369	0	

MS Tune Report

TestAmerica Canton

Data File:	\\NCChrom\ChromData\A3UX10\20130408-18651.b\BFB5182.D		
Injection Date:	08-Apr-2013 11:40:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX10
Lims Batch ID:	81013	Lims Sample ID:	1
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm
Tune Method:	BFB Method 8260		

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.04
75	30.00 - 60.00% of mass 95	44.95
96	5.00 - 9.00% of mass 95	6.79
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	81.74
175	5.00 - 9.00% of mass 174	5.48 (6.71)
176	95.00 - 101.00% of mass 174	80.26 (98.18)
177	5.00 - 9.00% of mass 176	5.47 (6.82)

Data File: \\NCChrom\ChromData\A3UX10\20130408-18651.b\BFB5182.D\8260_10.rslt\spectra.d
Injection Date: 08-Apr-2013 11:40:30
Spectrum: Tune Spec: Scans 52-54(3.70-3.72) Bgrd 48(3.65)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 71

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1868	60.00	1320	80.00	1043	117.00	873
37.00	9306	61.00	7566	81.00	2437	118.00	360
38.00	8035	62.00	6966	82.00	450	119.00	784
39.00	3727	63.00	5485	87.00	7066	128.00	511
40.00	15	64.00	765	88.00	7332	130.00	203
41.00	181	65.00	1316	89.00	182	137.00	187
44.00	802	67.00	255	91.00	380	141.00	1659
45.00	1514	68.00	15240	92.00	3515	143.00	1353
47.00	3360	69.00	13811	93.00	6806	149.00	179
48.00	1372	70.00	1043	94.00	17160	155.00	250
49.00	7740	72.00	418	95.00	163712	172.00	1699
50.00	37720	73.00	5328	96.00	11118	174.00	133824
51.00	12728	74.00	24328	97.00	243	175.00	8977
52.00	882	75.00	73592	104.00	244	176.00	131392
53.00	175	76.00	6220	105.00	266	177.00	8958
55.00	443	77.00	1022	106.00	242	178.00	169
56.00	2171	78.00	811	111.00	191	207.00	185
57.00	4258	79.00	2457	116.00	424		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-81013/6

Matrix: Water | Lab File ID: UXR3284.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/08/2013 13:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 81013 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.25	U	1.0	0.25	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U	1.0	0.25	0.18
79-00-5	1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.27
75-34-3	1,1-Dichloroethane	0.25	U	1.0	0.25	0.15
75-35-4	1,1-Dichloroethene	0.25	U	1.0	0.25	0.19
107-06-2	1,2-Dichloroethane	0.25	U	1.0	0.25	0.22
540-59-0	1,2-Dichloroethene, Total	0.50	U	2.0	0.50	0.34
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25	0.18
78-93-3	2-Butanone (MEK)	0.57	U	10	0.57	0.57
591-78-6	2-Hexanone	0.50	U	10	0.50	0.41
108-10-1	4-Methyl-2-pentanone (MIBK)	0.50	U	10	0.50	0.32
67-64-1	Acetone	1.1	U	10	1.1	1.1
71-43-2	Benzene	0.25	U	1.0	0.25	0.13
75-25-2	Bromoform	0.64	U	1.0	0.64	0.64
74-83-9	Bromomethane	0.50	U	1.0	0.50	0.41
75-15-0	Carbon disulfide	0.25	U	1.0	0.25	0.13
56-23-5	Carbon tetrachloride	0.25	U	1.0	0.25	0.13
108-90-7	Chlorobenzene	0.25	U	1.0	0.25	0.15
74-87-3	Chloromethane	0.50	U	1.0	0.50	0.30
10061-01-5	cis-1,3-Dichloropropene	0.25	U	1.0	0.25	0.14
124-48-1	Dibromochloromethane	0.25	U	1.0	0.25	0.18
75-27-4	Bromodichloromethane	0.25	U	1.0	0.25	0.15
100-41-4	Ethylbenzene	0.25	U	1.0	0.25	0.17
1634-04-4	Methyl tert-butyl ether	0.25	U	1.0	0.25	0.17
75-09-2	Methylene Chloride	0.50	U	1.0	0.50	0.33
100-42-5	Styrene	0.25	U	1.0	0.25	0.11
127-18-4	Tetrachloroethene	0.50	U	1.0	0.50	0.29
108-88-3	Toluene	0.25	U	1.0	0.25	0.13
10061-02-6	trans-1,3-Dichloropropene	0.25	U	1.0	0.25	0.19
79-01-6	Trichloroethene	0.25	U	1.0	0.25	0.17
75-01-4	Vinyl chloride	0.25	U	1.0	0.25	0.22
1330-20-7	Xylenes, Total	0.75	U	2.0	0.75	0.28
67-66-3	Chloroform	0.25	U	1.0	0.25	0.16
74-97-5	Bromochloromethane	0.50	U	1.0	0.50	0.29
106-93-4	1,2-Dibromoethane	0.25	U	1.0	0.25	0.24
75-00-3	Chloroethane	0.50	U	1.0	0.50	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-81013/6

Matrix: Water Lab File ID: UXR3284.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 04/08/2013 13:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 81013 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	90		85-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		70-120
460-00-4	4-Bromofluorobenzene (Surr)	81		75-120
1868-53-7	Dibromofluoromethane (Surr)	98		85-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX10\20130408-18651.b\UXR3284.D
Lims ID: MB Client ID:
Inject. Date: 08-Apr-2013 13:34:30 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: 240-0018651-006
Misc. Info.:
Operator: 1904 Instrument ID: A3UX10
Purge Vol: 5.000 mL ALS Bottle#: 5
Lims Batch ID: 81013 Lims Sample ID: 6
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX10\20130408-18651.b\8260_10.m
Last Update: 09-Apr-2013 08:43:29 Calib Date: 02-Apr-2013 17:07:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3081.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK021

First Level Reviewer: quayler Date: 08-Apr-2013 14:43:17

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.200	5.200	0.0	99	1900087	10.0	
* 2 Chlorobenzene-d5	117	7.874	7.874	0.0	87	1259469	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.122	10.122	0.0	95	588716	10.0	
$ 5 Dibromofluoromethane (Surr)	113	4.632	4.629	0.003	60	429975	9.81	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.916	4.913	0.003	0	529108	9.21	
$ 7 Toluene-d8 (Surr)	98	6.561	6.570	-0.009	94	1572872	8.97	
$ 8 4-Bromofluorobenzene (Surr)	95	8.986	8.984	0.002	89	538766	8.15	
143 1,3-Diethylbenzene TIC	1		0.000					
10 C6-C12	1		0.000					
9 Benzyl chloride	126		0.000					
11 C6-C10	1		0.000					
12 Dichlorodifluoromethane	85		1.553					
13 Chloromethane	50		1.695					9
14 Vinyl chloride	62		1.789					
15 Chlorodifluoromethane TIC	1		1.900					
16 Bromomethane	94		2.085					
17 Chloroethane	64		2.168					9
18 Dichlorofluoromethane	67		2.325					
19 Trichlorofluoromethane	101		2.393					
20 Ethyl ether	59		2.597					
21 Acrolein	56		2.700					9
23 1,1-Dichloroethene	96		2.807					
24 Acetone	43		2.819					
25 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.819					
22 Methylal	45		2.851					9
26 Iodomethane	142		2.937					
27 Carbon disulfide	76		3.008					
28 Acetonitrile	41		3.044					9
29 3-Chloro-1-propene	76		3.094					
30 Methyl acetate	43		3.103					9

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 Methylene Chloride	84	3.200	3.197	0.003	93	55687	0.2971	
32 2-Methyl-2-propanol	59	3.271	3.257	0.014	49	1551	0.8378	
33 Acrylonitrile	53		3.375					
35 Methyl tert-butyl ether	73		3.422					
34 trans-1,2-Dichloroethene	96		3.422					
36 Hexane	86		3.659					
37 1,1-Dichloroethane	63		3.765					
38 Vinyl acetate	86		3.789					
39 Isopropyl ether	87		3.816					
40 2-Chloro-1,3-butadiene	53		3.851					
41 Tert-butyl ethyl ether	59		4.111					
43 cis-1,2-Dichloroethene	96		4.239					
42 2-Butanone (MEK)	43		4.239					
44 2,2-Dichloropropane	77		4.251					
45 Propionitrile	54		4.277					
46 Ethyl acetate	43		4.289					9
47 Methacrylonitrile	41		4.407					
48 Chlorobromomethane	128		4.440					
49 Tetrahydrofuran	42		4.487					
50 Chloroform	83		4.499					9
51 1,1,1-Trichloroethane	97		4.677					
52 Cyclohexane	56		4.736					
53 1,1-Dichloropropene	75		4.807					
54 Carbon tetrachloride	117		4.819					
55 Isobutyl alcohol	41		4.845					
56 1,2-Dichloroethane	62		4.972					
57 Benzene	78		4.984					
58 Tert-amyl methyl ether	73		5.058					
59 n-Heptane	100		5.188					
60 n-Butanol	56		5.401					
61 Trichloroethene	130		5.517					
62 Ethyl acrylate	55		5.605					
64 1,2-Dichloropropane	63		5.694					
63 Methylcyclohexane	83		5.694					9
65 Methyl methacrylate	41		5.768					
67 1,4-Dioxane	88		5.801					
66 Dibromomethane	93		5.801					
68 Dichlorobromomethane	83		5.919					
69 2-Nitropropane	41		6.111					
70 2-Chloroethyl vinyl ether	63		6.168					
71 cis-1,3-Dichloropropene	75		6.309					
72 4-Methyl-2-pentanone (MIBK)	43		6.440					
73 Toluene	91		6.629					9
74 trans-1,3-Dichloropropene	75		6.795					
75 Ethyl methacrylate	69		6.866					
76 1,1,2-Trichloroethane	97		6.960					
77 1,3-Dichloropropane	76		7.114					
78 Tetrachloroethene	164		7.126					
79 2-Hexanone	43		7.185					9
80 n-Butyl acetate	56		7.294					
81 Chlorodibromomethane	129		7.327					
82 Tetrahydrothiophene	60		7.346					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
83 Ethylene Dibromide	107		7.445					
84 1-Chlorohexane	91		7.779					9
85 Chlorobenzene	112		7.907					
86 1,1,1,2-Tetrachloroethane	131		7.966					
87 Ethylbenzene	106		8.002					
88 m-Xylene & p-Xylene	106		8.108					9
89 o-Xylene	106		8.487					
90 Styrene	104		8.499					9
91 Bromoform	173		8.676					
92 Isopropylbenzene	105		8.842					9
94 Cyclohexanone	55		8.927					9
93 1,4-Dichlorobutane	55		8.931					9
95 1,1,2,2-Tetrachloroethane	83		9.102					
96 Bromobenzene	156		9.138					
97 1,2,3-Trichloropropane	110		9.161					
98 trans-1,4-Dichloro-2-butene	53		9.161					
99 N-Propylbenzene	120		9.244					
100 2-Chlorotoluene	126		9.327					
101 1,3,5-Trimethylbenzene	105		9.410					
102 4-Chlorotoluene	126		9.433					
103 tert-Butylbenzene	119		9.729					9
104 1,2,4-Trimethylbenzene	105		9.777					9
105 sec-Butylbenzene	105		9.942					9
106 1,3-Dichlorobenzene	146		10.060					9
107 4-Isopropyltoluene	119		10.084					9
108 1,4-Dichlorobenzene	146		10.143					9
109 1,2,3-Trimethylbenzene	105		10.193					9
110 n-Butylbenzene	91		10.498					9
111 1,2-Dichlorobenzene	146		10.510					9
112 1,2-Dibromo-3-Chloropropane	157		11.279					
113 1,3,5-Trichlorobenzene	180		11.504					9
114 1,2,4-Trichlorobenzene	180		12.119					9
115 Hexachlorobutadiene	225		12.297					
116 Naphthalene	128	12.359	12.368	-0.009	58	19573	0.2170	
117 1,2,3-Trichlorobenzene	180	12.619	12.616	0.003	34	9091	0.2591	
118 2-Methylnaphthalene	142		13.669					
S 119 Trihalomethanes, Total	1		0.000					7
S 120 1,2-Dichloroethene, Total	96		1.140					7
S 121 1,3-Dichloropropene, Total	75		6.760					7
S 122 Xylenes, Total	106		16.530					7
T 144 Isobutylene TIC	1		1.900					1
T 145 1,3-Butadiene TIC	1		2.100					1
T 123 Butyl Methacrylate TIC	1		9.400					1
T 124 Hexachloroethane TIC	1		10.700					1

QC Flag Legend

Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

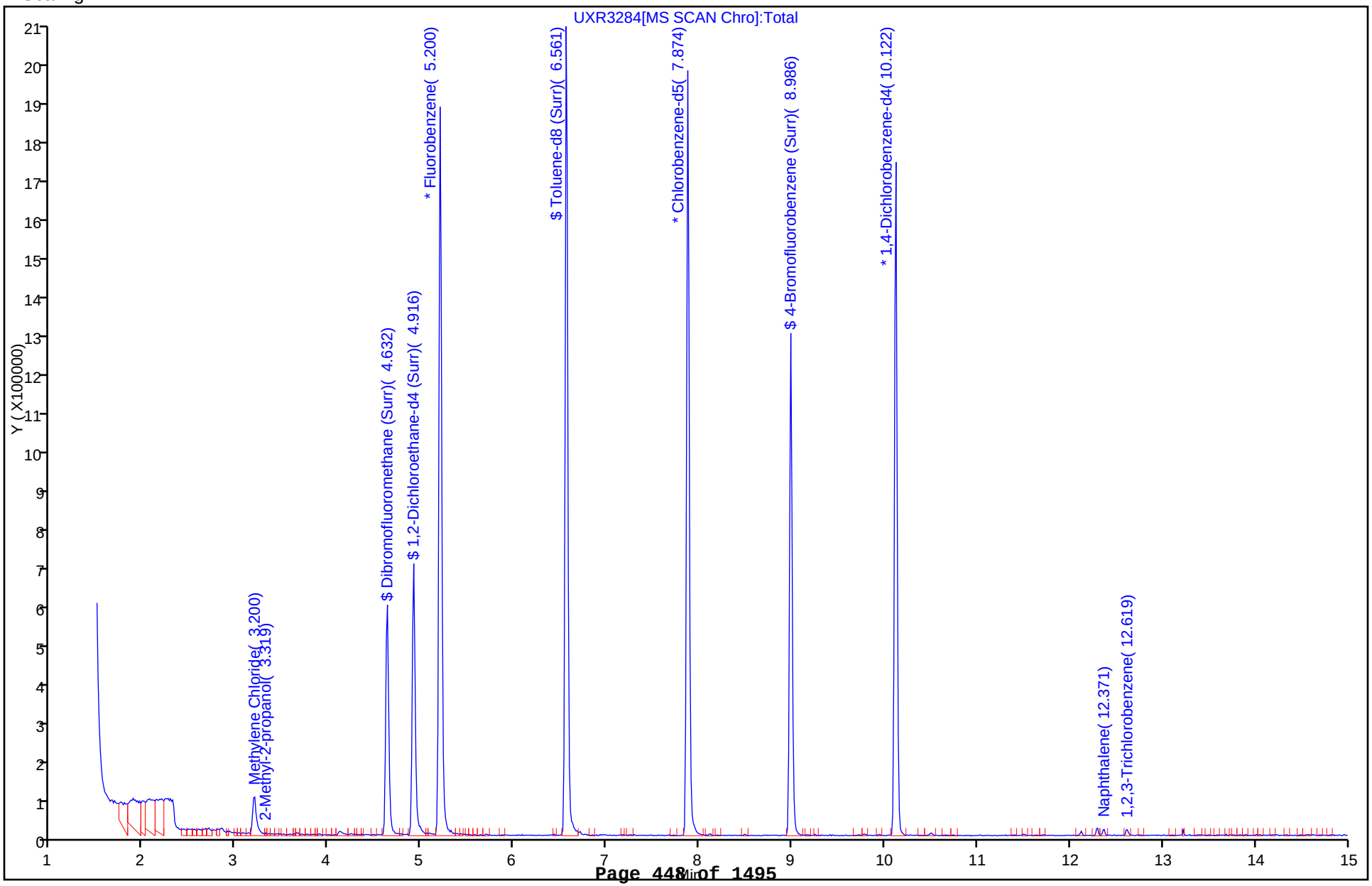
Report Date: 09-Apr-2013 08:43:32 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX10\20130408-18651.b\UXR3284.D

Injection Date:	08-Apr-2013 13:34:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX10
Lims Batch ID:	81013	Lims Sample ID:	6
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-81013/4

Matrix: Water | Lab File ID: UXR3282.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/08/2013 12:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 81013 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	9.36		1.0	0.25	0.22
79-34-5	1,1,2,2-Tetrachloroethane	10.2		1.0	0.25	0.18
79-00-5	1,1,2-Trichloroethane	10.3		1.0	0.50	0.27
75-34-3	1,1-Dichloroethane	9.63		1.0	0.25	0.15
75-35-4	1,1-Dichloroethene	9.25		1.0	0.25	0.19
107-06-2	1,2-Dichloroethane	10.1		1.0	0.25	0.22
540-59-0	1,2-Dichloroethene, Total	19.0		2.0	0.50	0.34
78-87-5	1,2-Dichloropropane	9.98		1.0	0.25	0.18
78-93-3	2-Butanone (MEK)	20.0		10	0.57	0.57
591-78-6	2-Hexanone	21.2		10	0.50	0.41
108-10-1	4-Methyl-2-pentanone (MIBK)	22.0		10	0.50	0.32
67-64-1	Acetone	15.5		10	1.1	1.1
71-43-2	Benzene	9.89		1.0	0.25	0.13
75-25-2	Bromoform	10.7		1.0	0.64	0.64
74-83-9	Bromomethane	6.68		1.0	0.50	0.41
75-15-0	Carbon disulfide	9.29		1.0	0.25	0.13
56-23-5	Carbon tetrachloride	9.52		1.0	0.25	0.13
108-90-7	Chlorobenzene	9.72		1.0	0.25	0.15
74-87-3	Chloromethane	9.84		1.0	0.50	0.30
10061-01-5	cis-1,3-Dichloropropene	9.36		1.0	0.25	0.14
124-48-1	Dibromochloromethane	10.6		1.0	0.25	0.18
75-27-4	Bromodichloromethane	10.6		1.0	0.25	0.15
100-41-4	Ethylbenzene	9.51		1.0	0.25	0.17
1634-04-4	Methyl tert-butyl ether	10.2		1.0	0.25	0.17
75-09-2	Methylene Chloride	9.88		1.0	0.50	0.33
100-42-5	Styrene	10.1		1.0	0.25	0.11
127-18-4	Tetrachloroethene	9.51		1.0	0.50	0.29
108-88-3	Toluene	9.42		1.0	0.25	0.13
10061-02-6	trans-1,3-Dichloropropene	9.71		1.0	0.25	0.19
79-01-6	Trichloroethene	10.2		1.0	0.25	0.17
75-01-4	Vinyl chloride	9.88		1.0	0.25	0.22
1330-20-7	Xylenes, Total	29.4		2.0	0.75	0.28
67-66-3	Chloroform	9.60		1.0	0.25	0.16
74-97-5	Bromochloromethane	10.0		1.0	0.50	0.29
106-93-4	1,2-Dibromoethane	10.2		1.0	0.25	0.24
75-00-3	Chloroethane	8.71		1.0	0.50	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-81013/4

Matrix: Water Lab File ID: UXR3282.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 04/08/2013 12:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 81013 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	94		85-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		70-120
460-00-4	4-Bromofluorobenzene (Surr)	100		75-120
1868-53-7	Dibromofluoromethane (Surr)	94		85-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX10\20130408-18651.b\UXR3282.D
Lims ID: LCS Client ID:
Inject. Date: 08-Apr-2013 12:50:30 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0018651-004
Misc. Info.:
Operator: 1904 Instrument ID: A3UX10
Purge Vol: 5.000 mL ALS Bottle#: 3
Lims Batch ID: 81013 Lims Sample ID: 4
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX10\20130408-18651.b\8260_10.m
Last Update: 09-Apr-2013 08:43:29 Calib Date: 02-Apr-2013 17:07:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3081.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK021

First Level Reviewer: quayler Date: 08-Apr-2013 13:08:07

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.197	5.200	-0.003	99	1833691	10.0	
* 2 Chlorobenzene-d5	117	7.872	7.874	-0.002	87	1294647	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.120	10.122	-0.002	88	729378	10.0	
$ 5 Dibromofluoromethane (Surr)	113	4.629	4.629	0.0	58	397048	9.39	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.913	4.913	0.0	0	505568	9.11	
$ 7 Toluene-d8 (Surr)	98	6.558	6.570	-0.012	93	1692166	9.39	
$ 8 4-Bromofluorobenzene (Surr)	95	8.984	8.984	0.0	87	679581	10.0	
12 Dichlorodifluoromethane	85	1.553	1.553	0.0	98	350115	8.79	
13 Chloromethane	50	1.695	1.695	0.0	99	1041514	9.84	
14 Vinyl chloride	62	1.789	1.789	0.0	97	702761	9.88	
16 Bromomethane	94	2.085	2.085	0.0	86	177467	6.68	
17 Chloroethane	64	2.168	2.168	0.0	98	344619	8.71	
19 Trichlorofluoromethane	101	2.381	2.393	-0.012	97	487720	9.59	
20 Ethyl ether	59	2.594	2.597	-0.003	97	488730	10.3	
21 Acrolein	56	2.701	2.700	0.001	90	234699	34.2	
23 1,1-Dichloroethene	96	2.807	2.807	0.0	95	440484	9.25	
24 Acetone	43	2.819	2.819	0.0	52	201188	15.5	
25 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.831	2.819	0.012	92	397020	11.1	
26 Iodomethane	142	2.937	2.937	0.0	96	707035	9.39	
27 Carbon disulfide	76	3.008	3.008	0.0	100	1491967	9.29	
28 Acetonitrile	41	3.044	3.044	0.0	98	91896	26.1	
30 Methyl acetate	43	3.091	3.103	-0.012	91	485973	12.2	
31 Methylene Chloride	84	3.186	3.197	-0.011	93	570763	9.88	
32 2-Methyl-2-propanol	59	3.257	3.257	0.0	91	324098	181.4	
33 Acrylonitrile	53	3.375	3.375	0.0	99	621238	32.3	
35 Methyl tert-butyl ether	73	3.422	3.422	0.0	91	1170249	10.2	
34 trans-1,2-Dichloroethene	96	3.422	3.422	0.0	93	527510	9.41	
36 Hexane	86	3.659	3.659	0.0	96	112369	10.2	
37 1,1-Dichloroethane	63	3.766	3.765	0.001	97	1014709	9.63	
38 Vinyl acetate	86	3.789	3.789	0.0	96	81810	9.29	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
39 Isopropyl ether	87	3.813	3.816	-0.003	98	439677	10.0	
43 cis-1,2-Dichloroethene	96	4.239	4.239	0.0	86	554318	9.63	
42 2-Butanone (MEK)	43	4.239	4.239	0.0	56	428905	20.0	
44 2,2-Dichloropropane	77	4.251	4.251	0.0	81	498107	10.1	
48 Chlorobromomethane	128	4.440	4.440	0.0	90	257977	10.0	
49 Tetrahydrofuran	42	4.487	4.487	0.0	74	149048	10.3	
50 Chloroform	83	4.499	4.499	0.0	96	820790	9.60	
51 1,1,1-Trichloroethane	97	4.665	4.677	-0.012	90	626479	9.36	
52 Cyclohexane	56	4.736	4.736	0.0	92	1081630	9.36	
53 1,1-Dichloropropene	75	4.807	4.807	0.0	92	655093	9.91	
54 Carbon tetrachloride	117	4.819	4.819	0.0	93	513018	9.52	
55 Isobutyl alcohol	41	4.842	4.845	-0.003	88	616870	543.0	
56 1,2-Dichloroethane	62	4.973	4.972	0.0	55	713727	10.1	
57 Benzene	78	4.973	4.984	-0.012	96	2085101	9.89	
61 Trichloroethene	130	5.517	5.517	0.0	97	531187	10.2	
64 1,2-Dichloropropane	63	5.694	5.694	0.0	76	547959	9.98	
63 Methylcyclohexane	83	5.694	5.694	0.0	87	679416	9.13	
66 Dibromomethane	93	5.801	5.801	0.0	88	272618	10.6	
68 Dichlorobromomethane	83	5.919	5.919	0.0	98	571000	10.6	
70 2-Chloroethyl vinyl ether	63	6.168	6.168	0.0	88	261285	10.1	
71 cis-1,3-Dichloropropene	75	6.310	6.309	0.001	88	622375	9.36	
72 4-Methyl-2-pentanone (MIBK)	43	6.440	6.440	0.0	98	962865	22.0	
73 Toluene	91	6.617	6.629	-0.012	97	2133138	9.42	
74 trans-1,3-Dichloropropene	75	6.795	6.795	0.0	97	565514	9.71	
76 1,1,2-Trichloroethane	97	6.960	6.960	0.0	94	414934	10.3	
77 1,3-Dichloropropane	76	7.114	7.114	0.0	98	717106	10.1	
78 Tetrachloroethene	164	7.126	7.126	0.0	95	400962	9.51	
79 2-Hexanone	43	7.173	7.185	-0.012	99	669006	21.2	
81 Chlorodibromomethane	129	7.327	7.327	0.0	90	391957	10.6	
83 Ethylene Dibromide	107	7.446	7.445	0.001	98	384556	10.2	
85 Chlorobenzene	112	7.907	7.907	0.0	95	1374675	9.72	
86 1,1,1,2-Tetrachloroethane	131	7.966	7.966	0.0	89	448220	9.99	
87 Ethylbenzene	106	8.002	8.002	0.0	98	717740	9.51	
88 m-Xylene & p-Xylene	106	8.108	8.108	0.0	100	1860380	19.6	
89 o-Xylene	106	8.487	8.487	0.0	88	890185	9.83	
90 Styrene	104	8.499	8.499	0.0	92	1494000	10.1	
91 Bromoform	173	8.676	8.676	0.0	98	235991	10.7	
92 Isopropylbenzene	105	8.842	8.842	0.0	96	2079887	9.46	
94 Cyclohexanone	55	8.925	8.927	-0.002	88	252140	31.3	
95 1,1,2,2-Tetrachloroethane	83	9.102	9.102	0.0	92	523174	10.2	
96 Bromobenzene	156	9.138	9.138	0.0	95	590037	9.82	
97 1,2,3-Trichloropropane	110	9.161	9.161	0.0	76	166493	10.3	
98 trans-1,4-Dichloro-2-butene	53	9.161	9.161	0.0	79	270952	17.8	
99 N-Propylbenzene	120	9.244	9.244	0.0	97	611392	10.0	
100 2-Chlorotoluene	126	9.327	9.327	0.0	97	544087	9.60	
101 1,3,5-Trimethylbenzene	105	9.410	9.410	0.0	93	1720888	9.84	
102 4-Chlorotoluene	126	9.433	9.433	0.0	97	607123	10.0	
103 tert-Butylbenzene	119	9.729	9.729	0.0	91	1550887	9.85	
104 1,2,4-Trimethylbenzene	105	9.777	9.777	0.001	73	1760789	9.84	
105 sec-Butylbenzene	105	9.942	9.942	0.0	94	1850234	9.39	
106 1,3-Dichlorobenzene	146	10.061	10.060	0.001	97	1078211	9.63	
107 4-Isopropyltoluene	119	10.084	10.084	0.0	93	1619925	10.1	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
108 1,4-Dichlorobenzene	146	10.143	10.143	0.0	92	1087056	9.25	
109 1,2,3-Trimethylbenzene	105	10.191	10.193	-0.002	95	1804511	9.86	
110 n-Butylbenzene	91	10.498	10.498	0.0	94	1245428	9.15	
111 1,2-Dichlorobenzene	146	10.510	10.510	0.0	97	992436	9.64	
112 1,2-Dibromo-3-Chloropropane	157	11.279	11.279	0.0	73	62508	10.3	
114 1,2,4-Trichlorobenzene	180	12.120	12.119	0.001	93	339846	7.58	
115 Hexachlorobutadiene	225	12.297	12.297	0.0	94	150197	7.02	
116 Naphthalene	128	12.368	12.368	0.0	100	718426	6.43	
117 1,2,3-Trichlorobenzene	180	12.616	12.616	0.0	100	282917	6.51	
S 119 Trihalomethanes, Total	1				0		41.5	
S 120 1,2-Dichloroethene, Total	96				0		19.0	
S 122 Xylenes, Total	106				0		29.5	

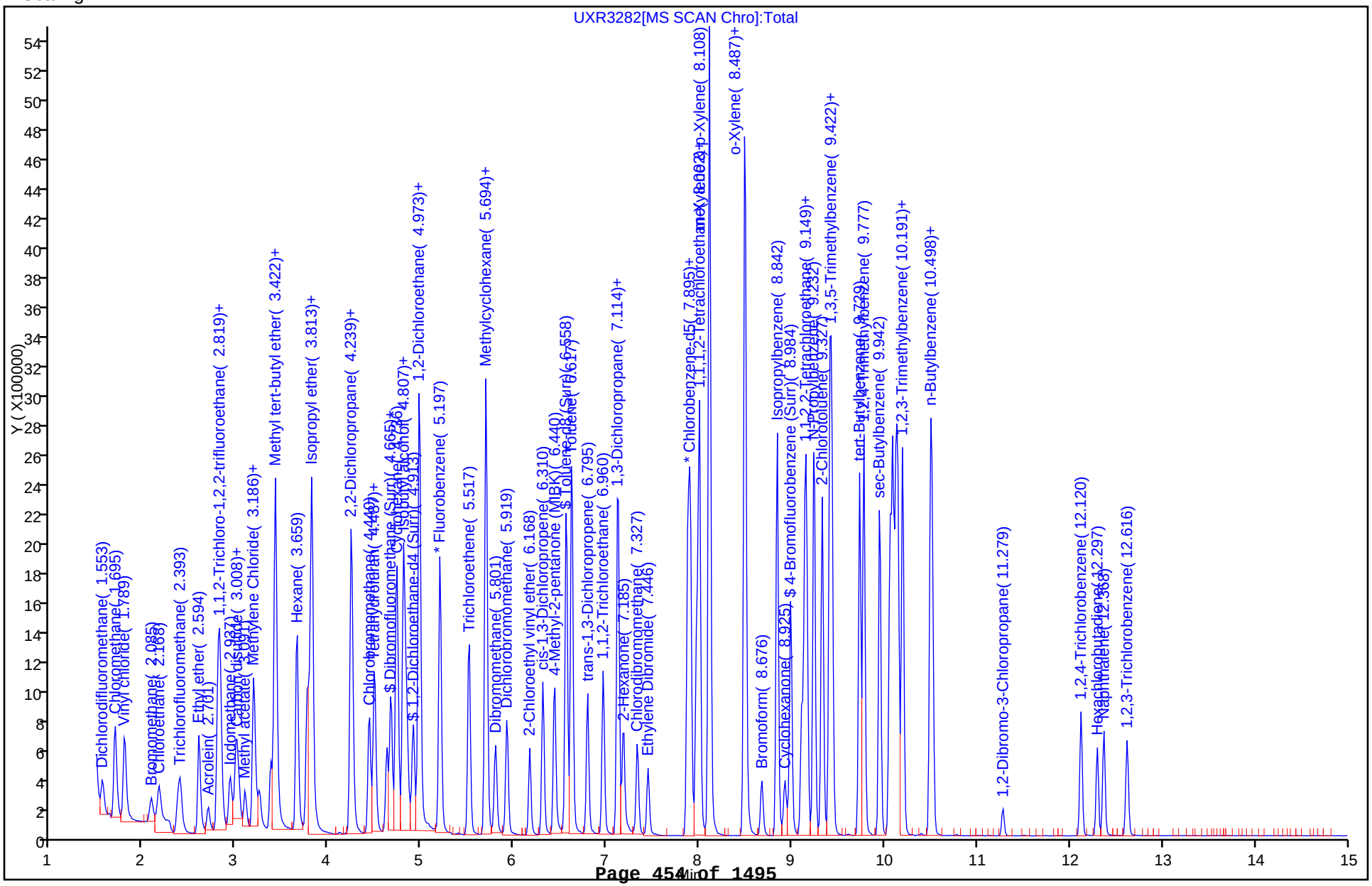
Report Date: 09-Apr-2013 08:43:30 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX10\20130408-18651.b\UXR3282.D

Injection Date:	08-Apr-2013 12:50:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX10
Lims Batch ID:	81013	Lims Sample ID:	4
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-81013/5

Matrix: Water | Lab File ID: UXR3283.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/08/2013 13:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 81013 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.00109		0.0010	0.00025	0.00022
79-34-5	1,1,2,2-Tetrachloroethane	0.00140	^	0.0010	0.00025	0.00018
79-00-5	1,1,2-Trichloroethane	0.00104		0.0010	0.00050	0.00027
75-34-3	1,1-Dichloroethane	0.00111		0.0010	0.00025	0.00015
75-35-4	1,1-Dichloroethene	0.00106		0.0010	0.00025	0.00019
107-06-2	1,2-Dichloroethane	0.00120		0.0010	0.00025	0.00022
540-59-0	1,2-Dichloroethene, Total	0.00222		0.0020	0.00050	0.00034
78-87-5	1,2-Dichloropropane	0.00110		0.0010	0.00025	0.00018
78-93-3	2-Butanone (MEK)	0.00973	J	0.010	0.00050	0.00057
591-78-6	2-Hexanone	0.00935	J	0.010	0.00050	0.00041
108-10-1	4-Methyl-2-pentanone (MIBK)	0.00956	J	0.010	0.00050	0.00032
67-64-1	Acetone	0.00883	J	0.010	0.0010	0.0011
71-43-2	Benzene	0.00116		0.0010	0.00025	0.00013
75-25-2	Bromoform	0.00103		0.0010	0.00050	0.00064
74-83-9	Bromomethane	0.000930	J	0.0010	0.00050	0.00041
75-15-0	Carbon disulfide	0.00106		0.0010	0.00025	0.00013
56-23-5	Carbon tetrachloride	0.00104		0.0010	0.00025	0.00013
108-90-7	Chlorobenzene	0.00111		0.0010	0.00025	0.00015
74-87-3	Chloromethane	0.00116		0.0010	0.00050	0.00030
10061-01-5	cis-1,3-Dichloropropene	0.00131	^	0.0010	0.00025	0.00014
124-48-1	Dibromochloromethane	0.00106		0.0010	0.00025	0.00018
75-27-4	Bromodichloromethane	0.00111		0.0010	0.00025	0.00015
100-41-4	Ethylbenzene	0.000933	J	0.0010	0.00025	0.00017
1634-04-4	Methyl tert-butyl ether	0.00118		0.0010	0.00025	0.00017
75-09-2	Methylene Chloride	0.00138	^	0.0010	0.00050	0.00033
100-42-5	Styrene	0.000866	J	0.0010	0.00025	0.00011
127-18-4	Tetrachloroethene	0.00114		0.0010	0.00050	0.00029
108-88-3	Toluene	0.00108		0.0010	0.00025	0.00013
10061-02-6	trans-1,3-Dichloropropene	0.00131	^	0.0010	0.00025	0.00019
79-01-6	Trichloroethene	0.00118		0.0010	0.00025	0.00017
75-01-4	Vinyl chloride	0.00106		0.0010	0.00025	0.00022
1330-20-7	Xylenes, Total	0.00286		0.0020	0.00075	0.00028
67-66-3	Chloroform	0.00119		0.0010	0.00025	0.00016
74-97-5	Bromochloromethane	0.00115		0.0010	0.00050	0.00029
106-93-4	1,2-Dibromoethane	0.00109		0.0010	0.00025	0.00024
75-00-3	Chloroethane	0.00106		0.0010	0.00050	0.00029

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-81013/5

Matrix: Water Lab File ID: UXR3283.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 04/08/2013 13:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 81013 Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	92		50-150
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		50-150
460-00-4	4-Bromofluorobenzene (Surr)	89		50-150
1868-53-7	Dibromofluoromethane (Surr)	98		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX10\20130408-18651.b\UXR3283.D
Lims ID: MRL Client ID:
Inject. Date: 08-Apr-2013 13:12:30 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018651-005
Misc. Info.:
Operator: 1904 Instrument ID: A3UX10
Purge Vol: 5.000 mL ALS Bottle#: 4
Lims Batch ID: 81013 Lims Sample ID: 5
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX10\20130408-18651.b\8260_10.m
Last Update: 09-Apr-2013 08:43:29 Calib Date: 02-Apr-2013 17:07:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3081.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK021

First Level Reviewer: quayler Date: 08-Apr-2013 13:29:34

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.198	5.200	-0.002	99	1934419	10.0	
* 2 Chlorobenzene-d5	117	7.872	7.874	-0.002	88	1336222	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.120	10.122	-0.002	94	675843	10.0	
$ 4 BFB	95	3.423	3.709	-0.286	0	3228	0	
$ 5 Dibromofluoromethane (Surr)	113	4.630	4.629	0.001	58	438545	9.83	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.914	4.913	0.001	0	543045	9.28	
$ 7 Toluene-d8 (Surr)	98	6.570	6.570	0.0	93	1705515	9.17	
$ 8 4-Bromofluorobenzene (Surr)	95	8.984	8.984	0.0	89	623983	8.90	
143 1,3-Diethylbenzene TIC	1		0.000					
10 C6-C12	1		0.000					
9 Benzyl chloride	126		0.000					
11 C6-C10	1		0.000					
12 Dichlorodifluoromethane	85	1.553	1.553	0.0	79	55861	1.33	
13 Chloromethane	50	1.695	1.695	0.0	99	129350	1.16	
14 Vinyl chloride	62	1.790	1.789	0.001	93	79888	1.06	
15 Chlorodifluoromethane TIC	1		1.900					
16 Bromomethane	94	2.085	2.085	0.0	69	26045	0.9297	
17 Chloroethane	64	2.168	2.168	0.0	87	44335	1.06	
18 Dichlorofluoromethane	67		2.325					
19 Trichlorofluoromethane	101	2.393	2.393	0.0	89	56776	1.06	
20 Ethyl ether	59		2.597					
21 Acrolein	56	2.701	2.700	0.001	85	77372	10.7	
23 1,1-Dichloroethene	96	2.807	2.807	0.0	92	53118	1.06	
24 Acetone	43	2.831	2.819	0.012	98	120700	8.83	
25 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.819	2.819	0.0	61	34551	0.9190	
22 Methylal	45		2.851					9
26 Iodomethane	142	2.937	2.937	0.0	97	85931	1.08	
27 Carbon disulfide	76	3.008	3.008	0.0	99	179269	1.06	
28 Acetonitrile	41	3.056	3.044	0.012	81	26215	7.06	
29 3-Chloro-1-propene	76		3.094					9

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
30 Methyl acetate	43	3.103	3.103	0.0	99	116203	2.76	
31 Methylene Chloride	84	3.198	3.197	0.001	97	118068	1.38	
32 2-Methyl-2-propanol	59	3.257	3.257	0.0	95	45733	24.3	
33 Acrylonitrile	53	3.387	3.375	0.012	92	47752	2.35	
35 Methyl tert-butyl ether	73	3.423	3.422	0.001	89	143185	1.18	
34 trans-1,2-Dichloroethene	96	3.423	3.422	0.001	84	67118	1.13	
36 Hexane	86	3.659	3.659	0.0	90	11323	0.9723	
37 1,1-Dichloroethane	63	3.766	3.765	0.001	94	123328	1.11	
38 Vinyl acetate	86	3.789	3.789	0.0	96	8272	0.8902	
39 Isopropyl ether	87		3.816					9
40 2-Chloro-1,3-butadiene	53		3.851					
41 Tert-butyl ethyl ether	59		4.111					
43 cis-1,2-Dichloroethene	96	4.239	4.239	0.0	79	66217	1.09	
42 2-Butanone (MEK)	43	4.239	4.239	0.0	97	219867	9.73	
44 2,2-Dichloropropane	77	4.251	4.251	0.0	76	65521	1.25	
45 Propionitrile	54		4.277					
46 Ethyl acetate	43	4.239	4.289	-0.050	64	219867	4.85	
47 Methacrylonitrile	41		4.407					9
48 Chlorobromomethane	128	4.440	4.440	0.0	88	31267	1.15	
49 Tetrahydrofuran	42	4.488	4.487	0.001	23	17871	1.17	
50 Chloroform	83	4.499	4.499	0.0	82	107313	1.19	
51 1,1,1-Trichloroethane	97	4.677	4.677	0.0	90	77075	1.09	
52 Cyclohexane	56	4.736	4.736	0.0	93	108663	0.8918	
53 1,1-Dichloropropene	75	4.807	4.807	0.0	88	74906	1.07	
54 Carbon tetrachloride	117	4.819	4.819	0.0	87	59370	1.04	
55 Isobutyl alcohol	41		4.845					9
56 1,2-Dichloroethane	62	4.973	4.972	0.001	47	89586	1.20	
57 Benzene	78	4.985	4.984	0.0	96	258010	1.16	
58 Tert-amyl methyl ether	73		5.058					9
59 n-Heptane	100		5.188					
60 n-Butanol	56		5.401					
61 Trichloroethene	130	5.517	5.517	0.0	93	65019	1.18	
62 Ethyl acrylate	55	5.694	5.605	0.089	56	75532	0	
64 1,2-Dichloropropane	63	5.694	5.694	0.0	75	63739	1.10	
63 Methylcyclohexane	83	5.694	5.694	0.0	86	69370	0.8838	
65 Methyl methacrylate	41		5.768					9
67 1,4-Dioxane	88	5.801	5.801	0.0	12	9180	36.0	
66 Dibromomethane	93	5.801	5.801	0.0	84	30879	1.14	
68 Dichlorobromomethane	83	5.919	5.919	0.0	87	63319	1.11	
69 2-Nitropropane	41		6.111					9
70 2-Chloroethyl vinyl ether	63	6.168	6.168	0.0	84	41020	2.39	
71 cis-1,3-Dichloropropene	75	6.310	6.309	0.001	71	60025	1.31	
72 4-Methyl-2-pentanone (MIBK)	43	6.440	6.440	0.0	98	442106	9.56	
73 Toluene	91	6.617	6.629	-0.012	93	253518	1.08	
74 trans-1,3-Dichloropropene	75	6.795	6.795	0.0	87	48722	1.31	
75 Ethyl methacrylate	69	6.866	6.866	0.0	83	47515	1.29	
76 1,1,2-Trichloroethane	97	6.961	6.960	0.001	86	43263	1.04	
77 1,3-Dichloropropane	76	7.114	7.114	0.0	92	76659	1.05	
78 Tetrachloroethene	164	7.126	7.126	0.0	93	49661	1.14	
79 2-Hexanone	43	7.185	7.185	0.0	100	304258	9.35	
80 n-Butyl acetate	56		7.294					
81 Chlorodibromomethane	129	7.327	7.327	0.0	76	40503	1.06	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
82 Tetrahydrothiophene	60		7.346					
83 Ethylene Dibromide	107	7.446	7.445	0.001	85	42569	1.09	
84 1-Chlorohexane	91		7.779					9
85 Chlorobenzene	112	7.907	7.907	0.0	96	162691	1.11	
86 1,1,1,2-Tetrachloroethane	131	7.966	7.966	0.0	79	47407	1.02	
87 Ethylbenzene	106	8.002	8.002	0.0	97	72661	0.9328	
88 m-Xylene & p-Xylene	106	8.108	8.108	0.0	99	183367	1.87	
89 o-Xylene	106	8.487	8.487	0.0	91	92585	0.99	
90 Styrene	104	8.499	8.499	0.0	89	131944	0.8663	
91 Bromoform	173	8.676	8.676	0.0	86	23351	1.03	
92 Isopropylbenzene	105	8.842	8.842	0.0	93	199130	0.8773	
94 Cyclohexanone	55	8.925	8.927	-0.002	68	21697	2.90	
93 1,4-Dichlorobutane	55		8.931					9
95 1,1,2,2-Tetrachloroethane	83	9.102	9.102	0.0	91	66531	1.40	
96 Bromobenzene	156	9.138	9.138	0.0	94	70133	1.26	
97 1,2,3-Trichloropropane	110	9.150	9.161	-0.011	74	19351	1.30	
98 trans-1,4-Dichloro-2-butene	53	9.161	9.161	0.0	59	10899	0.9618	
99 N-Propylbenzene	120	9.232	9.244	-0.012	98	58659	1.04	
100 2-Chlorotoluene	126	9.327	9.327	0.0	95	56827	1.08	
101 1,3,5-Trimethylbenzene	105	9.410	9.410	0.0	89	168065	1.04	
102 4-Chlorotoluene	126	9.434	9.433	0.001	97	62963	1.12	
103 tert-Butylbenzene	119	9.729	9.729	0.0	92	145075	0.99	
104 1,2,4-Trimethylbenzene	105	9.777	9.777	0.001	68	164999	1.00	
105 sec-Butylbenzene	105	9.942	9.942	0.0	90	182036	1.00	
106 1,3-Dichlorobenzene	146	10.061	10.060	0.001	95	124664	1.20	
107 4-Isopropyltoluene	119	10.084	10.084	0.0	95	146103	0.9796	
108 1,4-Dichlorobenzene	146	10.144	10.143	0.001	86	125549	1.15	
109 1,2,3-Trimethylbenzene	105		10.193					9
110 n-Butylbenzene	91	10.487	10.498	-0.011	92	122397	0.9706	
111 1,2-Dichlorobenzene	146	10.510	10.510	0.0	95	120876	1.27	
112 1,2-Dibromo-3-Chloropropane	157	11.280	11.279	0.001	39	9235	1.64	
113 1,3,5-Trichlorobenzene	180	11.504	11.504	0.0	90	46479	0.8969	
114 1,2,4-Trichlorobenzene	180	12.120	12.119	0.001	87	58198	1.40	
115 Hexachlorobutadiene	225	12.297	12.297	0.0	77	36899	1.19	
116 Naphthalene	128	12.368	12.368	0.0	99	146432	1.41	
117 1,2,3-Trichlorobenzene	180	12.617	12.616	0.001	95	65368	1.62	
118 2-Methylnaphthalene	142		13.669					
S 119 Trihalomethanes, Total	1				0		4.39	
S 120 1,2-Dichloroethene, Total	96				0		2.22	
S 121 1,3-Dichloropropene, Total	75				0		2.62	
S 122 Xylenes, Total	106				0		2.87	
T 144 Isobutylene TIC	1		1.900					1
T 145 1,3-Butadiene TIC	1		2.100					1
T 123 Butyl Methacrylate TIC	1		9.400					1
T 124 Hexachloroethane TIC	1		10.700					1

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

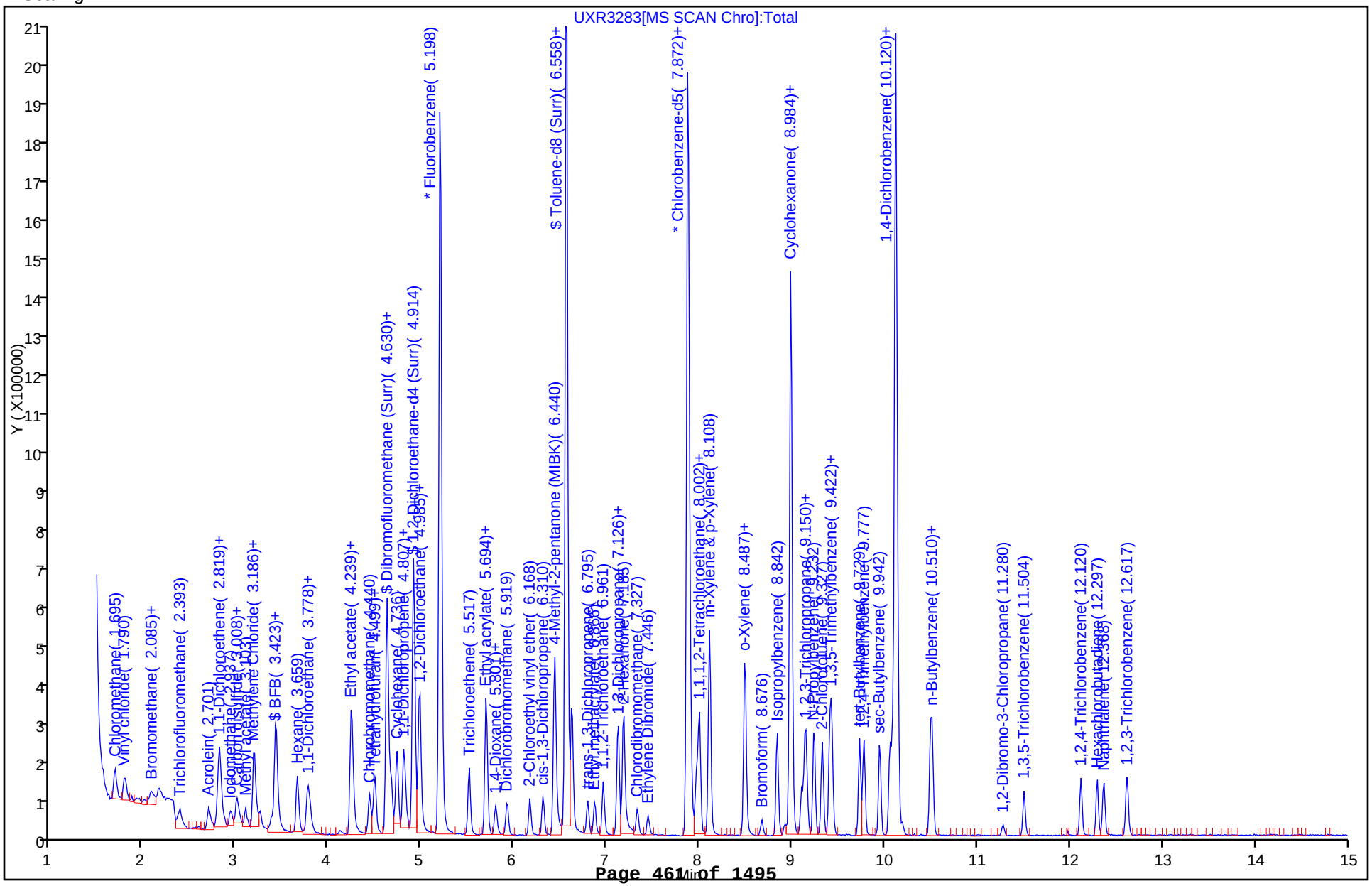
Report Date: 09-Apr-2013 08:43:32 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX10\20130408-18651.b\UXR3283.D

Injection Date:	08-Apr-2013 13:12:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX10
Lims Batch ID:	81013	Lims Sample ID:	5
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-81013/21

Matrix: Water | Lab File ID: UXR3299.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/08/2013 18:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 81013 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.000940	J	0.0010	0.00025	0.00022
79-34-5	1,1,2,2-Tetrachloroethane	0.00125		0.0010	0.00025	0.00018
79-00-5	1,1,2-Trichloroethane	0.000961	J	0.0010	0.00050	0.00027
75-34-3	1,1-Dichloroethane	0.000994	J	0.0010	0.00025	0.00015
75-35-4	1,1-Dichloroethene	0.00101		0.0010	0.00025	0.00019
107-06-2	1,2-Dichloroethane	0.00104		0.0010	0.00025	0.00022
540-59-0	1,2-Dichloroethene, Total	0.00187	J	0.0020	0.00050	0.00034
78-87-5	1,2-Dichloropropane	0.000976	J	0.0010	0.00025	0.00018
78-93-3	2-Butanone (MEK)	0.00771	J	0.010	0.00050	0.00057
591-78-6	2-Hexanone	0.00949	J	0.010	0.00050	0.00041
108-10-1	4-Methyl-2-pentanone (MIBK)	0.00897	J	0.010	0.00050	0.00032
67-64-1	Acetone	0.00676	J ^	0.010	0.0010	0.0011
71-43-2	Benzene	0.00102		0.0010	0.00025	0.00013
75-25-2	Bromoform	0.000836	J	0.0010	0.00050	0.00064
74-83-9	Bromomethane	0.000770	J	0.0010	0.00050	0.00041
75-15-0	Carbon disulfide	0.000894	J	0.0010	0.00025	0.00013
56-23-5	Carbon tetrachloride	0.000915	J	0.0010	0.00025	0.00013
108-90-7	Chlorobenzene	0.000980	J	0.0010	0.00025	0.00015
74-87-3	Chloromethane	0.00113		0.0010	0.00050	0.00030
10061-01-5	cis-1,3-Dichloropropene	0.00121		0.0010	0.00025	0.00014
124-48-1	Dibromochloromethane	0.000823	J	0.0010	0.00025	0.00018
75-27-4	Bromodichloromethane	0.000890	J	0.0010	0.00025	0.00015
100-41-4	Ethylbenzene	0.000915	J	0.0010	0.00025	0.00017
1634-04-4	Methyl tert-butyl ether	0.00101		0.0010	0.00025	0.00017
75-09-2	Methylene Chloride	0.00256	^	0.0010	0.00050	0.00033
100-42-5	Styrene	0.000745	J	0.0010	0.00025	0.00011
127-18-4	Tetrachloroethene	0.000960	J	0.0010	0.00050	0.00029
108-88-3	Toluene	0.000933	J	0.0010	0.00025	0.00013
10061-02-6	trans-1,3-Dichloropropene	0.00118		0.0010	0.00025	0.00019
79-01-6	Trichloroethene	0.00102		0.0010	0.00025	0.00017
75-01-4	Vinyl chloride	0.000961	J	0.0010	0.00025	0.00022
1330-20-7	Xylenes, Total	0.00240		0.0020	0.00075	0.00028
67-66-3	Chloroform	0.000960	J	0.0010	0.00025	0.00016
74-97-5	Bromochloromethane	0.00100		0.0010	0.00050	0.00029
106-93-4	1,2-Dibromoethane	0.000989	J	0.0010	0.00025	0.00024
75-00-3	Chloroethane	0.000985	J	0.0010	0.00050	0.00029

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-81013/21

Matrix: Water Lab File ID: UXR3299.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 04/08/2013 18:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 81013 Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	93		50-150
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		50-150
460-00-4	4-Bromofluorobenzene (Surr)	91		50-150
1868-53-7	Dibromofluoromethane (Surr)	96		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX10\20130408-18651.b\UXR3299.D
Lims ID: MRL Client ID:
Inject. Date: 08-Apr-2013 18:58:30 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018651-021
Misc. Info.:
Operator: 1904 Instrument ID: A3UX10
Purge Vol: 5.000 mL ALS Bottle#: 20
Lims Batch ID: 81013 Lims Sample ID: 21
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX10\20130408-18651.b\8260_10.m
Last Update: 09-Apr-2013 08:43:29 Calib Date: 02-Apr-2013 17:07:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX10\20130402-18471.b\UXX3081.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK021

First Level Reviewer: quayler Date: 09-Apr-2013 08:35:19

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.208	5.200	0.008	99	1847532	10.0	
* 2 Chlorobenzene-d5	117	7.871	7.874	-0.003	89	1247564	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.119	10.122	-0.003	95	650422	10.0	
$ 4 BFB	95	3.433	3.709	-0.276	0	1642	0	
$ 5 Dibromofluoromethane (Surr)	113	4.629	4.629	0.0	66	411008	9.65	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	4.913	4.913	0.0	0	522613	9.35	
$ 7 Toluene-d8 (Surr)	98	6.569	6.570	-0.001	93	1620520	9.33	
$ 8 4-Bromofluorobenzene (Surr)	95	8.983	8.984	-0.001	89	598538	9.14	
143 1,3-Diethylbenzene TIC	1		0.000					
10 C6-C12	1		0.000					
9 Benzyl chloride	126		0.000					
11 C6-C10	1		0.000					
12 Dichlorodifluoromethane	85	1.552	1.553	-0.001	77	40806	1.02	
13 Chloromethane	50	1.694	1.695	-0.001	96	120334	1.13	
14 Vinyl chloride	62	1.789	1.789	0.0	95	68886	0.9608	
15 Chlorodifluoromethane TIC	1		1.900					
16 Bromomethane	94	2.085	2.085	0.0	84	20597	0.7698	
17 Chloroethane	64	2.167	2.168	-0.001	77	39270	0.9848	
18 Dichlorofluoromethane	67		2.325					
19 Trichlorofluoromethane	101	2.380	2.393	-0.013	73	44152	0.8618	
20 Ethyl ether	59		2.597					9
21 Acrolein	56	2.700	2.700	0.0	82	55111	7.97	
23 1,1-Dichloroethene	96	2.806	2.807	-0.001	91	48584	1.01	
24 Acetone	43	2.830	2.819	0.011	97	88257	6.76	
25 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.830	2.819	0.011	75	34404	0.9582	
22 Methylal	45		2.851					
26 Iodomethane	142	2.948	2.937	0.011	95	72923	0.9607	
27 Carbon disulfide	76	3.007	3.008	-0.001	100	144751	0.8943	
28 Acetonitrile	41	3.055	3.044	0.011	91	33892	9.56	
29 3-Chloro-1-propene	76		3.094					9

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
30 Methyl acetate	43	3.102	3.103	-0.001	99	110245	2.74	
31 Methylene Chloride	84	3.197	3.197	0.0	97	177403	2.56	
32 2-Methyl-2-propanol	59	3.256	3.257	-0.001	93	50280	27.9	
33 Acrylonitrile	53	3.386	3.375	0.011	100	52812	2.72	
35 Methyl tert-butyl ether	73	3.422	3.422	0.0	88	117249	1.01	
34 trans-1,2-Dichloroethene	96	3.433	3.422	0.011	84	53509	0.9472	
36 Hexane	86	3.658	3.659	-0.001	94	11794	1.06	
37 1,1-Dichloroethane	63	3.765	3.765	0.0	81	105546	0.99	
38 Vinyl acetate	86	3.788	3.789	-0.001	97	5534	0.6235	
39 Isopropyl ether	87		3.816					9
40 2-Chloro-1,3-butadiene	53		3.851					
41 Tert-butyl ethyl ether	59		4.111					
43 cis-1,2-Dichloroethene	96	4.238	4.239	-0.001	79	53775	0.9271	
42 2-Butanone (MEK)	43	4.238	4.239	-0.001	96	166364	7.71	
44 2,2-Dichloropropane	77	4.250	4.251	-0.001	60	45903	0.9200	
45 Propionitrile	54		4.277					
46 Ethyl acetate	43	4.238	4.289	-0.051	70	171380	3.96	
47 Methacrylonitrile	41		4.407					9
48 Chlorobromomethane	128	4.439	4.440	-0.001	82	26025	1.00	
49 Tetrahydrofuran	42	4.487	4.487	0.0	21	17120	1.18	
50 Chloroform	83	4.498	4.499	-0.001	71	82682	0.9599	
51 1,1,1-Trichloroethane	97	4.676	4.677	-0.001	85	63405	0.9404	
52 Cyclohexane	56	4.735	4.736	-0.001	92	103897	0.8928	
53 1,1-Dichloropropene	75	4.806	4.807	-0.001	87	65540	0.9843	
54 Carbon tetrachloride	117	4.818	4.819	-0.001	87	49658	0.9150	
55 Isobutyl alcohol	41	4.842	4.845	-0.003	54	27382	31.7	
56 1,2-Dichloroethane	62	4.972	4.972	0.0	50	74022	1.04	
57 Benzene	78	4.984	4.984	0.0	96	217365	1.02	
58 Tert-amyl methyl ether	73		5.058					9
59 n-Heptane	100		5.188					
60 n-Butanol	56		5.401					
61 Trichloroethene	130	5.516	5.517	-0.001	91	53516	1.02	
62 Ethyl acrylate	55		5.605					9
64 1,2-Dichloropropane	63	5.705	5.694	0.011	77	53967	0.9758	
63 Methylcyclohexane	83	5.694	5.694	0.0	84	62857	0.8385	
65 Methyl methacrylate	41		5.768					
67 1,4-Dioxane	88	5.812	5.801	0.011	1	3763	15.4	
66 Dibromomethane	93	5.800	5.801	-0.001	81	25851	1.00	
68 Dichlorobromomethane	83	5.918	5.919	-0.001	91	48317	0.8901	
69 2-Nitropropane	41	6.167	6.111	0.056	40	2188	0.3148	
70 2-Chloroethyl vinyl ether	63	6.167	6.168	-0.001	72	37833	2.34	
71 cis-1,3-Dichloropropene	75	6.309	6.309	0.0	72	50365	1.21	
72 4-Methyl-2-pentanone (MIBK)	43	6.439	6.440	-0.001	98	396368	8.97	
73 Toluene	91	6.628	6.629	-0.001	87	203612	0.9331	
74 trans-1,3-Dichloropropene	75	6.794	6.795	-0.001	86	37614	1.18	
75 Ethyl methacrylate	69	6.877	6.866	0.011	84	39729	1.21	
76 1,1,2-Trichloroethane	97	6.960	6.960	0.0	89	37461	0.9610	
77 1,3-Dichloropropane	76	7.113	7.114	-0.001	93	66792	0.9786	
78 Tetrachloroethene	164	7.125	7.126	-0.001	92	39003	0.9595	
79 2-Hexanone	43	7.184	7.185	-0.001	99	288561	9.49	
80 n-Butyl acetate	56		7.294					9
81 Chlorodibromomethane	129	7.338	7.327	0.011	69	29265	0.8235	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
82 Tetrahydrothiophene	60		7.346					
83 Ethylene Dibromide	107	7.445	7.445	0.0	84	36091	0.9893	
84 1-Chlorohexane	91		7.779					9
85 Chlorobenzene	112	7.906	7.907	-0.001	97	133555	0.9798	
86 1,1,1,2-Tetrachloroethane	131	7.977	7.966	0.011	79	39333	0.9096	
87 Ethylbenzene	106	8.001	8.002	-0.001	97	66538	0.9149	
88 m-Xylene & p-Xylene	106	8.107	8.108	-0.001	99	144102	1.58	
89 o-Xylene	106	8.486	8.487	-0.001	90	71456	0.8188	
90 Styrene	104	8.498	8.499	-0.001	88	105899	0.7447	
91 Bromoform	173	8.675	8.676	-0.001	78	17759	0.8363	
92 Isopropylbenzene	105	8.841	8.842	-0.001	93	156939	0.7405	
94 Cyclohexanone	55	8.924	8.927	-0.003	75	22408	3.11	
93 1,4-Dichlorobutane	55		8.931					9
95 1,1,2,2-Tetrachloroethane	83	9.101	9.102	-0.001	76	56954	1.25	
96 Bromobenzene	156	9.137	9.138	-0.001	92	56830	1.06	
97 1,2,3-Trichloropropane	110	9.149	9.161	-0.012	60	17639	1.23	
98 trans-1,4-Dichloro-2-butene	53	9.161	9.161	0.0	56	10427	0.9566	
99 N-Propylbenzene	120	9.243	9.244	-0.001	97	45800	0.8409	
100 2-Chlorotoluene	126	9.326	9.327	-0.001	96	48046	0.9508	
101 1,3,5-Trimethylbenzene	105	9.409	9.410	-0.001	91	139108	0.8920	
102 4-Chlorotoluene	126	9.433	9.433	0.0	95	51367	0.9501	
103 tert-Butylbenzene	119	9.729	9.729	0.0	89	109526	0.7797	
104 1,2,4-Trimethylbenzene	105	9.776	9.777	0.0	68	137916	0.8647	
105 sec-Butylbenzene	105	9.942	9.942	0.0	90	154530	0.8793	
106 1,3-Dichlorobenzene	146	10.060	10.060	0.0	95	104670	1.05	
107 4-Isopropyltoluene	119	10.084	10.084	0.0	90	124172	0.8651	
108 1,4-Dichlorobenzene	146	10.143	10.143	0.0	84	117329	1.12	
109 1,2,3-Trimethylbenzene	105		10.193					9
110 n-Butylbenzene	91	10.486	10.498	-0.012	95	110430	0.9099	
111 1,2-Dichlorobenzene	146	10.521	10.510	0.011	95	100084	1.09	
112 1,2-Dibromo-3-Chloropropane	157	11.279	11.279	0.0	35	8524	1.57	
113 1,3,5-Trichlorobenzene	180	11.503	11.504	-0.001	88	40406	0.8102	
114 1,2,4-Trichlorobenzene	180	12.119	12.119	0.0	84	61898	1.55	
115 Hexachlorobutadiene	225	12.296	12.297	-0.001	86	38853	1.38	
116 Naphthalene	128	12.367	12.368	-0.001	99	156331	1.57	
117 1,2,3-Trichlorobenzene	180	12.616	12.616	0.0	97	73454	1.90	
118 2-Methylnaphthalene	142		13.669					
S 119 Trihalomethanes, Total	1				0		3.51	
S 120 1,2-Dichloroethene, Total	96				0		1.87	
S 121 1,3-Dichloropropene, Total	75				0		2.39	
S 122 Xylenes, Total	106				0		2.40	
T 144 Isobutylene TIC	1		1.900					1
T 145 1,3-Butadiene TIC	1		2.100					1
T 123 Butyl Methacrylate TIC	1		9.400					1
T 124 Hexachloroethane TIC	1		10.700					1

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

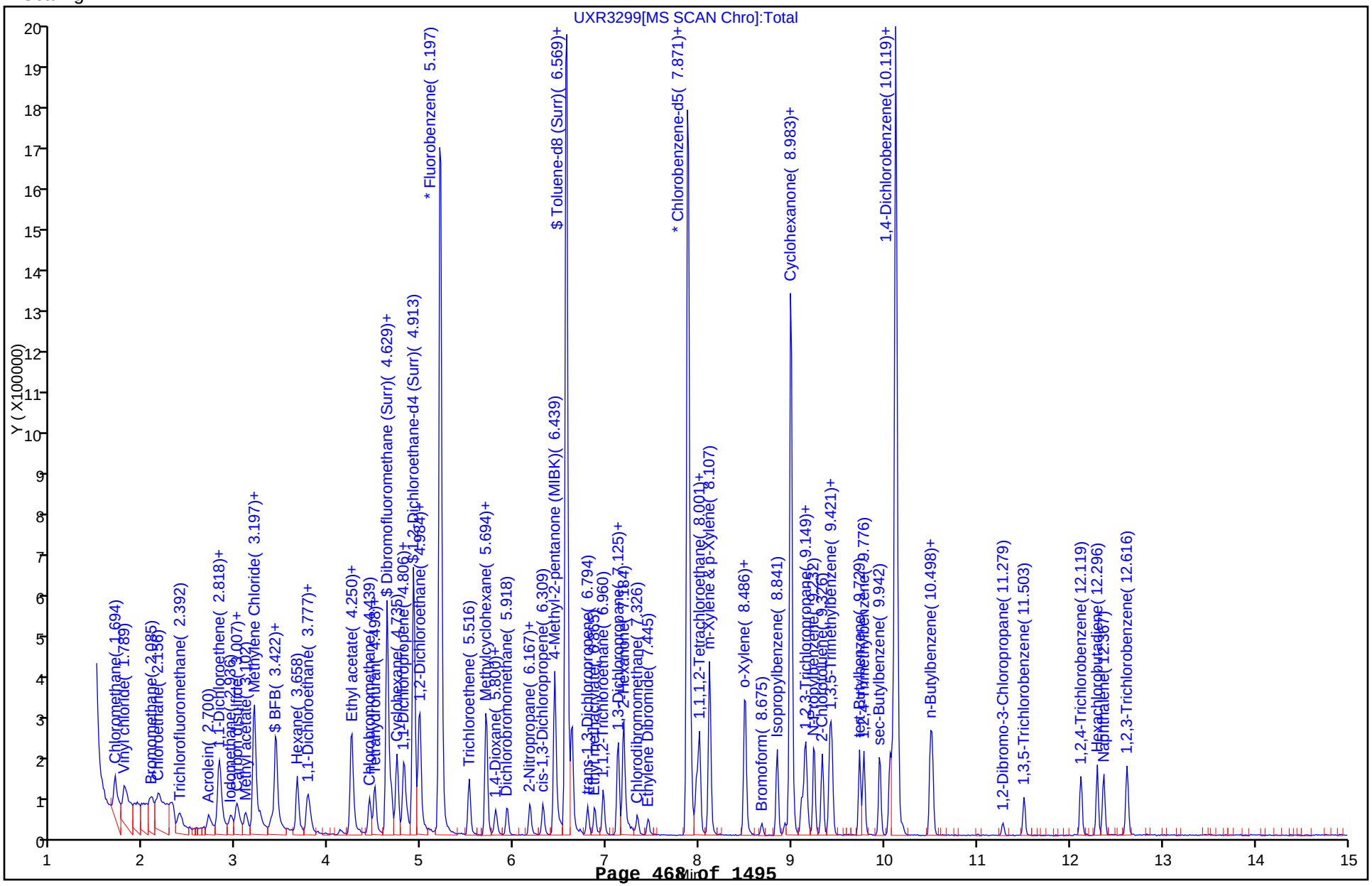
Report Date: 09-Apr-2013 08:43:40 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX10\20130408-18651.b\UXR3299.D

Injection Date:	08-Apr-2013 18:58:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX10
Lims Batch ID:	81013	Lims Sample ID:	21
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: A3UX10 Start Date: 04/02/2013 12:48

Analysis Batch Number: 80277 End Date: 04/02/2013 17:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-80277/1		04/02/2013 12:48	1	BFB5167.D	DB-624 0.18(mm)
STD8260 240-80277/2 IC		04/02/2013 13:09	1	UXX3070.D	DB-624 0.18(mm)
STD8260 240-80277/3 IC		04/02/2013 13:31	1	UXX3071.D	DB-624 0.18(mm)
STD8260 240-80277/4 ICIS		04/02/2013 13:52	1	UXX3072.D	DB-624 0.18(mm)
STD8260 240-80277/5 IC		04/02/2013 14:13	1	UXX3073.D	DB-624 0.18(mm)
STD8260 240-80277/6 IC		04/02/2013 14:35	1	UXX3074.D	DB-624 0.18(mm)
STD8260 240-80277/7 IC		04/02/2013 14:56	1	UXX3075.D	DB-624 0.18(mm)
STDA9 240-80277/8 IC		04/02/2013 15:18	1		DB-624 0.18(mm)
STDA9 240-80277/9 IC		04/02/2013 15:39	1		DB-624 0.18(mm)
STDA9 240-80277/10 IC		04/02/2013 16:01	1		DB-624 0.18(mm)
STDA9 240-80277/11 IC		04/02/2013 16:23	1		DB-624 0.18(mm)
STDA9 240-80277/12 IC		04/02/2013 16:45	1		DB-624 0.18(mm)
STDA9 240-80277/13 IC		04/02/2013 17:07	1		DB-624 0.18(mm)
ICV 240-80277/14		04/02/2013 17:28	1	UXX3082.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: A3UX10 Start Date: 04/08/2013 11:40

Analysis Batch Number: 81013 End Date: 04/08/2013 19:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-81013/1		04/08/2013 11:40	1	BFB5182.D	DB-624 0.18(mm)
CCV 240-81013/2		04/08/2013 12:07	1	UXR3280.D	DB-624 0.18(mm)
CCV 240-81013/3		04/08/2013 12:28	1	UXR3281.D	DB-624 0.18(mm)
LCS 240-81013/4		04/08/2013 12:50	1	UXR3282.D	DB-624 0.18(mm)
MRL 240-81013/5		04/08/2013 13:12	1	UXR3283.D	DB-624 0.18(mm)
MB 240-81013/6		04/08/2013 13:34	1	UXR3284.D	DB-624 0.18(mm)
ZZZZZ		04/08/2013 13:55	1		DB-624 0.18(mm)
ZZZZZ		04/08/2013 14:17	1		DB-624 0.18(mm)
ZZZZZ		04/08/2013 14:39	1		DB-624 0.18(mm)
ZZZZZ		04/08/2013 15:00	1		DB-624 0.18(mm)
ZZZZZ		04/08/2013 15:22	1		DB-624 0.18(mm)
ZZZZZ		04/08/2013 15:44	1		DB-624 0.18(mm)
ZZZZZ		04/08/2013 16:05	1		DB-624 0.18(mm)
ZZZZZ		04/08/2013 16:27	1		DB-624 0.18(mm)
240-22756-16	074SB-0022-0001-TB	04/08/2013 16:48	1	UXR3293.D	DB-624 0.18(mm)
ZZZZZ		04/08/2013 17:09	1		DB-624 0.18(mm)
ZZZZZ		04/08/2013 17:31	1		DB-624 0.18(mm)
ZZZZZ		04/08/2013 17:52	1		DB-624 0.18(mm)
ZZZZZ		04/08/2013 18:14	1		DB-624 0.18(mm)
ZZZZZ		04/08/2013 18:36	1		DB-624 0.18(mm)
MRL 240-81013/21		04/08/2013 18:58	1	UXR3299.D	DB-624 0.18(mm)
LODV 240-81013/22		04/08/2013 19:19	1	UXR3300.D	DB-624 0.18(mm)

Method 8270C DOD

Semivolatile Compounds (GC/MS) by Method 8270/DOD

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
074SB-0001-0001,0002-SO	240-22756-1	82	78	75	71	56	62
074SB-0002-0001-SO	240-22756-2	78	76	69	66	47	67
074SB-0003-0001-SO RE	240-22756-3 RE	64	68	56	61	53	59
074SB-0005-0001-SO	240-22756-4	74	74	64	61	57	54
074SB-0006-0001-SO	240-22756-5	76	76	67	65	39	62
074SB-0007-0001-SO	240-22756-6	84	83	76	72	41	62
074SB-0008-0001-SO	240-22756-7	78	76	70	64	48	58
074SB-0009-0001-SO	240-22756-8	81	78	73	68	44	61
074SB-0016-0001-SO	240-22756-10	78	77	69	68	67	62
074SB-0017-0001-SO	240-22756-11	65	67	56	56	55	52
074SB-0018-0001-SO	240-22756-12	67	68	64	63	58	55
074SB-0019-0001-SO	240-22756-13	67	67	88	67	60	60
074SB-0020-0001-SO	240-22756-14	71	72	64	67	63	61
074SB-0021-0001-SO	240-22756-15	83	82	74	69	68	62
	MB 240-81947/23-A	68	66	60	58	50	65
	MB 240-83163/15-A	74	79	66	68	68	64
	LCS 240-81947/24-A	80	79	71	72	73	65
	LCS 240-83163/16-A	71	73	67	66	78	63
074SB-0001-0001,0002-SO MS	240-22756-1 MS	84	81	76	69	77	63
074SB-0001-0001,0002-SO MSD	240-22756-1 MSD	71	73	63	63	72	57

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	35-105
PHL = Phenol-d5 (Surr)	40-100
NBZ = Nitrobenzene-d5 (Surr)	35-100
FBP = 2-Fluorobiphenyl (Surr)	45-105
TBP = 2,4,6-Tribromophenol (Surr)	35-125
TPH = Terphenyl-d14 (Surr)	30-125

Column to be used to flag recovery values

FORM II 8270C/DoD

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
	MRL 240-82653/3	105	102 Q	96	88	86	87
	MRL 240-82653/28	107 Q	106 Q	97	90	94	88
	MRL 240-83588/3	105	107 Q	100	101	105	99
	MRL 240-83588/12	100	103 Q	97	99	95	98

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	50-150
PHL = Phenol-d5 (Surr)	50-150
NBZ = Nitrobenzene-d5 (Surr)	50-150
FBP = 2-Fluorobiphenyl (Surr)	50-150
TBP = 2,4,6-Tribromophenol (Surr)	50-150
TPH = Terphenyl-d14 (Surr)	50-150

Column to be used to flag recovery values

FORM II 8270C/DoD

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 30419005.D

Lab ID: LCS 240-81947/24-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	667	513	77	45-110	
Acenaphthylene	667	557	84	45-105	
Anthracene	667	642	96	55-105	
Benzo[a]anthracene	667	578	87	50-110	
Benzo[a]pyrene	667	580	87	50-110	
Benzo[b]fluoranthene	667	561	84	45-115	
Benzo[g,h,i]perylene	667	650	97	40-125	
Benzoic acid	667	330 U	42	0-110	
Benzo[k]fluoranthene	667	644	97	45-125	
Benzyl alcohol	667	480	72	20-125	
Bis(2-chloroethoxy)methane	667	566	85	45-110	
Bis(2-chloroethyl)ether	667	536	80	40-105	
bis (2-chloroisopropyl) ether	667	456	68	20-115	
Bis(2-ethylhexyl) phthalate	667	751	113	45-125	
4-Bromophenyl phenyl ether	667	625	94	45-115	
Butyl benzyl phthalate	667	715	107	50-125	
Carbazole	667	617	93	45-115	
4-Chloroaniline	667	406	61	10-110	
4-Chloro-3-methylphenol	667	569	85	45-115	
2-Chloronaphthalene	667	561	84	45-105	
2-Chlorophenol	667	556	83	45-105	
4-Chlorophenyl phenyl ether	667	517	78	45-110	
Chrysene	667	634	95	55-110	
Dibenz(a,h)anthracene	667	601	90	40-125	
Dibenzofuran	667	564	85	50-105	
1,2-Dichlorobenzene	667	513	77	45-110	
1,3-Dichlorobenzene	667	515	77	40-100	
1,4-Dichlorobenzene	667	534	80	35-105	
3,3'-Dichlorobenzidine	667	270	40	10-130	
2,4-Dichlorophenol	667	565	85	45-110	
Diethyl phthalate	667	579	87	50-115	
2,4-Dimethylphenol	667	438	66	30-105	
Dimethyl phthalate	667	611	92	50-110	
Di-n-butyl phthalate	667	711	107	55-110	
4,6-Dinitro-2-methylphenol	667	563	84	30-135	
2,4-Dinitrophenol	667	508	76	15-130	
2,4-Dinitrotoluene	667	568	85	50-115	
2,6-Dinitrotoluene	667	621	93	50-110	
Di-n-octyl phthalate	667	668	100	40-130	
Fluoranthene	667	622	93	55-115	
Fluorene	667	580	87	50-110	
Hexachlorobenzene	667	618	93	45-120	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 30419005.D

Lab ID: LCS 240-81947/24-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Hexachlorobutadiene	667	462	69	40-115	
Hexachloroethane	667	494	74	35-110	
Indeno[1,2,3-cd]pyrene	667	602	90	40-120	
Isophorone	667	539	81	45-110	
2-Methylnaphthalene	667	523	79	45-105	
2-Methylphenol	667	526	79	40-105	
3 & 4 Methylphenol	1330	1110	84	40-105	
Naphthalene	667	528	79	40-105	
2-Nitroaniline	667	589	88	45-120	
3-Nitroaniline	667	498	75	25-110	
4-Nitroaniline	667	615	92	35-115	
Nitrobenzene	667	527	79	40-115	
2-Nitrophenol	667	559	84	40-110	
4-Nitrophenol	667	582	87	15-140	
N-Nitrosodi-n-propylamine	667	511	77	40-115	
N-Nitrosodiphenylamine	667	654	98	50-115	
Pentachlorophenol	667	505	76	25-120	
Phenanthrene	667	639	96	50-110	
Phenol	667	557	84	40-100	
Pyrene	667	621	93	45-125	
1,2,4-Trichlorobenzene	667	511	77	45-110	
2,4,5-Trichlorophenol	667	588	88	50-110	
2,4,6-Trichlorophenol	667	565	85	45-110	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 30425105.D

Lab ID: LCS 240-83163/16-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	667	499	75	45-110	
Acenaphthylene	667	519	78	45-105	
Anthracene	667	547	82	55-105	
Benzo[a]anthracene	667	549	82	50-110	
Benzo[a]pyrene	667	502	75	50-110	
Benzo[b]fluoranthene	667	536	80	45-115	
Benzo[g,h,i]perylene	667	598	90	40-125	
Benzoic acid	667	330 U	27	0-110	M
Benzo[k]fluoranthene	667	531	80	45-125	
Benzyl alcohol	667	512	77	20-125	
Bis(2-chloroethoxy)methane	667	509	76	45-110	
Bis(2-chloroethyl)ether	667	502	75	40-105	
bis (2-chloroisopropyl) ether	667	508	76	20-115	
Bis(2-ethylhexyl) phthalate	667	632	95	45-125	
4-Bromophenyl phenyl ether	667	514	77	45-115	
Butyl benzyl phthalate	667	614	92	50-125	
Carbazole	667	527	79	45-115	
4-Chloroaniline	667	394	59	10-110	
4-Chloro-3-methylphenol	667	511	77	45-115	
2-Chloronaphthalene	667	511	77	45-105	
2-Chlorophenol	667	522	78	45-105	
4-Chlorophenyl phenyl ether	667	519	78	45-110	
Chrysene	667	571	86	55-110	
Dibenz(a,h)anthracene	667	597	90	40-125	
Dibenzofuran	667	497	75	50-105	
1,2-Dichlorobenzene	667	488	73	45-110	
1,3-Dichlorobenzene	667	485	73	40-100	
1,4-Dichlorobenzene	667	490	74	35-105	
3,3'-Dichlorobenzidine	667	347	52	10-130	
2,4-Dichlorophenol	667	513	77	45-110	
Diethyl phthalate	667	603	90	50-115	
2,4-Dimethylphenol	667	442	66	30-105	
Dimethyl phthalate	667	561	84	50-110	
Di-n-butyl phthalate	667	548	82	55-110	
4,6-Dinitro-2-methylphenol	667	449	67	30-135	
2,4-Dinitrophenol	667	405	61	15-130	
2,4-Dinitrotoluene	667	631	95	50-115	
2,6-Dinitrotoluene	667	584	88	50-110	
Di-n-octyl phthalate	667	512	77	40-130	
Fluoranthene	667	541	81	55-115	
Fluorene	667	523	79	50-110	
Hexachlorobenzene	667	480	72	45-120	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 30425105.D

Lab ID: LCS 240-83163/16-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Hexachlorobutadiene	667	435	65	40-115	
Hexachloroethane	667	470	71	35-110	
Indeno[1,2,3-cd]pyrene	667	575	86	40-120	
Isophorone	667	497	75	45-110	
2-Methylnaphthalene	667	455	68	45-105	
2-Methylphenol	667	516	77	40-105	
3 & 4 Methylphenol	1330	1090	82	40-105	
Naphthalene	667	475	71	40-105	
2-Nitroaniline	667	601	90	45-120	
3-Nitroaniline	667	555	83	25-110	
4-Nitroaniline	667	535	80	35-115	
Nitrobenzene	667	502	75	40-115	
2-Nitrophenol	667	515	77	40-110	
4-Nitrophenol	667	644	97	15-140	
N-Nitrosodi-n-propylamine	667	495	74	40-115	
N-Nitrosodiphenylamine	667	499	75	50-115	
Pentachlorophenol	667	390	59	25-120	
Phenanthrene	667	525	79	50-110	
Phenol	667	528	79	40-100	
Pyrene	667	597	90	45-125	
1,2,4-Trichlorobenzene	667	468	70	45-110	
2,4,5-Trichlorophenol	667	556	83	50-110	
2,4,6-Trichlorophenol	667	526	79	45-110	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III
GC/MS SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 30419003.D

Lab ID: MRL 240-82653/3 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Acenaphthene	5.00	4.40	88	70-130	
Acenaphthylene	5.00	4.71	94	70-130	
Anthracene	5.00	5.26	105	70-130	
Benzo[a]anthracene	5.00	4.74	95	70-130	
Benzo[a]pyrene	5.00	5.14	103	70-130	
Benzo[b]fluoranthene	5.00	4.71	94	70-130	
Benzo[g,h,i]perylene	5.00	5.10	102	70-130	
Benzoic acid	10.0	7.64	76	70-130	M
Benzo[k]fluoranthene	5.00	5.51	110	70-130	
Benzyl alcohol	5.00	4.19	84	70-130	
Bis(2-chloroethoxy)methane	5.00	5.11	102	70-130	
Bis(2-chloroethyl)ether	5.00	5.20	104	70-130	
bis (2-chloroisopropyl) ether	5.00	4.40	88	70-130	
Bis(2-ethylhexyl) phthalate	5.00	5.52	110	70-130	
4-Bromophenyl phenyl ether	5.00	4.92	98	70-130	
Butyl benzyl phthalate	5.00	5.42	108	70-130	
Carbazole	5.00	5.22	104	70-130	
4-Chloroaniline	5.00	5.01	100	70-130	
4-Chloro-3-methylphenol	5.00	4.52	90	70-130	
2-Chloronaphthalene	5.00	5.03	101	70-130	
2-Chlorophenol	5.00	5.03	101	70-130	
4-Chlorophenyl phenyl ether	5.00	4.24	85	70-130	
Chrysene	5.00	4.60	92	70-130	
Dibenz(a,h)anthracene	5.00	4.78	96	70-130	
Dibenzofuran	5.00	4.56	91	70-130	
1,2-Dichlorobenzene	5.00	5.14	103	70-130	
1,3-Dichlorobenzene	5.00	5.22	104	70-130	
1,4-Dichlorobenzene	5.00	5.32	106	70-130	
3,3'-Dichlorobenzidine	10.0	10.1	101	70-130	
2,4-Dichlorophenol	5.00	5.09	102	70-130	
Diethyl phthalate	5.00	4.58	92	70-130	
2,4-Dimethylphenol	5.00	4.64	93	70-130	
Dimethyl phthalate	5.00	4.85	97	70-130	
Di-n-butyl phthalate	5.00	5.39	108	70-130	
4,6-Dinitro-2-methylphenol	10.0	9.23	92	70-130	
2,4-Dinitrophenol	10.0	8.43	84	70-130	
2,4-Dinitrotoluene	5.00	4.55	91	70-130	
2,6-Dinitrotoluene	5.00	5.04	101	70-130	
Di-n-octyl phthalate	5.00	5.05	101	70-130	
Fluoranthene	5.00	4.80	96	70-130	
Fluorene	5.00	4.73	95	70-130	
Hexachlorobenzene	5.00	4.97	99	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III
GC/MS SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 30419003.D

Lab ID: MRL 240-82653/3 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Hexachlorobutadiene	5.00	4.59	92	70-130	
Hexachloroethane	5.00	4.90	98	70-130	
Indeno[1,2,3-cd]pyrene	5.00	5.15	103	70-130	
Isophorone	5.00	4.97	99	70-130	
2-Methylnaphthalene	5.00	4.77	95	70-130	
2-Methylphenol	5.00	4.75	95	70-130	
3 & 4 Methylphenol	5.00	4.89	98	70-130	
Naphthalene	5.00	4.92	98	70-130	
2-Nitroaniline	5.00	4.74	95	70-130	
3-Nitroaniline	5.00	4.75	95	70-130	
4-Nitroaniline	5.00	5.30	106	70-130	
Nitrobenzene	5.00	5.07	101	70-130	
2-Nitrophenol	5.00	5.03	101	70-130	
4-Nitrophenol	10.0	9.22	92	70-130	
N-Nitrosodi-n-propylamine	5.00	4.86	97	70-130	
N-Nitrosodiphenylamine	10.0	10.3	103	70-130	
Pentachlorophenol	10.0	8.50	85	70-130	
Phenanthrene	5.00	5.03	101	70-130	
Phenol	5.00	5.18	104	70-130	
Pyrene	5.00	4.95	99	70-130	
1,2,4-Trichlorobenzene	5.00	4.83	97	70-130	
2,4,5-Trichlorophenol	5.00	4.84	97	70-130	
2,4,6-Trichlorophenol	5.00	4.69	94	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III
GC/MS SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 30419028.D

Lab ID: MRL 240-82653/28 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Acenaphthene	5.00	4.42	88	70-130	
Acenaphthylene	5.00	4.85	97	70-130	
Anthracene	5.00	5.47	109	70-130	
Benzo[a]anthracene	5.00	4.66	93	70-130	
Benzo[a]pyrene	5.00	5.27	105	70-130	
Benzo[b]fluoranthene	5.00	5.18	104	70-130	
Benzo[g,h,i]perylene	5.00	4.40	88	70-130	
Benzoic acid	10.0	8.00	80	70-130	M
Benzo[k]fluoranthene	5.00	5.01	100	70-130	
Benzyl alcohol	5.00	5.22	104	70-130	
Bis(2-chloroethoxy)methane	5.00	5.14	103	70-130	
Bis(2-chloroethyl)ether	5.00	5.10	102	70-130	
bis (2-chloroisopropyl) ether	5.00	4.60	92	70-130	
Bis(2-ethylhexyl) phthalate	5.00	5.72	114	70-130	
4-Bromophenyl phenyl ether	5.00	4.95	99	70-130	
Butyl benzyl phthalate	5.00	5.67	113	70-130	
Carbazole	5.00	5.46	109	70-130	
4-Chloroaniline	5.00	5.14	103	70-130	
4-Chloro-3-methylphenol	5.00	4.92	98	70-130	
2-Chloronaphthalene	5.00	4.98	100	70-130	
2-Chlorophenol	5.00	5.25	105	70-130	
4-Chlorophenyl phenyl ether	5.00	4.39	88	70-130	
Chrysene	5.00	4.65	93	70-130	
Dibenz(a,h)anthracene	5.00	4.68	94	70-130	
Dibenzofuran	5.00	4.68	94	70-130	
1,2-Dichlorobenzene	5.00	5.17	103	70-130	
1,3-Dichlorobenzene	5.00	5.31	106	70-130	
1,4-Dichlorobenzene	5.00	5.36	107	70-130	
3,3'-Dichlorobenzidine	10.0	10.3	103	70-130	
2,4-Dichlorophenol	5.00	5.20	104	70-130	
Diethyl phthalate	5.00	4.74	95	70-130	
2,4-Dimethylphenol	5.00	4.75	95	70-130	
Dimethyl phthalate	5.00	4.89	98	70-130	
Di-n-butyl phthalate	5.00	5.53	111	70-130	
4,6-Dinitro-2-methylphenol	10.0	5.67	57	70-130	^
2,4-Dinitrophenol	10.0	4.03	40	70-130	^
2,4-Dinitrotoluene	5.00	4.60	92	70-130	
2,6-Dinitrotoluene	5.00	5.16	103	70-130	
Di-n-octyl phthalate	5.00	5.65	113	70-130	
Fluoranthene	5.00	5.01	100	70-130	
Fluorene	5.00	4.80	96	70-130	
Hexachlorobenzene	5.00	5.19	104	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III
GC/MS SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 30419028.D

Lab ID: MRL 240-82653/28 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Hexachlorobutadiene	5.00	4.56	91	70-130	
Hexachloroethane	5.00	4.11	82	70-130	
Indeno[1,2,3-cd]pyrene	5.00	4.70	94	70-130	
Isophorone	5.00	5.05	101	70-130	
2-Methylnaphthalene	5.00	4.90	98	70-130	
2-Methylphenol	5.00	5.20	104	70-130	
3 & 4 Methylphenol	5.00	5.17	103	70-130	
Naphthalene	5.00	4.90	98	70-130	
2-Nitroaniline	5.00	4.90	98	70-130	
3-Nitroaniline	5.00	4.87	97	70-130	
4-Nitroaniline	5.00	5.52	110	70-130	
Nitrobenzene	5.00	4.94	99	70-130	
2-Nitrophenol	5.00	4.91	98	70-130	
4-Nitrophenol	10.0	9.34	93	70-130	
N-Nitrosodi-n-propylamine	5.00	5.05	101	70-130	
N-Nitrosodiphenylamine	10.0	10.9	109	70-130	
Pentachlorophenol	10.0	8.80	88	70-130	
Phenanthrene	5.00	5.22	104	70-130	
Phenol	5.00	5.19	104	70-130	
Pyrene	5.00	4.82	96	70-130	
1,2,4-Trichlorobenzene	5.00	4.90	98	70-130	
2,4,5-Trichlorophenol	5.00	4.98	100	70-130	
2,4,6-Trichlorophenol	5.00	4.97	99	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III
GC/MS SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 30425103.D

Lab ID: MRL 240-83588/3 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Acenaphthene	5.00	5.03	101	70-130	
Acenaphthylene	5.00	5.15	103	70-130	
Anthracene	5.00	5.23	105	70-130	
Benzo[a]anthracene	5.00	5.11	102	70-130	
Benzo[a]pyrene	5.00	5.13	103	70-130	
Benzo[b]fluoranthene	5.00	5.40	108	70-130	
Benzo[g,h,i]perylene	5.00	5.71	114	70-130	
Benzoic acid	10.0	9.39	94	70-130	M
Benzo[k]fluoranthene	5.00	4.96	99	70-130	
Benzyl alcohol	5.00	5.49	110	70-130	
Bis(2-chloroethoxy)methane	5.00	5.29	106	70-130	
Bis(2-chloroethyl)ether	5.00	5.36	107	70-130	
bis (2-chloroisopropyl) ether	5.00	5.50	110	70-130	
Bis(2-ethylhexyl) phthalate	5.00	5.65	113	70-130	
4-Bromophenyl phenyl ether	5.00	4.78	96	70-130	
Butyl benzyl phthalate	5.00	5.55	111	70-130	
Carbazole	5.00	5.07	101	70-130	
4-Chloroaniline	5.00	5.21	104	70-130	
4-Chloro-3-methylphenol	5.00	5.00	100	70-130	
2-Chloronaphthalene	5.00	5.29	106	70-130	
2-Chlorophenol	5.00	5.35	107	70-130	
4-Chlorophenyl phenyl ether	5.00	4.89	98	70-130	
Chrysene	5.00	5.02	100	70-130	
Dibenz(a,h)anthracene	5.00	5.67	113	70-130	
Dibenzofuran	5.00	4.92	98	70-130	
1,2-Dichlorobenzene	5.00	5.32	106	70-130	
1,3-Dichlorobenzene	5.00	5.31	106	70-130	
1,4-Dichlorobenzene	5.00	5.19	104	70-130	
3,3'-Dichlorobenzidine	10.0	10.9	109	70-130	
2,4-Dichlorophenol	5.00	5.20	104	70-130	
Diethyl phthalate	5.00	5.27	105	70-130	
2,4-Dimethylphenol	5.00	5.15	103	70-130	
Dimethyl phthalate	5.00	5.17	103	70-130	
Di-n-butyl phthalate	5.00	5.13	103	70-130	
4,6-Dinitro-2-methylphenol	10.0	9.10	91	70-130	
2,4-Dinitrophenol	10.0	10.4	104	70-130	
2,4-Dinitrotoluene	5.00	5.35	107	70-130	
2,6-Dinitrotoluene	5.00	5.40	108	70-130	
Di-n-octyl phthalate	5.00	4.86	97	70-130	
Fluoranthene	5.00	4.95	99	70-130	
Fluorene	5.00	4.94	99	70-130	
Hexachlorobenzene	5.00	4.48	90	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III
GC/MS SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 30425103.D

Lab ID: MRL 240-83588/3 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Hexachlorobutadiene	5.00	4.90	98	70-130	
Hexachloroethane	5.00	5.25	105	70-130	
Indeno[1,2,3-cd]pyrene	5.00	5.54	111	70-130	
Isophorone	5.00	5.23	105	70-130	
2-Methylnaphthalene	5.00	4.83	97	70-130	
2-Methylphenol	5.00	5.44	109	70-130	
3 & 4 Methylphenol	5.00	5.51	110	70-130	
Naphthalene	5.00	4.96	99	70-130	
2-Nitroaniline	5.00	5.68	114	70-130	
3-Nitroaniline	5.00	6.00	120	70-130	
4-Nitroaniline	5.00	4.85	97	70-130	
Nitrobenzene	5.00	5.12	102	70-130	
2-Nitrophenol	5.00	5.26	105	70-130	
4-Nitrophenol	10.0	10.6	106	70-130	
N-Nitrosodi-n-propylamine	5.00	5.35	107	70-130	
N-Nitrosodiphenylamine	10.0	9.67	97	70-130	
Pentachlorophenol	10.0	8.70	87	70-130	
Phenanthrene	5.00	4.95	99	70-130	
Phenol	5.00	5.41	108	70-130	
Pyrene	5.00	5.55	111	70-130	
1,2,4-Trichlorobenzene	5.00	4.94	99	70-130	
2,4,5-Trichlorophenol	5.00	5.39	108	70-130	
2,4,6-Trichlorophenol	5.00	5.33	107	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III
GC/MS SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 30425112.D

Lab ID: MRL 240-83588/12 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Acenaphthene	5.00	4.89	98	70-130	
Acenaphthylene	5.00	5.07	101	70-130	
Anthracene	5.00	5.09	102	70-130	
Benzo[a]anthracene	5.00	4.98	100	70-130	
Benzo[a]pyrene	5.00	4.95	99	70-130	
Benzo[b]fluoranthene	5.00	5.01	100	70-130	
Benzo[g,h,i]perylene	5.00	5.51	110	70-130	
Benzoic acid	10.0	7.82	78	70-130	
Benzo[k]fluoranthene	5.00	5.02	100	70-130	
Benzyl alcohol	5.00	5.14	103	70-130	
Bis(2-chloroethoxy)methane	5.00	5.14	103	70-130	
Bis(2-chloroethyl)ether	5.00	5.03	101	70-130	
bis (2-chloroisopropyl) ether	5.00	5.21	104	70-130	
Bis(2-ethylhexyl) phthalate	5.00	5.41	108	70-130	
4-Bromophenyl phenyl ether	5.00	4.63	93	70-130	
Butyl benzyl phthalate	5.00	5.33	107	70-130	
Carbazole	5.00	4.91	98	70-130	
4-Chloroaniline	5.00	5.00	100	70-130	
4-Chloro-3-methylphenol	5.00	4.71	94	70-130	
2-Chloronaphthalene	5.00	5.12	102	70-130	
2-Chlorophenol	5.00	5.21	104	70-130	
4-Chlorophenyl phenyl ether	5.00	4.84	97	70-130	
Chrysene	5.00	4.98	100	70-130	
Dibenz(a,h)anthracene	5.00	5.38	108	70-130	
Dibenzofuran	5.00	4.78	96	70-130	
1,2-Dichlorobenzene	5.00	5.03	101	70-130	
1,3-Dichlorobenzene	5.00	5.09	102	70-130	
1,4-Dichlorobenzene	5.00	5.08	102	70-130	
3,3'-Dichlorobenzidine	10.0	10.6	106	70-130	
2,4-Dichlorophenol	5.00	4.84	97	70-130	
Diethyl phthalate	5.00	5.14	103	70-130	
2,4-Dimethylphenol	5.00	4.84	97	70-130	
Dimethyl phthalate	5.00	5.17	103	70-130	
Di-n-butyl phthalate	5.00	4.92	98	70-130	
4,6-Dinitro-2-methylphenol	10.0	8.53	85	70-130	
2,4-Dinitrophenol	10.0	8.31	83	70-130	
2,4-Dinitrotoluene	5.00	5.52	110	70-130	
2,6-Dinitrotoluene	5.00	5.34	107	70-130	
Di-n-octyl phthalate	5.00	4.57	91	70-130	
Fluoranthene	5.00	4.80	96	70-130	
Fluorene	5.00	4.82	96	70-130	
Hexachlorobenzene	5.00	4.48	90	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III
GC/MS SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 30425112.D

Lab ID: MRL 240-83588/12 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Hexachlorobutadiene	5.00	4.64	93	70-130	
Hexachloroethane	5.00	4.98	100	70-130	
Indeno[1,2,3-cd]pyrene	5.00	5.39	108	70-130	
Isophorone	5.00	5.02	100	70-130	
2-Methylnaphthalene	5.00	4.69	94	70-130	
2-Methylphenol	5.00	5.15	103	70-130	
3 & 4 Methylphenol	5.00	5.20	104	70-130	
Naphthalene	5.00	4.86	97	70-130	
2-Nitroaniline	5.00	5.42	108	70-130	
3-Nitroaniline	5.00	5.72	114	70-130	
4-Nitroaniline	5.00	5.04	101	70-130	
Nitrobenzene	5.00	4.95	99	70-130	
2-Nitrophenol	5.00	5.18	104	70-130	
4-Nitrophenol	10.0	10.4	104	70-130	
N-Nitrosodi-n-propylamine	5.00	4.99	100	70-130	
N-Nitrosodiphenylamine	10.0	9.60	96	70-130	
Pentachlorophenol	10.0	8.45	85	70-130	
Phenanthrene	5.00	4.89	98	70-130	
Phenol	5.00	5.18	104	70-130	
Pyrene	5.00	5.45	109	70-130	
1,2,4-Trichlorobenzene	5.00	4.89	98	70-130	
2,4,5-Trichlorophenol	5.00	5.05	101	70-130	
2,4,6-Trichlorophenol	5.00	5.38	108	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 30419007.D

Lab ID: 240-22756-1 MS Client ID: 074SB-0001-0001,0002-SO MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	767	3.9 U	578	75	45-110	
Acenaphthylene	767	3.9 U	628	82	45-105	
Anthracene	767	3.9 U	734	96	55-105	
Benzo[a]anthracene	767	3.9 U	642	84	50-110	
Benzo[a]pyrene	767	3.9 U	639	83	50-110	
Benzo[b]fluoranthene	767	3.9 U	628	82	45-115	
Benzo[g,h,i]perylene	767	3.9 U	703	92	40-125	
Benzoic acid	767	390 U	831	108	0-110	
Benzo[k]fluoranthene	767	3.9 U	702	92	45-125	
Benzyl alcohol	767	32 U	487	63	20-125	
Bis(2-chloroethoxy)methane	767	32 U	668	87	45-110	
Bis(2-chloroethyl)ether	767	3.9 U	641	84	40-105	
bis (2-chloroisopropyl) ether	767	32 U	533	70	20-115	
Bis(2-ethylhexyl) phthalate	767	33 J	836	105	45-125	
4-Bromophenyl phenyl ether	767	32 U	664	87	45-115	
Butyl benzyl phthalate	767	32 U	808	105	50-125	
Carbazole	767	32 U	665	87	45-115	
4-Chloroaniline	767	32 U	352	46	10-95	
4-Chloro-3-methylphenol	767	32 U	653	85	45-115	
2-Chloronaphthalene	767	3.9 U	639	83	45-105	
2-Chlorophenol	767	32 U	628	82	45-105	
4-Chlorophenyl phenyl ether	767	32 U	575	75	45-110	
Chrysene	767	3.9 U	715	93	55-110	
Dibenz(a,h)anthracene	767	3.9 U	661	86	40-125	
Dibenzofuran	767	3.9 U	625	81	50-105	
1,2-Dichlorobenzene	767	32 U	618	80	45-95	
1,3-Dichlorobenzene	767	32 U	603	79	40-100	
1,4-Dichlorobenzene	767	32 U	618	81	35-105	
3,3'-Dichlorobenzidine	767	94 U	146	19	10-130	
2,4-Dichlorophenol	767	32 U	680	89	45-110	
Diethyl phthalate	767	32 U	651	85	50-115	
2,4-Dimethylphenol	767	94 U	679	89	30-105	
Dimethyl phthalate	767	32 U	676	88	50-110	
Di-n-butyl phthalate	767	21 J	793	101	55-110	
4,6-Dinitro-2-methylphenol	767	94 U	574	75	30-135	
2,4-Dinitrophenol	767	94 U	554	72	15-130	
2,4-Dinitrotoluene	767	32 U	632	82	50-115	
2,6-Dinitrotoluene	767	32 U	699	91	50-110	
Di-n-octyl phthalate	767	32 U	748	97	40-130	
Fluoranthene	767	3.9 U	700	91	55-115	
Fluorene	767	3.9 U	654	85	50-110	
Hexachlorobenzene	767	3.9 U	689	90	45-120	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 30419007.D

Lab ID: 240-22756-1 MS Client ID: 074SB-0001-0001,0002-SO MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Hexachlorobutadiene	767	32 U	541	70	40-115	
Hexachloroethane	767	32 U	591	77	35-110	
Indeno[1,2,3-cd]pyrene	767	3.9 U	653	85	40-120	
Isophorone	767	32 U	612	80	45-110	
2-Methylnaphthalene	767	3.9 U	608	79	45-105	
2-Methylphenol	767	94 U	659	86	40-105	
3 & 4 Methylphenol	1530	94 U	1330	87	40-105	
Naphthalene	767	3.9 U	612	80	40-105	
2-Nitroaniline	767	32 U	682	89	45-120	
3-Nitroaniline	767	94 U	427	56	25-110	
4-Nitroaniline	767	32 U	470	61	35-115	
Nitrobenzene	767	3.9 U	622	81	40-115	
2-Nitrophenol	767	32 U	640	83	40-110	
4-Nitrophenol	767	94 U	667	87	15-140	
N-Nitrosodi-n-propylamine	767	32 U	604	79	40-115	
N-Nitrosodiphenylamine	767	32 U	735	96	50-115	
Pentachlorophenol	767	94 U	557	73	25-120	
Phenanthrene	767	3.9 U	731	95	50-110	
Phenol	767	32 U	668	87	40-100	
Pyrene	767	3.9 U	696	91	45-125	
1,2,4-Trichlorobenzene	767	32 U	586	76	45-110	
2,4,5-Trichlorophenol	767	32 U	684	89	50-110	
2,4,6-Trichlorophenol	767	94 U	665	87	45-110	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 30419008.D

Lab ID: 240-22756-1 MSD Client ID: 074SB-0001-0001,0002-SO MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	783	545	70	6	30	45-110	
Acenaphthylene	783	609	78	3	30	45-105	
Anthracene	783	706	90	4	30	55-105	
Benzo[a]anthracene	783	628	80	2	30	50-110	
Benzo[a]pyrene	783	600	77	6	30	50-110	
Benzo[b]fluoranthene	783	586	75	7	30	45-115	
Benzo[g,h,i]perylene	783	639	82	10	30	40-125	
Benzoic acid	783	801	102	4	30	0-110	
Benzo[k]fluoranthene	783	639	82	9	30	45-125	
Benzyl alcohol	783	409	52	17	30	20-125	
Bis(2-chloroethoxy)methane	783	574	73	15	30	45-110	
Bis(2-chloroethyl)ether	783	553	71	15	30	40-105	
bis (2-chloroisopropyl) ether	783	476	61	11	30	20-115	
Bis(2-ethylhexyl) phthalate	783	773	95	8	30	45-125	
4-Bromophenyl phenyl ether	783	660	84	1	30	45-115	
Butyl benzyl phthalate	783	769	98	5	30	50-125	
Carbazole	783	642	82	4	30	45-115	
4-Chloroaniline	783	389	50	10	30	10-95	
4-Chloro-3-methylphenol	783	619	79	5	30	45-115	
2-Chloronaphthalene	783	588	75	8	30	45-105	
2-Chlorophenol	783	572	73	9	30	45-105	
4-Chlorophenyl phenyl ether	783	564	72	2	30	45-110	
Chrysene	783	662	85	8	30	55-110	
Dibenz(a,h)anthracene	783	624	80	6	30	40-125	
Dibenzofuran	783	603	77	4	30	50-105	
1,2-Dichlorobenzene	783	515	66	18	30	45-95	
1,3-Dichlorobenzene	783	519	66	15	30	40-100	
1,4-Dichlorobenzene	783	526	67	16	30	35-105	
3,3'-Dichlorobenzidine	783	172	22	16	30	10-130	
2,4-Dichlorophenol	783	624	80	9	30	45-110	
Diethyl phthalate	783	631	81	3	30	50-115	
2,4-Dimethylphenol	783	603	77	12	30	30-105	
Dimethyl phthalate	783	651	83	4	30	50-110	
Di-n-butyl phthalate	783	746	93	6	30	55-110	
4,6-Dinitro-2-methylphenol	783	572	73	0	30	30-135	
2,4-Dinitrophenol	783	532	68	4	30	15-130	
2,4-Dinitrotoluene	783	596	76	6	30	50-115	
2,6-Dinitrotoluene	783	667	85	5	30	50-110	
Di-n-octyl phthalate	783	673	86	11	30	40-130	
Fluoranthene	783	661	84	6	30	55-115	
Fluorene	783	618	79	6	30	50-110	
Hexachlorobenzene	783	658	84	5	30	45-120	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 30419008.D

Lab ID: 240-22756-1 MSD Client ID: 074SB-0001-0001,0002-SO MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Hexachlorobutadiene	783	462	59	16	30	40-115	
Hexachloroethane	783	519	66	13	30	35-110	
Indeno[1,2,3-cd]pyrene	783	610	78	7	30	40-120	
Isophorone	783	550	70	11	30	45-110	
2-Methylnaphthalene	783	543	69	11	30	45-105	
2-Methylphenol	783	618	79	6	30	40-105	
3 & 4 Methylphenol	1570	1240	79	7	30	40-105	
Naphthalene	783	536	68	13	30	40-105	
2-Nitroaniline	783	640	82	6	30	45-120	
3-Nitroaniline	783	414	53	3	30	25-110	
4-Nitroaniline	783	501	64	6	30	35-115	
Nitrobenzene	783	556	71	11	30	40-115	
2-Nitrophenol	783	545	70	16	30	40-110	
4-Nitrophenol	783	619	79	7	30	15-140	
N-Nitrosodi-n-propylamine	783	540	69	11	30	40-115	
N-Nitrosodiphenylamine	783	699	89	5	30	50-115	
Pentachlorophenol	783	542	69	3	30	25-120	
Phenanthrene	783	692	88	5	30	50-110	
Phenol	783	593	76	12	30	40-100	
Pyrene	783	662	85	5	30	45-125	
1,2,4-Trichlorobenzene	783	512	65	13	30	45-110	
2,4,5-Trichlorophenol	783	671	86	2	30	50-110	
2,4,6-Trichlorophenol	783	648	83	3	30	45-110	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab File ID: 30419004.D Lab Sample ID: MB 240-81947/23-A

Matrix: Solid Date Extracted: 04/15/2013 11:33

Instrument ID: A4HP10 Date Analyzed: 04/19/2013 11:30

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-81947/24-A	30419005.D	04/19/2013 11:54
074SB-0001-0001,0002-SO	240-22756-1	30419006.D	04/19/2013 12:17
074SB-0001-0001,0002-SO MS	240-22756-1 MS	30419007.D	04/19/2013 12:41
074SB-0001-0001,0002-SO MSD	240-22756-1 MSD	30419008.D	04/19/2013 13:04
074SB-0019-0001-SO	240-22756-13	30419009.D	04/19/2013 13:28
074SB-0016-0001-SO	240-22756-10	30419010.D	04/19/2013 13:51
074SB-0020-0001-SO	240-22756-14	30419011.D	04/19/2013 14:14
074SB-0018-0001-SO	240-22756-12	30419012.D	04/19/2013 14:38
074SB-0021-0001-SO	240-22756-15	30419018.D	04/19/2013 16:58
074SB-0005-0001-SO	240-22756-4	30419019.D	04/19/2013 17:21
074SB-0017-0001-SO	240-22756-11	30419020.D	04/19/2013 17:45
074SB-0006-0001-SO	240-22756-5	30419022.D	04/19/2013 18:31
074SB-0002-0001-SO	240-22756-2	30419023.D	04/19/2013 18:55
074SB-0007-0001-SO	240-22756-6	30419024.D	04/19/2013 19:18
074SB-0009-0001-SO	240-22756-8	30419026.D	04/19/2013 20:05
074SB-0008-0001-SO	240-22756-7	30419027.D	04/19/2013 20:28

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab File ID: 30425104.D Lab Sample ID: MB 240-83163/15-A

Matrix: Solid Date Extracted: 04/23/2013 10:03

Instrument ID: A4HP9 Date Analyzed: 04/25/2013 16:33

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-83163/16-A	30425105.D	04/25/2013 17:00
074SB-0003-0001-SO RE	240-22756-3 RE	30425110.D	04/25/2013 19:14

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab File ID: 30411001.D DFTPP Injection Date: 04/11/2013

Instrument ID: A4HP10 DFTPP Injection Time: 17:39

Analysis Batch No.: 81609

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	46.5	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	44.0	
70	Less than 2.0% of mass 69	0.0	(0.0)1
127	25.0 - 75.0% of mass 198	48.3	
197	Less than 1.0% of mass 198	0.4	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.8	
275	10.0- 30.0% of mass 198	23.8	
365	Greater than 0.75% of mass 198	2.2	
441	Present, but less than mass 443	10.1	
442	40.0 - 110.0% of mass 198	49.1	
443	15.0 - 24.0% of mass 442	10.2	(20.8)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD5 240-81609/2	30411002.D	04/11/2013	18:04
	STD4 240-81609/3	30411003.D	04/11/2013	18:28
	STD3 240-81609/4	30411004.D	04/11/2013	18:53
	STD2 240-81609/5	30411005.D	04/11/2013	19:17
	STD1 240-81609/6	30411006.D	04/11/2013	19:41
	STD9 240-81609/7	30411007.D	04/11/2013	20:06
	STD8 240-81609/8	30411008.D	04/11/2013	20:30
	STD7 240-81609/9	30411009.D	04/11/2013	20:54
	STD6 240-81609/10	30411010.D	04/11/2013	21:19
	ICV 240-81609/11	30411011.D	04/11/2013	21:43

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab File ID: 30419001.D DFTPP Injection Date: 04/19/2013

Instrument ID: A4HP10 DFTPP Injection Time: 10:23

Analysis Batch No.: 82653

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	37.8	
68	Less than 2.0% of mass 69	0.1	(0.2)1
69	Mass 69 relative abundance	43.6	
70	Less than 2.0% of mass 69	0.1	(0.2)1
127	25.0 - 75.0% of mass 198	49.0	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	7.0	
275	10.0- 30.0% of mass 198	23.4	
365	Greater than 0.75% of mass 198	2.9	
441	Present, but less than mass 443	12.3	
442	40.0 - 110.0% of mass 198	79.7	
443	15.0 - 24.0% of mass 442	15.2	(19.1)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-82653/2	30419002.D	04/19/2013	10:43
	MRL 240-82653/3	30419003.D	04/19/2013	11:07
	MB 240-81947/23-A	30419004.D	04/19/2013	11:30
	LCS 240-81947/24-A	30419005.D	04/19/2013	11:54
074SB-0001-0001,0002-SO	240-22756-1	30419006.D	04/19/2013	12:17
074SB-0001-0001,0002-SO MS	240-22756-1 MS	30419007.D	04/19/2013	12:41
074SB-0001-0001,0002-SO MSD	240-22756-1 MSD	30419008.D	04/19/2013	13:04
074SB-0019-0001-SO	240-22756-13	30419009.D	04/19/2013	13:28
074SB-0016-0001-SO	240-22756-10	30419010.D	04/19/2013	13:51
074SB-0020-0001-SO	240-22756-14	30419011.D	04/19/2013	14:14
074SB-0018-0001-SO	240-22756-12	30419012.D	04/19/2013	14:38
074SB-0021-0001-SO	240-22756-15	30419018.D	04/19/2013	16:58
074SB-0005-0001-SO	240-22756-4	30419019.D	04/19/2013	17:21
074SB-0017-0001-SO	240-22756-11	30419020.D	04/19/2013	17:45
074SB-0006-0001-SO	240-22756-5	30419022.D	04/19/2013	18:31
074SB-0002-0001-SO	240-22756-2	30419023.D	04/19/2013	18:55
074SB-0007-0001-SO	240-22756-6	30419024.D	04/19/2013	19:18
074SB-0009-0001-SO	240-22756-8	30419026.D	04/19/2013	20:05
074SB-0008-0001-SO	240-22756-7	30419027.D	04/19/2013	20:28
	MRL 240-82653/28	30419028.D	04/19/2013	20:51
	mdll1	30419029.D	04/19/2013	21:14

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab File ID: 30419001.D DFTPP Injection Date: 04/19/2013

Instrument ID: A4HP10 DFTPP Injection Time: 10:23

Analysis Batch No.: 82653

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	37.8	
68	Less than 2.0% of mass 69	0.1	(0.2)1
69	Mass 69 relative abundance	43.6	
70	Less than 2.0% of mass 69	0.1	(0.2)1
127	25.0 - 75.0% of mass 198	49.0	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	7.0	
275	10.0- 30.0% of mass 198	23.4	
365	Greater than 0.75% of mass 198	2.9	
441	Present, but less than mass 443	12.3	
442	40.0 - 110.0% of mass 198	79.7	
443	15.0 - 24.0% of mass 442	15.2	(19.1)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	mdll2	30419030.D	04/19/2013	21:38
	mdll3	30419031.D	04/19/2013	22:01

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab File ID: 30419101.D DFTPP Injection Date: 04/19/2013

Instrument ID: A4HP9 DFTPP Injection Time: 10:21

Analysis Batch No.: 82668

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	45.7	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	64.0	
70	Less than 2.0% of mass 69	0.4	(0.6)1
127	25.0 - 75.0% of mass 198	50.5	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.7	
275	10.0- 30.0% of mass 198	22.4	
365	Greater than 0.75% of mass 198	3.3	
441	Present, but less than mass 443	11.1	
442	40.0 - 110.0% of mass 198	68.5	
443	15.0 - 24.0% of mass 442	13.2	(19.3)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD5 240-82668/2	30419102.D	04/19/2013	10:42
	STD4 240-82668/3	30419103.D	04/19/2013	11:08
	STD3 240-82668/4	30419104.D	04/19/2013	11:34
	STD2 240-82668/5	30419105.D	04/19/2013	12:01
	STD1 240-82668/6	30419106.D	04/19/2013	12:27
	STD9 240-82668/7	30419107.D	04/19/2013	12:53
	STD8 240-82668/8	30419108.D	04/19/2013	13:19
	STD7 240-82668/9	30419109.D	04/19/2013	13:45
	STD6 240-82668/10	30419110.D	04/19/2013	14:12
	ICV 240-82668/11	30419111.D	04/19/2013	14:38

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab File ID: 30425101.D DFTPP Injection Date: 04/25/2013

Instrument ID: A4HP9 DFTPP Injection Time: 15:15

Analysis Batch No.: 83588

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	41.7	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	57.8	
70	Less than 2.0% of mass 69	0.3	(0.6)1
127	25.0 - 75.0% of mass 198	48.1	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.5	
275	10.0- 30.0% of mass 198	23.0	
365	Greater than 0.75% of mass 198	3.3	
441	Present, but less than mass 443	13.3	
442	40.0 - 110.0% of mass 198	77.9	
443	15.0 - 24.0% of mass 442	15.2	(19.5)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-83588/2	30425102.D	04/25/2013	15:39
	MRL 240-83588/3	30425103.D	04/25/2013	16:06
	MB 240-83163/15-A	30425104.D	04/25/2013	16:33
	LCS 240-83163/16-A	30425105.D	04/25/2013	17:00
074SB-0003-0001-SO RE	240-22756-3 RE	30425110.D	04/25/2013	19:14
	MRL 240-83588/12	30425112.D	04/25/2013	20:07

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Sample No.: STD6 240-81609/10 Date Analyzed: 04/11/2013 21:19

Instrument ID: A4HP10 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 30411010.D Heated Purge: (Y/N) N

Calibration ID: 14465

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		186412	5.95	710480	7.06	434356	8.57
UPPER LIMIT		372824	6.45	1420960	7.56	868712	9.07
LOWER LIMIT		93206	5.45	355240	6.56	217178	8.07
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-81609/11		174408	5.95	682302	7.06	409364	8.57
CCV 240-82653/2		180332	5.85	716586	6.97	435260	8.48
MRL 240-82653/3		151978	5.85	587771	6.97	359735	8.48
MB 240-81947/23-A		125684	5.85	473779	6.97	278331	8.48
LCS 240-81947/24-A		122388	5.85	469260	6.97	276167	8.48
240-22756-1	074SB-0001-0001,0002-SO	117373	5.85	446668	6.97	259231	8.48
240-22756-1 MS	074SB-0001-0001,0002-SO MS	115865	5.85	448964	6.97	273602	8.48
240-22756-1 MSD	074SB-0001-0001,0002-SO MSD	113928	5.85	448595	6.97	269054	8.48
240-22756-13	074SB-0019-0001-SO	150933	5.85	603685	6.97	362467	8.48
240-22756-10	074SB-0016-0001-SO	133592	5.85	540388	6.97	327644	8.48
240-22756-14	074SB-0020-0001-SO	132876	5.85	529842	6.97	325338	8.48
240-22756-12	074SB-0018-0001-SO	133018	5.85	536914	6.97	335011	8.48
240-22756-15	074SB-0021-0001-SO	124656	5.85	484654	6.97	297884	8.48
240-22756-4	074SB-0005-0001-SO	121668	5.85	481060	6.97	291464	8.48
240-22756-11	074SB-0017-0001-SO	126819	5.85	497211	6.97	303437	8.48
240-22756-5	074SB-0006-0001-SO	125848	5.85	485171	6.97	294473	8.48
240-22756-2	074SB-0002-0001-SO	114786	5.85	450232	6.97	265110	8.48
240-22756-6	074SB-0007-0001-SO	122518	5.85	465872	6.97	276742	8.48
240-22756-8	074SB-0009-0001-SO	129353	5.85	488679	6.97	294305	8.48
240-22756-7	074SB-0008-0001-SO	124717	5.85	484007	6.97	295942	8.48
MRL 240-82653/28		206637	5.85	821770	6.97	499497	8.48
mdl11 LODV		185480	5.85	718922	6.97	428010	8.48
mdl12 LODV		183729	5.85	727347	6.97	446292	8.48
mdl13 LODV		190136	5.85	745783	6.97	454524	8.48

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C/DOD

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Sample No.: STD6 240-81609/10 Date Analyzed: 04/11/2013 21:19

Instrument ID: A4HP10 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 30411010.D Heated Purge: (Y/N) N

Calibration ID: 14465

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		809912	9.84	883495	12.45	695044	14.57
UPPER LIMIT		1619824	10.34	1766990	12.95	1390088	15.07
LOWER LIMIT		404956	9.34	441748	11.95	347522	14.07
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-81609/11		751682	9.84	793717	12.45	637005	14.57
CCV 240-82653/2		731402	9.74	820265	12.29	618789	14.37
MRL 240-82653/3		595179	9.74	638938	12.29	467018	14.37
MB 240-81947/23-A		458692	9.74	487011	12.29	390340	14.37
LCS 240-81947/24-A		460361	9.74	504329	12.29	380327	14.37
240-22756-1	074SB-0001-0001,0002-SO	430835	9.74	464526	12.29	363306	14.37
240-22756-1 MS	074SB-0001-0001,0002-SO MS	458326	9.74	500585	12.29	396461	14.37
240-22756-1 MSD	074SB-0001-0001,0002-SO MSD	454835	9.74	499246	12.29	401121	14.37
240-22756-13	074SB-0019-0001-SO	601590	9.74	630713	12.29	502302	14.37
240-22756-10	074SB-0016-0001-SO	539291	9.74	570450	12.29	480137	14.37
240-22756-14	074SB-0020-0001-SO	551485	9.74	585177	12.29	490806	14.37
240-22756-12	074SB-0018-0001-SO	561161	9.74	594203	12.29	470838	14.37
240-22756-15	074SB-0021-0001-SO	505645	9.74	546784	12.29	468440	14.37
240-22756-4	074SB-0005-0001-SO	479141	9.74	515953	12.29	445689	14.37
240-22756-11	074SB-0017-0001-SO	505239	9.74	557428	12.29	470670	14.37
240-22756-5	074SB-0006-0001-SO	486461	9.74	539865	12.29	450420	14.37
240-22756-2	074SB-0002-0001-SO	459179	9.74	489686	12.29	417594	14.37
240-22756-6	074SB-0007-0001-SO	475224	9.74	527381	12.29	442748	14.37
240-22756-8	074SB-0009-0001-SO	506768	9.74	555731	12.29	446870	14.37
240-22756-7	074SB-0008-0001-SO	504655	9.74	550982	12.29	464301	14.37
MRL 240-82653/28		831601	9.74	944701	12.29	711000	14.37
mdl11 LODV		713877	9.74	773747	12.29	613291	14.37
mdl12 LODV		734912	9.74	790493	12.29	600285	14.37
mdl13 LODV		753811	9.74	824393	12.29	625670	14.37

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C/DOD

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Sample No.: STD6 240-82668/10 Date Analyzed: 04/19/2013 14:12

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 30419110.D Heated Purge: (Y/N) N

Calibration ID: 14643

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		196394	6.75	818437	7.86	475386	9.37
UPPER LIMIT		392788	7.25	1636874	8.36	950772	9.87
LOWER LIMIT		98197	6.25	409219	7.36	237693	8.87
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-82668/11		184345	6.75	782369	7.86	449358	9.37
CCV 240-83588/2		180959	6.69	758024	7.80	373469	9.30
MRL 240-83588/3		220389	6.69	946949	7.80	490868	9.30
MB 240-83163/15-A		154735	6.68	668564	7.80	361106	9.30
LCS 240-83163/16-A		161988	6.68	691766	7.80	367211	9.30
240-22756-3 RE	074SB-0003-0001-SO RE	159472	6.69	667205	7.79	357730	9.29
MRL 240-83588/12		218759	6.68	915971	7.79	463306	9.29

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C/DOD

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Sample No.: STD6 240-82668/10 Date Analyzed: 04/19/2013 14:12

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 30419110.D Heated Purge: (Y/N) N

Calibration ID: 14643

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		664233	10.65	932069	13.03	741321	15.11
UPPER LIMIT		1328466	11.15	1864138	13.53	1482642	15.61
LOWER LIMIT		332117	10.15	466035	12.53	370661	14.61
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-82668/11		632105	10.65	876638	13.03	726232	15.11
CCV 240-83588/2		647023	10.57	787115	12.92	638307	14.92
MRL 240-83588/3		843877	10.57	1049362	12.92	853509	14.92
MB 240-83163/15-A		640735	10.56	760622	12.92	636947	14.92
LCS 240-83163/16-A		669314	10.57	831276	12.92	687772	14.92
240-22756-3 RE	074SB-0003-0001-SO RE	650363	10.56	784564	12.91	658470	14.91
MRL 240-83588/12		795330	10.56	976118	12.91	789292	14.92

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C/DOD

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0001-0001,0002-SO | Lab Sample ID: 240-22756-1

Matrix: Solid | Lab File ID: 30419006.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 08:42

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 29.66(g) | Date Analyzed: 04/19/2013 12:17

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	3.9	U	7.8	3.9	3.9
208-96-8	Acenaphthylene	3.9	U	7.8	3.9	3.9
120-12-7	Anthracene	3.9	U	7.8	3.9	3.9
56-55-3	Benzo[a]anthracene	3.9	U	7.8	3.9	3.9
50-32-8	Benzo[a]pyrene	3.9	U	7.8	3.9	3.9
205-99-2	Benzo[b]fluoranthene	3.9	U	7.8	3.9	3.9
191-24-2	Benzo[g,h,i]perylene	3.9	U	7.8	3.9	3.9
65-85-0	Benzoic acid	390	U	770	390	390
207-08-9	Benzo[k]fluoranthene	3.9	U	7.8	3.9	3.9
100-51-6	Benzyl alcohol	32	U	390	32	25
111-91-1	Bis(2-chloroethoxy)methane	32	U	120	32	26
111-44-4	Bis(2-chloroethyl)ether	3.9	U	120	3.9	2.3
108-60-1	bis (2-chloroisopropyl) ether	32	U	120	32	11
117-81-7	Bis(2-ethylhexyl) phthalate	33	J	82	32	22
101-55-3	4-Bromophenyl phenyl ether	32	U	58	32	15
85-68-7	Butyl benzyl phthalate	32	U	82	32	12
86-74-8	Carbazole	32	U	58	32	32
106-47-8	4-Chloroaniline	32	U	180	32	20
59-50-7	4-Chloro-3-methylphenol	32	U	180	32	25
91-58-7	2-Chloronaphthalene	3.9	U	58	3.9	3.9
95-57-8	2-Chlorophenol	32	U	58	32	32
7005-72-3	4-Chlorophenyl phenyl ether	32	U	58	32	15
218-01-9	Chrysene	3.9	U	7.8	3.9	1.3
53-70-3	Dibenz(a,h)anthracene	3.9	U	7.8	3.9	3.9
132-64-9	Dibenzofuran	3.9	U	58	3.9	3.9
95-50-1	1,2-Dichlorobenzene	32	U	58	32	11
541-73-1	1,3-Dichlorobenzene	32	U	58	32	13
106-46-7	1,4-Dichlorobenzene	32	U	58	32	23
91-94-1	3,3'-Dichlorobenzidine	94	U	120	94	21
120-83-2	2,4-Dichlorophenol	32	U	180	32	23
84-66-2	Diethyl phthalate	32	U	82	32	19
105-67-9	2,4-Dimethylphenol	94	U	180	94	23
131-11-3	Dimethyl phthalate	32	U	82	32	20
84-74-2	Di-n-butyl phthalate	21	J	82	32	18

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0001-0001,0002-SO | Lab Sample ID: 240-22756-1

Matrix: Solid | Lab File ID: 30419006.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 08:42

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 29.66(g) | Date Analyzed: 04/19/2013 12:17

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	94	U	180	94	94
51-28-5	2,4-Dinitrophenol	94	U	390	94	94
121-14-2	2,4-Dinitrotoluene	32	U	230	32	32
606-20-2	2,6-Dinitrotoluene	32	U	230	32	25
117-84-0	Di-n-octyl phthalate	32	U	82	32	32
206-44-0	Fluoranthene	3.9	U	7.8	3.9	3.9
86-73-7	Fluorene	3.9	U	7.8	3.9	3.9
118-74-1	Hexachlorobenzene	3.9	U	7.8	3.9	2.5
87-68-3	Hexachlorobutadiene	32	U	58	32	32
77-47-4	Hexachlorocyclopentadiene	32	U	390	32	32
67-72-1	Hexachloroethane	32	U	58	32	11
193-39-5	Indeno[1,2,3-cd]pyrene	3.9	U	7.8	3.9	3.9
78-59-1	Isophorone	32	U	58	32	15
91-57-6	2-Methylnaphthalene	3.9	U	7.8	3.9	3.9
95-48-7	2-Methylphenol	94	U	230	94	94
15831-10-4	3 & 4 Methylphenol	94	U	470	94	23
91-20-3	Naphthalene	3.9	U	7.8	3.9	3.9
88-74-4	2-Nitroaniline	32	U	230	32	11
99-09-2	3-Nitroaniline	94	U	230	94	19
100-01-6	4-Nitroaniline	32	U	230	32	30
98-95-3	Nitrobenzene	3.9	U	120	3.9	2.6
88-75-5	2-Nitrophenol	32	U	58	32	32
100-02-7	4-Nitrophenol	94	U	390	94	94
621-64-7	N-Nitrosodi-n-propylamine	32	U	58	32	32
86-30-6	N-Nitrosodiphenylamine	32	U	58	32	25
87-86-5	Pentachlorophenol	94	U	180	94	94
85-01-8	Phenanthrene	3.9	U	7.8	3.9	3.9
108-95-2	Phenol	32	U	58	32	32
129-00-0	Pyrene	3.9	U	7.8	3.9	3.9
120-82-1	1,2,4-Trichlorobenzene	32	U	58	32	32
95-95-4	2,4,5-Trichlorophenol	32	U	180	32	29
88-06-2	2,4,6-Trichlorophenol	94	U	180	94	94

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0001-0001,0002-SO | Lab Sample ID: 240-22756-1

Matrix: Solid | Lab File ID: 30419006.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 08:42

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 29.66(g) | Date Analyzed: 04/19/2013 12:17

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	71		45-105
367-12-4	2-Fluorophenol (Surr)	82		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	75		35-100
4165-62-2	Phenol-d5 (Surr)	78		40-100
1718-51-0	Terphenyl-d14 (Surr)	62		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	56		35-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419006.D
Lims ID: 240-22756-D-1-A
Client ID: 074SB-0001-0001,0002-SO
Inject. Date: 19-Apr-2013 12:17:30
Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0019044-006
Misc. Info.: 240-22756-D-1-A
Operator: 001710
Instrument ID: A4HP10
Injection Vol: 1.0 ul
ALS Bottle#: 6
Lims Batch ID: 82653
Lims Sample ID: 6
Detector: MS SCAN

Method: \\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m
Last Update: 22-Apr-2013 13:55:06
Calib Date: 12-Apr-2013 00:58:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: 5% phenyl
Column Dia: 0.18 mm
Process Host: XAWRK022

First Level Reviewer: gruberj
Date: 22-Apr-2013 09:38:01

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.848	5.848	0.0	97	117373	4.00	
* 2 Naphthalene-d8	136	6.971	6.970	0.0	99	446668	4.00	
* 3 Acenaphthene-d10	164	8.475	8.475	0.0	92	259231	4.00	
* 4 Phenanthrene-d10	188	9.738	9.738	0.0	96	430835	4.00	
* 5 Chrysene-d12	240	12.288	12.294	-0.006	85	464526	4.00	
* 6 Perylene-d12	264	14.368	14.368	0.0	85	363306	4.00	
$ 7 2-Fluorophenol	112	4.585	4.573	0.012	92	417233	12.3	
$ 8 Phenol-d5	99	5.490	5.490	0.0	99	529304	11.7	
$ 9 Nitrobenzene-d5	82	6.336	6.336	0.0	89	313484	7.51	
$ 10 2-Fluorobiphenyl (Surr)	172	7.887	7.887	0.0	100	591301	7.07	
$ 11 2,4,6-Tribromophenol	330	9.139	9.144	-0.005	87	80055	8.44	
$ 12 Terphenyl-d14	244	11.101	11.101	0.0	98	563996	6.17	
43 Phenol	94		5.502					9
45 Bis(2-chloroethyl)ether	93		5.601					9
47 2-Chlorophenol	128		5.648					9
48 1,3-Dichlorobenzene	146		5.795					9
49 1,4-Dichlorobenzene	146		5.866					9
50 Benzyl alcohol	108		5.960					9
51 1,2-Dichlorobenzene	146		6.001					9
52 2-Methylphenol	108		6.054					9
54 2,2'-oxybis[1-chloropropane]	45		6.083					
56 3 & 4 Methylphenol	108		6.183					9
57 N-Nitrosodi-n-propylamine	70		6.195					9
61 Hexachloroethane	117		6.307					
62 Nitrobenzene	77		6.354					
64 Isophorone	82		6.559					
66 2-Nitrophenol	139		6.636					
65 2,4-Dimethylphenol	107		6.653					9
70 Benzoic acid	122	6.671	6.712	-0.041	71	4363	0.7127	
69 Bis(2-chloroethoxy)methane	93		6.741					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
72 2,4-Dichlorophenol	162		6.835					
73 1,2,4-Trichlorobenzene	180		6.918					
74 Naphthalene	128		6.988					9
75 4-Chloroaniline	127		7.023					
78 Hexachlorobutadiene	225		7.088					
85 4-Chloro-3-methylphenol	107		7.423					
87 2-Methylnaphthalene	142		7.582					9
89 Hexachlorocyclopentadiene	237		7.711					
93 2,4,6-Trichlorophenol	196		7.811					
94 2,4,5-Trichlorophenol	196		7.846					
100 2-Chloronaphthalene	162		7.999					9
102 2-Nitroaniline	65		8.075					9
105 Dimethyl phthalate	163		8.216					9
107 2,6-Dinitrotoluene	165		8.275					
109 Acenaphthylene	152		8.357					9
110 3-Nitroaniline	138		8.422					9
112 Acenaphthene	153		8.504					9
111 2,4-Dinitrophenol	184		8.510					
113 4-Nitrophenol	109		8.539					
114 2,4-Dinitrotoluene	165		8.616					9
116 Dibenzofuran	168		8.645					9
121 Diethyl phthalate	149		8.815					
123 4-Chlorophenyl phenyl ether	204		8.927					9
126 Fluorene	166		8.939					9
125 4-Nitroaniline	138		8.939					
128 4,6-Dinitro-2-methylphenol	198		8.962					9
129 N-Nitrosodiphenylamine	169		9.027					9
139 4-Bromophenyl phenyl ether	248		9.344					
141 Hexachlorobenzene	284		9.403					
144 Pentachlorophenol	266		9.567					9
149 Phenanthrene	178		9.761					9
150 Anthracene	178		9.803					9
152 Carbazole	167		9.932					
155 Di-n-butyl phthalate	149	10.190	10.196	-0.006	83	30237	0.2700	
160 Fluoranthene	202		10.772					2
162 Pyrene	202		10.984					
170 Butyl benzyl phthalate	149		11.583					
177 3,3'-Dichlorobenzidine	252		12.229					9
175 Bis(2-ethylhexyl) phthalate	149	12.259	12.258	0.001	91	27249	0.4238	
179 Benzo[a]anthracene	228		12.282					9
180 Chrysene	228		12.329					9
182 Di-n-octyl phthalate	149		13.175					
184 Benzo[b]fluoranthene	252		13.786					9
185 Benzo[k]fluoranthene	252		13.827					9
186 Benzo[a]pyrene	252		14.286					9
190 Indeno[1,2,3-cd]pyrene	276		16.031					
191 Dibenz(a,h)anthracene	278		16.066					
192 Benzo[g,h,i]perylene	276		16.477					9

QC Flag Legend

Processing Flags
2 - Failed Coelution Test
9 - Failed A Reference Spectral Test

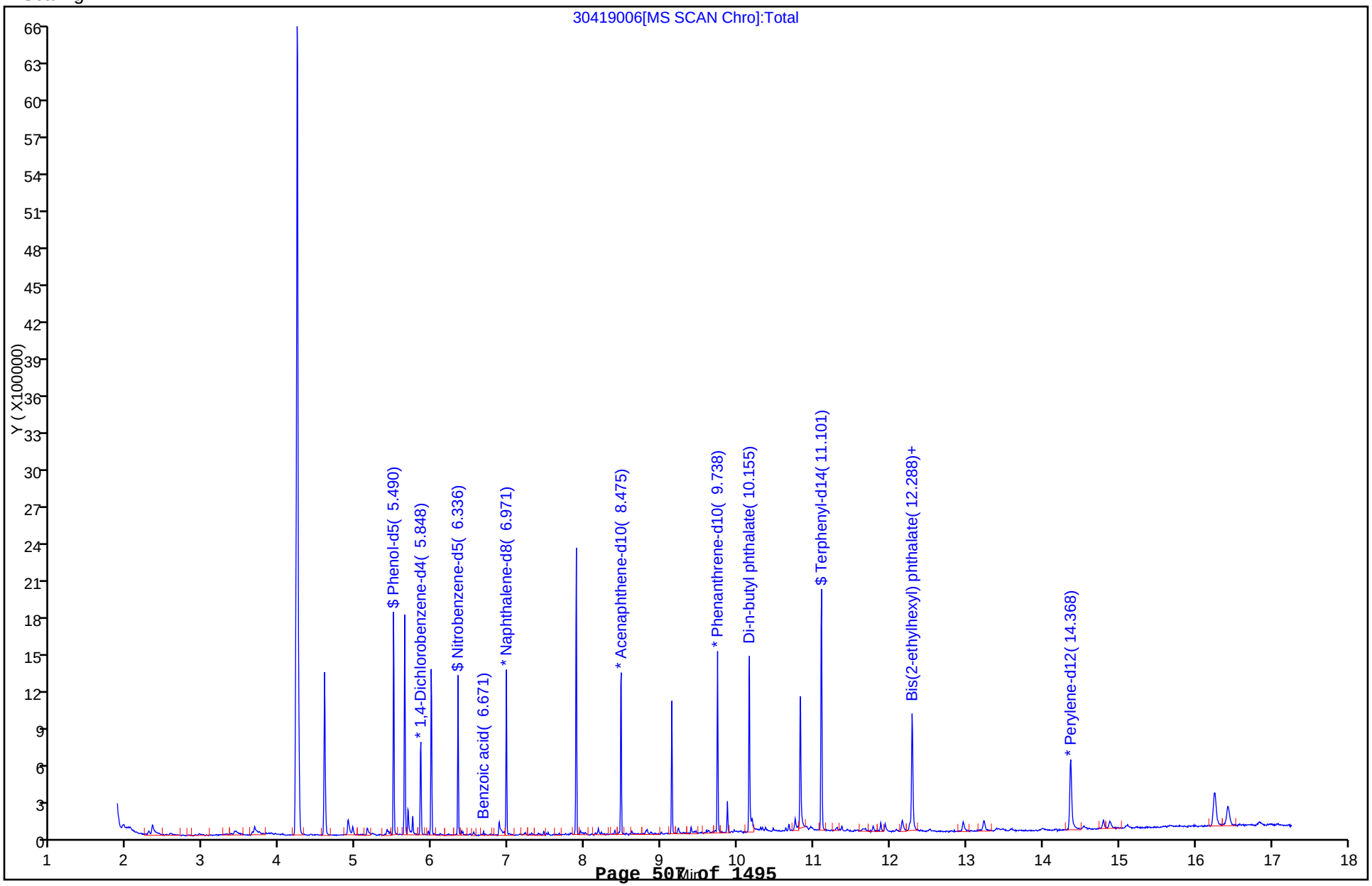
Report Date: 22-Apr-2013 13:55:11 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419006.D

Injection Date:	19-Apr-2013 12:17:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0001-0001,0002-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	6
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



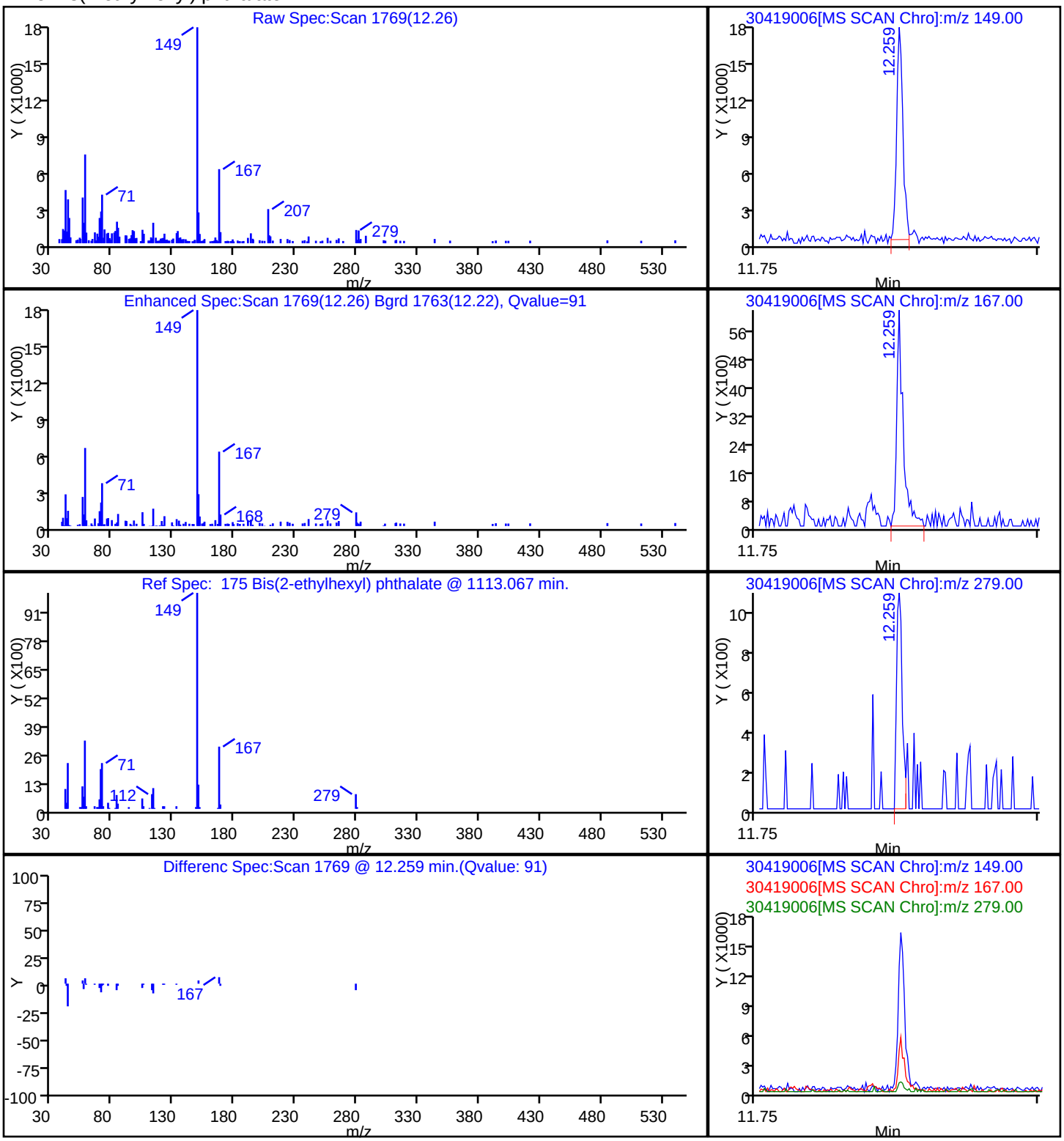
Report Date: 22-Apr-2013 13:55:11 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419006.D

Injection Date:	19-Apr-2013 12:17:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0001-0001,0002-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	6
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

175 Bis(2-ethylhexyl) phthalate



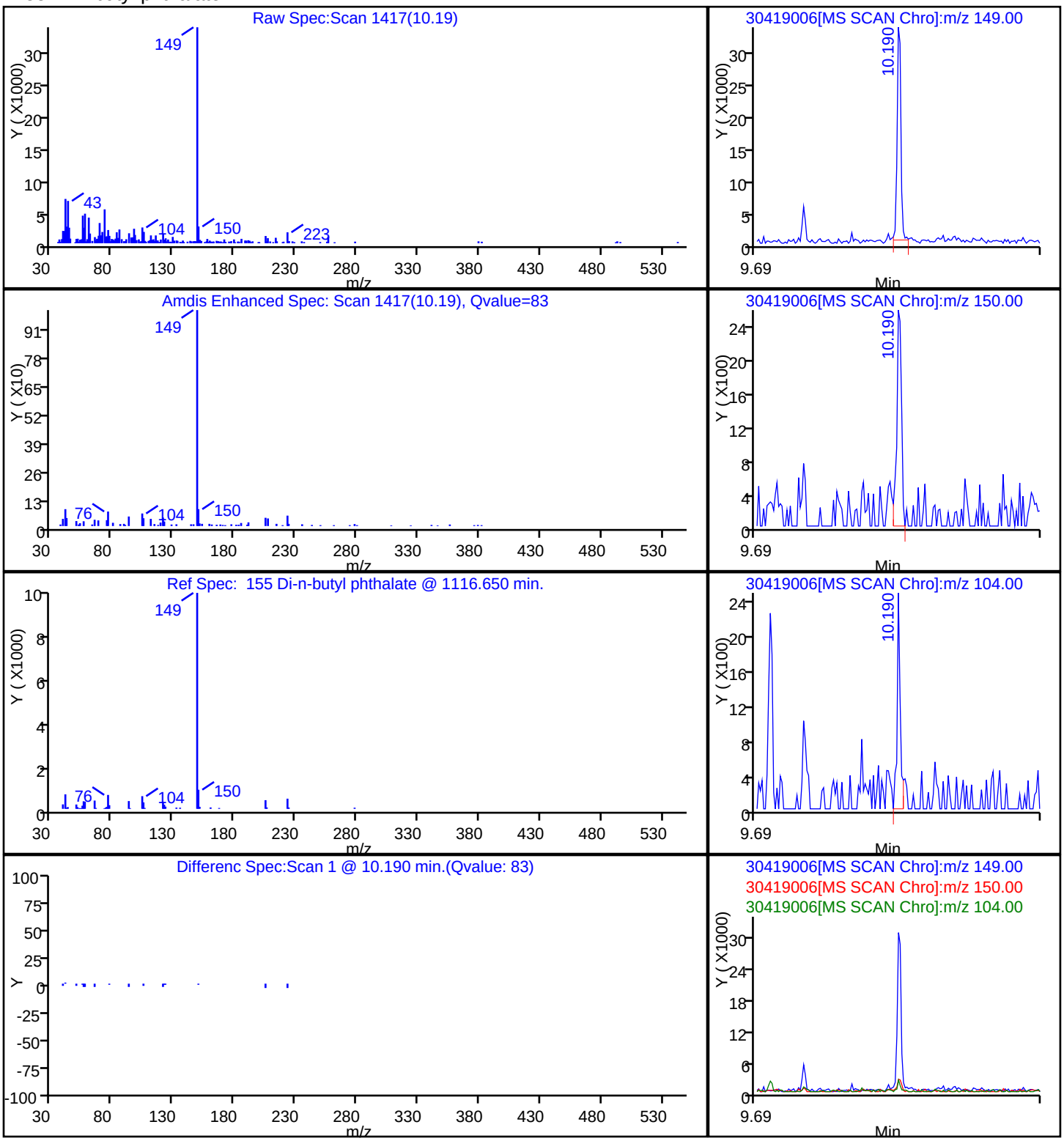
Report Date: 22-Apr-2013 13:55:11 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419006.D

Injection Date:	19-Apr-2013 12:17:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0001-0001,0002-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	6
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

155 Di-n-butyl phthalate



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0002-0001-SO | Lab Sample ID: 240-22756-2

Matrix: Solid | Lab File ID: 30419023.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 09:50

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 29.79(g) | Date Analyzed: 04/19/2013 18:55

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	3.9	U	7.8	3.9	3.9
208-96-8	Acenaphthylene	3.9	U	7.8	3.9	3.9
120-12-7	Anthracene	3.9	U	7.8	3.9	3.9
56-55-3	Benzo[a]anthracene	3.9	U	7.8	3.9	3.9
50-32-8	Benzo[a]pyrene	3.9	U	7.8	3.9	3.9
205-99-2	Benzo[b]fluoranthene	3.9	U	7.8	3.9	3.9
191-24-2	Benzo[g,h,i]perylene	3.9	U	7.8	3.9	3.9
65-85-0	Benzoic acid	390	U	770	390	390
207-08-9	Benzo[k]fluoranthene	3.9	U	7.8	3.9	3.9
100-51-6	Benzyl alcohol	32	U	390	32	25
111-91-1	Bis(2-chloroethoxy)methane	32	U	120	32	26
111-44-4	Bis(2-chloroethyl)ether	3.9	U	120	3.9	2.3
108-60-1	bis (2-chloroisopropyl) ether	32	U	120	32	11
117-81-7	Bis(2-ethylhexyl) phthalate	29	J	82	32	22
101-55-3	4-Bromophenyl phenyl ether	32	U	59	32	15
85-68-7	Butyl benzyl phthalate	32	U	82	32	12
86-74-8	Carbazole	32	U	59	32	32
106-47-8	4-Chloroaniline	32	U	180	32	20
59-50-7	4-Chloro-3-methylphenol	32	U	180	32	25
91-58-7	2-Chloronaphthalene	3.9	U	59	3.9	3.9
95-57-8	2-Chlorophenol	32	U	59	32	32
7005-72-3	4-Chlorophenyl phenyl ether	32	U	59	32	15
218-01-9	Chrysene	3.9	U	7.8	3.9	1.3
53-70-3	Dibenz(a,h)anthracene	3.9	U	7.8	3.9	3.9
132-64-9	Dibenzofuran	3.9	U	59	3.9	3.9
95-50-1	1,2-Dichlorobenzene	32	U	59	32	11
541-73-1	1,3-Dichlorobenzene	32	U	59	32	13
106-46-7	1,4-Dichlorobenzene	32	U	59	32	23
91-94-1	3,3'-Dichlorobenzidine	94	U	120	94	21
120-83-2	2,4-Dichlorophenol	32	U	180	32	23
84-66-2	Diethyl phthalate	32	U	82	32	19
105-67-9	2,4-Dimethylphenol	94	U	180	94	23
131-11-3	Dimethyl phthalate	32	U	82	32	20
84-74-2	Di-n-butyl phthalate	32	U	82	32	18

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0002-0001-SO | Lab Sample ID: 240-22756-2

Matrix: Solid | Lab File ID: 30419023.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 09:50

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 29.79(g) | Date Analyzed: 04/19/2013 18:55

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	94	U	180	94	94
51-28-5	2,4-Dinitrophenol	94	U	390	94	94
121-14-2	2,4-Dinitrotoluene	32	U	230	32	32
606-20-2	2,6-Dinitrotoluene	32	U	230	32	25
117-84-0	Di-n-octyl phthalate	32	U	82	32	32
206-44-0	Fluoranthene	3.9	U	7.8	3.9	3.9
86-73-7	Fluorene	3.9	U	7.8	3.9	3.9
118-74-1	Hexachlorobenzene	3.9	U	7.8	3.9	2.5
87-68-3	Hexachlorobutadiene	32	U	59	32	32
77-47-4	Hexachlorocyclopentadiene	32	U	390	32	32
67-72-1	Hexachloroethane	32	U	59	32	11
193-39-5	Indeno[1,2,3-cd]pyrene	3.9	U	7.8	3.9	3.9
78-59-1	Isophorone	32	U	59	32	15
91-57-6	2-Methylnaphthalene	3.9	U	7.8	3.9	3.9
95-48-7	2-Methylphenol	94	U	230	94	94
15831-10-4	3 & 4 Methylphenol	94	U	470	94	23
91-20-3	Naphthalene	3.9	U	7.8	3.9	3.9
88-74-4	2-Nitroaniline	32	U	230	32	11
99-09-2	3-Nitroaniline	94	U	230	94	19
100-01-6	4-Nitroaniline	32	U	230	32	30
98-95-3	Nitrobenzene	3.9	U	120	3.9	2.6
88-75-5	2-Nitrophenol	32	U	59	32	32
100-02-7	4-Nitrophenol	94	U	390	94	94
621-64-7	N-Nitrosodi-n-propylamine	32	U	59	32	32
86-30-6	N-Nitrosodiphenylamine	32	U	59	32	25
87-86-5	Pentachlorophenol	94	U	180	94	94
85-01-8	Phenanthrene	3.9	U	7.8	3.9	3.9
108-95-2	Phenol	32	U	59	32	32
129-00-0	Pyrene	3.9	U	7.8	3.9	3.9
120-82-1	1,2,4-Trichlorobenzene	32	U	59	32	32
95-95-4	2,4,5-Trichlorophenol	32	U	180	32	29
88-06-2	2,4,6-Trichlorophenol	94	U	180	94	94

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0002-0001-SO | Lab Sample ID: 240-22756-2

Matrix: Solid | Lab File ID: 30419023.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 09:50

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 29.79(g) | Date Analyzed: 04/19/2013 18:55

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	66		45-105
367-12-4	2-Fluorophenol (Surr)	78		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	69		35-100
4165-62-2	Phenol-d5 (Surr)	76		40-100
1718-51-0	Terphenyl-d14 (Surr)	67		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	47		35-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419023.D
Lims ID: 240-22756-B-2-A
Client ID: 074SB-0002-0001-SO
Inject. Date: 19-Apr-2013 18:55:30
Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0019044-023
Misc. Info.: 240-22756-B-2-A
Operator: 001710
Instrument ID: A4HP10
Injection Vol: 1.0 ul
ALS Bottle#: 23
Lims Batch ID: 82653
Lims Sample ID: 23
Detector: MS SCAN

Method: \\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m
Last Update: 22-Apr-2013 13:55:06
Calib Date: 12-Apr-2013 00:58:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: 5% phenyl
Column Dia: 0.18 mm
Process Host: XAWRK022

First Level Reviewer: gruberj
Date: 22-Apr-2013 11:35:48

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.849	5.848	0.0	98	114786	4.00	
* 2 Naphthalene-d8	136	6.971	6.970	0.001	100	450232	4.00	
* 3 Acenaphthene-d10	164	8.475	8.475	0.0	92	265110	4.00	
* 4 Phenanthrene-d10	188	9.738	9.738	0.0	97	459179	4.00	
* 5 Chrysene-d12	240	12.294	12.294	0.0	80	489686	4.00	
* 6 Perylene-d12	264	14.368	14.368	0.0	86	417594	4.00	
$ 7 2-Fluorophenol	112	4.585	4.573	0.012	92	387126	11.7	
$ 8 Phenol-d5	99	5.496	5.490	0.006	99	507227	11.5	
$ 9 Nitrobenzene-d5	82	6.336	6.336	0.0	89	290339	6.90	
$ 10 2-Fluorobiphenyl (Surr)	172	7.887	7.887	0.0	99	559882	6.55	
$ 11 2,4,6-Tribromophenol	330	9.145	9.144	0.001	89	68660	7.08	
$ 12 Terphenyl-d14	244	11.101	11.101	0.0	98	647001	6.72	
43 Phenol	94		5.502					
45 Bis(2-chloroethyl)ether	93		5.601					9
47 2-Chlorophenol	128		5.648					
48 1,3-Dichlorobenzene	146		5.795					
49 1,4-Dichlorobenzene	146		5.866					
50 Benzyl alcohol	108		5.960					9
51 1,2-Dichlorobenzene	146		6.001					
52 2-Methylphenol	108		6.054					9
54 2,2'-oxybis[1-chloropropane]	45		6.083					
56 3 & 4 Methylphenol	108		6.183					9
57 N-Nitrosodi-n-propylamine	70		6.195					9
61 Hexachloroethane	117		6.307					
62 Nitrobenzene	77		6.354					9
64 Isophorone	82		6.559					9
66 2-Nitrophenol	139		6.636					
65 2,4-Dimethylphenol	107		6.653					
70 Benzoic acid	122		6.712					9
69 Bis(2-chloroethoxy)methane	93		6.741					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
72 2,4-Dichlorophenol	162		6.835					
73 1,2,4-Trichlorobenzene	180		6.918					
74 Naphthalene	128		6.988					9
75 4-Chloroaniline	127		7.023					9
78 Hexachlorobutadiene	225		7.088					
85 4-Chloro-3-methylphenol	107		7.423					
87 2-Methylnaphthalene	142		7.582					
89 Hexachlorocyclopentadiene	237		7.711					
93 2,4,6-Trichlorophenol	196		7.811					
94 2,4,5-Trichlorophenol	196		7.846					
100 2-Chloronaphthalene	162		7.999					9
102 2-Nitroaniline	65		8.075					9
105 Dimethyl phthalate	163		8.216					
107 2,6-Dinitrotoluene	165		8.275					
109 Acenaphthylene	152		8.357					9
110 3-Nitroaniline	138		8.422					
112 Acenaphthene	153		8.504					
111 2,4-Dinitrophenol	184		8.510					
113 4-Nitrophenol	109		8.539					
114 2,4-Dinitrotoluene	165		8.616					9
116 Dibenzofuran	168		8.645					9
121 Diethyl phthalate	149		8.815					9
123 4-Chlorophenyl phenyl ether	204		8.927					
126 Fluorene	166		8.939					9
125 4-Nitroaniline	138		8.939					
128 4,6-Dinitro-2-methylphenol	198		8.962					9
129 N-Nitrosodiphenylamine	169		9.027					9
139 4-Bromophenyl phenyl ether	248		9.344					
141 Hexachlorobenzene	284		9.403					
144 Pentachlorophenol	266		9.567					
149 Phenanthrene	178		9.761					9
150 Anthracene	178		9.803					9
152 Carbazole	167		9.932					9
155 Di-n-butyl phthalate	149	10.196	10.196	0.0	60	26105	0.2188	
160 Fluoranthene	202		10.772					9
162 Pyrene	202		10.984					9
170 Butyl benzyl phthalate	149		11.583					
177 3,3'-Dichlorobenzidine	252		12.229					9
175 Bis(2-ethylhexyl) phthalate	149	12.259	12.258	0.001	84	24867	0.3668	
179 Benzo[a]anthracene	228		12.282					9
180 Chrysene	228		12.329					9
182 Di-n-octyl phthalate	149		13.175					
184 Benzo[b]fluoranthene	252		13.786					9
185 Benzo[k]fluoranthene	252		13.827					9
186 Benzo[a]pyrene	252		14.286					9
190 Indeno[1,2,3-cd]pyrene	276		16.031					9
191 Dibenz(a,h)anthracene	278		16.066					9
192 Benzo[g,h,i]perylene	276		16.477					9

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

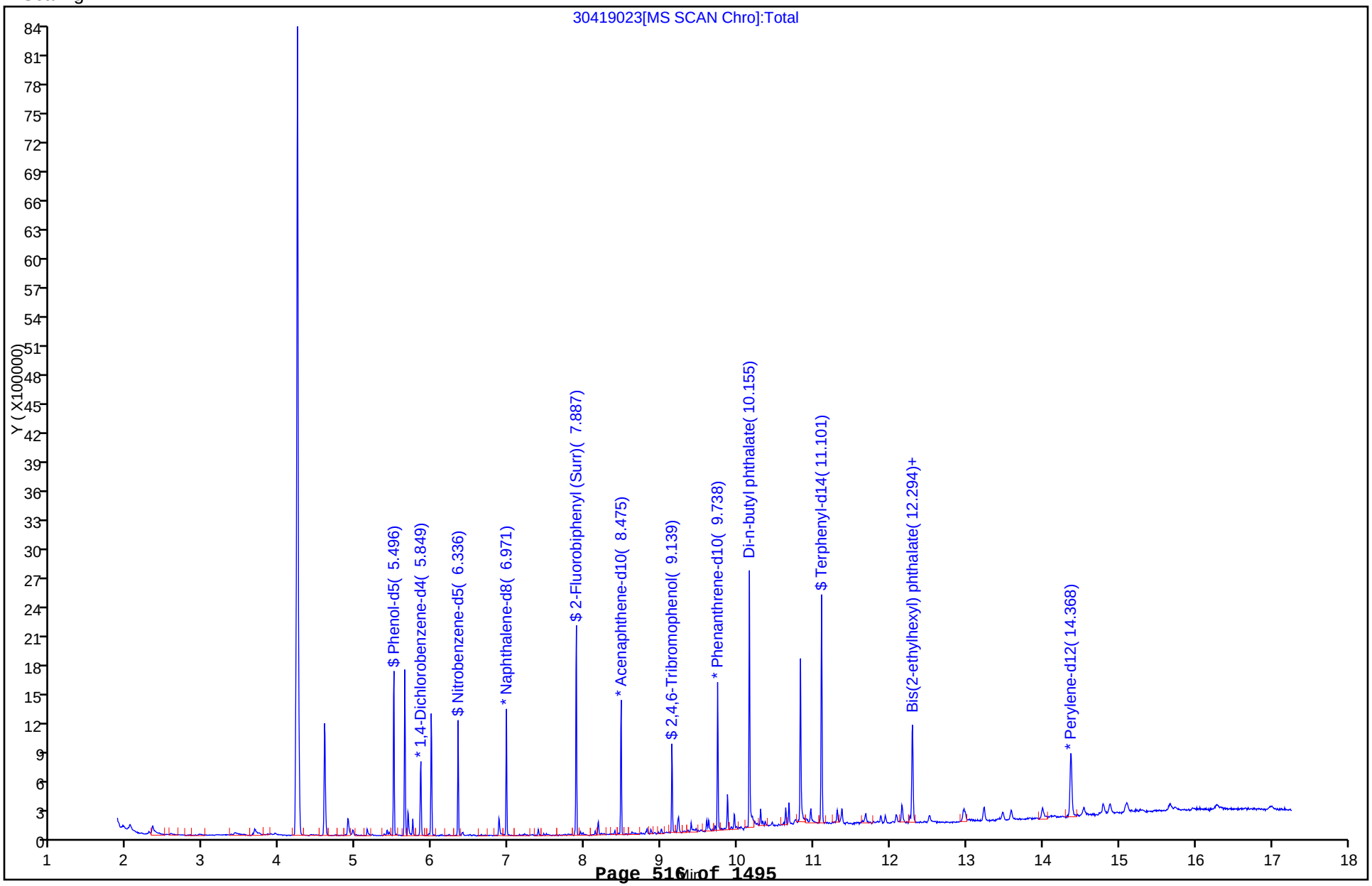
Report Date: 22-Apr-2013 13:55:33 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419023.D

Injection Date:	19-Apr-2013 18:55:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0002-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	23
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



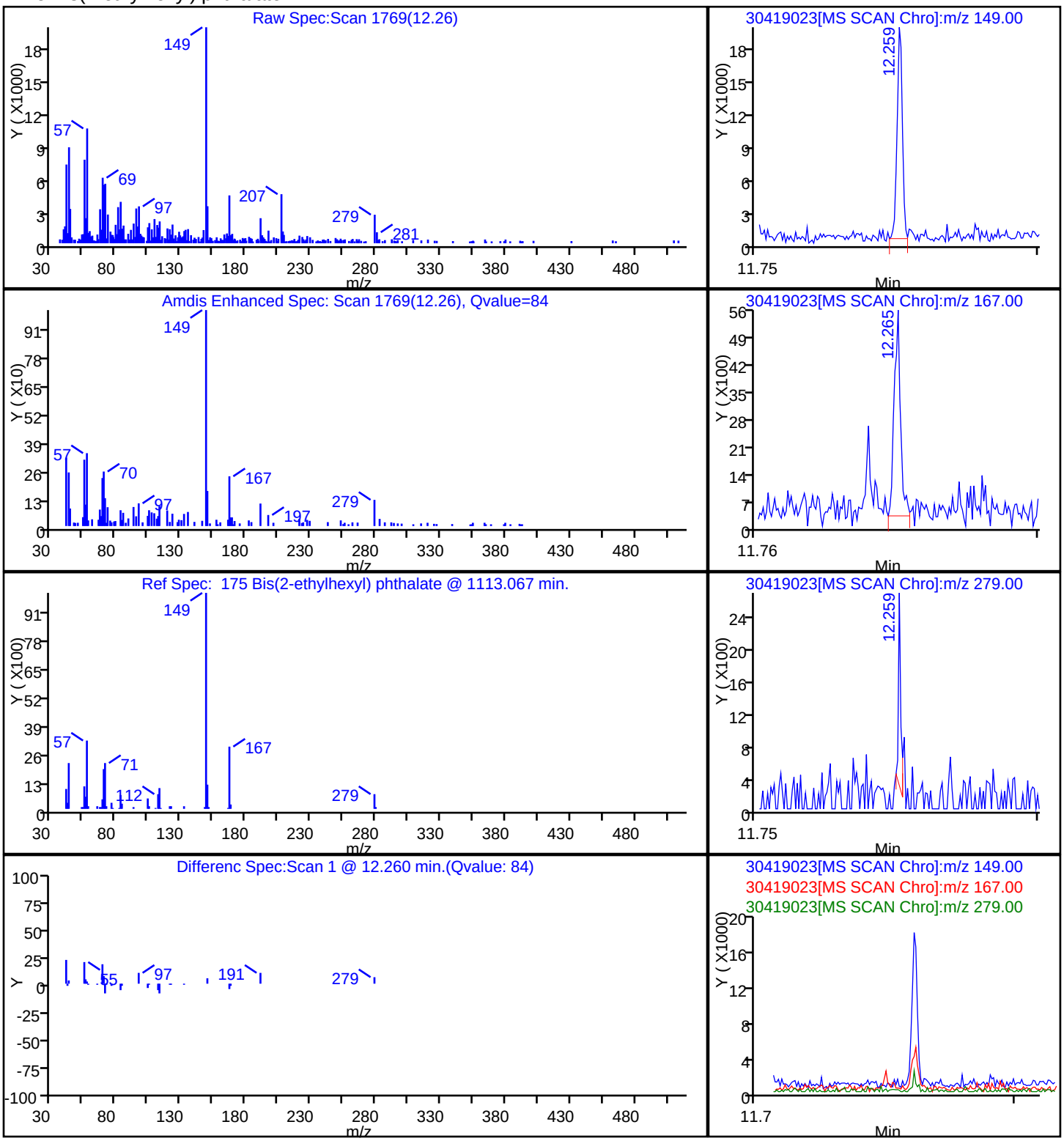
Report Date: 22-Apr-2013 13:55:33 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419023.D

Injection Date:	19-Apr-2013 18:55:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0002-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	23
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

175 Bis(2-ethylhexyl) phthalate



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0003-0001-SO RE | Lab Sample ID: 240-22756-3 RE

Matrix: Solid | Lab File ID: 30425110.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 09:50

Extract. Method: 3540C | Date Extracted: 04/23/2013 10:03

Sample wt/vol: 29.83(g) | Date Analyzed: 04/25/2013 19:14

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 83588 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	3.9	U H	7.9	3.9	3.9
208-96-8	Acenaphthylene	3.9	U H	7.9	3.9	3.9
120-12-7	Anthracene	3.9	U H	7.9	3.9	3.9
56-55-3	Benzo[a]anthracene	3.9	U H	7.9	3.9	3.9
50-32-8	Benzo[a]pyrene	3.9	U H	7.9	3.9	3.9
205-99-2	Benzo[b]fluoranthene	3.9	U H	7.9	3.9	3.9
191-24-2	Benzo[g,h,i]perylene	3.9	U H	7.9	3.9	3.9
65-85-0	Benzoic acid	390	U H	780	390	390
207-08-9	Benzo[k]fluoranthene	3.9	U H	7.9	3.9	3.9
100-51-6	Benzyl alcohol	32	U H	390	32	25
111-91-1	Bis(2-chloroethoxy)methane	32	U H	120	32	26
111-44-4	Bis(2-chloroethyl)ether	3.9	U H	120	3.9	2.4
108-60-1	bis (2-chloroisopropyl) ether	32	U H	120	32	11
117-81-7	Bis(2-ethylhexyl) phthalate	28	J H	82	32	22
101-55-3	4-Bromophenyl phenyl ether	32	U H	59	32	15
85-68-7	Butyl benzyl phthalate	32	U H	82	32	12
86-74-8	Carbazole	32	U H	59	32	32
106-47-8	4-Chloroaniline	32	U H	180	32	20
59-50-7	4-Chloro-3-methylphenol	32	U H	180	32	25
91-58-7	2-Chloronaphthalene	3.9	U H	59	3.9	3.9
95-57-8	2-Chlorophenol	32	U H	59	32	32
7005-72-3	4-Chlorophenyl phenyl ether	32	U H	59	32	15
218-01-9	Chrysene	3.9	U H	7.9	3.9	1.3
53-70-3	Dibenz(a,h)anthracene	3.9	U H	7.9	3.9	3.9
132-64-9	Dibenzofuran	3.9	U H	59	3.9	3.9
95-50-1	1,2-Dichlorobenzene	32	U H	59	32	11
541-73-1	1,3-Dichlorobenzene	32	U H	59	32	13
106-46-7	1,4-Dichlorobenzene	32	U H	59	32	24
91-94-1	3,3'-Dichlorobenzidine	94	U H	120	94	21
120-83-2	2,4-Dichlorophenol	32	U H	180	32	24
84-66-2	Diethyl phthalate	32	U H	82	32	19
105-67-9	2,4-Dimethylphenol	94	U H	180	94	24
131-11-3	Dimethyl phthalate	32	U H	82	32	20
84-74-2	Di-n-butyl phthalate	37	J H	82	32	18

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0003-0001-SO RE | Lab Sample ID: 240-22756-3 RE

Matrix: Solid | Lab File ID: 30425110.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 09:50

Extract. Method: 3540C | Date Extracted: 04/23/2013 10:03

Sample wt/vol: 29.83(g) | Date Analyzed: 04/25/2013 19:14

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 83588 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	94	U H	180	94	94
51-28-5	2,4-Dinitrophenol	94	U H	390	94	94
121-14-2	2,4-Dinitrotoluene	32	U H	240	32	32
606-20-2	2,6-Dinitrotoluene	32	U H	240	32	25
117-84-0	Di-n-octyl phthalate	32	U H	82	32	32
206-44-0	Fluoranthene	3.9	U H	7.9	3.9	3.9
86-73-7	Fluorene	3.9	U H	7.9	3.9	3.9
118-74-1	Hexachlorobenzene	3.9	U H	7.9	3.9	2.5
87-68-3	Hexachlorobutadiene	32	U H	59	32	32
77-47-4	Hexachlorocyclopentadiene	32	U H	390	32	32
67-72-1	Hexachloroethane	32	U H	59	32	11
193-39-5	Indeno[1,2,3-cd]pyrene	3.9	U H	7.9	3.9	3.9
78-59-1	Isophorone	32	U H	59	32	15
91-57-6	2-Methylnaphthalene	3.9	U H	7.9	3.9	3.9
95-48-7	2-Methylphenol	94	U H	240	94	94
15831-10-4	3 & 4 Methylphenol	94	U H	470	94	24
91-20-3	Naphthalene	3.9	U H	7.9	3.9	3.9
88-74-4	2-Nitroaniline	32	U H	240	32	11
99-09-2	3-Nitroaniline	94	U H	240	94	19
100-01-6	4-Nitroaniline	32	U H	240	32	31
98-95-3	Nitrobenzene	3.9	U H	120	3.9	2.6
88-75-5	2-Nitrophenol	32	U H	59	32	32
100-02-7	4-Nitrophenol	94	U H	390	94	94
621-64-7	N-Nitrosodi-n-propylamine	32	U H	59	32	32
86-30-6	N-Nitrosodiphenylamine	32	U H	59	32	25
87-86-5	Pentachlorophenol	94	U H	180	94	94
85-01-8	Phenanthrene	3.9	U H	7.9	3.9	3.9
108-95-2	Phenol	32	U H	59	32	32
129-00-0	Pyrene	3.9	U H	7.9	3.9	3.9
120-82-1	1,2,4-Trichlorobenzene	32	U H	59	32	32
95-95-4	2,4,5-Trichlorophenol	32	U H	180	32	29
88-06-2	2,4,6-Trichlorophenol	94	U H	180	94	94

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0003-0001-SO RE | Lab Sample ID: 240-22756-3 RE

Matrix: Solid | Lab File ID: 30425110.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 09:50

Extract. Method: 3540C | Date Extracted: 04/23/2013 10:03

Sample wt/vol: 29.83(g) | Date Analyzed: 04/25/2013 19:14

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 83588 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	61		45-105
367-12-4	2-Fluorophenol (Surr)	64		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	56		35-100
4165-62-2	Phenol-d5 (Surr)	68		40-100
1718-51-0	Terphenyl-d14 (Surr)	59		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	53		35-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425110.D
Lims ID: 240-22756-B-3-C Client ID: 074SB-0003-0001-SO
Inject. Date: 25-Apr-2013 19:14:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0019269-010
Misc. Info.: 240-22756-B-3-C =240-22756-B-3-C
Operator: 001574 Instrument ID: A4HP9
Injection Vol: 1.0 ul ALS Bottle#: 10
Lims Batch ID: 83588 Lims Sample ID: 10
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\8270 _9.m
Last Update: 26-Apr-2013 09:38:09 Calib Date: 19-Apr-2013 14:12:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419110.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: 5% phenyl Column Dia: 0.18 mm
Process Host: XAWRK003

First Level Reviewer: ulmanm Date: 26-Apr-2013 09:34:12

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.685	6.686	-0.001	96	159472	4.00	
* 2 Naphthalene-d8	136	7.791	7.797	-0.006	99	667205	4.00	
* 3 Acenaphthene-d10	164	9.291	9.297	-0.006	88	357730	4.00	
* 4 Phenanthrene-d10	188	10.561	10.567	-0.006	97	650363	4.00	
* 5 Chrysene-d12	240	12.912	12.918	-0.006	80	784564	4.00	
* 6 Perylene-d12	264	14.913	14.923	-0.010	97	658470	4.00	
$ 7 2-Fluorophenol	112	5.478	5.460	0.018	94	618789	9.55	
$ 8 Phenol-d5	99	6.314	6.311	0.003	93	883044	10.1	
$ 9 Nitrobenzene-d5	82	7.151	7.157	-0.006	85	547666	5.57	
$ 10 2-Fluorobiphenyl (Surr)	172	8.685	8.686	-0.001	99	647874	6.08	
$ 11 2,4,6-Tribromophenol	330	9.959	9.965	-0.006	84	92082	7.97	
$ 12 Terphenyl-d14	244	11.873	11.879	-0.006	98	822766	5.85	
43 Phenol	94		6.325					9
69 Bis(2-chloroethyl)ether	93		6.412					
46 2-Chlorophenol	128		6.503					9
47 1,3-Dichlorobenzene	146		6.643					
48 1,4-Dichlorobenzene	146		6.700					
49 Benzyl alcohol	108		6.777					
50 1,2-Dichlorobenzene	146		6.840					9
51 2-Methylphenol	108		6.859					9
53 2,2'-oxybis[1-chloropropane]	45		6.888					
21 3 & 4 Methylphenol	108		6.984					
57 N-Nitrosodi-n-propylamine	70		6.998					
61 Hexachloroethane	117		7.147					9
62 Nitrobenzene	77		7.172					
64 Isophorone	82		7.369					
65 2,4-Dimethylphenol	107		7.446					
66 2-Nitrophenol	139		7.450					
71 Benzoic acid	122	7.454	7.489	-0.035	86	8127	1.66	
70 Bis(2-chloroethoxy)methane	93		7.523					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
73 2,4-Dichlorophenol	162		7.652					9
74 1,2,4-Trichlorobenzene	180		7.734					
75 Naphthalene	128		7.811					
76 4-Chloroaniline	127		7.826					9
79 Hexachlorobutadiene	225		7.907					9
86 4-Chloro-3-methylphenol	107		8.210					
87 2-Methylnaphthalene	142		8.398					
89 Hexachlorocyclopentadiene	237		8.537					9
92 2,4,6-Trichlorophenol	196		8.624					9
93 2,4,5-Trichlorophenol	196		8.657					
100 2-Chloronaphthalene	162		8.816					
102 2-Nitroaniline	65		8.874					9
105 Dimethyl phthalate	163		8.994					
107 2,6-Dinitrotoluene	165		9.057					
109 Acenaphthylene	152		9.177					
110 3-Nitroaniline	138		9.215					9
111 2,4-Dinitrophenol	184		9.302					
113 4-Nitrophenol	109		9.316					
112 Acenaphthene	153		9.326					9
114 2,4-Dinitrotoluene	165		9.408					9
116 Dibenzofuran	168		9.465					
121 Diethyl phthalate	149		9.586					
123 4-Chlorophenyl phenyl ether	204		9.725					
125 4-Nitroaniline	138		9.735					9
126 Fluorene	166		9.759					
128 4,6-Dinitro-2-methylphenol	198		9.763					9
131 N-Nitrosodiphenylamine	169		9.816					
139 4-Bromophenyl phenyl ether	248		10.148					9
141 Hexachlorobenzene	284		10.244					9
143 Pentachlorophenol	266		10.393					9
148 Phenanthrene	178		10.586					
149 Anthracene	178		10.629					
151 Carbazole	167		10.740					
154 Di-n-butyl phthalate	149	10.955	10.956	-0.001	92	30586	0.4723	
159 Fluoranthene	202		11.605					
161 Pyrene	202		11.807					
168 Butyl benzyl phthalate	149		12.245					
173 Bis(2-ethylhexyl) phthalate	149	12.753	12.759	-0.006	89	37504	0.3548	
175 3,3'-Dichlorobenzidine	252		12.822					9
177 Benzo[a]anthracene	228		12.904					9
178 Chrysene	228		12.947					9
180 Di-n-octyl phthalate	149		13.485					
182 Benzo[b]fluoranthene	252		14.289					9
183 Benzo[k]fluoranthene	252		14.327					9
184 Benzo[a]pyrene	252		14.832					
188 Indeno[1,2,3-cd]pyrene	276		17.145					9
189 Dibenz(a,h)anthracene	278		17.155					9
190 Benzo[g,h,i]perylene	276		17.842					

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

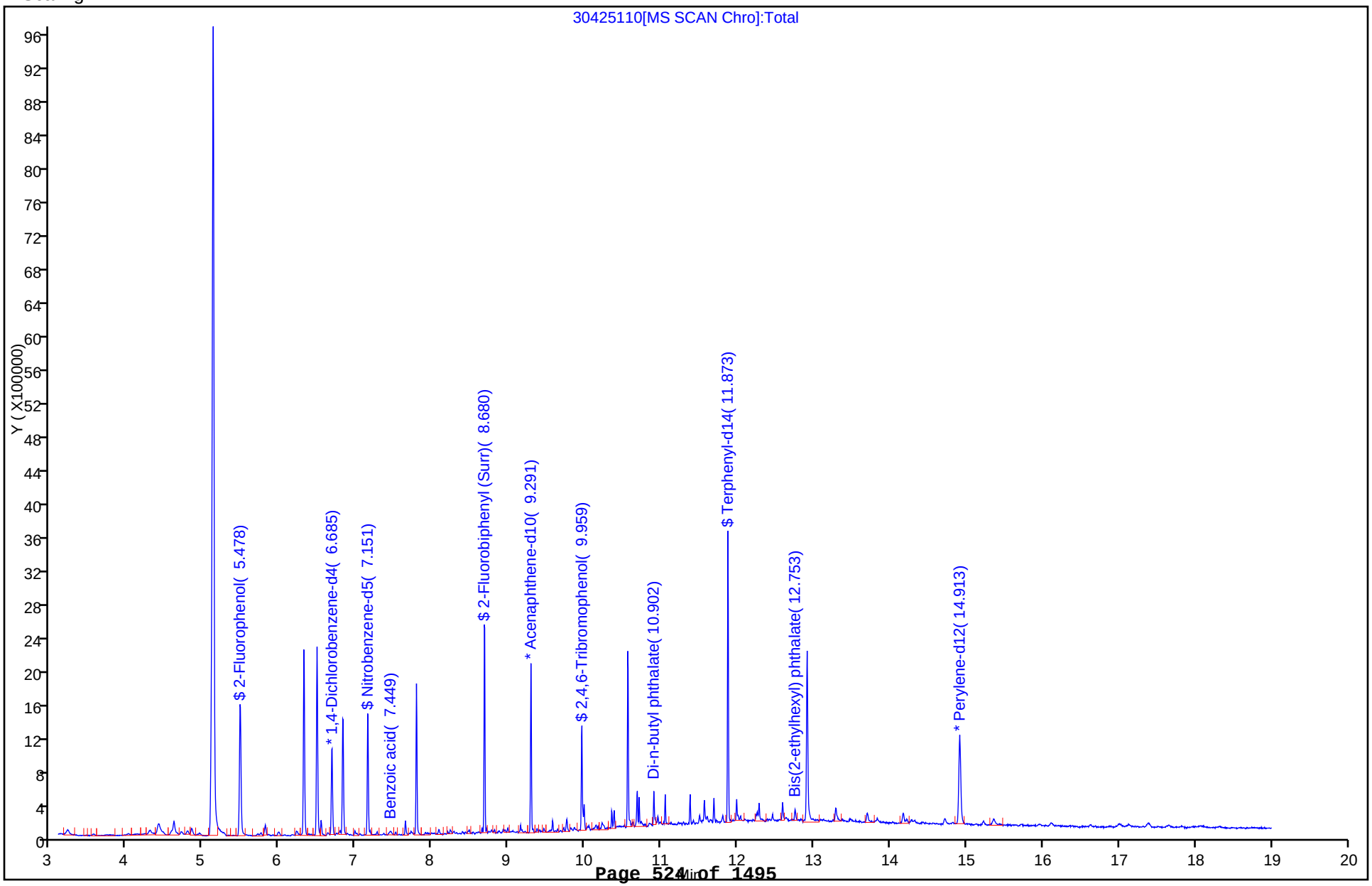
Report Date: 26-Apr-2013 09:38:16 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425110.D

Injection Date:	25-Apr-2013 19:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0003-0001-SO	Instrument ID:	A4HP9
Lims Batch ID:	83588	Lims Sample ID:	10
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



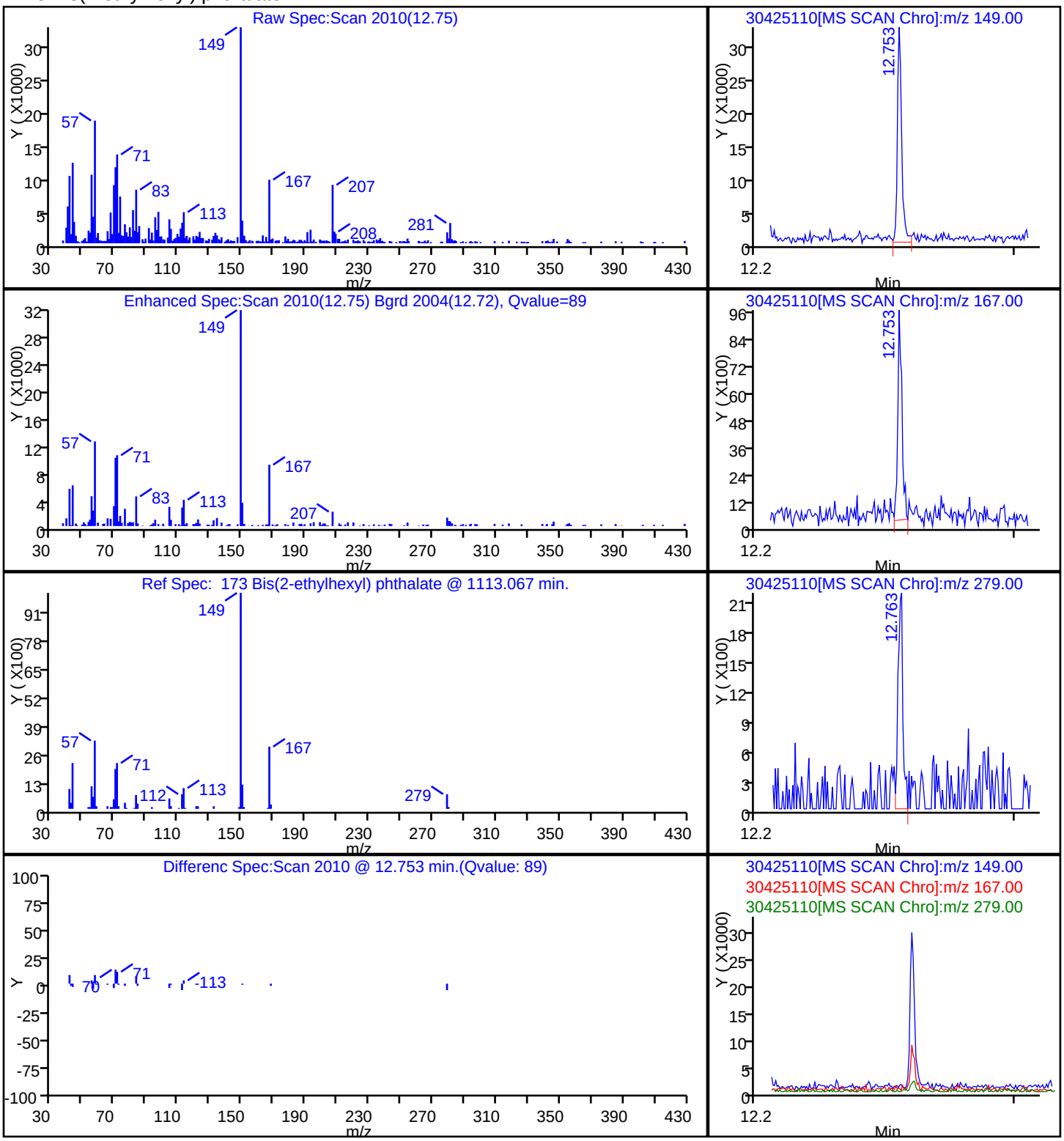
Report Date: 26-Apr-2013 09:38:16 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425110.D

Injection Date:	25-Apr-2013 19:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0003-0001-SO	Instrument ID:	A4HP9
Lims Batch ID:	83588	Lims Sample ID:	10
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

173 Bis(2-ethylhexyl) phthalate



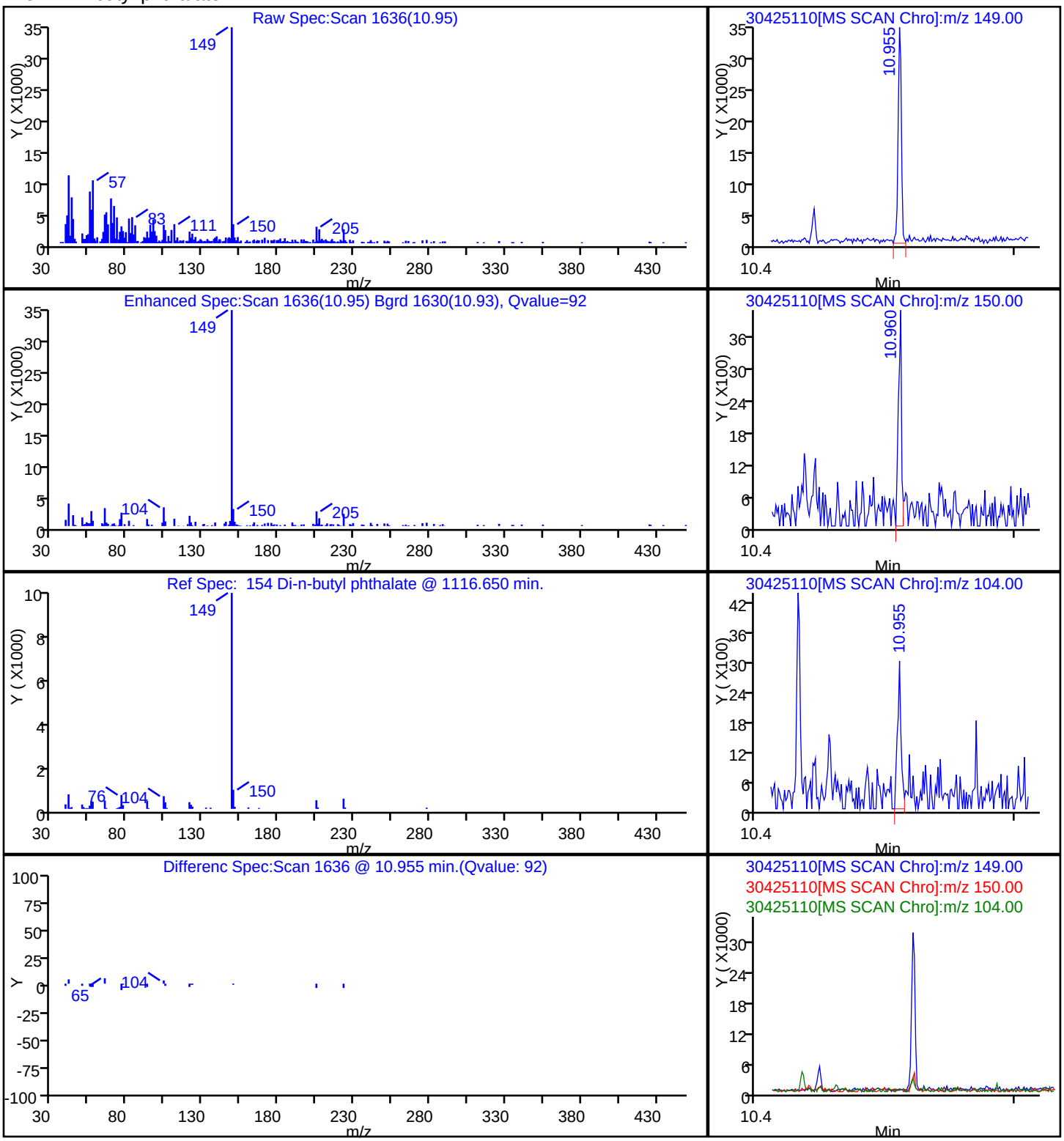
Report Date: 26-Apr-2013 09:38:16 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425110.D

Injection Date:	25-Apr-2013 19:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0003-0001-SO	Instrument ID:	A4HP9
Lims Batch ID:	83588	Lims Sample ID:	10
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

154 Di-n-butyl phthalate



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0005-0001-SO | Lab Sample ID: 240-22756-4

Matrix: Solid | Lab File ID: 30419019.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 09:18

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 29.57(g) | Date Analyzed: 04/19/2013 17:21

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 22.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	4.3	U	8.7	4.3	4.3
208-96-8	Acenaphthylene	4.3	U	8.7	4.3	4.3
120-12-7	Anthracene	4.3	U	8.7	4.3	4.3
56-55-3	Benzo[a]anthracene	8.9		8.7	4.3	4.3
50-32-8	Benzo[a]pyrene	8.2	J	8.7	4.3	4.3
205-99-2	Benzo[b]fluoranthene	16		8.7	4.3	4.3
191-24-2	Benzo[g,h,i]perylene	6.6	J M	8.7	4.3	4.3
65-85-0	Benzoic acid	430	U	860	430	430
207-08-9	Benzo[k]fluoranthene	7.4	J M	8.7	4.3	4.3
100-51-6	Benzyl alcohol	35	U	430	35	27
111-91-1	Bis(2-chloroethoxy)methane	35	U	130	35	29
111-44-4	Bis(2-chloroethyl)ether	4.3	U	130	4.3	2.6
108-60-1	bis (2-chloroisopropyl) ether	35	U	130	35	12
117-81-7	Bis(2-ethylhexyl) phthalate	44	J	91	35	25
101-55-3	4-Bromophenyl phenyl ether	35	U	65	35	17
85-68-7	Butyl benzyl phthalate	35	U	91	35	13
86-74-8	Carbazole	35	U	65	35	35
106-47-8	4-Chloroaniline	35	U	200	35	22
59-50-7	4-Chloro-3-methylphenol	35	U	200	35	27
91-58-7	2-Chloronaphthalene	4.3	U	65	4.3	4.3
95-57-8	2-Chlorophenol	35	U	65	35	35
7005-72-3	4-Chlorophenyl phenyl ether	35	U	65	35	17
218-01-9	Chrysene	15		8.7	4.3	1.4
53-70-3	Dibenz(a,h)anthracene	4.3	U	8.7	4.3	4.3
132-64-9	Dibenzofuran	4.3	U	65	4.3	4.3
95-50-1	1,2-Dichlorobenzene	35	U	65	35	13
541-73-1	1,3-Dichlorobenzene	35	U	65	35	14
106-46-7	1,4-Dichlorobenzene	35	U	65	35	26
91-94-1	3,3'-Dichlorobenzidine	100	U	130	100	23
120-83-2	2,4-Dichlorophenol	35	U	200	35	26
84-66-2	Diethyl phthalate	35	U	91	35	21
105-67-9	2,4-Dimethylphenol	100	U	200	100	26
131-11-3	Dimethyl phthalate	35	U	91	35	22
84-74-2	Di-n-butyl phthalate	35	U	91	35	20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0005-0001-SO | Lab Sample ID: 240-22756-4

Matrix: Solid | Lab File ID: 30419019.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 09:18

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 29.57(g) | Date Analyzed: 04/19/2013 17:21

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 22.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	100	U	200	100	100
51-28-5	2,4-Dinitrophenol	100	U	430	100	100
121-14-2	2,4-Dinitrotoluene	35	U	260	35	35
606-20-2	2,6-Dinitrotoluene	35	U	260	35	27
117-84-0	Di-n-octyl phthalate	35	U	91	35	35
206-44-0	Fluoranthene	30		8.7	4.3	4.3
86-73-7	Fluorene	4.3	U	8.7	4.3	4.3
118-74-1	Hexachlorobenzene	4.3	U	8.7	4.3	2.7
87-68-3	Hexachlorobutadiene	35	U	65	35	35
77-47-4	Hexachlorocyclopentadiene	35	U	430	35	35
67-72-1	Hexachloroethane	35	U	65	35	12
193-39-5	Indeno[1,2,3-cd]pyrene	8.0	J	8.7	4.3	4.3
78-59-1	Isophorone	35	U	65	35	17
91-57-6	2-Methylnaphthalene	5.1	J	8.7	4.3	4.3
95-48-7	2-Methylphenol	100	U	260	100	100
15831-10-4	3 & 4 Methylphenol	47	J	520	100	26
91-20-3	Naphthalene	6.6	J	8.7	4.3	4.3
88-74-4	2-Nitroaniline	35	U	260	35	12
99-09-2	3-Nitroaniline	100	U	260	100	21
100-01-6	4-Nitroaniline	35	U	260	35	34
98-95-3	Nitrobenzene	4.3	U	130	4.3	2.9
88-75-5	2-Nitrophenol	35	U	65	35	35
100-02-7	4-Nitrophenol	100	U	430	100	100
621-64-7	N-Nitrosodi-n-propylamine	35	U	65	35	35
86-30-6	N-Nitrosodiphenylamine	35	U	65	35	27
87-86-5	Pentachlorophenol	100	U	200	100	100
85-01-8	Phenanthrene	18		8.7	4.3	4.3
108-95-2	Phenol	35	U	65	35	35
129-00-0	Pyrene	19		8.7	4.3	4.3
120-82-1	1,2,4-Trichlorobenzene	35	U	65	35	35
95-95-4	2,4,5-Trichlorophenol	35	U	200	35	33
88-06-2	2,4,6-Trichlorophenol	100	U	200	100	100

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0005-0001-SO | Lab Sample ID: 240-22756-4

Matrix: Solid | Lab File ID: 30419019.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 09:18

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 29.57(g) | Date Analyzed: 04/19/2013 17:21

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 22.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	61		45-105
367-12-4	2-Fluorophenol (Surr)	74		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	64		35-100
4165-62-2	Phenol-d5 (Surr)	74		40-100
1718-51-0	Terphenyl-d14 (Surr)	54		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	57		35-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419019.D
Lims ID: 240-22756-B-4-A
Client ID: 074SB-0005-0001-SO
Inject. Date: 19-Apr-2013 17:21:30
Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0019044-019
Misc. Info.: 240-22756-B-4-A
Operator: 001710
Instrument ID: A4HP10
Injection Vol: 1.0 ul
ALS Bottle#: 19
Lims Batch ID: 82653
Lims Sample ID: 19
Detector: MS SCAN

Method: \\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m
Last Update: 22-Apr-2013 13:55:06
Calib Date: 12-Apr-2013 00:58:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: 5% phenyl
Column Dia: 0.18 mm
Process Host: XAWRK022

First Level Reviewer: gruberj
Date: 22-Apr-2013 11:33:13

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.848	5.848	0.0	98	121668	4.00	
* 2 Naphthalene-d8	136	6.971	6.970	0.001	99	481060	4.00	
* 3 Acenaphthene-d10	164	8.475	8.475	0.0	91	291464	4.00	
* 4 Phenanthrene-d10	188	9.738	9.738	0.0	97	479141	4.00	
* 5 Chrysene-d12	240	12.294	12.294	0.0	80	515953	4.00	
* 6 Perylene-d12	264	14.368	14.368	0.0	86	445689	4.00	
$ 7 2-Fluorophenol	112	4.591	4.573	0.018	92	391611	11.1	
$ 8 Phenol-d5	99	5.496	5.490	0.006	99	522650	11.1	
$ 9 Nitrobenzene-d5	82	6.336	6.336	0.0	90	288264	6.41	
$ 10 2-Fluorobiphenyl (Surr)	172	7.887	7.887	0.0	99	573034	6.10	
$ 11 2,4,6-Tribromophenol	330	9.139	9.144	-0.005	84	90765	8.51	
$ 12 Terphenyl-d14	244	11.101	11.101	0.0	98	550155	5.42	
43 Phenol	94	5.508	5.502	0.006	61	5783	0.1253	
45 Bis(2-chloroethyl)ether	93		5.601					
47 2-Chlorophenol	128		5.648					
48 1,3-Dichlorobenzene	146		5.795					9
49 1,4-Dichlorobenzene	146		5.866					9
50 Benzyl alcohol	108		5.960					9
51 1,2-Dichlorobenzene	146		6.001					9
52 2-Methylphenol	108		6.054					
54 2,2'-oxybis[1-chloropropane]	45		6.083					
56 3 & 4 Methylphenol	108	6.183	6.183	0.0	91	18930	0.5407	
57 N-Nitrosodi-n-propylamine	70		6.195					
61 Hexachloroethane	117		6.307					9
62 Nitrobenzene	77		6.354					9
64 Isophorone	82		6.559					
66 2-Nitrophenol	139		6.636					
65 2,4-Dimethylphenol	107		6.653					
70 Benzoic acid	122	6.677	6.712	-0.035	85	8346	0.9023	
69 Bis(2-chloroethoxy)methane	93		6.741					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
72 2,4-Dichlorophenol	162		6.835					
73 1,2,4-Trichlorobenzene	180		6.918					
74 Naphthalene	128	6.988	6.988	0.0	52	8524	0.0764	
75 4-Chloroaniline	127		7.023					9
78 Hexachlorobutadiene	225		7.088					
85 4-Chloro-3-methylphenol	107		7.423					
87 2-Methylnaphthalene	142	7.582	7.582	0.0	78	4430	0.0590	
89 Hexachlorocyclopentadiene	237		7.711					
93 2,4,6-Trichlorophenol	196		7.811					
94 2,4,5-Trichlorophenol	196		7.846					
100 2-Chloronaphthalene	162		7.999					
102 2-Nitroaniline	65		8.075					9
105 Dimethyl phthalate	163		8.216					9
107 2,6-Dinitrotoluene	165		8.275					9
109 Acenaphthylene	152		8.357					
110 3-Nitroaniline	138		8.422					
112 Acenaphthene	153		8.504					9
111 2,4-Dinitrophenol	184		8.510					
113 4-Nitrophenol	109		8.539					
114 2,4-Dinitrotoluene	165		8.616					9
116 Dibenzofuran	168		8.645					9
121 Diethyl phthalate	149		8.815					
123 4-Chlorophenyl phenyl ether	204		8.927					
126 Fluorene	166		8.939					
125 4-Nitroaniline	138		8.939					
128 4,6-Dinitro-2-methylphenol	198		8.962					9
129 N-Nitrosodiphenylamine	169		9.027					
139 4-Bromophenyl phenyl ether	248		9.344					
141 Hexachlorobenzene	284		9.403					
144 Pentachlorophenol	266		9.567					
149 Phenanthrene	178	9.756	9.761	-0.005	77	22671	0.2041	
150 Anthracene	178		9.803					
152 Carbazole	167		9.932					
155 Di-n-butyl phthalate	149		10.196					
160 Fluoranthene	202	10.772	10.772	0.0	94	45282	0.3455	
162 Pyrene	202	10.978	10.984	-0.006	92	28525	0.2141	
170 Butyl benzyl phthalate	149		11.583					
177 3,3'-Dichlorobenzidine	252		12.229					
175 Bis(2-ethylhexyl) phthalate	149	12.259	12.258	0.001	80	35792	0.5011	
179 Benzo[a]anthracene	228	12.282	12.282	0.0	25	13078	0.1019	
180 Chrysene	228	12.323	12.329	-0.006	27	20366	0.1728	
182 Di-n-octyl phthalate	149		13.175					
184 Benzo[b]fluoranthene	252	13.786	13.786	0.0	78	21923	0.1833	
185 Benzo[k]fluoranthene	252	13.810	13.827	-0.017	47	11108	0.0854	M
186 Benzo[a]pyrene	252	14.286	14.286	0.0	36	10541	0.0949	
190 Indeno[1,2,3-cd]pyrene	276	16.031	16.031	0.0	20	11282	0.0926	
191 Dibenz(a,h)anthracene	278		16.066					
192 Benzo[g,h,i]perylene	276	16.477	16.477	0.0	25	7878	0.0758	M

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

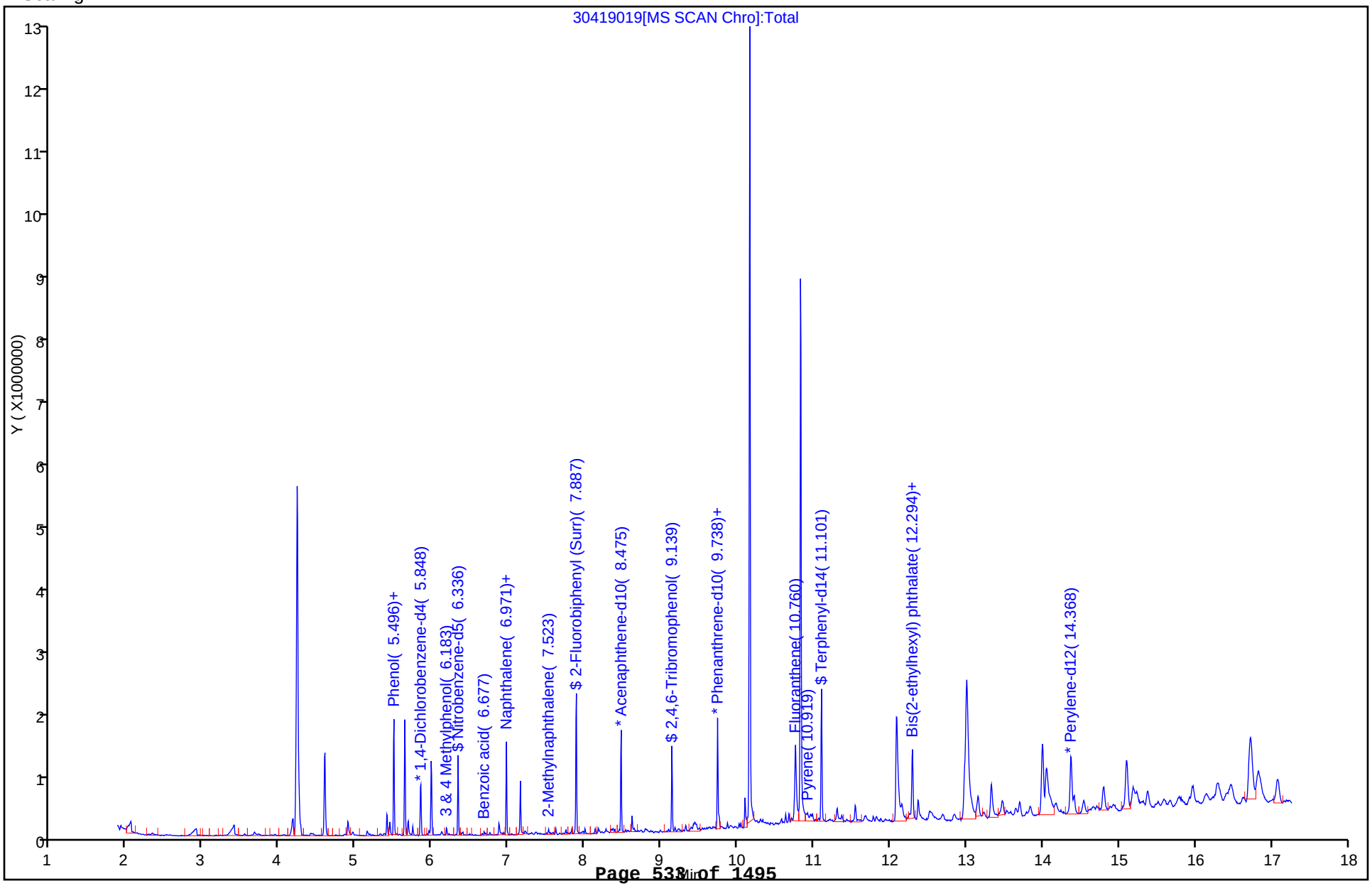
Report Date: 22-Apr-2013 13:55:29 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419019.D

Injection Date:	19-Apr-2013 17:21:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0005-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	19
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Report Date: 22-Apr-2013 13:55:29 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

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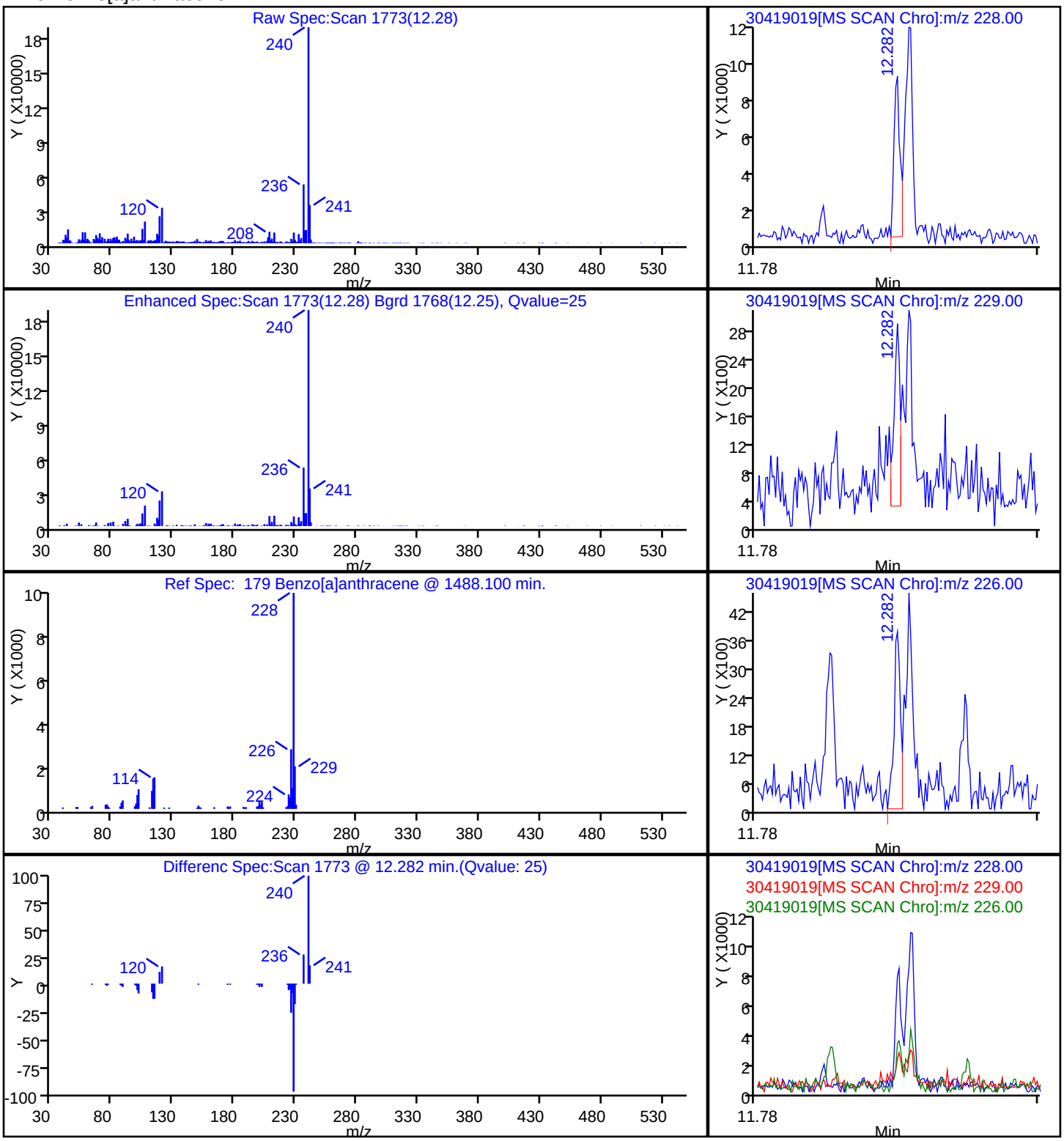
Lims Batch ID:	82653	Lims Sample ID:	19
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

179 Benzo[a]anthracene



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TestAmerica Canton

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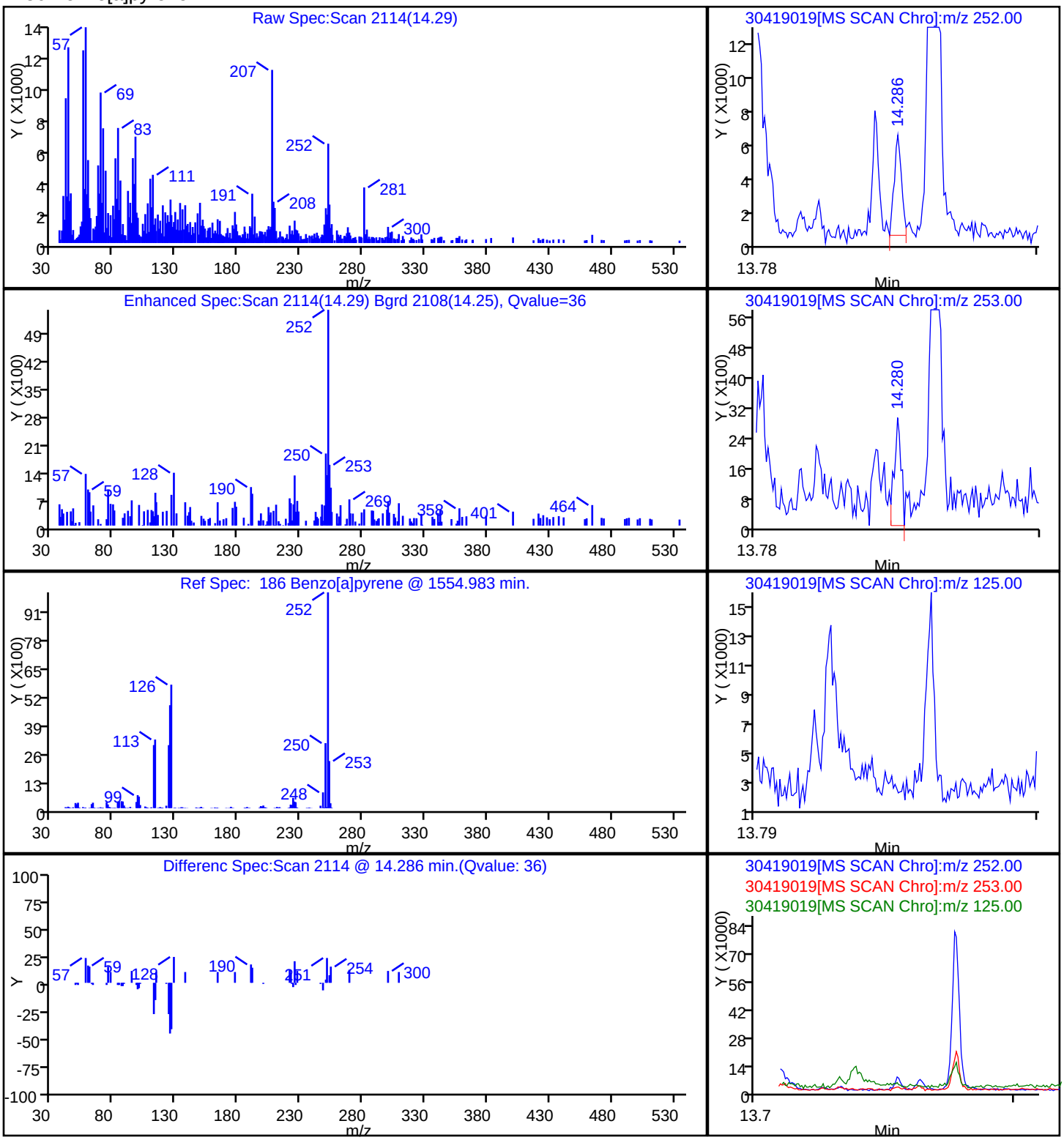
Lims Batch ID:	82653	Lims Sample ID:	19
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

186 Benzo[a]pyrene



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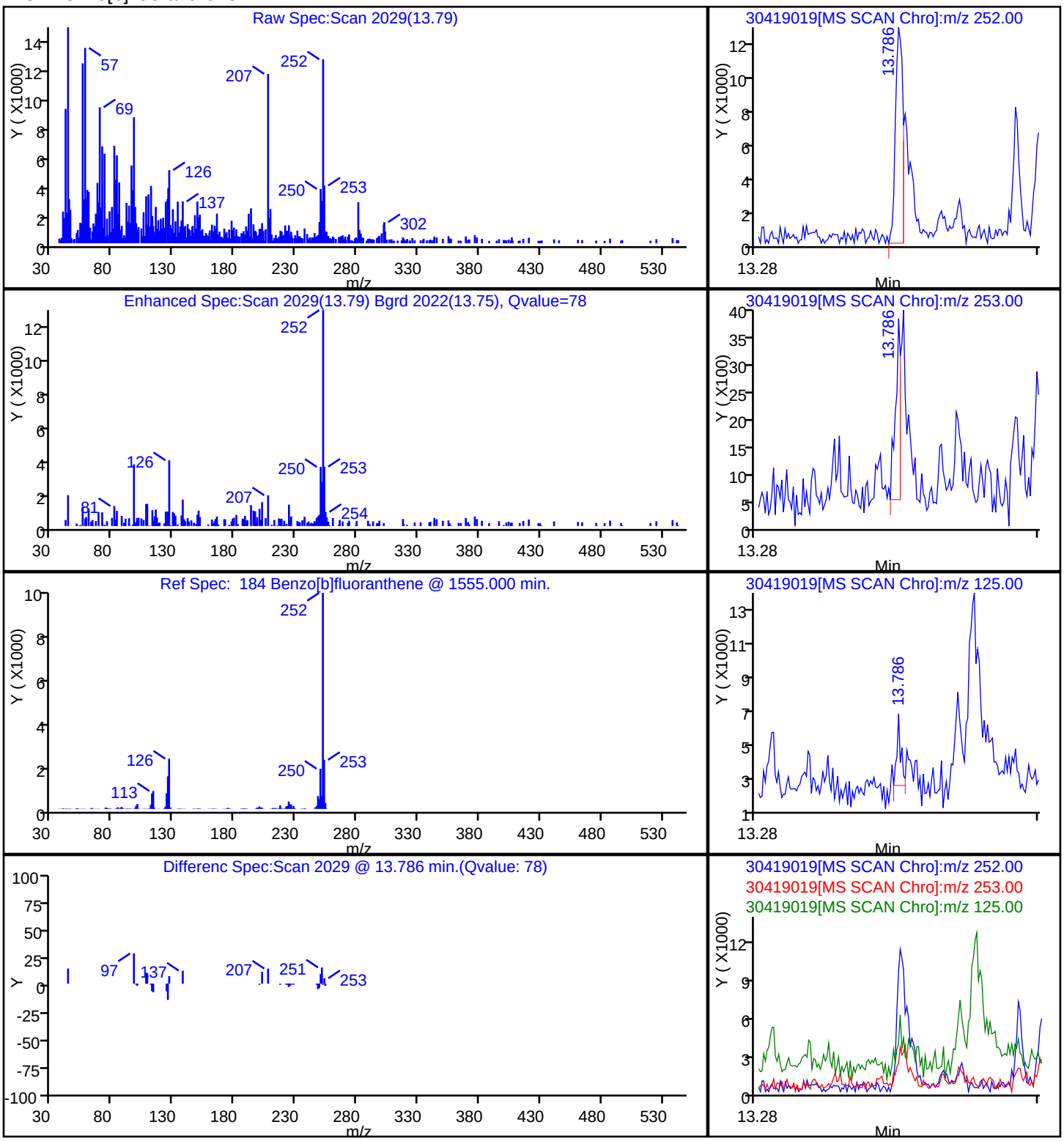
Lims Batch ID:	82653	Lims Sample ID:	19
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

184 Benzo[b]fluoranthene



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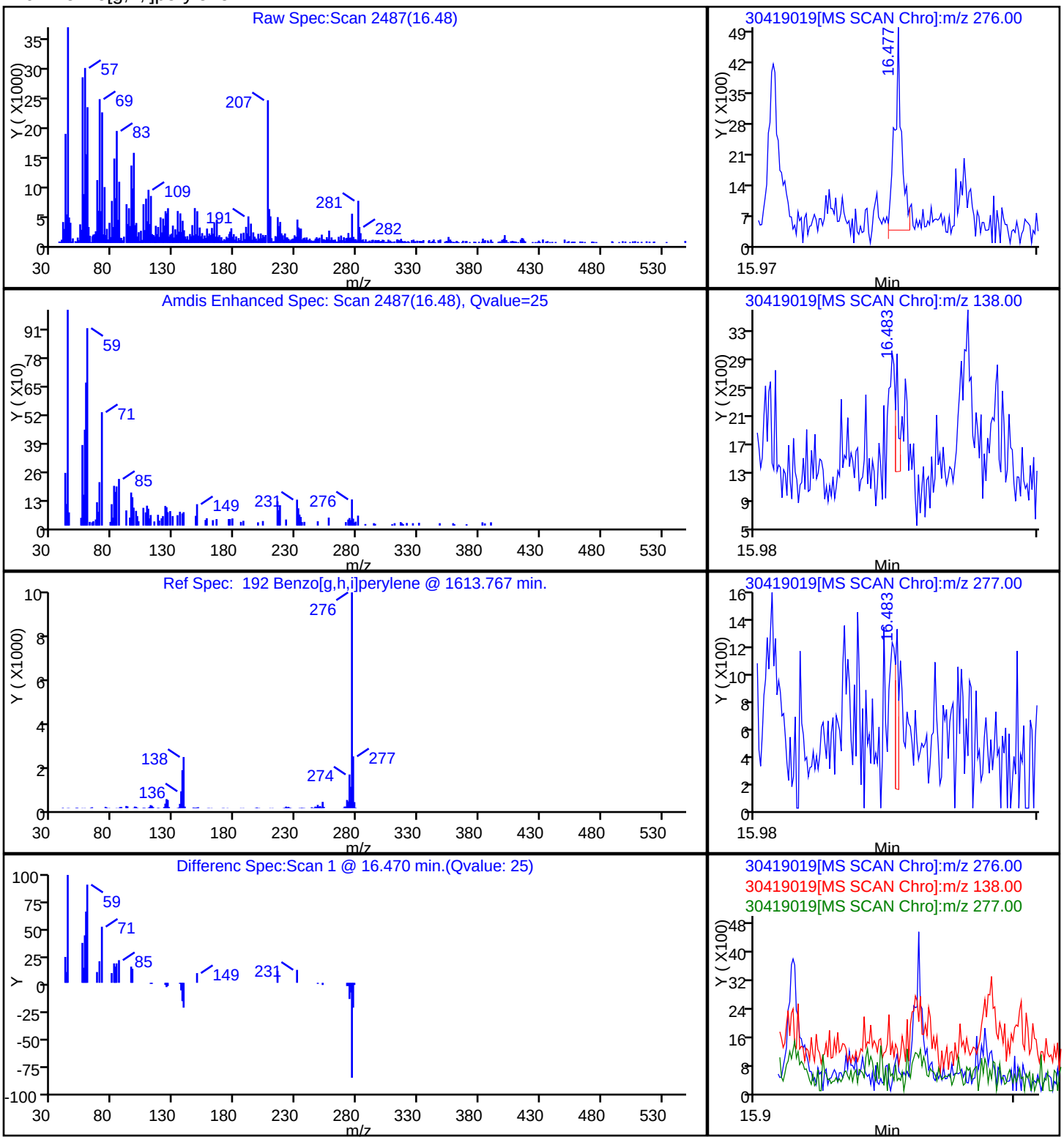
Lims Batch ID:	82653	Lims Sample ID:	19
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

192 Benzo[g,h,i]perylene



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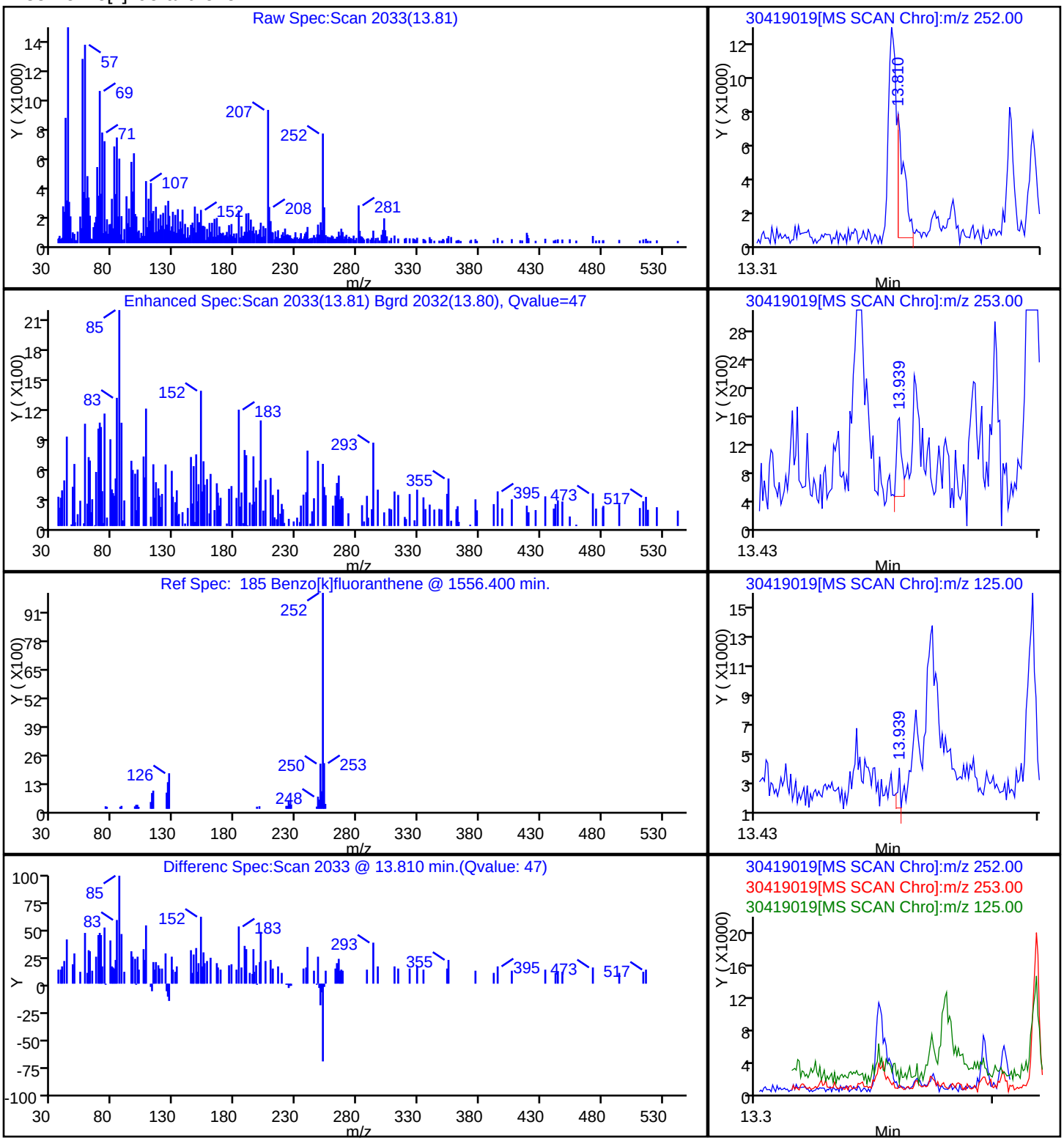
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

185 Benzo[k]fluoranthene



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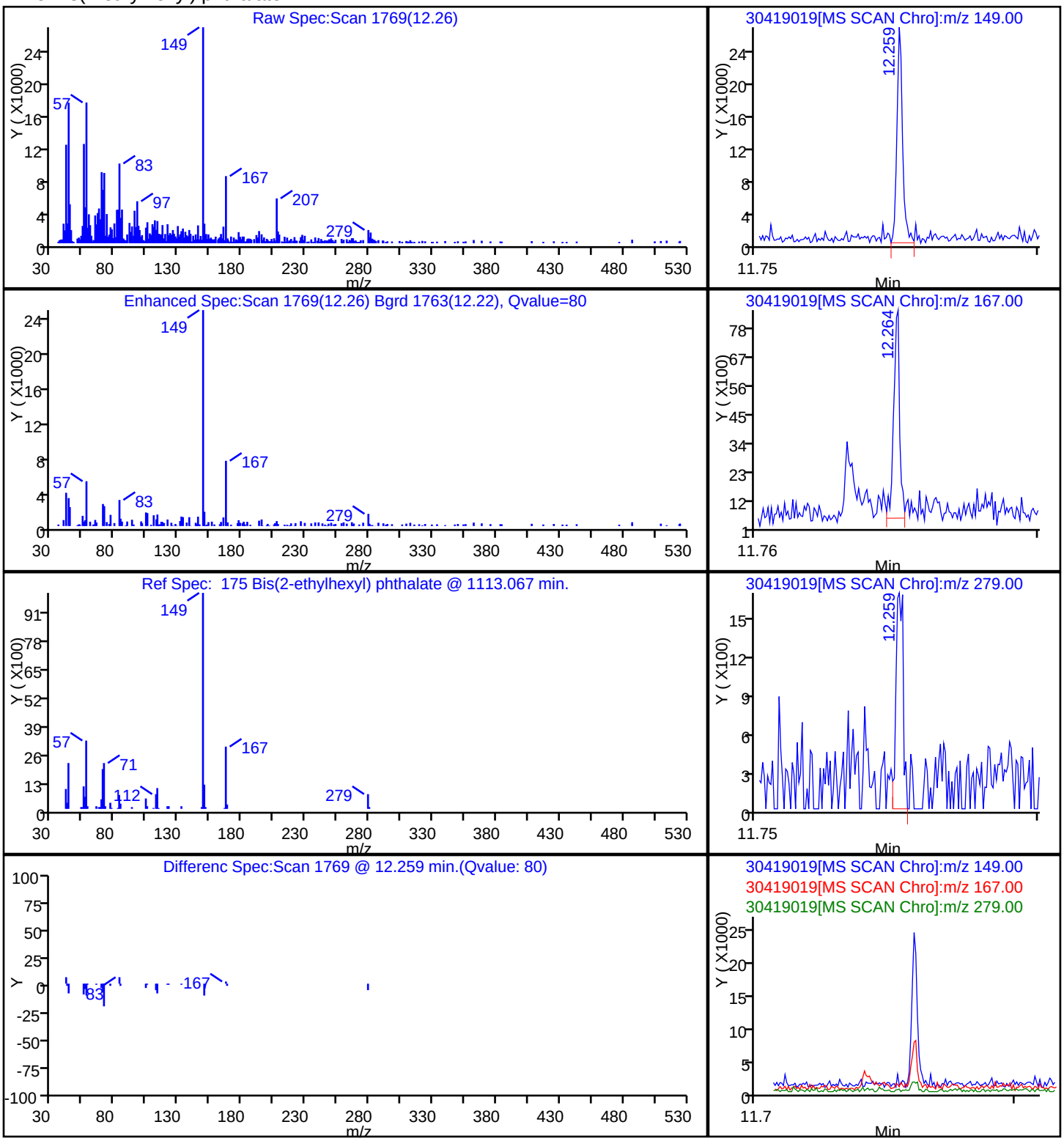
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

175 Bis(2-ethylhexyl) phthalate



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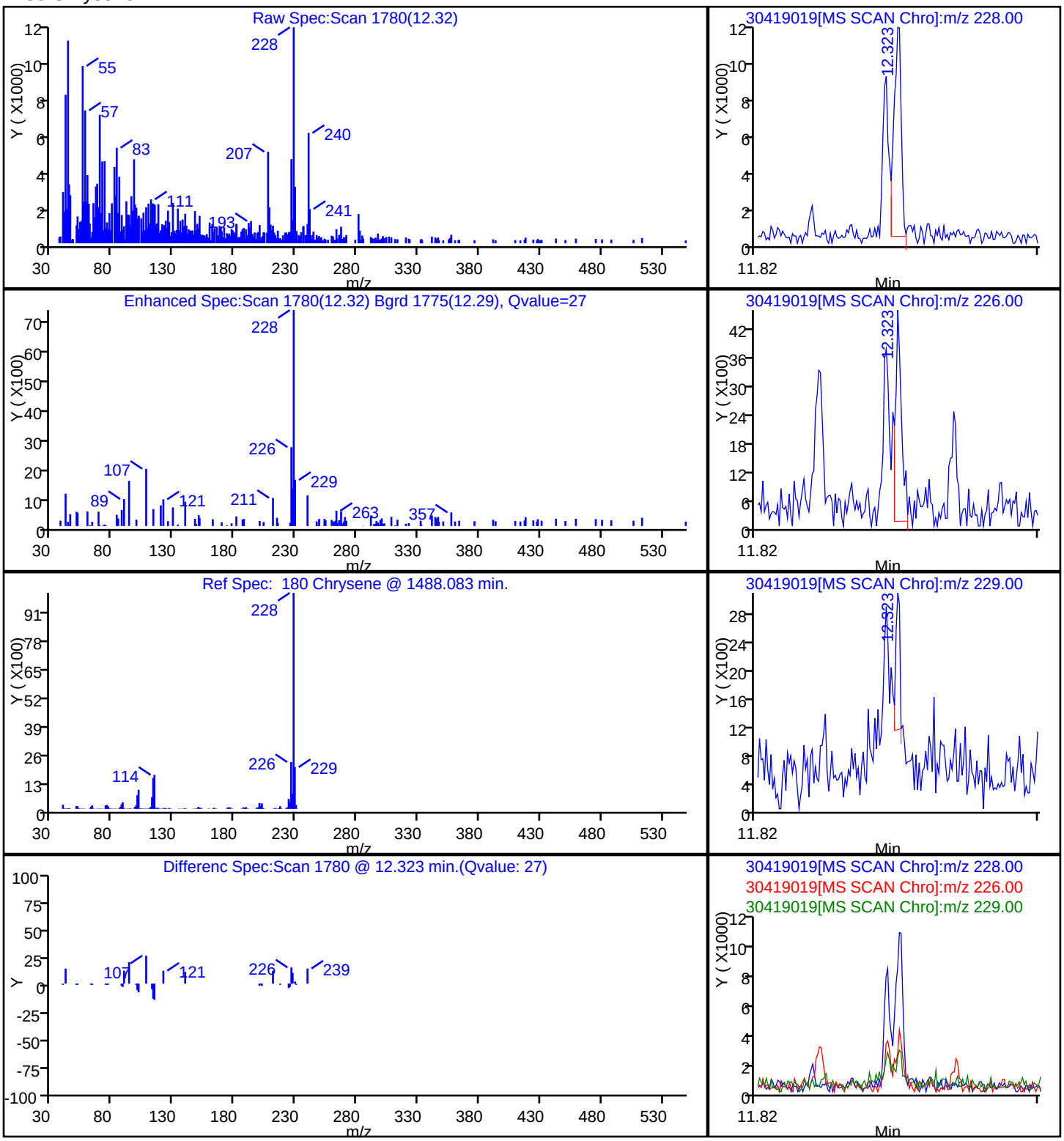
Lims Batch ID:	82653	Lims Sample ID:	19
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

180 Chrysene



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TestAmerica Canton

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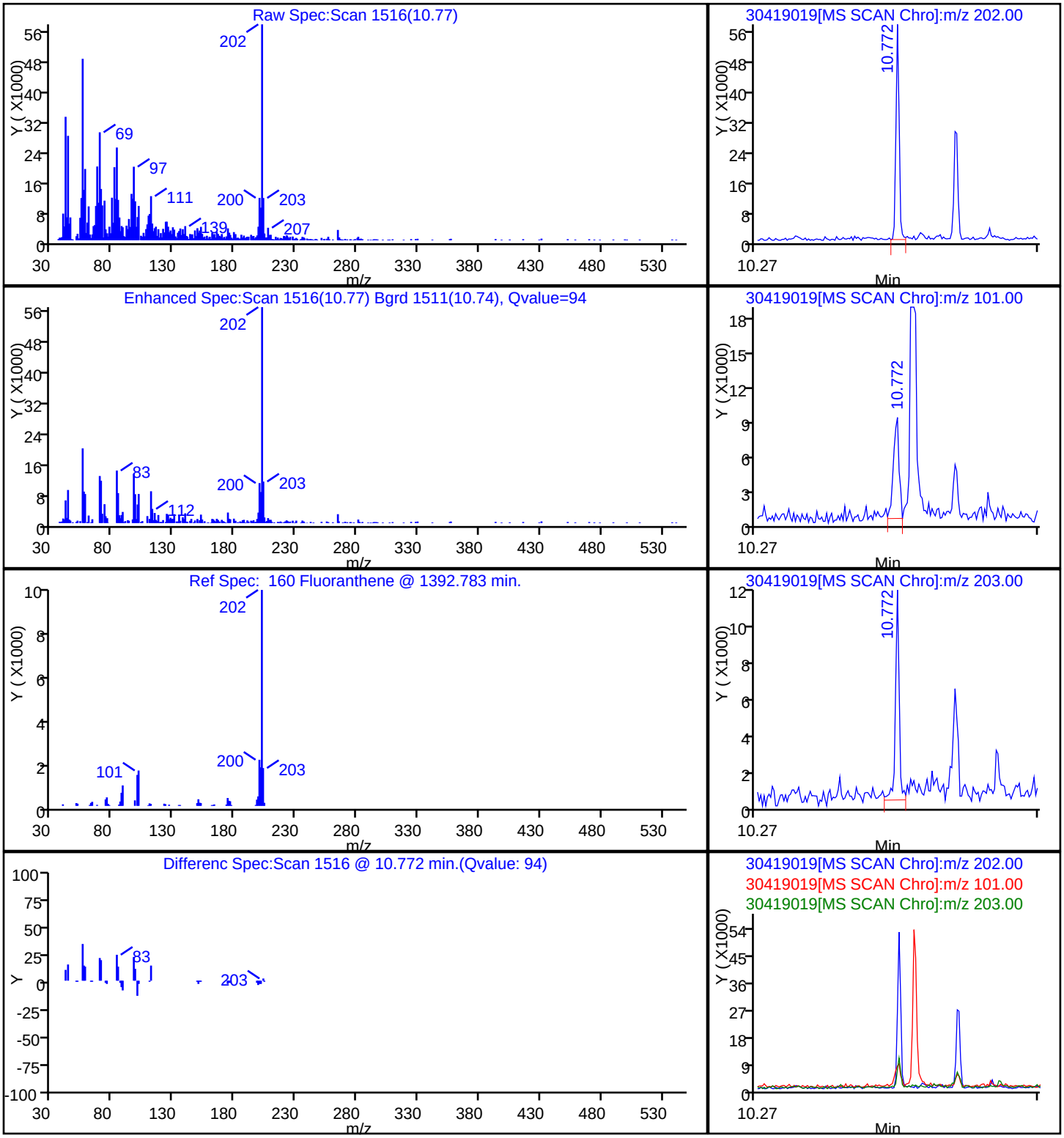
Lims Batch ID:	82653	Lims Sample ID:	19
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

160 Fluoranthene



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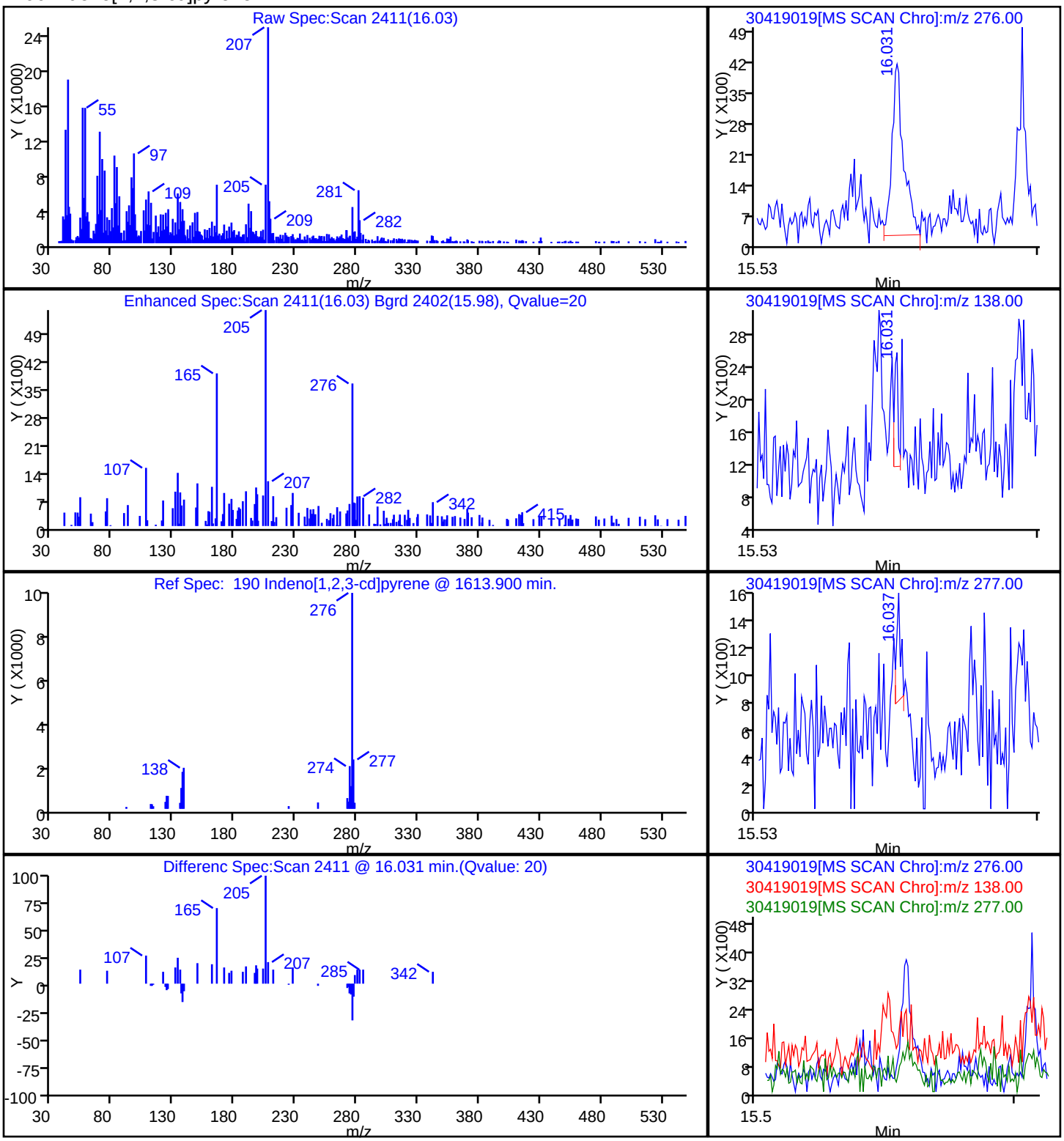
Lims Batch ID:	82653	Lims Sample ID:	19
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

190 Indeno[1,2,3-cd]pyrene



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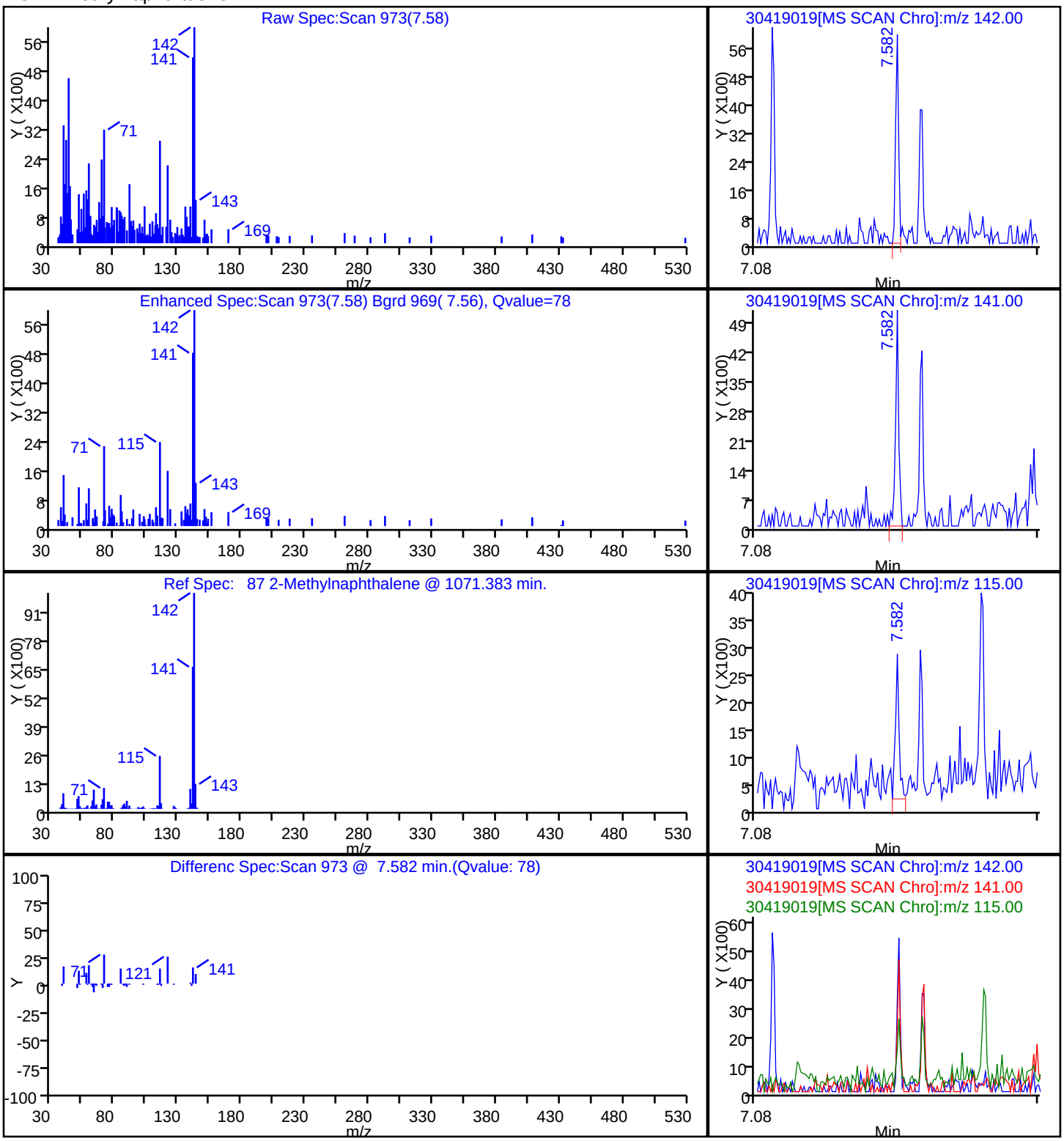
Lims Batch ID:	82653	Lims Sample ID:	19
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

87 2-Methylnaphthalene



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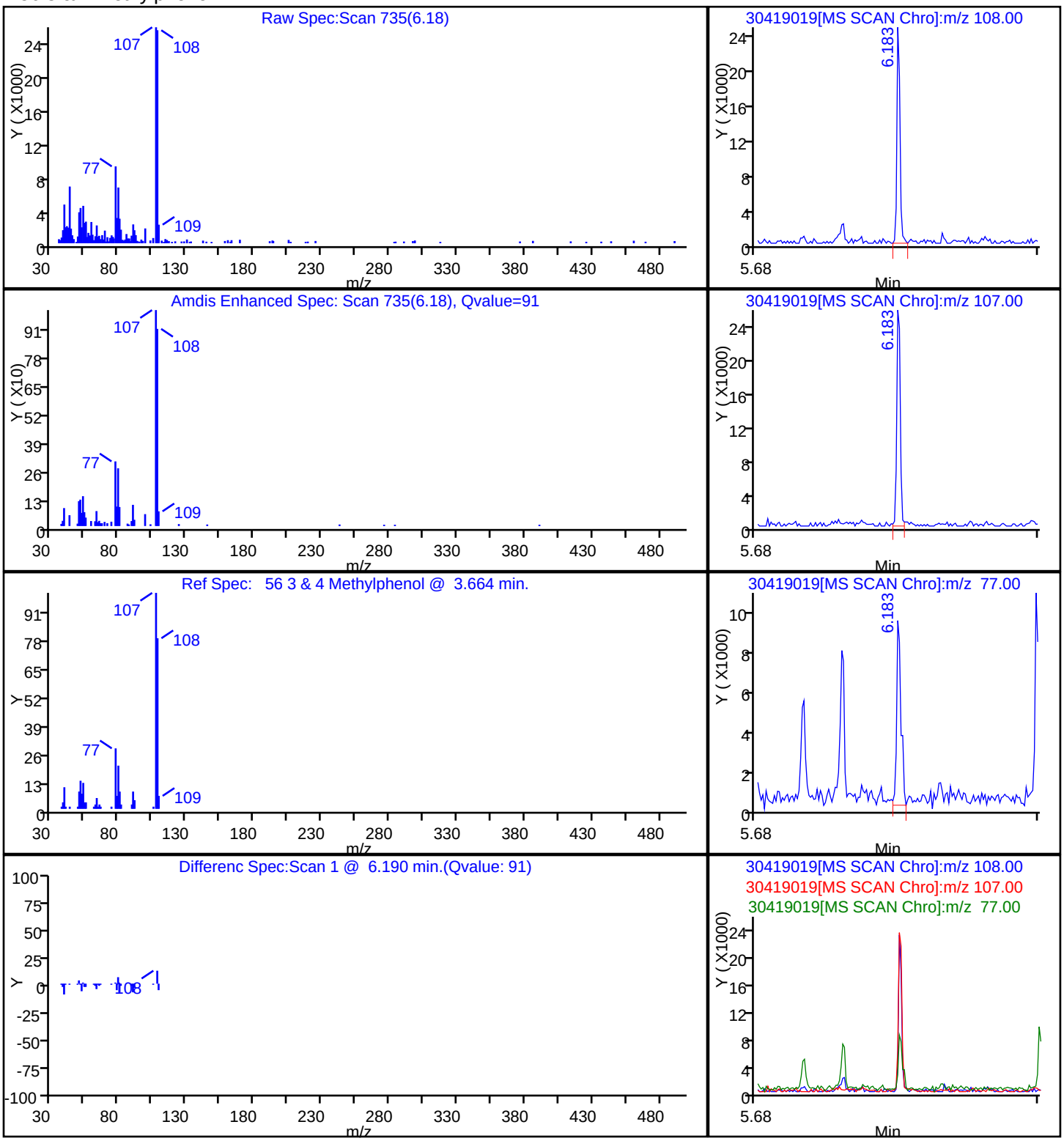
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

56 3 & 4 Methylphenol



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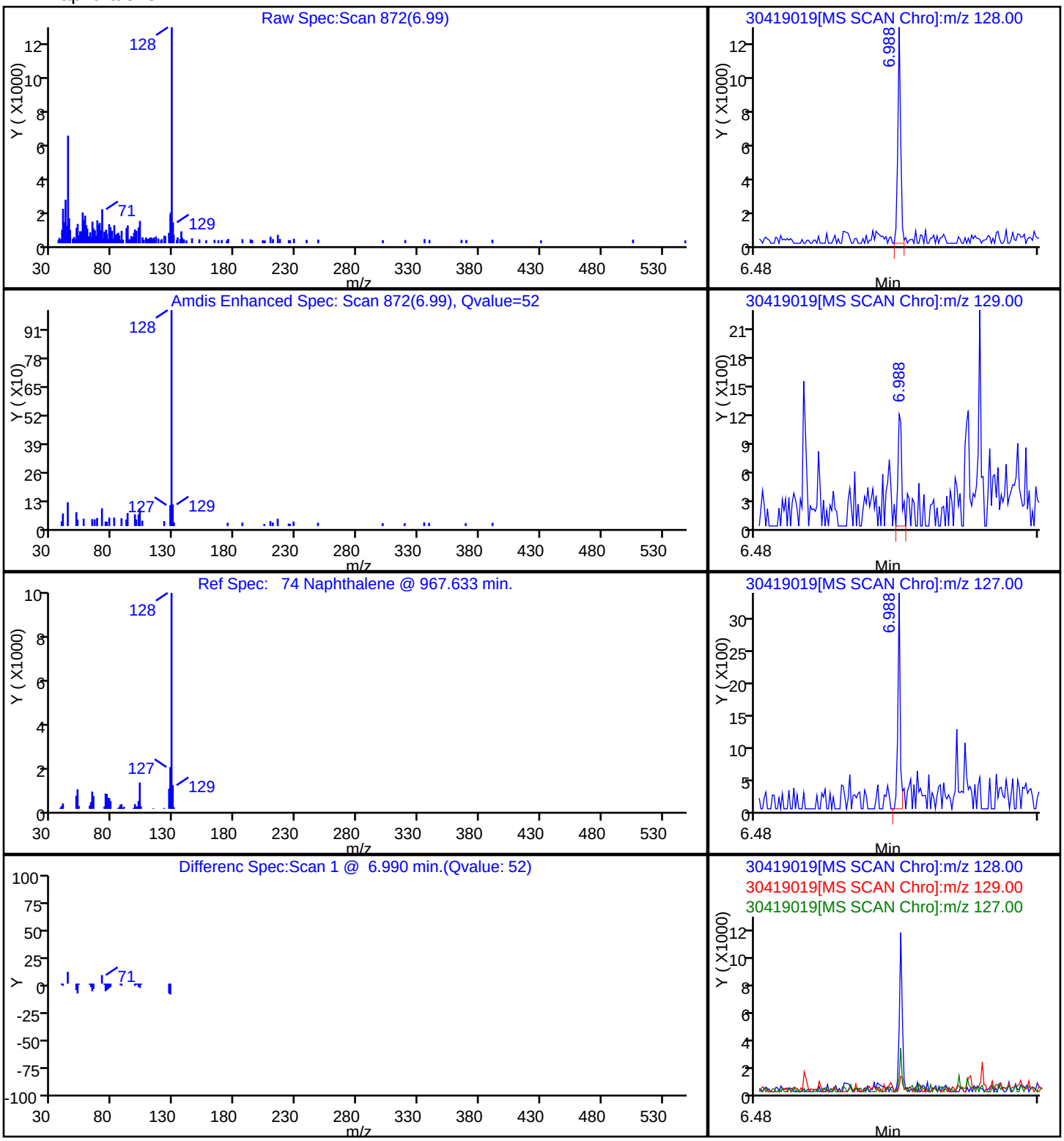
Lims Batch ID:	82653	Lims Sample ID:	19
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

74 Naphthalene



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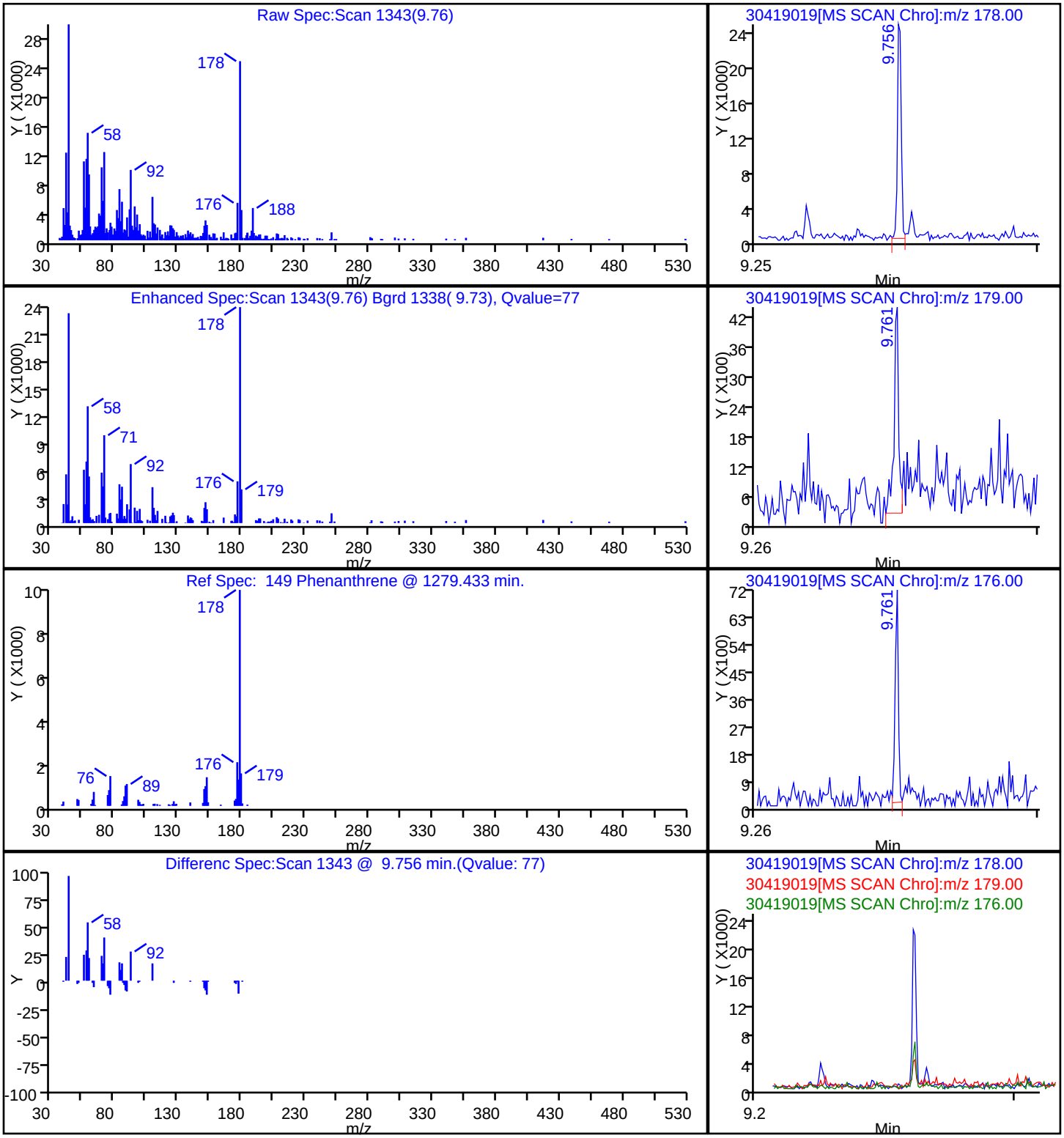
Lims Batch ID:	82653	Lims Sample ID:	19
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

149 Phenanthrene



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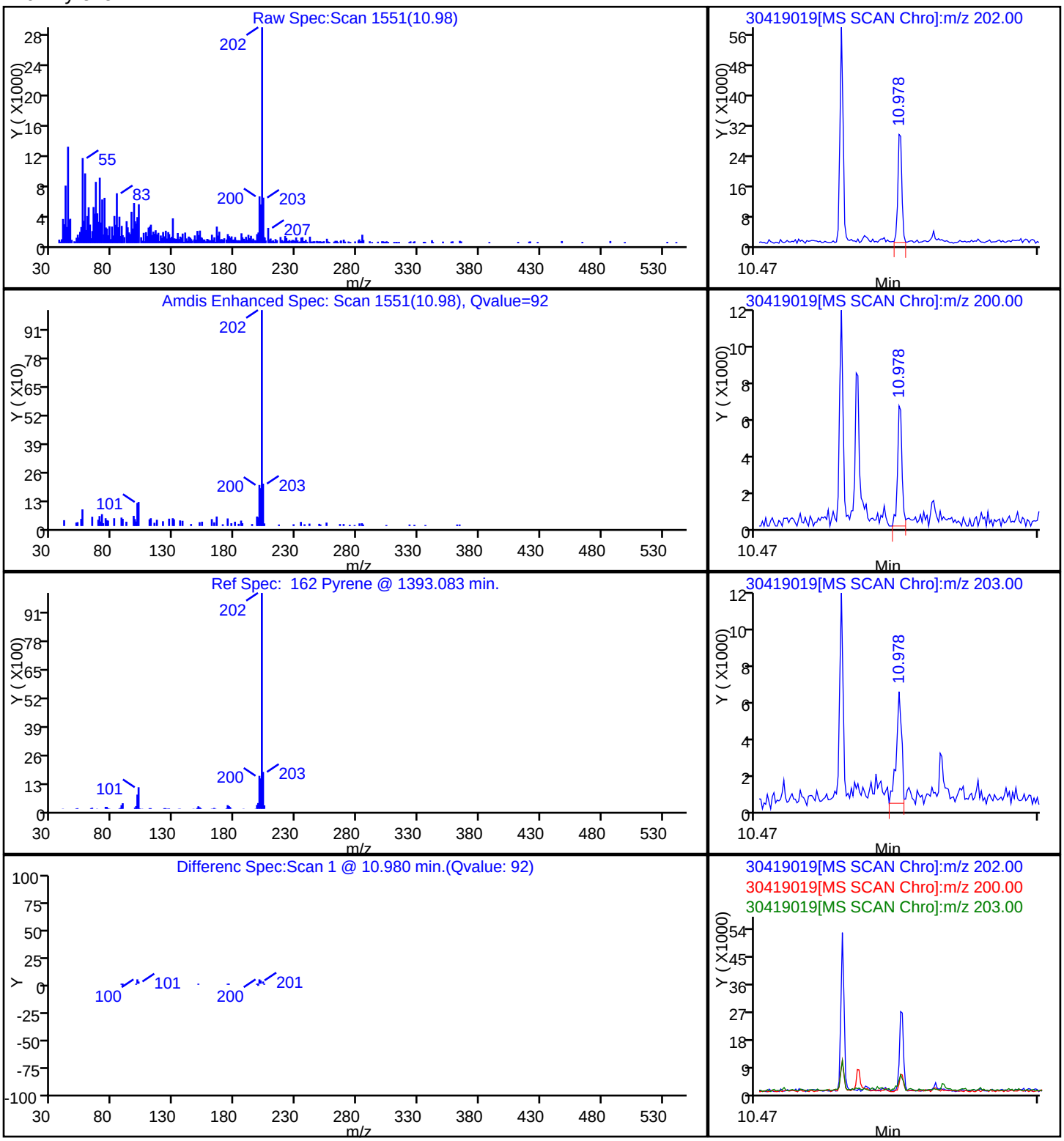
Lims Batch ID:	82653	Lims Sample ID:	19
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

162 Pyrene



Manual Integration/User Assign Peak Report

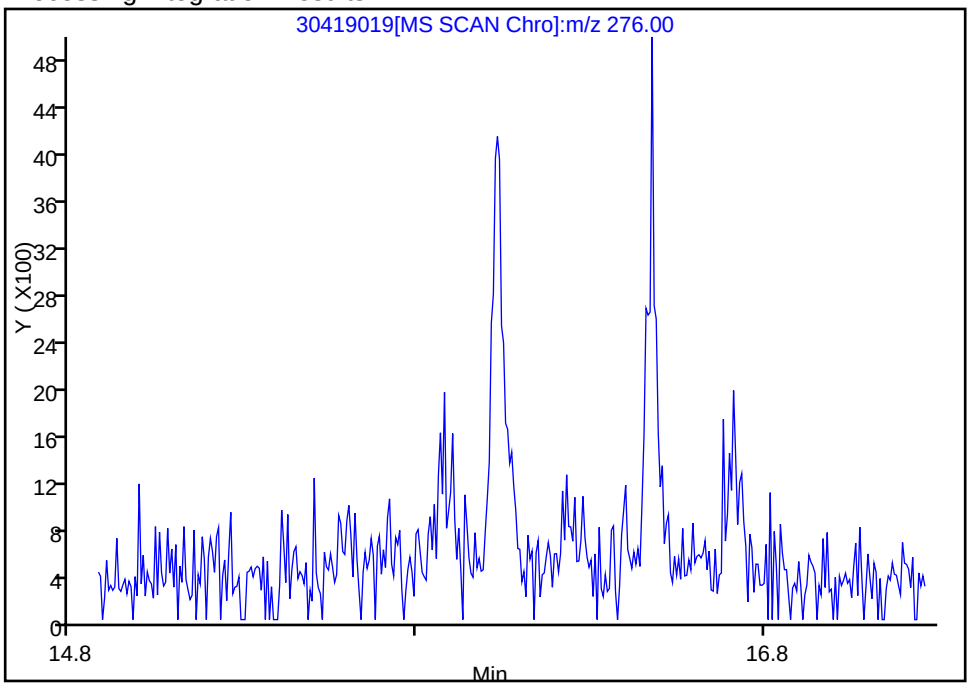
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419019.D		
Injection Date:	19-Apr-2013 17:21:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0005-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	19
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

192 Benzo[g,h,i]perylene, Signal: 1, m/z: 276.0 Type: quant, RT: 16.48

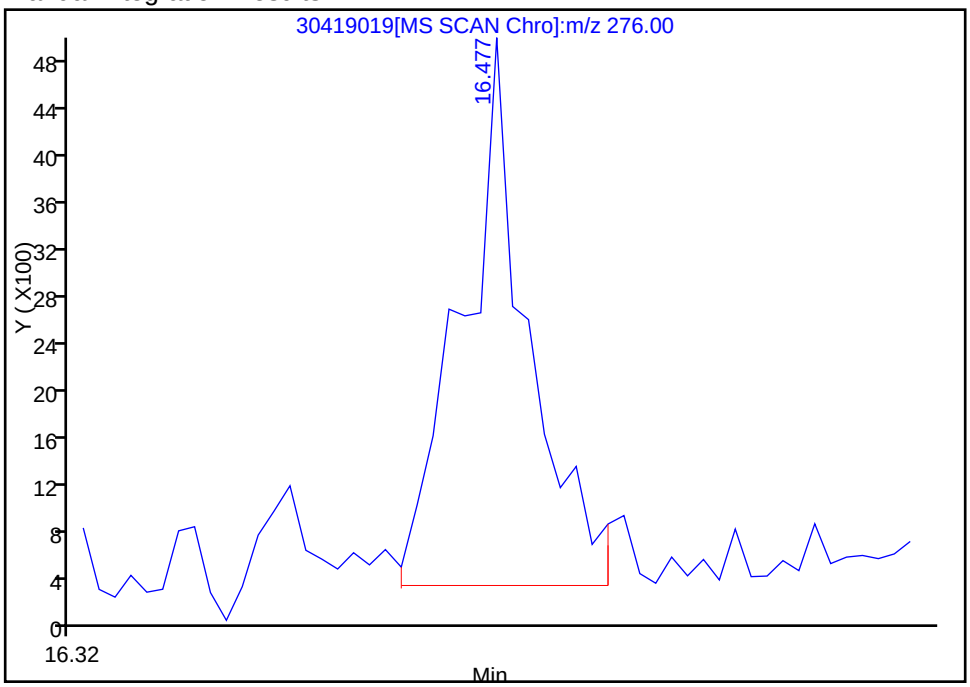
Not Detected
Expected RT: 16.48

Processing Integration Results



Manual Integration Results

RT: 16.48
Response: 7878
Amount: 0.075771



Reviewer: gruberj, 22-Apr-2013 11:33:13
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419019.D		
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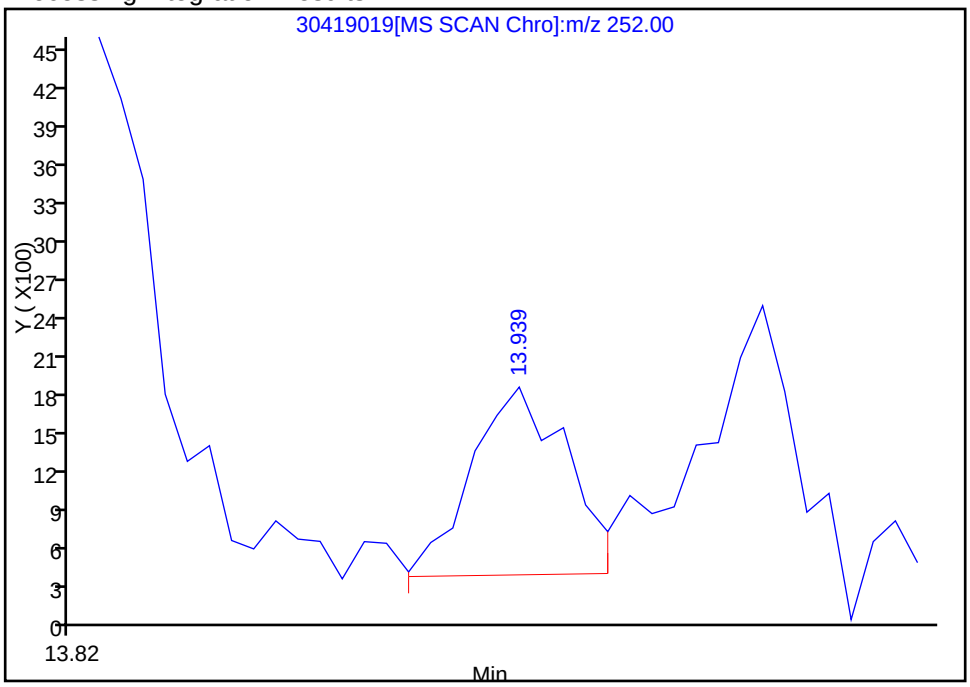
Client ID:	074SB-0005-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	19
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

185 Benzo[k]fluoranthene, Signal: 1, m/z: 252.0 Type: quant, RT: 13.83

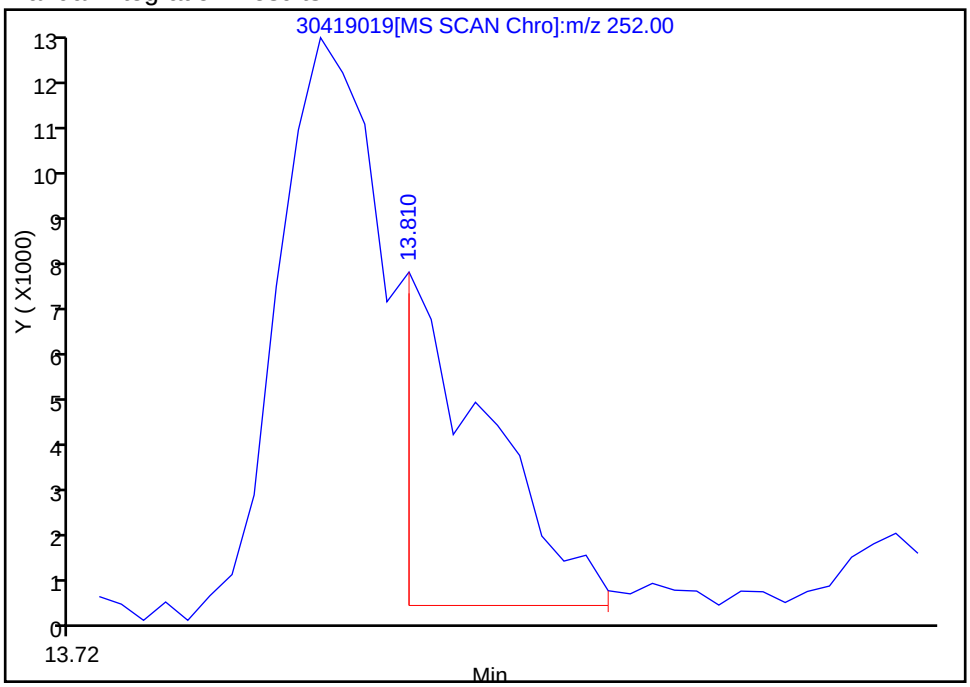
Processing Integration Results

RT: 13.94
Response: 2627
Amount: 0.020191



Manual Integration Results

RT: 13.81
Response: 11108
Amount: 0.085375



Reviewer: gruberj, 22-Apr-2013 11:33:13
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0006-0001-SO | Lab Sample ID: 240-22756-5

Matrix: Solid | Lab File ID: 30419022.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 10:13

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.28(g) | Date Analyzed: 04/19/2013 18:31

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	4.0	U	8.0	4.0	4.0
208-96-8	Acenaphthylene	4.0	U	8.0	4.0	4.0
120-12-7	Anthracene	4.0	U	8.0	4.0	4.0
56-55-3	Benzo[a]anthracene	4.0	U	8.0	4.0	4.0
50-32-8	Benzo[a]pyrene	4.0	U	8.0	4.0	4.0
205-99-2	Benzo[b]fluoranthene	4.0	U	8.0	4.0	4.0
191-24-2	Benzo[g,h,i]perylene	4.0	U	8.0	4.0	4.0
65-85-0	Benzoic acid	400	U	790	400	400
207-08-9	Benzo[k]fluoranthene	4.0	U	8.0	4.0	4.0
100-51-6	Benzyl alcohol	32	U	400	32	25
111-91-1	Bis(2-chloroethoxy)methane	32	U	120	32	26
111-44-4	Bis(2-chloroethyl)ether	4.0	U	120	4.0	2.4
108-60-1	bis (2-chloroisopropyl) ether	32	U	120	32	11
117-81-7	Bis(2-ethylhexyl) phthalate	49	J	84	32	23
101-55-3	4-Bromophenyl phenyl ether	32	U	60	32	16
85-68-7	Butyl benzyl phthalate	32	U	84	32	12
86-74-8	Carbazole	32	U	60	32	32
106-47-8	4-Chloroaniline	32	U	180	32	20
59-50-7	4-Chloro-3-methylphenol	32	U	180	32	25
91-58-7	2-Chloronaphthalene	4.0	U	60	4.0	4.0
95-57-8	2-Chlorophenol	32	U	60	32	32
7005-72-3	4-Chlorophenyl phenyl ether	32	U	60	32	16
218-01-9	Chrysene	4.0	U	8.0	4.0	1.3
53-70-3	Dibenz(a,h)anthracene	4.0	U	8.0	4.0	4.0
132-64-9	Dibenzofuran	4.0	U	60	4.0	4.0
95-50-1	1,2-Dichlorobenzene	32	U	60	32	12
541-73-1	1,3-Dichlorobenzene	32	U	60	32	13
106-46-7	1,4-Dichlorobenzene	32	U	60	32	24
91-94-1	3,3'-Dichlorobenzidine	96	U	120	96	22
120-83-2	2,4-Dichlorophenol	32	U	180	32	24
84-66-2	Diethyl phthalate	32	U	84	32	19
105-67-9	2,4-Dimethylphenol	96	U	180	96	24
131-11-3	Dimethyl phthalate	32	U	84	32	20
84-74-2	Di-n-butyl phthalate	32	U	84	32	18

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0006-0001-SO | Lab Sample ID: 240-22756-5

Matrix: Solid | Lab File ID: 30419022.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 10:13

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.28(g) | Date Analyzed: 04/19/2013 18:31

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	96	U	180	96	96
51-28-5	2,4-Dinitrophenol	96	U	400	96	96
121-14-2	2,4-Dinitrotoluene	32	U	240	32	32
606-20-2	2,6-Dinitrotoluene	32	U	240	32	25
117-84-0	Di-n-octyl phthalate	32	U	84	32	32
206-44-0	Fluoranthene	4.0	U	8.0	4.0	4.0
86-73-7	Fluorene	4.0	U	8.0	4.0	4.0
118-74-1	Hexachlorobenzene	4.0	U	8.0	4.0	2.5
87-68-3	Hexachlorobutadiene	32	U	60	32	32
77-47-4	Hexachlorocyclopentadiene	32	U	400	32	32
67-72-1	Hexachloroethane	32	U	60	32	11
193-39-5	Indeno[1,2,3-cd]pyrene	4.0	U	8.0	4.0	4.0
78-59-1	Isophorone	32	U	60	32	16
91-57-6	2-Methylnaphthalene	4.0	U	8.0	4.0	4.0
95-48-7	2-Methylphenol	96	U	240	96	96
15831-10-4	3 & 4 Methylphenol	96	U	480	96	24
91-20-3	Naphthalene	4.0	U	8.0	4.0	4.0
88-74-4	2-Nitroaniline	32	U	240	32	11
99-09-2	3-Nitroaniline	96	U	240	96	19
100-01-6	4-Nitroaniline	32	U	240	32	31
98-95-3	Nitrobenzene	4.0	U	120	4.0	2.6
88-75-5	2-Nitrophenol	32	U	60	32	32
100-02-7	4-Nitrophenol	96	U	400	96	96
621-64-7	N-Nitrosodi-n-propylamine	32	U	60	32	32
86-30-6	N-Nitrosodiphenylamine	32	U	60	32	25
87-86-5	Pentachlorophenol	96	U	180	96	96
85-01-8	Phenanthrene	4.0	U	8.0	4.0	4.0
108-95-2	Phenol	32	U	60	32	32
129-00-0	Pyrene	4.0	U	8.0	4.0	4.0
120-82-1	1,2,4-Trichlorobenzene	32	U	60	32	32
95-95-4	2,4,5-Trichlorophenol	32	U	180	32	30
88-06-2	2,4,6-Trichlorophenol	96	U	180	96	96

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0006-0001-SO | Lab Sample ID: 240-22756-5

Matrix: Solid | Lab File ID: 30419022.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 10:13

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.28(g) | Date Analyzed: 04/19/2013 18:31

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	65		45-105
367-12-4	2-Fluorophenol (Surr)	76		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	67		35-100
4165-62-2	Phenol-d5 (Surr)	76		40-100
1718-51-0	Terphenyl-d14 (Surr)	62		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	39		35-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419022.D
Lims ID: 240-22756-E-5-A
Client ID: 074SB-0006-0001-SO
Inject. Date: 19-Apr-2013 18:31:30
Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0019044-022
Misc. Info.: 240-22756-E-5-A
Operator: 001710
Instrument ID: A4HP10
Injection Vol: 1.0 ul
ALS Bottle#: 22
Lims Batch ID: 82653
Lims Sample ID: 22
Detector: MS SCAN

Method: \\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m
Last Update: 22-Apr-2013 13:55:06
Calib Date: 12-Apr-2013 00:58:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: 5% phenyl
Column Dia: 0.18 mm
Process Host: XAWRK022

First Level Reviewer: gruberj
Date: 22-Apr-2013 11:35:31

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.848	5.848	0.0	98	125848	4.00	
* 2 Naphthalene-d8	136	6.971	6.970	0.001	99	485171	4.00	
* 3 Acenaphthene-d10	164	8.475	8.475	0.0	87	294473	4.00	
* 4 Phenanthrene-d10	188	9.738	9.738	0.0	97	486461	4.00	
* 5 Chrysene-d12	240	12.294	12.294	0.0	81	539865	4.00	
* 6 Perylene-d12	264	14.368	14.368	0.0	83	450420	4.00	
$ 7 2-Fluorophenol	112	4.585	4.573	0.012	91	415891	11.4	
$ 8 Phenol-d5	99	5.496	5.490	0.006	100	552560	11.4	
$ 9 Nitrobenzene-d5	82	6.336	6.336	0.0	89	305158	6.73	
$ 10 2-Fluorobiphenyl (Surr)	172	7.887	7.887	0.0	99	618690	6.52	
$ 11 2,4,6-Tribromophenol	330	9.139	9.144	-0.005	84	62963	5.84	
$ 12 Terphenyl-d14	244	11.101	11.101	0.0	98	658938	6.20	
43 Phenol	94		5.502					9
45 Bis(2-chloroethyl)ether	93		5.601					9
47 2-Chlorophenol	128		5.648					
48 1,3-Dichlorobenzene	146		5.795					
49 1,4-Dichlorobenzene	146		5.866					
50 Benzyl alcohol	108		5.960					9
51 1,2-Dichlorobenzene	146		6.001					
52 2-Methylphenol	108		6.054					9
54 2,2'-oxybis[1-chloropropane]	45		6.083					
56 3 & 4 Methylphenol	108		6.183					9
57 N-Nitrosodi-n-propylamine	70		6.195					9
61 Hexachloroethane	117		6.307					9
62 Nitrobenzene	77		6.354					
64 Isophorone	82		6.559					
66 2-Nitrophenol	139		6.636					
65 2,4-Dimethylphenol	107		6.653					
70 Benzoic acid	122		6.712					9
69 Bis(2-chloroethoxy)methane	93		6.741					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
72 2,4-Dichlorophenol	162		6.835					
73 1,2,4-Trichlorobenzene	180		6.918					
74 Naphthalene	128		6.988					9
75 4-Chloroaniline	127		7.023					
78 Hexachlorobutadiene	225		7.088					
85 4-Chloro-3-methylphenol	107		7.423					
87 2-Methylnaphthalene	142		7.582					9
89 Hexachlorocyclopentadiene	237		7.711					
93 2,4,6-Trichlorophenol	196		7.811					
94 2,4,5-Trichlorophenol	196		7.846					
100 2-Chloronaphthalene	162		7.999					9
102 2-Nitroaniline	65		8.075					
105 Dimethyl phthalate	163		8.216					9
107 2,6-Dinitrotoluene	165		8.275					9
109 Acenaphthylene	152		8.357					
110 3-Nitroaniline	138		8.422					9
112 Acenaphthene	153		8.504					
111 2,4-Dinitrophenol	184		8.510					
113 4-Nitrophenol	109		8.539					
114 2,4-Dinitrotoluene	165		8.616					9
116 Dibenzofuran	168		8.645					
121 Diethyl phthalate	149		8.815					
123 4-Chlorophenyl phenyl ether	204		8.927					9
126 Fluorene	166		8.939					
125 4-Nitroaniline	138		8.939					
128 4,6-Dinitro-2-methylphenol	198		8.962					
129 N-Nitrosodiphenylamine	169		9.027					
139 4-Bromophenyl phenyl ether	248		9.344					
141 Hexachlorobenzene	284		9.403					
144 Pentachlorophenol	266		9.567					
149 Phenanthrene	178		9.761					
150 Anthracene	178		9.803					
152 Carbazole	167		9.932					
155 Di-n-butyl phthalate	149	10.190	10.196	-0.006	53	26401	0.2088	
160 Fluoranthene	202		10.772					
162 Pyrene	202		10.984					
170 Butyl benzyl phthalate	149		11.583					9
177 3,3'-Dichlorobenzidine	252		12.229					9
175 Bis(2-ethylhexyl) phthalate	149	12.259	12.258	0.001	87	45562	0.6097	
179 Benzo[a]anthracene	228		12.282					
180 Chrysene	228		12.329					
182 Di-n-octyl phthalate	149		13.175					
184 Benzo[b]fluoranthene	252		13.786					
185 Benzo[k]fluoranthene	252		13.827					
186 Benzo[a]pyrene	252		14.286					
190 Indeno[1,2,3-cd]pyrene	276		16.031					
191 Dibenz(a,h)anthracene	278		16.066					
192 Benzo[g,h,i]perylene	276		16.477					9

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

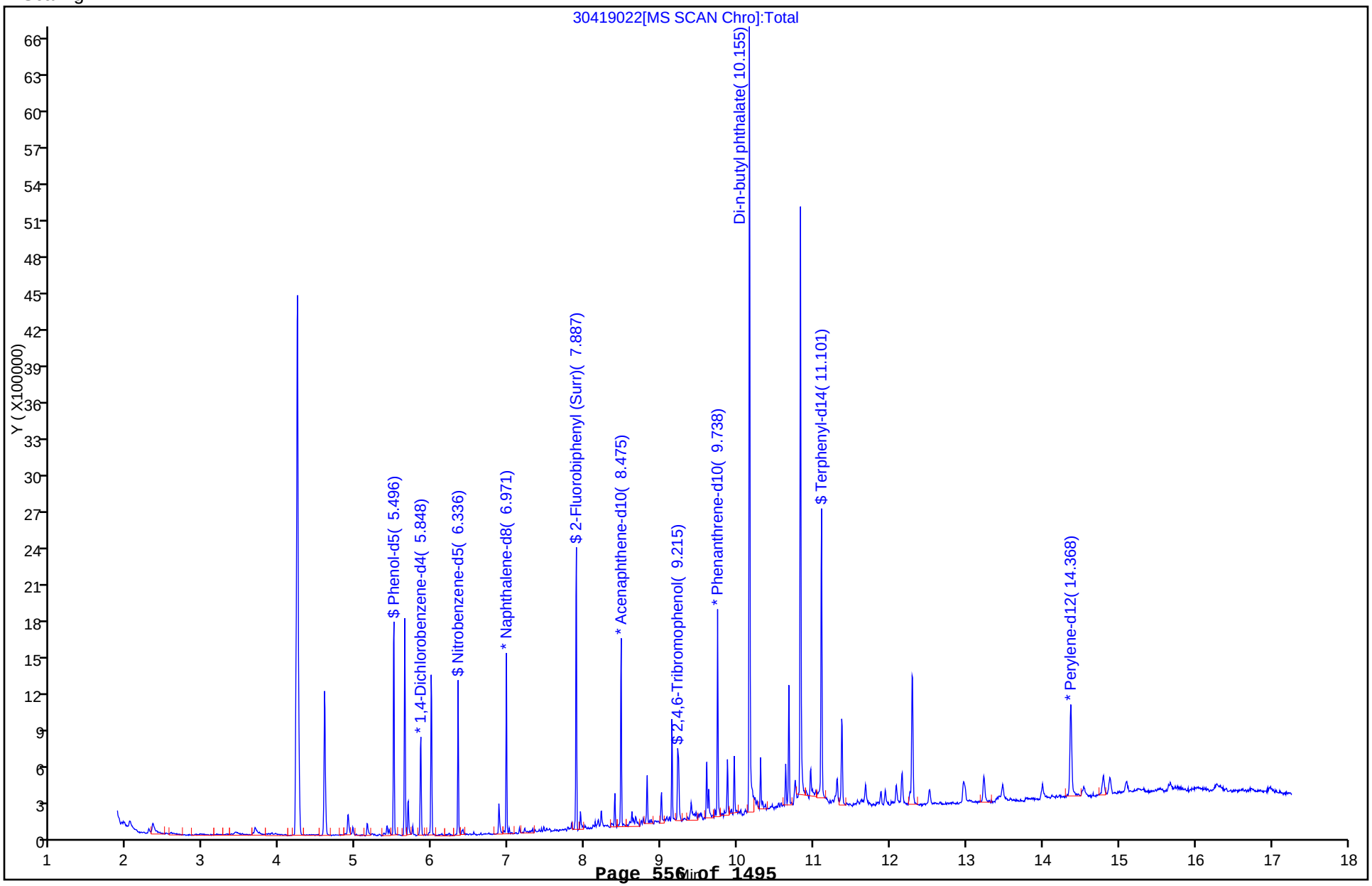
Report Date: 22-Apr-2013 13:55:32 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419022.D

Injection Date:	19-Apr-2013 18:31:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0006-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	22
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



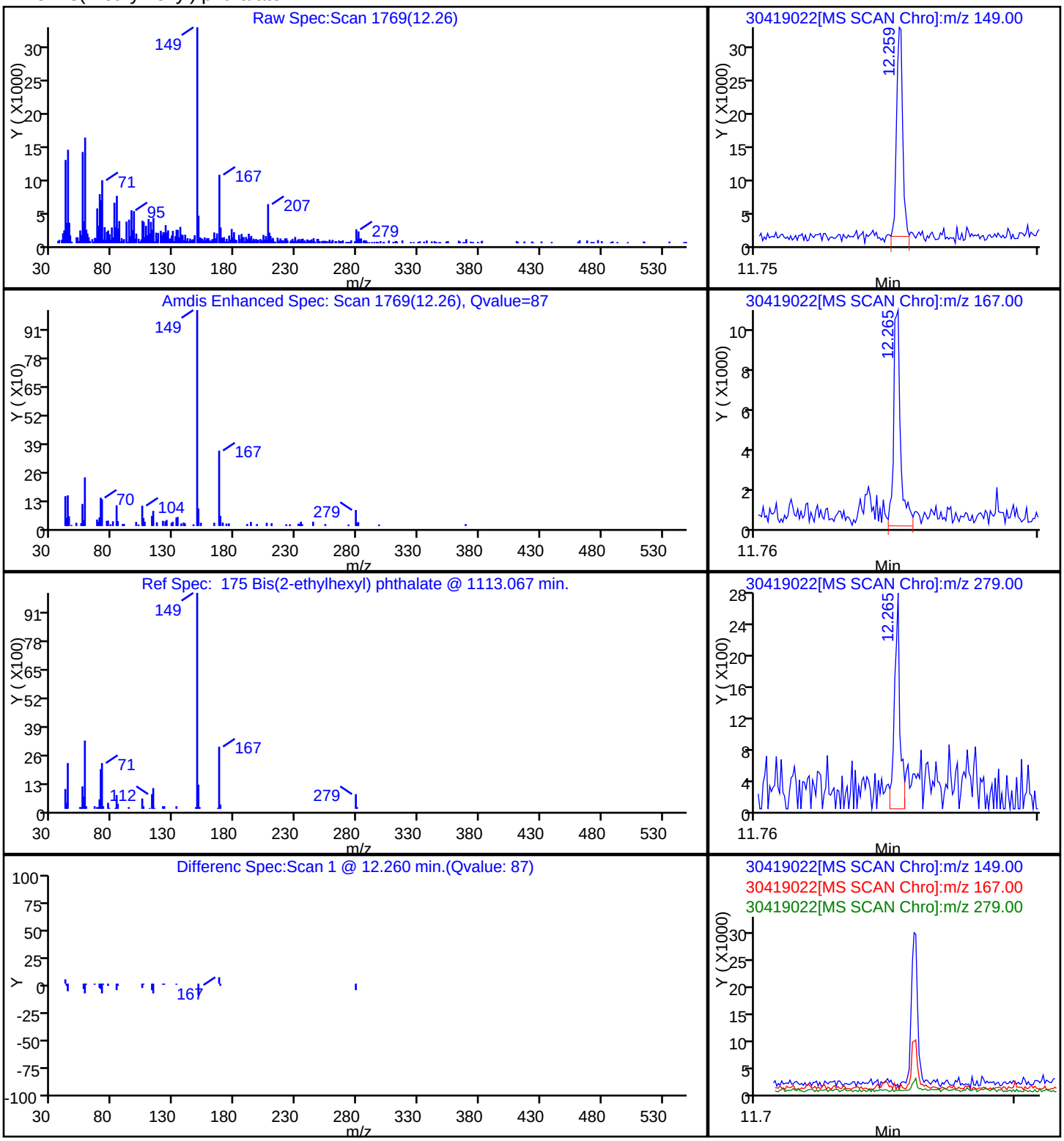
Report Date: 22-Apr-2013 13:55:32 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419022.D

Injection Date:	19-Apr-2013 18:31:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0006-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	22
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

175 Bis(2-ethylhexyl) phthalate



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0007-0001-SO | Lab Sample ID: 240-22756-6

Matrix: Solid | Lab File ID: 30419024.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 11:33

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.39(g) | Date Analyzed: 04/19/2013 19:18

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	3.8	U	7.7	3.8	3.8
208-96-8	Acenaphthylene	3.8	U	7.7	3.8	3.8
120-12-7	Anthracene	3.8	U	7.7	3.8	3.8
56-55-3	Benzo[a]anthracene	3.8	U	7.7	3.8	3.8
50-32-8	Benzo[a]pyrene	3.8	U	7.7	3.8	3.8
205-99-2	Benzo[b]fluoranthene	3.8	U	7.7	3.8	3.8
191-24-2	Benzo[g,h,i]perylene	3.8	U	7.7	3.8	3.8
65-85-0	Benzoic acid	380	U	760	380	380
207-08-9	Benzo[k]fluoranthene	3.8	U	7.7	3.8	3.8
100-51-6	Benzyl alcohol	31	U	380	31	24
111-91-1	Bis(2-chloroethoxy)methane	31	U	110	31	25
111-44-4	Bis(2-chloroethyl)ether	3.8	U	110	3.8	2.3
108-60-1	bis (2-chloroisopropyl) ether	31	U	110	31	11
117-81-7	Bis(2-ethylhexyl) phthalate	26	J	80	31	22
101-55-3	4-Bromophenyl phenyl ether	31	U	57	31	15
85-68-7	Butyl benzyl phthalate	31	U	80	31	11
86-74-8	Carbazole	31	U	57	31	31
106-47-8	4-Chloroaniline	31	U	170	31	20
59-50-7	4-Chloro-3-methylphenol	31	U	170	31	24
91-58-7	2-Chloronaphthalene	3.8	U	57	3.8	3.8
95-57-8	2-Chlorophenol	31	U	57	31	31
7005-72-3	4-Chlorophenyl phenyl ether	31	U	57	31	15
218-01-9	Chrysene	3.8	U	7.7	3.8	1.3
53-70-3	Dibenz(a,h)anthracene	3.8	U	7.7	3.8	3.8
132-64-9	Dibenzofuran	3.8	U	57	3.8	3.8
95-50-1	1,2-Dichlorobenzene	31	U	57	31	11
541-73-1	1,3-Dichlorobenzene	31	U	57	31	13
106-46-7	1,4-Dichlorobenzene	31	U	57	31	23
91-94-1	3,3'-Dichlorobenzidine	92	U	110	92	21
120-83-2	2,4-Dichlorophenol	31	U	170	31	23
84-66-2	Diethyl phthalate	31	U	80	31	18
105-67-9	2,4-Dimethylphenol	92	U	170	92	23
131-11-3	Dimethyl phthalate	31	U	80	31	20
84-74-2	Di-n-butyl phthalate	31	U	80	31	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0007-0001-SO | Lab Sample ID: 240-22756-6

Matrix: Solid | Lab File ID: 30419024.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 11:33

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.39(g) | Date Analyzed: 04/19/2013 19:18

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	92	U	170	92	92
51-28-5	2,4-Dinitrophenol	92	U	380	92	92
121-14-2	2,4-Dinitrotoluene	31	U	230	31	31
606-20-2	2,6-Dinitrotoluene	31	U	230	31	24
117-84-0	Di-n-octyl phthalate	31	U	80	31	31
206-44-0	Fluoranthene	3.8	U	7.7	3.8	3.8
86-73-7	Fluorene	3.8	U	7.7	3.8	3.8
118-74-1	Hexachlorobenzene	3.8	U	7.7	3.8	2.4
87-68-3	Hexachlorobutadiene	31	U	57	31	31
77-47-4	Hexachlorocyclopentadiene	31	U	380	31	31
67-72-1	Hexachloroethane	31	U	57	31	10
193-39-5	Indeno[1,2,3-cd]pyrene	3.8	U	7.7	3.8	3.8
78-59-1	Isophorone	31	U	57	31	15
91-57-6	2-Methylnaphthalene	3.8	U	7.7	3.8	3.8
95-48-7	2-Methylphenol	92	U	230	92	92
15831-10-4	3 & 4 Methylphenol	92	U	460	92	23
91-20-3	Naphthalene	3.8	U	7.7	3.8	3.8
88-74-4	2-Nitroaniline	31	U	230	31	10
99-09-2	3-Nitroaniline	92	U	230	92	18
100-01-6	4-Nitroaniline	31	U	230	31	30
98-95-3	Nitrobenzene	3.8	U	110	3.8	2.5
88-75-5	2-Nitrophenol	31	U	57	31	31
100-02-7	4-Nitrophenol	92	U	380	92	92
621-64-7	N-Nitrosodi-n-propylamine	31	U	57	31	31
86-30-6	N-Nitrosodiphenylamine	31	U	57	31	24
87-86-5	Pentachlorophenol	92	U	170	92	92
85-01-8	Phenanthrene	3.8	U	7.7	3.8	3.8
108-95-2	Phenol	31	U	57	31	31
129-00-0	Pyrene	3.8	U	7.7	3.8	3.8
120-82-1	1,2,4-Trichlorobenzene	31	U	57	31	31
95-95-4	2,4,5-Trichlorophenol	31	U	170	31	29
88-06-2	2,4,6-Trichlorophenol	92	U	170	92	92

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0007-0001-SO | Lab Sample ID: 240-22756-6

Matrix: Solid | Lab File ID: 30419024.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 11:33

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.39(g) | Date Analyzed: 04/19/2013 19:18

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	72		45-105
367-12-4	2-Fluorophenol (Surr)	84		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	76		35-100
4165-62-2	Phenol-d5 (Surr)	83		40-100
1718-51-0	Terphenyl-d14 (Surr)	62		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	41		35-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419024.D
Lims ID: 240-22756-B-6-A
Client ID: 074SB-0007-0001-SO
Inject. Date: 19-Apr-2013 19:18:30
Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0019044-024
Misc. Info.: 240-22756-B-6-A
Operator: 001710
Instrument ID: A4HP10
Injection Vol: 1.0 ul
ALS Bottle#: 24
Lims Batch ID: 82653
Lims Sample ID: 24
Detector: MS SCAN

Method: \\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m
Last Update: 22-Apr-2013 13:55:06
Calib Date: 12-Apr-2013 00:58:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: 5% phenyl
Column Dia: 0.18 mm
Process Host: XAWRK022

First Level Reviewer: gruberj
Date: 22-Apr-2013 11:36:07

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.848	5.848	0.0	98	122518	4.00	
* 2 Naphthalene-d8	136	6.971	6.970	0.0	100	465872	4.00	
* 3 Acenaphthene-d10	164	8.475	8.475	0.0	88	276742	4.00	
* 4 Phenanthrene-d10	188	9.738	9.738	0.0	97	475224	4.00	
* 5 Chrysene-d12	240	12.294	12.294	0.0	84	527381	4.00	
* 6 Perylene-d12	264	14.368	14.368	0.0	86	442748	4.00	
$ 7 2-Fluorophenol	112	4.585	4.573	0.012	92	445210	12.6	
$ 8 Phenol-d5	99	5.496	5.490	0.006	99	584629	12.4	
$ 9 Nitrobenzene-d5	82	6.336	6.336	0.0	90	331523	7.61	
$ 10 2-Fluorobiphenyl (Surr)	172	7.887	7.887	0.0	99	643007	7.21	
$ 11 2,4,6-Tribromophenol	330	9.139	9.144	-0.005	83	61865	6.11	
$ 12 Terphenyl-d14	244	11.101	11.101	0.0	98	639634	6.16	
43 Phenol	94		5.502					
45 Bis(2-chloroethyl)ether	93		5.601					9
47 2-Chlorophenol	128		5.648					
48 1,3-Dichlorobenzene	146		5.795					
49 1,4-Dichlorobenzene	146		5.866					
50 Benzyl alcohol	108		5.960					9
51 1,2-Dichlorobenzene	146		6.001					
52 2-Methylphenol	108		6.054					9
54 2,2'-oxybis[1-chloropropane]	45		6.083					
56 3 & 4 Methylphenol	108		6.183					9
57 N-Nitrosodi-n-propylamine	70		6.195					
61 Hexachloroethane	117		6.307					
62 Nitrobenzene	77		6.354					
64 Isophorone	82		6.559					9
66 2-Nitrophenol	139		6.636					
65 2,4-Dimethylphenol	107		6.653					
70 Benzoic acid	122		6.712					9
69 Bis(2-chloroethoxy)methane	93		6.741					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
72 2,4-Dichlorophenol	162		6.835					
73 1,2,4-Trichlorobenzene	180		6.918					
74 Naphthalene	128		6.988					9
75 4-Chloroaniline	127		7.023					
78 Hexachlorobutadiene	225		7.088					
85 4-Chloro-3-methylphenol	107		7.423					
87 2-Methylnaphthalene	142		7.582					9
89 Hexachlorocyclopentadiene	237		7.711					
93 2,4,6-Trichlorophenol	196		7.811					
94 2,4,5-Trichlorophenol	196		7.846					
100 2-Chloronaphthalene	162		7.999					9
102 2-Nitroaniline	65		8.075					
105 Dimethyl phthalate	163		8.216					9
107 2,6-Dinitrotoluene	165		8.275					9
109 Acenaphthylene	152		8.357					9
110 3-Nitroaniline	138		8.422					
112 Acenaphthene	153		8.504					
111 2,4-Dinitrophenol	184		8.510					
113 4-Nitrophenol	109		8.539					
114 2,4-Dinitrotoluene	165		8.616					9
116 Dibenzofuran	168		8.645					9
121 Diethyl phthalate	149		8.815					9
123 4-Chlorophenyl phenyl ether	204		8.927					
126 Fluorene	166		8.939					9
125 4-Nitroaniline	138		8.939					
128 4,6-Dinitro-2-methylphenol	198		8.962					
129 N-Nitrosodiphenylamine	169		9.027					9
139 4-Bromophenyl phenyl ether	248		9.344					
141 Hexachlorobenzene	284		9.403					
144 Pentachlorophenol	266		9.567					
149 Phenanthrene	178		9.761					9
150 Anthracene	178		9.803					
152 Carbazole	167		9.932					
155 Di-n-butyl phthalate	149	10.196	10.196	0.0	68	26366	0.2135	
160 Fluoranthene	202		10.772					
162 Pyrene	202		10.984					
170 Butyl benzyl phthalate	149		11.583					
177 3,3'-Dichlorobenzidine	252		12.229					9
175 Bis(2-ethylhexyl) phthalate	149	12.259	12.258	0.0	85	24965	0.3420	
179 Benzo[a]anthracene	228		12.282					9
180 Chrysene	228		12.329					9
182 Di-n-octyl phthalate	149		13.175					
184 Benzo[b]fluoranthene	252		13.786					9
185 Benzo[k]fluoranthene	252		13.827					9
186 Benzo[a]pyrene	252		14.286					9
190 Indeno[1,2,3-cd]pyrene	276		16.031					9
191 Dibenz(a,h)anthracene	278		16.066					9
192 Benzo[g,h,i]perylene	276		16.477					9

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

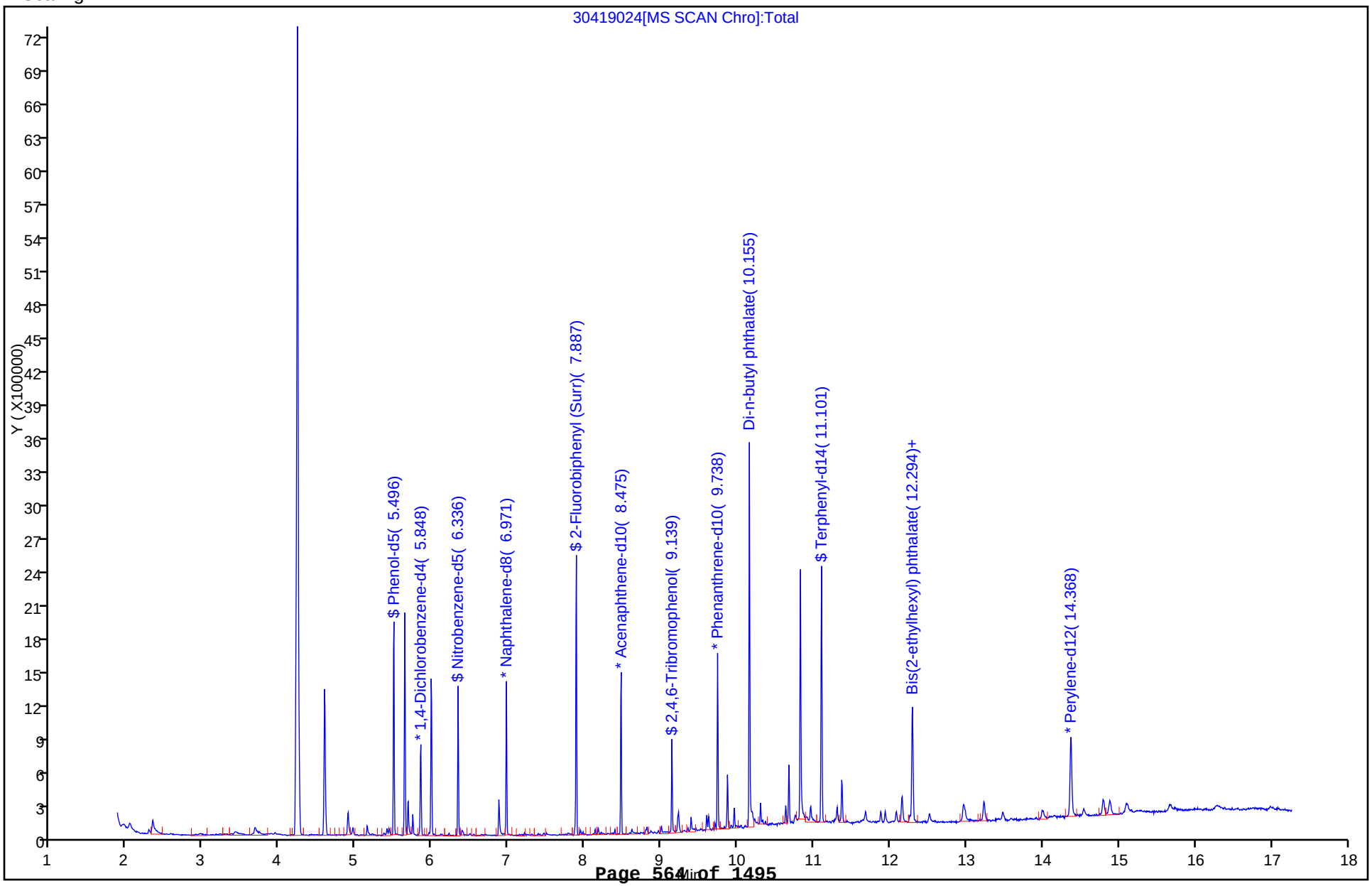
Report Date: 22-Apr-2013 13:55:33 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419024.D

Injection Date:	19-Apr-2013 19:18:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0007-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	24
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



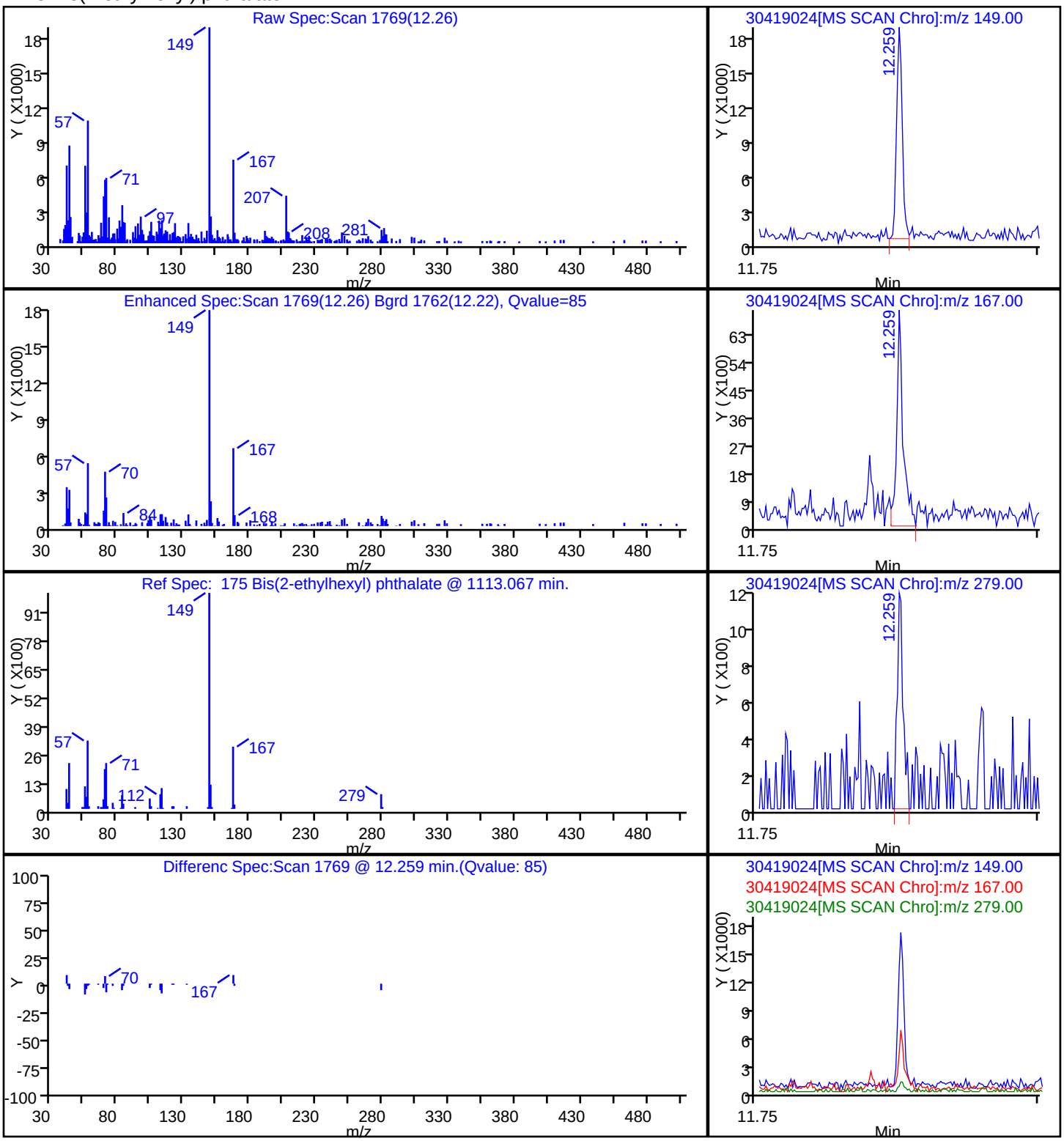
Report Date: 22-Apr-2013 13:55:34 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419024.D

Injection Date:	19-Apr-2013 19:18:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0007-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	24
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

175 Bis(2-ethylhexyl) phthalate



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0008-0001-SO | Lab Sample ID: 240-22756-7

Matrix: Solid | Lab File ID: 30419027.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 12:01

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.10(g) | Date Analyzed: 04/19/2013 20:28

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	4.0	U	8.0	4.0	4.0
208-96-8	Acenaphthylene	4.0	U	8.0	4.0	4.0
120-12-7	Anthracene	5.0	J	8.0	4.0	4.0
56-55-3	Benzo[a]anthracene	5.3	J	8.0	4.0	4.0
50-32-8	Benzo[a]pyrene	4.0	U	8.0	4.0	4.0
205-99-2	Benzo[b]fluoranthene	5.3	J	8.0	4.0	4.0
191-24-2	Benzo[g,h,i]perylene	4.0	U	8.0	4.0	4.0
65-85-0	Benzoic acid	400	U	800	400	400
207-08-9	Benzo[k]fluoranthene	4.0	U	8.0	4.0	4.0
100-51-6	Benzyl alcohol	33	U	400	33	25
111-91-1	Bis(2-chloroethoxy)methane	33	U	120	33	27
111-44-4	Bis(2-chloroethyl)ether	4.0	U	120	4.0	2.4
108-60-1	bis (2-chloroisopropyl) ether	33	U	120	33	11
117-81-7	Bis(2-ethylhexyl) phthalate	35	J	84	33	23
101-55-3	4-Bromophenyl phenyl ether	33	U	60	33	16
85-68-7	Butyl benzyl phthalate	33	U	84	33	12
86-74-8	Carbazole	33	U	60	33	33
106-47-8	4-Chloroaniline	33	U	180	33	20
59-50-7	4-Chloro-3-methylphenol	33	U	180	33	25
91-58-7	2-Chloronaphthalene	4.0	U	60	4.0	4.0
95-57-8	2-Chlorophenol	33	U	60	33	33
7005-72-3	4-Chlorophenyl phenyl ether	33	U	60	33	16
218-01-9	Chrysene	5.9	J	8.0	4.0	1.3
53-70-3	Dibenz(a,h)anthracene	4.0	U	8.0	4.0	4.0
132-64-9	Dibenzofuran	4.0	U	60	4.0	4.0
95-50-1	1,2-Dichlorobenzene	33	U	60	33	12
541-73-1	1,3-Dichlorobenzene	33	U	60	33	13
106-46-7	1,4-Dichlorobenzene	33	U	60	33	24
91-94-1	3,3'-Dichlorobenzidine	96	U	120	96	22
120-83-2	2,4-Dichlorophenol	33	U	180	33	24
84-66-2	Diethyl phthalate	33	U	84	33	19
105-67-9	2,4-Dimethylphenol	96	U	180	96	24
131-11-3	Dimethyl phthalate	33	U	84	33	20
84-74-2	Di-n-butyl phthalate	33	U	84	33	18

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0008-0001-SO | Lab Sample ID: 240-22756-7

Matrix: Solid | Lab File ID: 30419027.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 12:01

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.10(g) | Date Analyzed: 04/19/2013 20:28

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	96	U	180	96	96
51-28-5	2,4-Dinitrophenol	96	U	400	96	96
121-14-2	2,4-Dinitrotoluene	33	U	240	33	33
606-20-2	2,6-Dinitrotoluene	33	U	240	33	25
117-84-0	Di-n-octyl phthalate	33	U	84	33	33
206-44-0	Fluoranthene	15		8.0	4.0	4.0
86-73-7	Fluorene	13		8.0	4.0	4.0
118-74-1	Hexachlorobenzene	4.0	U	8.0	4.0	2.5
87-68-3	Hexachlorobutadiene	33	U	60	33	33
77-47-4	Hexachlorocyclopentadiene	33	U	400	33	33
67-72-1	Hexachloroethane	33	U	60	33	11
193-39-5	Indeno[1,2,3-cd]pyrene	4.0	U	8.0	4.0	4.0
78-59-1	Isophorone	33	U	60	33	16
91-57-6	2-Methylnaphthalene	15		8.0	4.0	4.0
95-48-7	2-Methylphenol	96	U	240	96	96
15831-10-4	3 & 4 Methylphenol	96	U	480	96	24
91-20-3	Naphthalene	4.0	U	8.0	4.0	4.0
88-74-4	2-Nitroaniline	33	U	240	33	11
99-09-2	3-Nitroaniline	96	U	240	96	19
100-01-6	4-Nitroaniline	33	U	240	33	31
98-95-3	Nitrobenzene	4.0	U	120	4.0	2.7
88-75-5	2-Nitrophenol	33	U	60	33	33
100-02-7	4-Nitrophenol	96	U	400	96	96
621-64-7	N-Nitrosodi-n-propylamine	33	U	60	33	33
86-30-6	N-Nitrosodiphenylamine	33	U	60	33	25
87-86-5	Pentachlorophenol	96	U	180	96	96
85-01-8	Phenanthrene	32		8.0	4.0	4.0
108-95-2	Phenol	33	U	60	33	33
129-00-0	Pyrene	13		8.0	4.0	4.0
120-82-1	1,2,4-Trichlorobenzene	33	U	60	33	33
95-95-4	2,4,5-Trichlorophenol	33	U	180	33	30
88-06-2	2,4,6-Trichlorophenol	96	U	180	96	96

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0008-0001-SO | Lab Sample ID: 240-22756-7

Matrix: Solid | Lab File ID: 30419027.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 12:01

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.10(g) | Date Analyzed: 04/19/2013 20:28

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	64		45-105
367-12-4	2-Fluorophenol (Surr)	78		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	70		35-100
4165-62-2	Phenol-d5 (Surr)	76		40-100
1718-51-0	Terphenyl-d14 (Surr)	58		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	48		35-125

Report Date: 22-Apr-2013 13:55:35 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419027.D		
Lims ID:	240-22756-B-7-A	Client ID:	074SB-0008-0001-SO
Inject. Date:	19-Apr-2013 20:28:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0019044-027		
Misc. Info.:	240-22756-B-7-A		
Operator:	001710	Instrument ID:	A4HP10
Injection Vol:	1.0 ul	ALS Bottle#:	27
Lims Batch ID:	82653	Lims Sample ID:	27
Detector:	MS SCAN		
Method:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m		
Last Update:	22-Apr-2013 13:55:06	Calib Date:	12-Apr-2013 00:58:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK022		
First Level Reviewer: gruberj		Date:	22-Apr-2013 11:37:55

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.848	5.848	0.0	97	124717	4.00	
* 2 Naphthalene-d8	136	6.971	6.970	0.0	99	484007	4.00	
* 3 Acenaphthene-d10	164	8.475	8.475	0.0	92	295942	4.00	
* 4 Phenanthrene-d10	188	9.738	9.738	0.0	97	504655	4.00	
* 5 Chrysene-d12	240	12.294	12.294	0.0	79	550982	4.00	
* 6 Perylene-d12	264	14.374	14.368	0.006	85	464301	4.00	
$ 7 2-Fluorophenol	112	4.585	4.573	0.012	91	420844	11.7	
$ 8 Phenol-d5	99	5.496	5.490	0.006	91	547111	11.4	
$ 9 Nitrobenzene-d5	82	6.336	6.336	0.0	87	314748	6.95	
$ 10 2-Fluorobiphenyl (Surr)	172	7.887	7.887	0.0	99	613822	6.43	
$ 11 2,4,6-Tribromophenol	330	9.144	9.144	0.0	84	77660	7.17	
$ 12 Terphenyl-d14	244	11.101	11.101	0.0	98	633983	5.85	
43 Phenol	94		5.502					
45 Bis(2-chloroethyl)ether	93		5.601					9
47 2-Chlorophenol	128		5.648					
48 1,3-Dichlorobenzene	146		5.795					
49 1,4-Dichlorobenzene	146		5.866					
50 Benzyl alcohol	108		5.960					9
51 1,2-Dichlorobenzene	146		6.001					
52 2-Methylphenol	108		6.054					9
54 2,2'-oxybis[1-chloropropane]	45		6.083					
56 3 & 4 Methylphenol	108		6.183					9
57 N-Nitrosodi-n-propylamine	70		6.195					
61 Hexachloroethane	117		6.307					9
62 Nitrobenzene	77		6.354					
64 Isophorone	82		6.559					
66 2-Nitrophenol	139		6.636					9
65 2,4-Dimethylphenol	107		6.653					
70 Benzoic acid	122		6.712					
69 Bis(2-chloroethoxy)methane	93		6.741					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
72 2,4-Dichlorophenol	162		6.835					9
73 1,2,4-Trichlorobenzene	180		6.918					9
74 Naphthalene	128		6.988					
75 4-Chloroaniline	127		7.023					
78 Hexachlorobutadiene	225		7.088					
85 4-Chloro-3-methylphenol	107		7.423					
87 2-Methylnaphthalene	142	7.582	7.582	0.0	73	14327	0.1897	
89 Hexachlorocyclopentadiene	237		7.711					
93 2,4,6-Trichlorophenol	196		7.811					
94 2,4,5-Trichlorophenol	196		7.846					
100 2-Chloronaphthalene	162		7.999					
102 2-Nitroaniline	65		8.075					
105 Dimethyl phthalate	163		8.216					
107 2,6-Dinitrotoluene	165		8.275					
109 Acenaphthylene	152		8.357					
110 3-Nitroaniline	138		8.422					
112 Acenaphthene	153		8.504					
111 2,4-Dinitrophenol	184		8.510					9
113 4-Nitrophenol	109		8.539					
114 2,4-Dinitrotoluene	165		8.616					
116 Dibenzofuran	168		8.645					
121 Diethyl phthalate	149		8.815					9
123 4-Chlorophenyl phenyl ether	204		8.927					
126 Fluorene	166	8.939	8.939	0.0	75	14308	0.1621	
125 4-Nitroaniline	138		8.939					
128 4,6-Dinitro-2-methylphenol	198		8.962					9
129 N-Nitrosodiphenylamine	169		9.027					9
139 4-Bromophenyl phenyl ether	248		9.344					9
141 Hexachlorobenzene	284		9.403					
144 Pentachlorophenol	266		9.567					
149 Phenanthrene	178	9.761	9.761	0.0	66	46497	0.3974	
150 Anthracene	178	9.803	9.803	0.001	51	7307	0.0628	
152 Carbazole	167		9.932					
155 Di-n-butyl phthalate	149	10.196	10.196	0.0	53	23186	0.1768	
160 Fluoranthene	202	10.772	10.772	0.0	85	25400	0.1840	
162 Pyrene	202	10.984	10.984	0.0	89	23813	0.1674	
170 Butyl benzyl phthalate	149		11.583					9
177 3,3'-Dichlorobenzidine	252		12.229					9
175 Bis(2-ethylhexyl) phthalate	149	12.259	12.258	0.001	88	33333	0.4370	
179 Benzo[a]anthracene	228	12.282	12.282	0.0	42	8968	0.0654	
180 Chrysene	228	12.329	12.329	0.0	21	9175	0.0729	
182 Di-n-octyl phthalate	149		13.175					
184 Benzo[b]fluoranthene	252	13.792	13.786	0.006	71	8173	0.0656	
185 Benzo[k]fluoranthene	252		13.827					
186 Benzo[a]pyrene	252		14.286					
190 Indeno[1,2,3-cd]pyrene	276		16.031					
191 Dibenz(a,h)anthracene	278		16.066					
192 Benzo[g,h,i]perylene	276		16.477					

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

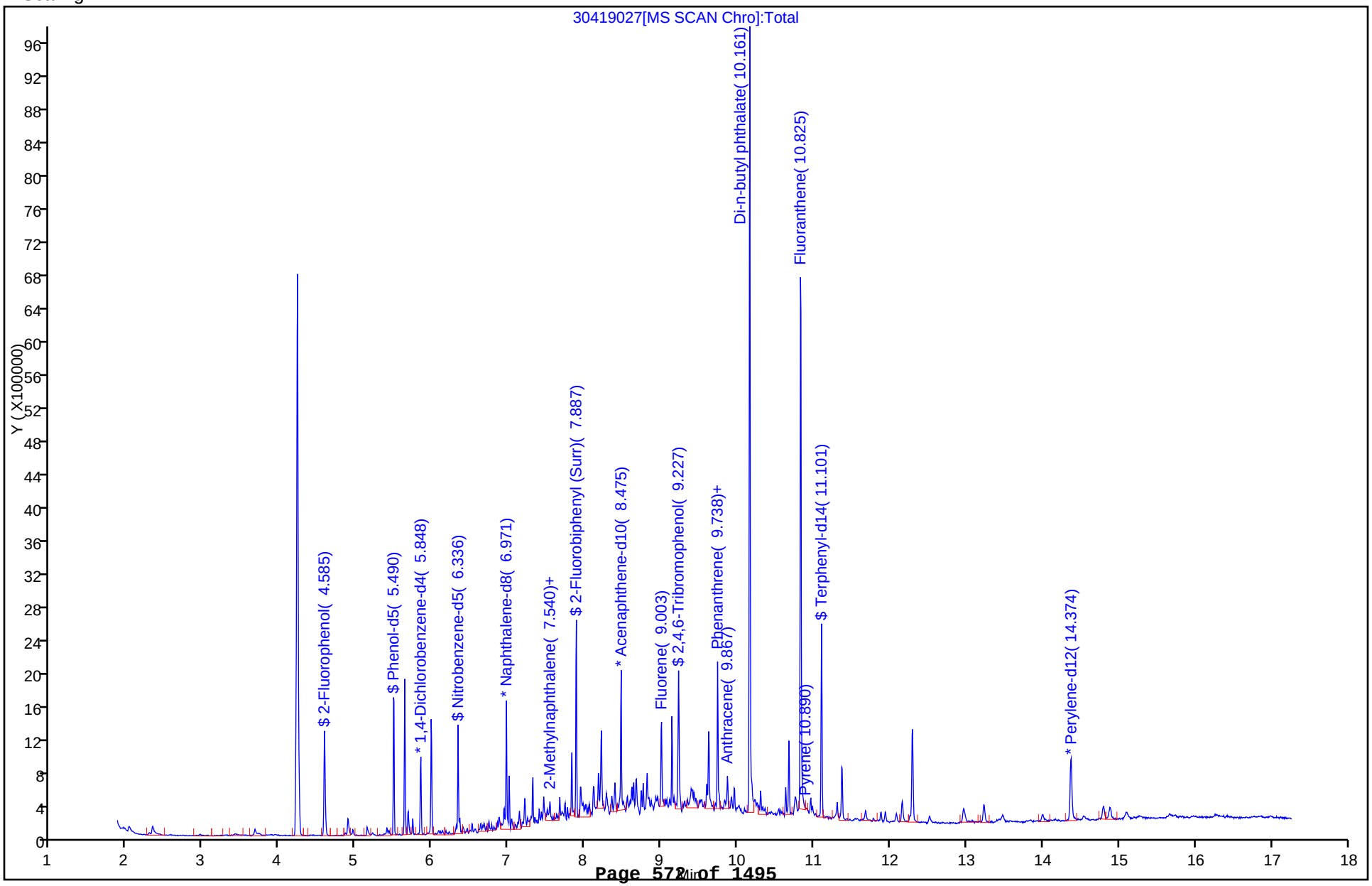
Report Date: 22-Apr-2013 13:55:35 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419027.D

Injection Date:	19-Apr-2013 20:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0008-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	27
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



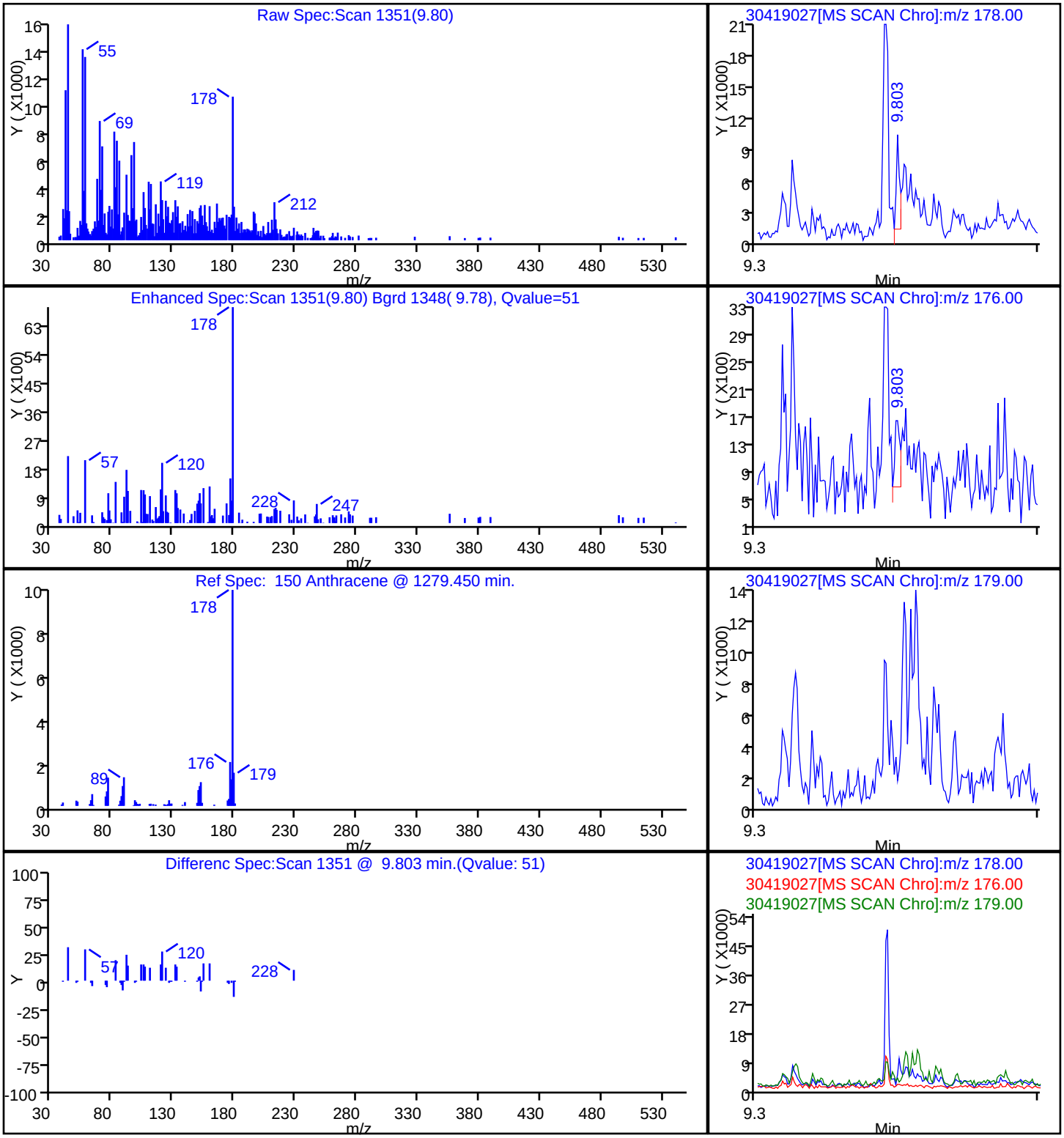
Report Date: 22-Apr-2013 13:55:35 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419027.D

Injection Date:	19-Apr-2013 20:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0008-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	27
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

150 Anthracene



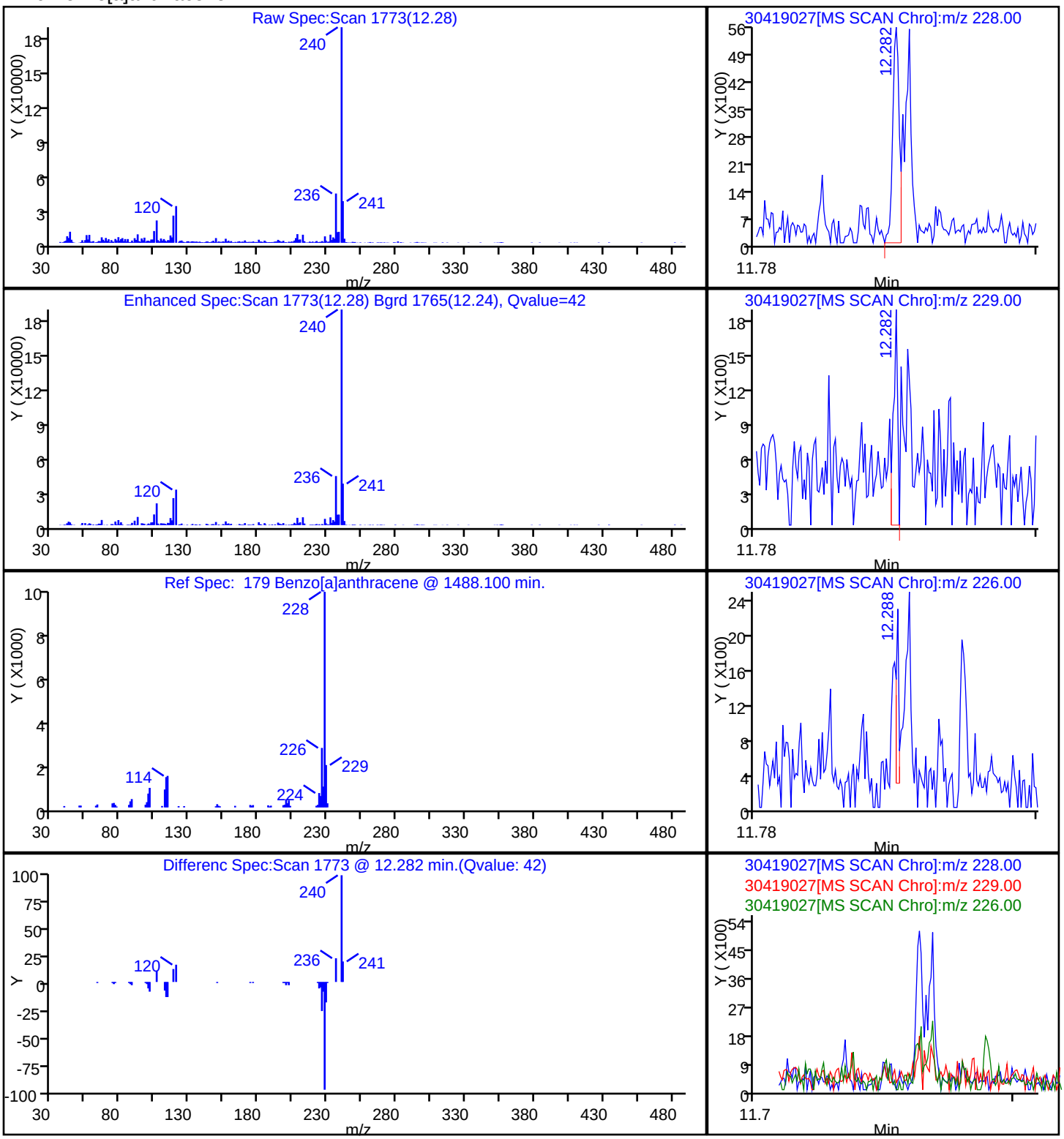
Report Date: 22-Apr-2013 13:55:36 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419027.D

Injection Date:	19-Apr-2013 20:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0008-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	27
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

179 Benzo[a]anthracene



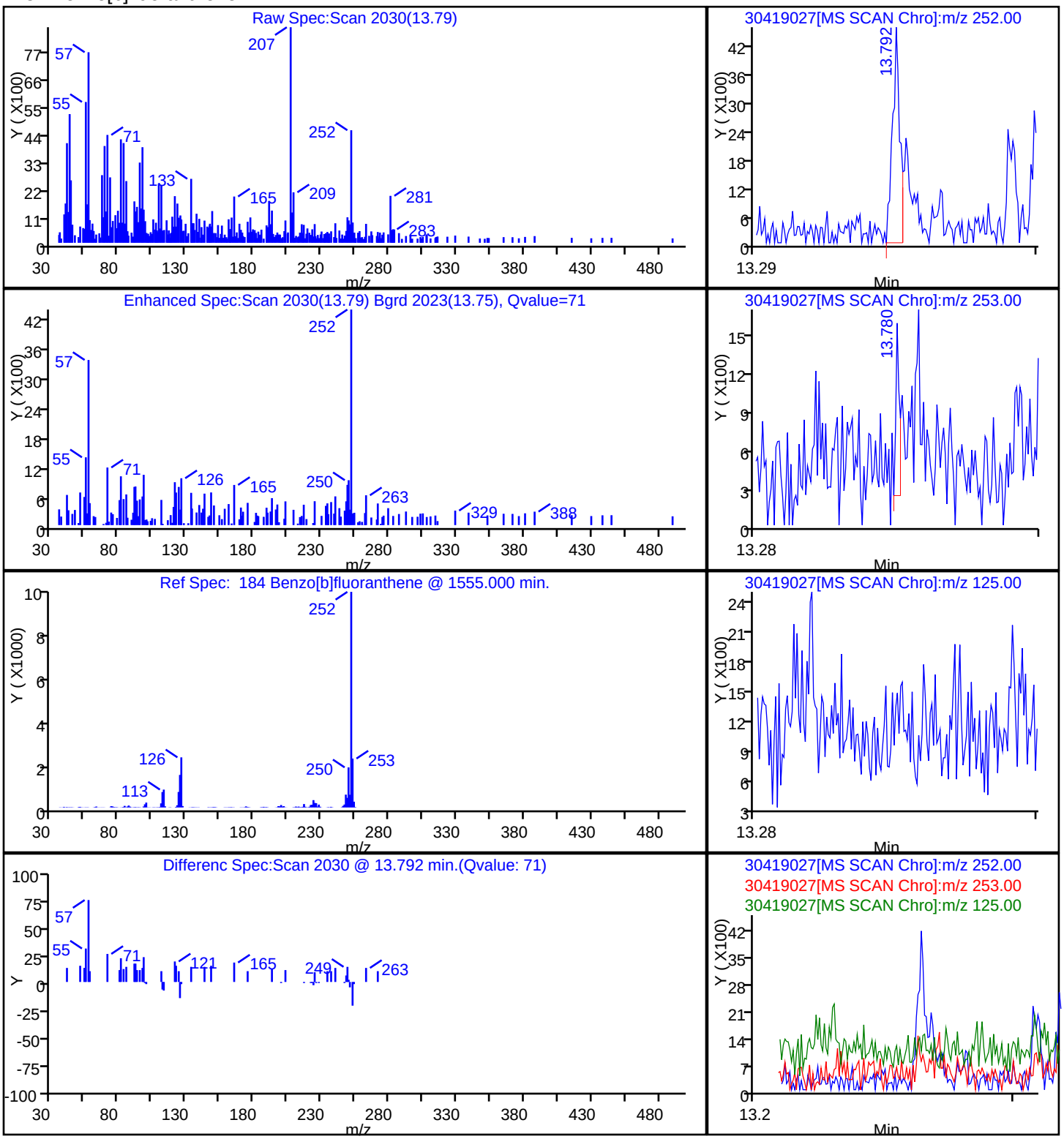
Report Date: 22-Apr-2013 13:55:36 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419027.D

Injection Date:	19-Apr-2013 20:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0008-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	27
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

184 Benzo[b]fluoranthene



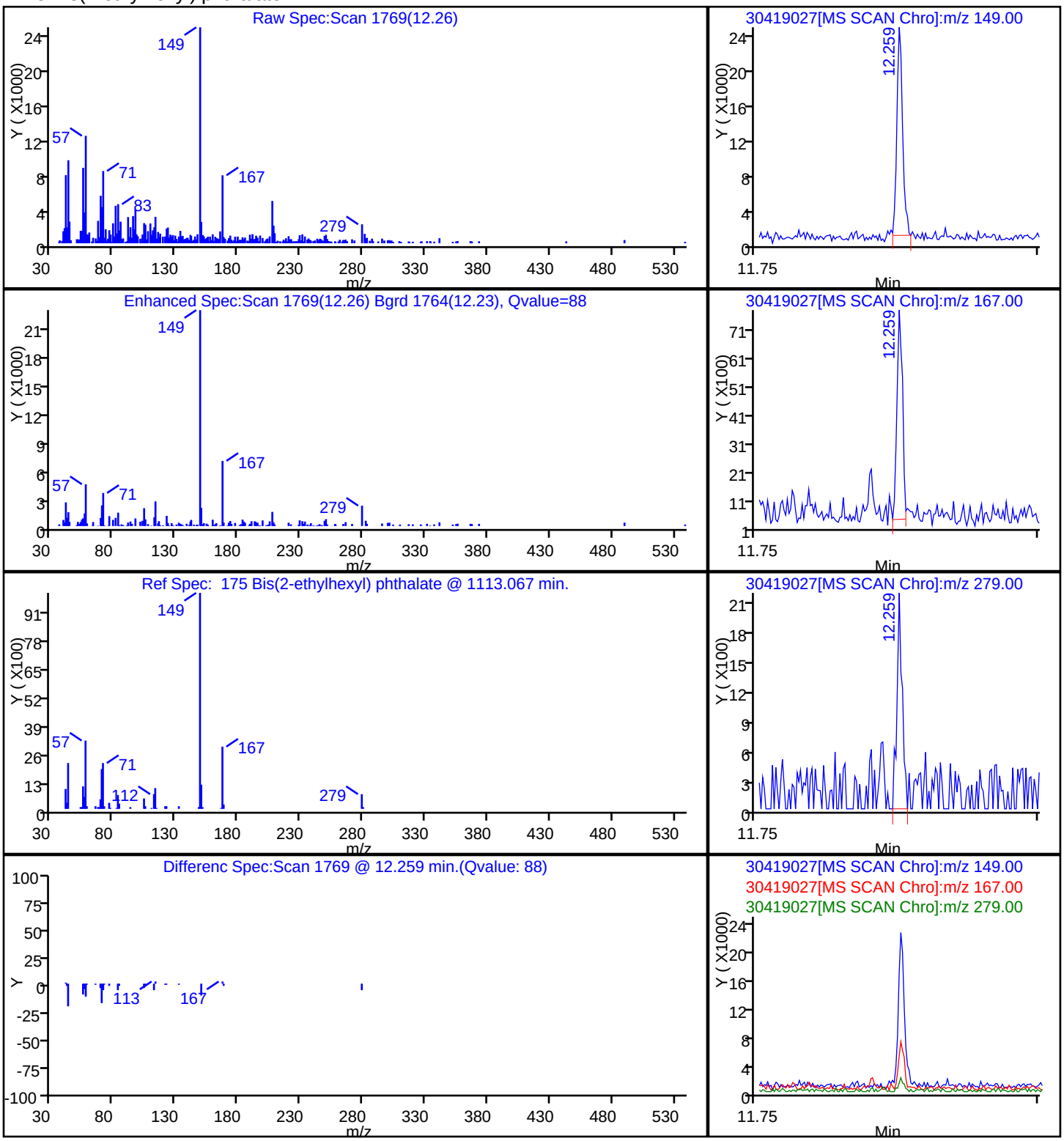
Report Date: 22-Apr-2013 13:55:36 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419027.D

Injection Date:	19-Apr-2013 20:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0008-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	27
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

175 Bis(2-ethylhexyl) phthalate



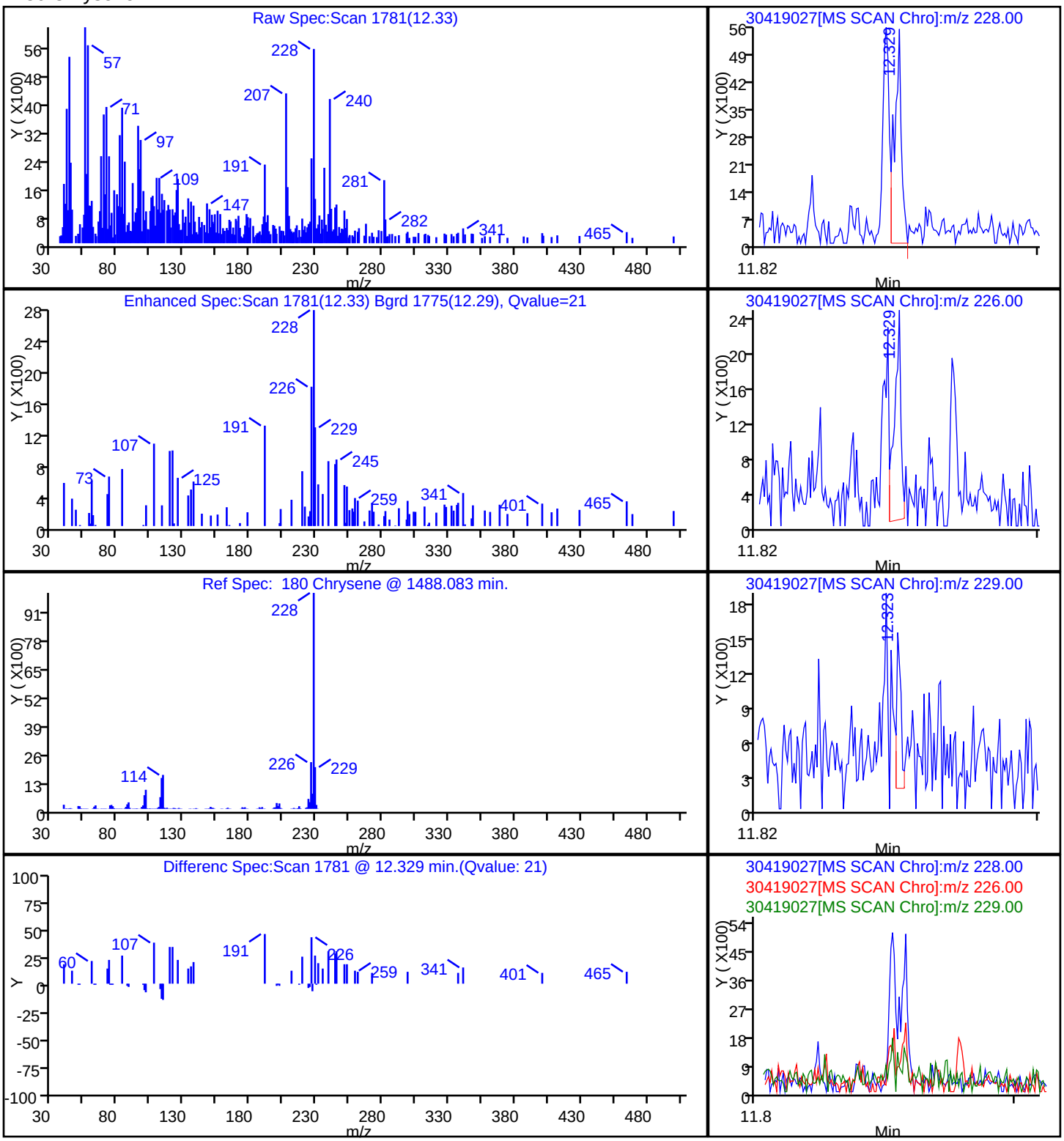
Report Date: 22-Apr-2013 13:55:36 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419027.D

Injection Date:	19-Apr-2013 20:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0008-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	27
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

180 Chrysene



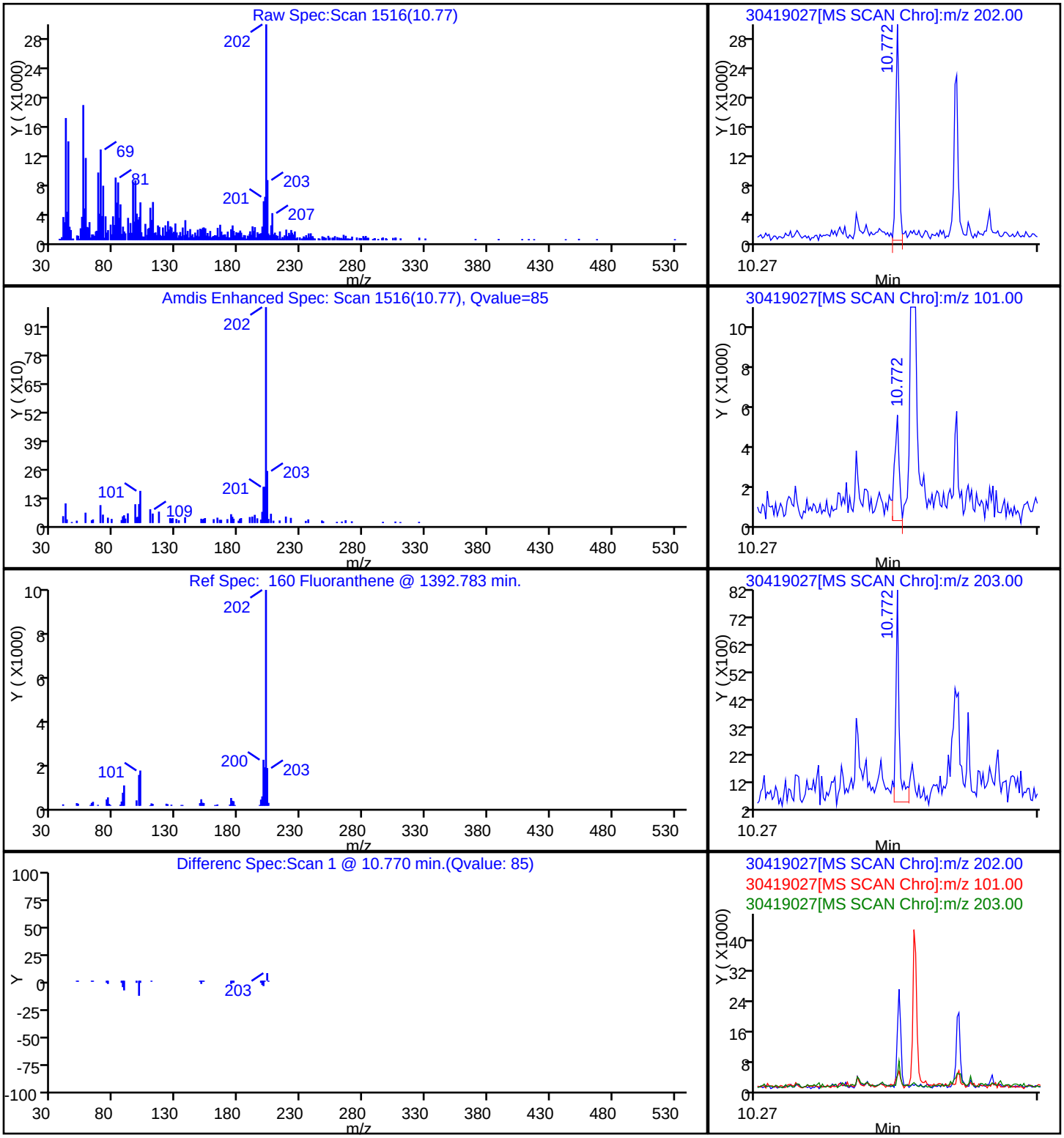
Report Date: 22-Apr-2013 13:55:36 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419027.D

Injection Date:	19-Apr-2013 20:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0008-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	27
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

160 Fluoranthene



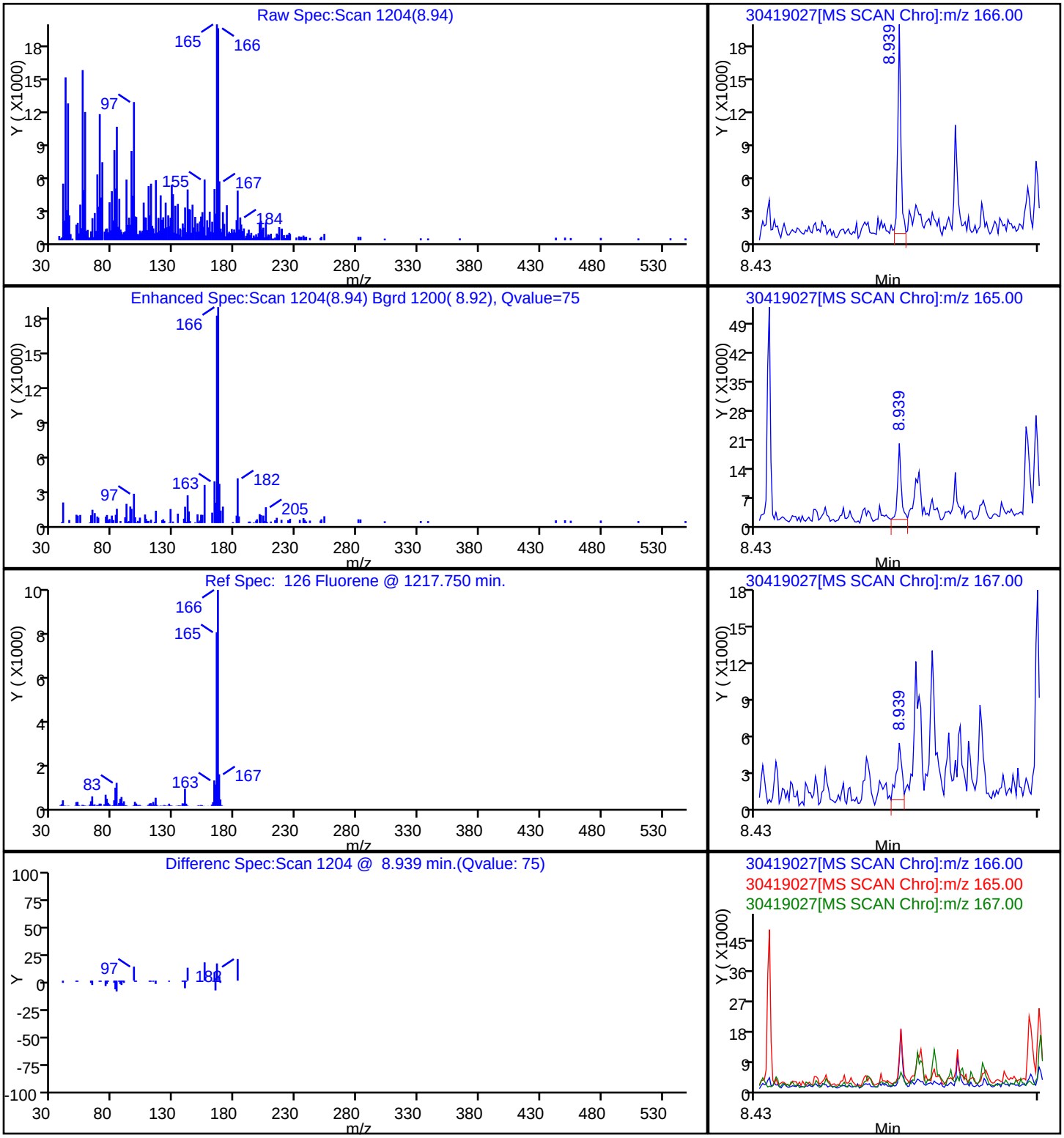
Report Date: 22-Apr-2013 13:55:35 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419027.D

Injection Date:	19-Apr-2013 20:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0008-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	27
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

126 Fluorene



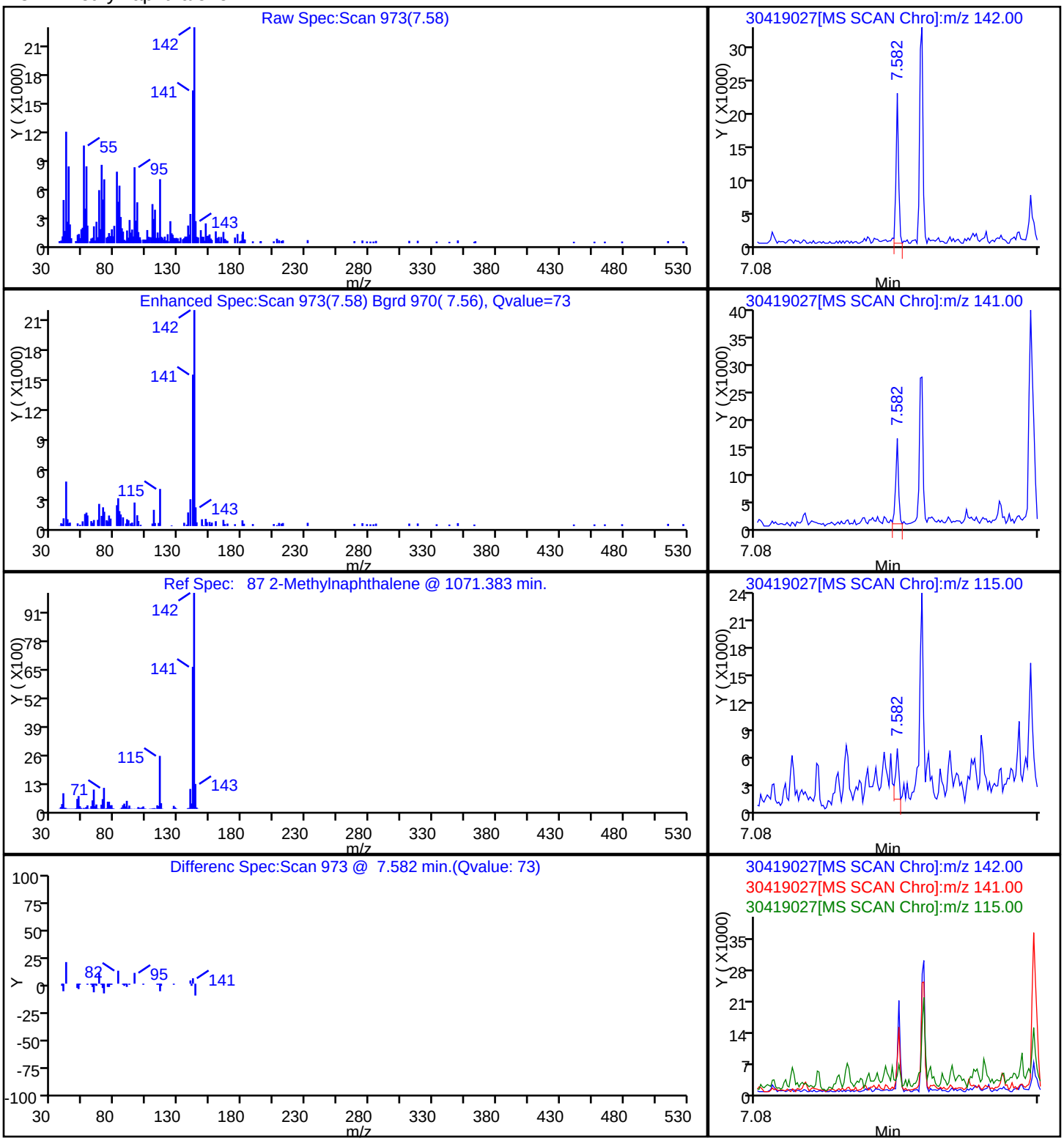
Report Date: 22-Apr-2013 13:55:35 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419027.D

Injection Date:	19-Apr-2013 20:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0008-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	27
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

87 2-Methylnaphthalene



Report Date: 22-Apr-2013 13:55:35 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

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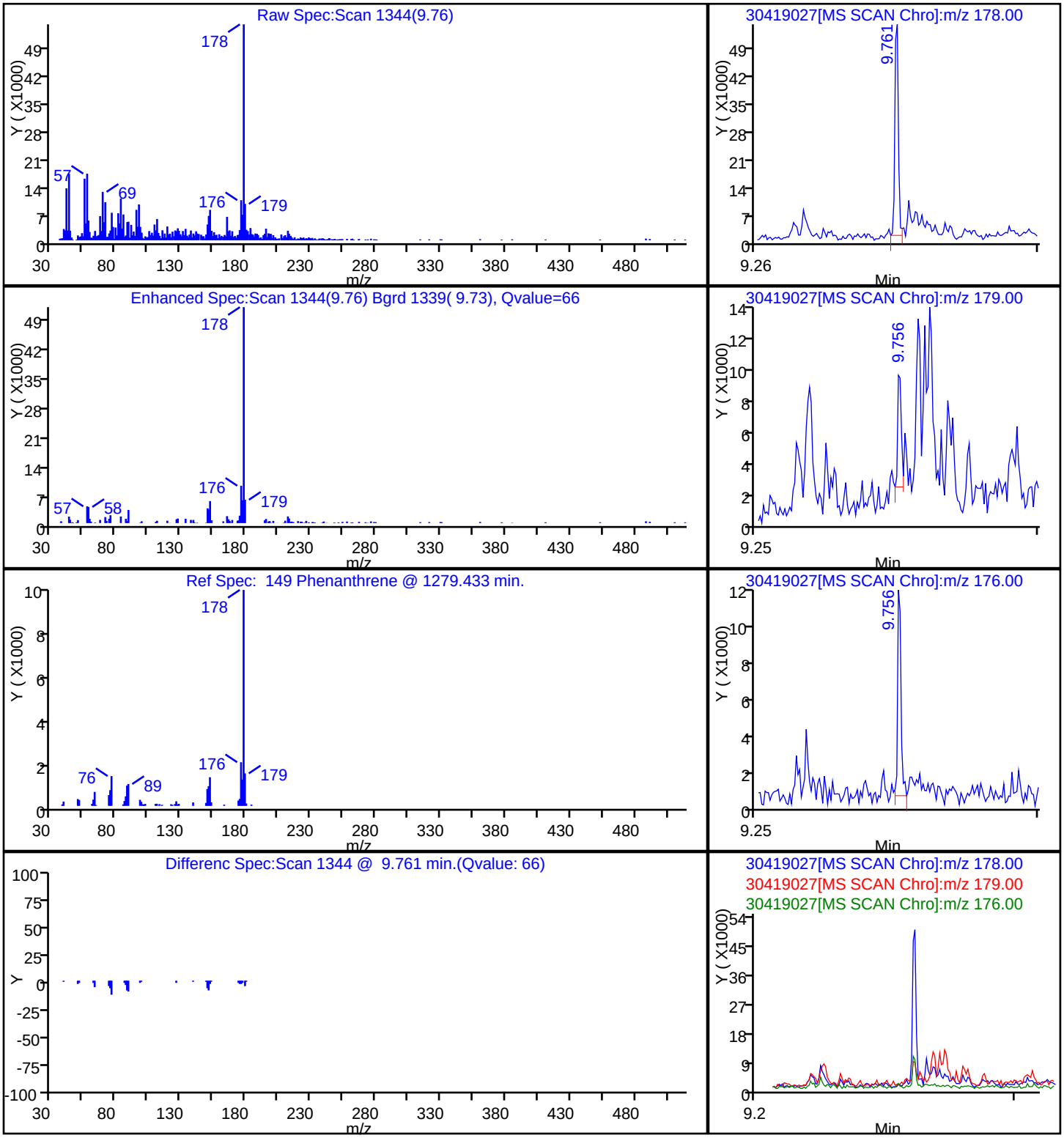
Injection Date:	19-Apr-2013 20:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0008-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	27
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

149 Phenanthrene



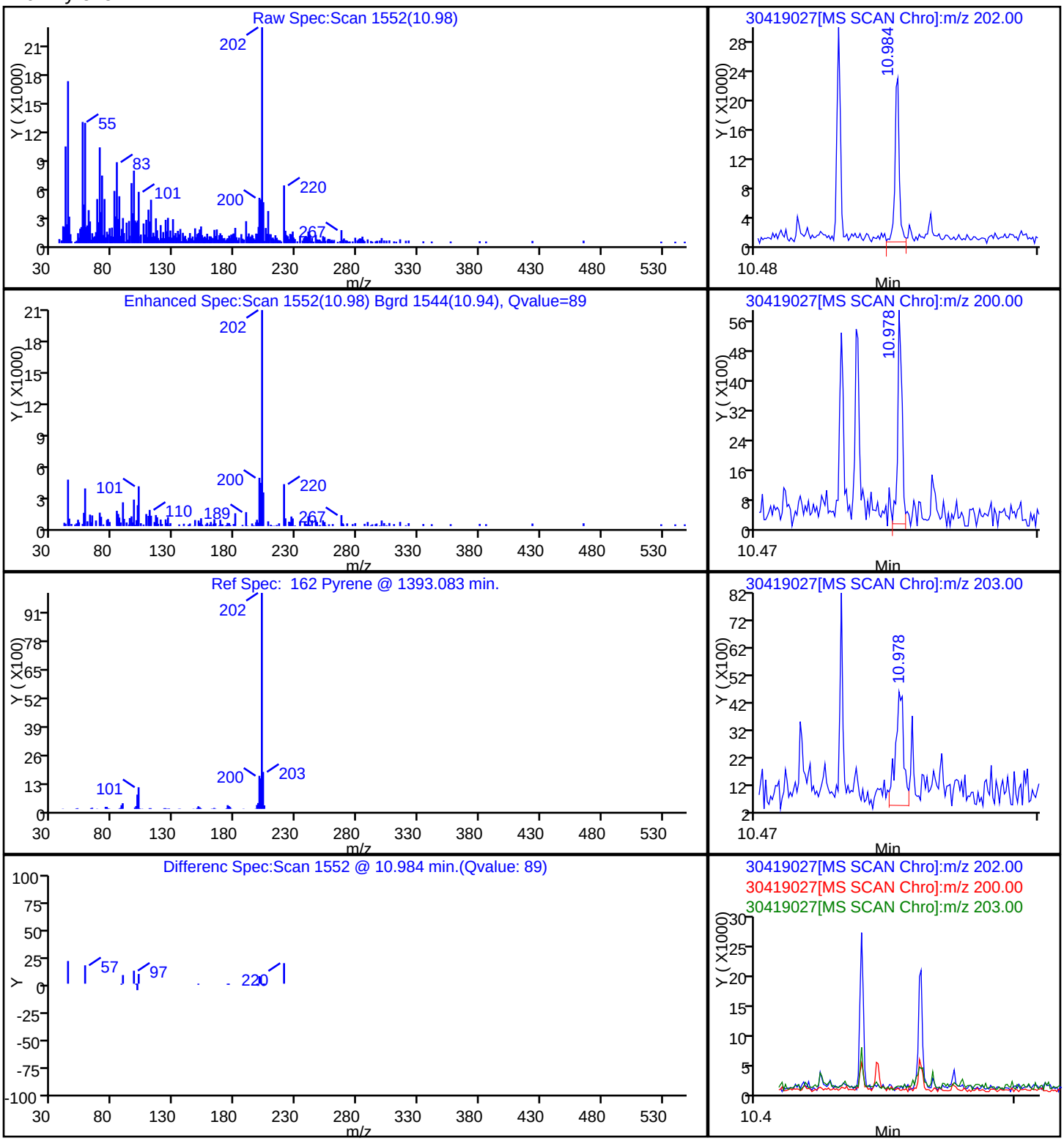
Report Date: 22-Apr-2013 13:55:36 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419027.D

Injection Date:	19-Apr-2013 20:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0008-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	27
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

162 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0009-0001-SO | Lab Sample ID: 240-22756-8

Matrix: Solid | Lab File ID: 30419026.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 12:38

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.39(g) | Date Analyzed: 04/19/2013 20:05

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	3.8	U	7.7	3.8	3.8
208-96-8	Acenaphthylene	3.8	U	7.7	3.8	3.8
120-12-7	Anthracene	3.8	U	7.7	3.8	3.8
56-55-3	Benzo[a]anthracene	3.8	U	7.7	3.8	3.8
50-32-8	Benzo[a]pyrene	3.8	U	7.7	3.8	3.8
205-99-2	Benzo[b]fluoranthene	3.8	U	7.7	3.8	3.8
191-24-2	Benzo[g,h,i]perylene	3.8	U	7.7	3.8	3.8
65-85-0	Benzoic acid	390	U	770	390	390
207-08-9	Benzo[k]fluoranthene	3.8	U	7.7	3.8	3.8
100-51-6	Benzyl alcohol	31	U	380	31	24
111-91-1	Bis(2-chloroethoxy)methane	31	U	120	31	26
111-44-4	Bis(2-chloroethyl)ether	3.8	U	120	3.8	2.3
108-60-1	bis (2-chloroisopropyl) ether	31	U	120	31	11
117-81-7	Bis(2-ethylhexyl) phthalate	230		81	31	22
101-55-3	4-Bromophenyl phenyl ether	31	U	58	31	15
85-68-7	Butyl benzyl phthalate	31	U	81	31	12
86-74-8	Carbazole	31	U	58	31	31
106-47-8	4-Chloroaniline	31	U	170	31	20
59-50-7	4-Chloro-3-methylphenol	31	U	170	31	24
91-58-7	2-Chloronaphthalene	3.8	U	58	3.8	3.8
95-57-8	2-Chlorophenol	31	U	58	31	31
7005-72-3	4-Chlorophenyl phenyl ether	31	U	58	31	15
218-01-9	Chrysene	3.8	U	7.7	3.8	1.3
53-70-3	Dibenz(a,h)anthracene	3.8	U	7.7	3.8	3.8
132-64-9	Dibenzofuran	3.8	U	58	3.8	3.8
95-50-1	1,2-Dichlorobenzene	31	U	58	31	11
541-73-1	1,3-Dichlorobenzene	31	U	58	31	13
106-46-7	1,4-Dichlorobenzene	31	U	58	31	23
91-94-1	3,3'-Dichlorobenzidine	93	U	120	93	21
120-83-2	2,4-Dichlorophenol	31	U	170	31	23
84-66-2	Diethyl phthalate	31	U	81	31	19
105-67-9	2,4-Dimethylphenol	93	U	170	93	23
131-11-3	Dimethyl phthalate	31	U	81	31	20
84-74-2	Di-n-butyl phthalate	31	U	81	31	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0009-0001-SO | Lab Sample ID: 240-22756-8

Matrix: Solid | Lab File ID: 30419026.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 12:38

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.39(g) | Date Analyzed: 04/19/2013 20:05

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	93	U	170	93	93
51-28-5	2,4-Dinitrophenol	93	U	380	93	93
121-14-2	2,4-Dinitrotoluene	31	U	230	31	31
606-20-2	2,6-Dinitrotoluene	31	U	230	31	24
117-84-0	Di-n-octyl phthalate	31	U	81	31	31
206-44-0	Fluoranthene	3.8	U	7.7	3.8	3.8
86-73-7	Fluorene	3.8	U	7.7	3.8	3.8
118-74-1	Hexachlorobenzene	3.8	U	7.7	3.8	2.4
87-68-3	Hexachlorobutadiene	31	U	58	31	31
77-47-4	Hexachlorocyclopentadiene	31	U	380	31	31
67-72-1	Hexachloroethane	31	U	58	31	10
193-39-5	Indeno[1,2,3-cd]pyrene	3.8	U	7.7	3.8	3.8
78-59-1	Isophorone	31	U	58	31	15
91-57-6	2-Methylnaphthalene	3.8	U	7.7	3.8	3.8
95-48-7	2-Methylphenol	93	U	230	93	93
15831-10-4	3 & 4 Methylphenol	93	U	460	93	23
91-20-3	Naphthalene	3.8	U	7.7	3.8	3.8
88-74-4	2-Nitroaniline	31	U	230	31	11
99-09-2	3-Nitroaniline	93	U	230	93	19
100-01-6	4-Nitroaniline	31	U	230	31	30
98-95-3	Nitrobenzene	3.8	U	120	3.8	2.6
88-75-5	2-Nitrophenol	31	U	58	31	31
100-02-7	4-Nitrophenol	93	U	380	93	93
621-64-7	N-Nitrosodi-n-propylamine	31	U	58	31	31
86-30-6	N-Nitrosodiphenylamine	31	U	58	31	24
87-86-5	Pentachlorophenol	93	U	170	93	93
85-01-8	Phenanthrene	3.8	U	7.7	3.8	3.8
108-95-2	Phenol	31	U	58	31	31
129-00-0	Pyrene	3.8	U	7.7	3.8	3.8
120-82-1	1,2,4-Trichlorobenzene	31	U	58	31	31
95-95-4	2,4,5-Trichlorophenol	31	U	170	31	29
88-06-2	2,4,6-Trichlorophenol	93	U	170	93	93

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0009-0001-SO | Lab Sample ID: 240-22756-8

Matrix: Solid | Lab File ID: 30419026.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 12:38

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.39(g) | Date Analyzed: 04/19/2013 20:05

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	68		45-105
367-12-4	2-Fluorophenol (Surr)	81		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	73		35-100
4165-62-2	Phenol-d5 (Surr)	78		40-100
1718-51-0	Terphenyl-d14 (Surr)	61		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	44		35-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419026.D
Lims ID: 240-22756-B-8-A
Client ID: 074SB-0009-0001-SO
Inject. Date: 19-Apr-2013 20:05:30
Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0019044-026
Misc. Info.: 240-22756-B-8-A
Operator: 001710
Instrument ID: A4HP10
Injection Vol: 1.0 ul
ALS Bottle#: 26
Lims Batch ID: 82653
Lims Sample ID: 26
Detector: MS SCAN

Method: \\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m
Last Update: 22-Apr-2013 13:55:06
Calib Date: 12-Apr-2013 00:58:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: 5% phenyl
Column Dia: 0.18 mm
Process Host: XAWRK022

First Level Reviewer: gruberj
Date: 22-Apr-2013 11:37:13

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.848	5.848	0.0	98	129353	4.00	
* 2 Naphthalene-d8	136	6.971	6.970	0.001	100	488679	4.00	
* 3 Acenaphthene-d10	164	8.475	8.475	0.0	92	294305	4.00	
* 4 Phenanthrene-d10	188	9.738	9.738	0.0	97	506768	4.00	
* 5 Chrysene-d12	240	12.294	12.294	0.0	79	555731	4.00	
* 6 Perylene-d12	264	14.368	14.368	0.0	93	446870	4.00	
$ 7 2-Fluorophenol	112	4.585	4.573	0.012	92	451924	12.1	
$ 8 Phenol-d5	99	5.490	5.490	0.0	90	586566	11.8	
$ 9 Nitrobenzene-d5	82	6.336	6.336	0.0	89	332619	7.28	
$ 10 2-Fluorobiphenyl (Surr)	172	7.887	7.887	0.0	99	642802	6.77	
$ 11 2,4,6-Tribromophenol	330	9.139	9.144	-0.005	86	71479	6.64	
$ 12 Terphenyl-d14	244	11.101	11.101	0.0	98	663026	6.06	
43 Phenol	94		5.502					9
45 Bis(2-chloroethyl)ether	93		5.601					9
47 2-Chlorophenol	128		5.648					
48 1,3-Dichlorobenzene	146		5.795					
49 1,4-Dichlorobenzene	146		5.866					
50 Benzyl alcohol	108		5.960					9
51 1,2-Dichlorobenzene	146		6.001					
52 2-Methylphenol	108		6.054					9
54 2,2'-oxybis[1-chloropropane]	45		6.083					
56 3 & 4 Methylphenol	108		6.183					9
57 N-Nitrosodi-n-propylamine	70		6.195					
61 Hexachloroethane	117		6.307					
62 Nitrobenzene	77		6.354					
64 Isophorone	82		6.559					
66 2-Nitrophenol	139		6.636					
65 2,4-Dimethylphenol	107		6.653					9
70 Benzoic acid	122		6.712					9
69 Bis(2-chloroethoxy)methane	93		6.741					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
72 2,4-Dichlorophenol	162		6.835					
73 1,2,4-Trichlorobenzene	180		6.918					
74 Naphthalene	128		6.988					9
75 4-Chloroaniline	127		7.023					
78 Hexachlorobutadiene	225		7.088					
85 4-Chloro-3-methylphenol	107		7.423					
87 2-Methylnaphthalene	142		7.582					9
89 Hexachlorocyclopentadiene	237		7.711					
93 2,4,6-Trichlorophenol	196		7.811					
94 2,4,5-Trichlorophenol	196		7.846					
100 2-Chloronaphthalene	162		7.999					9
102 2-Nitroaniline	65		8.075					9
105 Dimethyl phthalate	163		8.216					
107 2,6-Dinitrotoluene	165		8.275					
109 Acenaphthylene	152		8.357					9
110 3-Nitroaniline	138		8.422					
112 Acenaphthene	153		8.504					
111 2,4-Dinitrophenol	184		8.510					
113 4-Nitrophenol	109		8.539					
114 2,4-Dinitrotoluene	165		8.616					9
116 Dibenzofuran	168		8.645					9
121 Diethyl phthalate	149		8.815					9
123 4-Chlorophenyl phenyl ether	204		8.927					
126 Fluorene	166		8.939					9
125 4-Nitroaniline	138		8.939					
128 4,6-Dinitro-2-methylphenol	198		8.962					
129 N-Nitrosodiphenylamine	169		9.027					9
139 4-Bromophenyl phenyl ether	248		9.344					
141 Hexachlorobenzene	284		9.403					
144 Pentachlorophenol	266		9.567					
149 Phenanthrene	178		9.761					9
150 Anthracene	178		9.803					9
152 Carbazole	167		9.932					9
155 Di-n-butyl phthalate	149		10.196					
160 Fluoranthene	202		10.772					9
162 Pyrene	202		10.984					
170 Butyl benzyl phthalate	149		11.583					
177 3,3'-Dichlorobenzidine	252		12.229					9
175 Bis(2-ethylhexyl) phthalate	149	12.259	12.258	0.001	97	226908	2.95	
179 Benzo[a]anthracene	228		12.282					9
180 Chrysene	228		12.329					
182 Di-n-octyl phthalate	149		13.175					
184 Benzo[b]fluoranthene	252		13.786					9
185 Benzo[k]fluoranthene	252		13.827					9
186 Benzo[a]pyrene	252		14.286					9
190 Indeno[1,2,3-cd]pyrene	276		16.031					9
191 Dibenz(a,h)anthracene	278		16.066					
192 Benzo[g,h,i]perylene	276		16.477					9

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

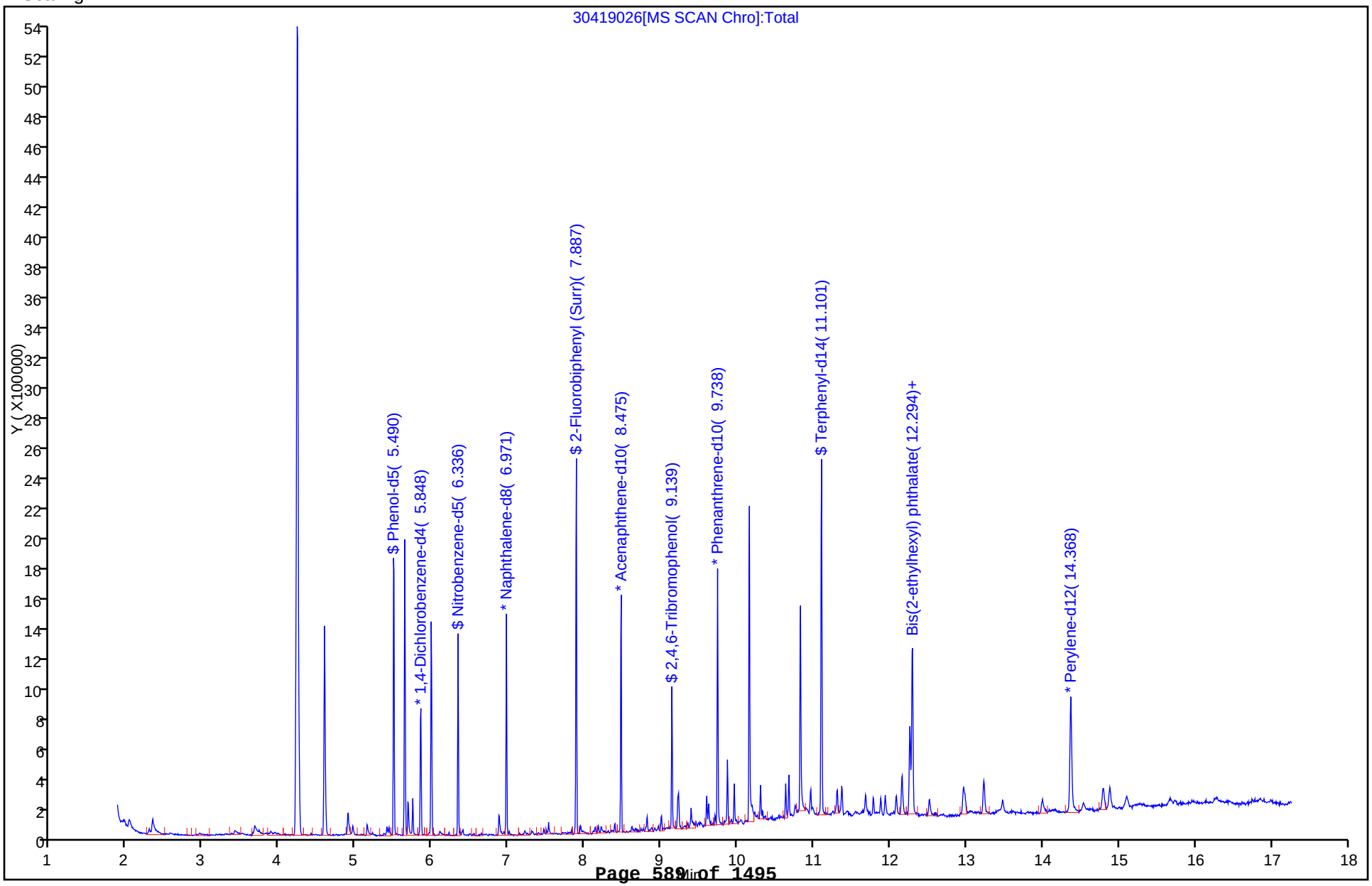
Report Date: 22-Apr-2013 13:55:34 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419026.D

Injection Date:	19-Apr-2013 20:05:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0009-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	26
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



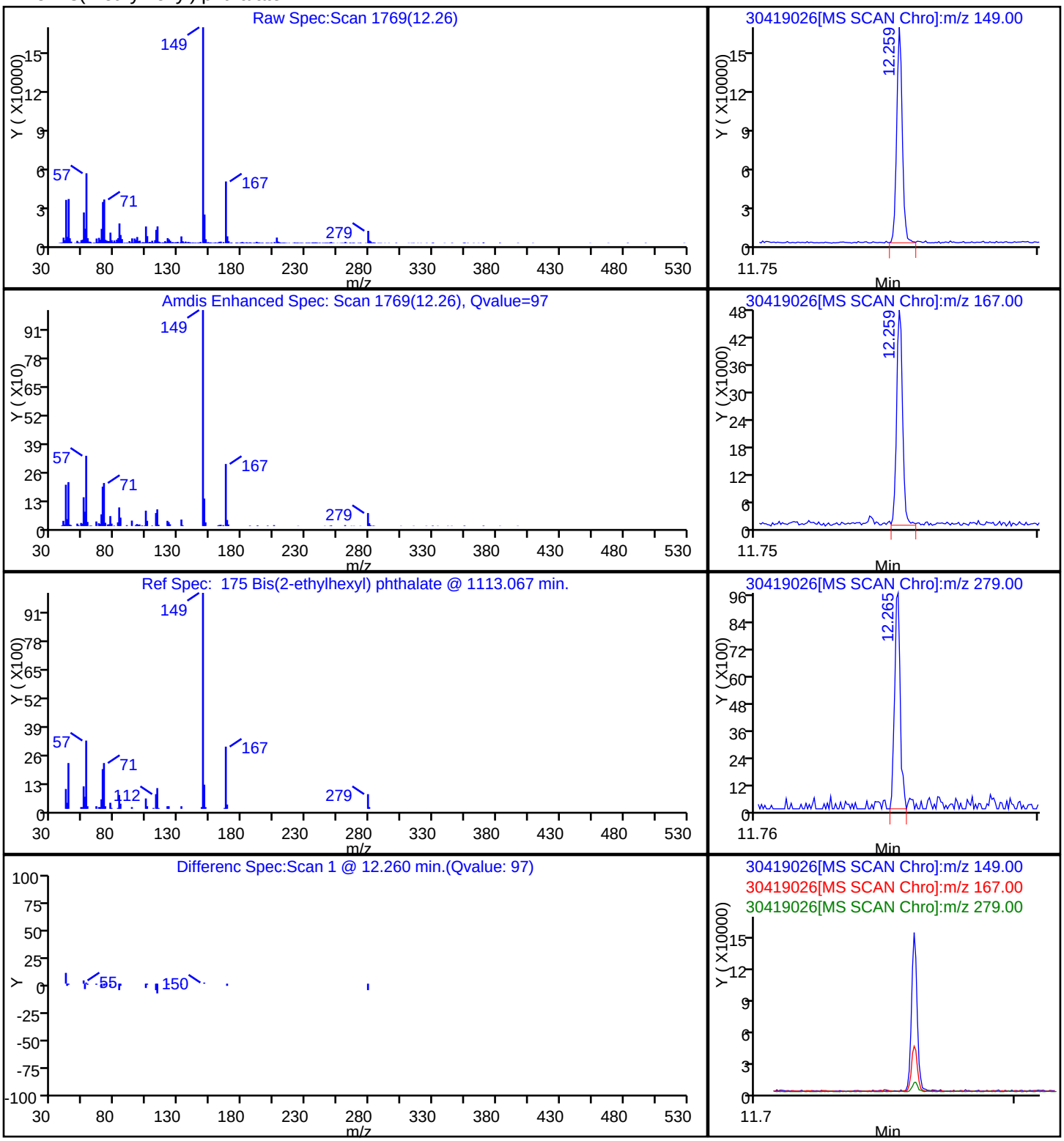
Report Date: 22-Apr-2013 13:55:35 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419026.D

Injection Date:	19-Apr-2013 20:05:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0009-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	26
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

175 Bis(2-ethylhexyl) phthalate



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0016-0001-SO | Lab Sample ID: 240-22756-10

Matrix: Solid | Lab File ID: 30419010.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 09:45

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.01(g) | Date Analyzed: 04/19/2013 13:51

Con. Extract Vol.: 2(mL) | Dilution Factor: 2.5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	110		21	10	10
208-96-8	Acenaphthylene	32		21	10	10
120-12-7	Anthracene	65	M	21	10	10
56-55-3	Benzo[a]anthracene	80		21	10	10
50-32-8	Benzo[a]pyrene	61		21	10	10
205-99-2	Benzo[b]fluoranthene	69		21	10	10
191-24-2	Benzo[g,h,i]perylene	44	M	21	10	10
65-85-0	Benzoic acid	1100	U	2100	1100	1100
207-08-9	Benzo[k]fluoranthene	25	M	21	10	10
100-51-6	Benzyl alcohol	86	U	1000	86	67
111-91-1	Bis(2-chloroethoxy)methane	86	U	320	86	70
111-44-4	Bis(2-chloroethyl)ether	10	U	320	10	6.4
108-60-1	bis (2-chloroisopropyl) ether	86	U	320	86	30
117-81-7	Bis(2-ethylhexyl) phthalate	86	U	220	86	60
101-55-3	4-Bromophenyl phenyl ether	86	U	160	86	41
85-68-7	Butyl benzyl phthalate	86	U	220	86	32
86-74-8	Carbazole	86	U	160	86	86
106-47-8	4-Chloroaniline	86	U	480	86	54
59-50-7	4-Chloro-3-methylphenol	86	U	480	86	67
91-58-7	2-Chloronaphthalene	10	U	160	10	10
95-57-8	2-Chlorophenol	86	U	160	86	86
7005-72-3	4-Chlorophenyl phenyl ether	86	U	160	86	41
218-01-9	Chrysene	93		21	10	3.5
53-70-3	Dibenz(a,h)anthracene	10	U	21	10	10
132-64-9	Dibenzofuran	110	J	160	10	10
95-50-1	1,2-Dichlorobenzene	86	U	160	86	31
541-73-1	1,3-Dichlorobenzene	86	U	160	86	35
106-46-7	1,4-Dichlorobenzene	86	U	160	86	64
91-94-1	3,3'-Dichlorobenzidine	250	U	320	250	57
120-83-2	2,4-Dichlorophenol	86	U	480	86	64
84-66-2	Diethyl phthalate	86	U	220	86	51
105-67-9	2,4-Dimethylphenol	250	U	480	250	64
131-11-3	Dimethyl phthalate	86	U	220	86	54
84-74-2	Di-n-butyl phthalate	86	U	220	86	48

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0016-0001-SO | Lab Sample ID: 240-22756-10

Matrix: Solid | Lab File ID: 30419010.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 09:45

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.01(g) | Date Analyzed: 04/19/2013 13:51

Con. Extract Vol.: 2(mL) | Dilution Factor: 2.5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	250	U	480	250	250
51-28-5	2,4-Dinitrophenol	250	U	1000	250	250
121-14-2	2,4-Dinitrotoluene	86	U	640	86	86
606-20-2	2,6-Dinitrotoluene	86	U	640	86	67
117-84-0	Di-n-octyl phthalate	86	U	220	86	86
206-44-0	Fluoranthene	250		21	10	10
86-73-7	Fluorene	170		21	10	10
118-74-1	Hexachlorobenzene	10	U	21	10	6.7
87-68-3	Hexachlorobutadiene	86	U	160	86	86
77-47-4	Hexachlorocyclopentadiene	86	U	1000	86	86
67-72-1	Hexachloroethane	86	U	160	86	29
193-39-5	Indeno[1,2,3-cd]pyrene	20	J	21	10	10
78-59-1	Isophorone	86	U	160	86	41
91-57-6	2-Methylnaphthalene	10	U	21	10	10
95-48-7	2-Methylphenol	250	U	640	250	250
15831-10-4	3 & 4 Methylphenol	250	U	1300	250	64
91-20-3	Naphthalene	37		21	10	10
88-74-4	2-Nitroaniline	86	U	640	86	29
99-09-2	3-Nitroaniline	250	U	640	250	51
100-01-6	4-Nitroaniline	86	U	640	86	83
98-95-3	Nitrobenzene	10	U	320	10	7.0
88-75-5	2-Nitrophenol	86	U	160	86	86
100-02-7	4-Nitrophenol	250	U	1000	250	250
621-64-7	N-Nitrosodi-n-propylamine	86	U	160	86	86
86-30-6	N-Nitrosodiphenylamine	86	U	160	86	67
87-86-5	Pentachlorophenol	250	U	480	250	250
85-01-8	Phenanthrene	180		21	10	10
108-95-2	Phenol	86	U	160	86	86
129-00-0	Pyrene	240		21	10	10
120-82-1	1,2,4-Trichlorobenzene	86	U	160	86	86
95-95-4	2,4,5-Trichlorophenol	86	U	480	86	80
88-06-2	2,4,6-Trichlorophenol	250	U	480	250	250

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0016-0001-SO | Lab Sample ID: 240-22756-10

Matrix: Solid | Lab File ID: 30419010.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 09:45

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.01(g) | Date Analyzed: 04/19/2013 13:51

Con. Extract Vol.: 2(mL) | Dilution Factor: 2.5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	68		45-105
367-12-4	2-Fluorophenol (Surr)	78		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	69		35-100
4165-62-2	Phenol-d5 (Surr)	77		40-100
1718-51-0	Terphenyl-d14 (Surr)	62		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	67		35-125

Report Date: 22-Apr-2013 13:55:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419010.D
Lims ID: 240-22756-B-10-A Client ID: 074SB-0016-0001-SO
Inject. Date: 19-Apr-2013 13:51:30 Dil. Factor: 2.5000
Sample Type: Client
Sample ID: 240-0019044-010
Misc. Info.: 240-22756-B-10-A
Operator: 001710 Instrument ID: A4HP10
Injection Vol: 1.0 ul ALS Bottle#: 10
Lims Batch ID: 82653 Lims Sample ID: 10
Detector: MS SCAN

Method: \\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m
Last Update: 22-Apr-2013 13:55:06 Calib Date: 12-Apr-2013 00:58:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: 5% phenyl Column Dia: 0.18 mm
Process Host: XAWRK022

First Level Reviewer: gruberj Date: 22-Apr-2013 09:42:29

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.848	5.848	0.0	99	133592	4.00	
* 2 Naphthalene-d8	136	6.971	6.970	0.001	99	540388	4.00	
* 3 Acenaphthene-d10	164	8.475	8.475	0.0	88	327644	4.00	
* 4 Phenanthrene-d10	188	9.738	9.738	0.0	95	539291	4.00	
* 5 Chrysene-d12	240	12.288	12.294	-0.006	81	570450	4.00	
* 6 Perylene-d12	264	14.368	14.368	0.0	82	480137	4.00	
$ 7 2-Fluorophenol	112	4.579	4.573	0.006	92	180216	4.66	
$ 8 Phenol-d5	99	5.490	5.490	0.0	90	237389	4.61	
$ 9 Nitrobenzene-d5	82	6.336	6.336	0.0	79	138766	2.75	
$ 10 2-Fluorobiphenyl (Surr)	172	7.887	7.887	0.0	94	286344	2.71	
$ 11 2,4,6-Tribromophenol	330	9.139	9.144	-0.005	73	48098	4.01	
$ 12 Terphenyl-d14	244	11.101	11.101	0.0	98	279363	2.49	
43 Phenol	94		5.502					
45 Bis(2-chloroethyl)ether	93		5.601					9
47 2-Chlorophenol	128		5.648					
48 1,3-Dichlorobenzene	146		5.795					
49 1,4-Dichlorobenzene	146		5.866					
50 Benzyl alcohol	108		5.960					9
51 1,2-Dichlorobenzene	146		6.001					
52 2-Methylphenol	108		6.054					
54 2,2'-oxybis[1-chloropropane]	45		6.083					9
56 3 & 4 Methylphenol	108	6.183	6.183	0.0	59	4574	0.1190	
57 N-Nitrosodi-n-propylamine	70		6.195					
61 Hexachloroethane	117		6.307					9
62 Nitrobenzene	77		6.354					
64 Isophorone	82		6.559					
66 2-Nitrophenol	139		6.636					
65 2,4-Dimethylphenol	107		6.653					
70 Benzoic acid	122		6.712					
69 Bis(2-chloroethoxy)methane	93		6.741					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
72 2,4-Dichlorophenol	162		6.835					9
73 1,2,4-Trichlorobenzene	180		6.918					9
74 Naphthalene	128	6.988	6.988	0.0	52	21836	0.1742	
75 4-Chloroaniline	127		7.023					
78 Hexachlorobutadiene	225		7.088					
85 4-Chloro-3-methylphenol	107		7.423					
87 2-Methylnaphthalene	142		7.582					
89 Hexachlorocyclopentadiene	237		7.711					
93 2,4,6-Trichlorophenol	196		7.811					
94 2,4,5-Trichlorophenol	196		7.846					
100 2-Chloronaphthalene	162		7.999					
102 2-Nitroaniline	65		8.075					
105 Dimethyl phthalate	163		8.216					9
107 2,6-Dinitrotoluene	165		8.275					
109 Acenaphthylene	152	8.351	8.357	-0.006	50	19251	0.1500	
110 3-Nitroaniline	138		8.422					
112 Acenaphthene	153	8.498	8.504	-0.006	71	46172	0.5176	
111 2,4-Dinitrophenol	184		8.510					
113 4-Nitrophenol	109		8.539					
114 2,4-Dinitrotoluene	165		8.616					
116 Dibenzofuran	168	8.645	8.645	0.0	73	62608	0.5207	
121 Diethyl phthalate	149		8.815					
123 4-Chlorophenyl phenyl ether	204		8.927					
126 Fluorene	166	8.939	8.939	0.0	77	79261	0.8109	
125 4-Nitroaniline	138		8.939					9
128 4,6-Dinitro-2-methylphenol	198		8.962					
129 N-Nitrosodiphenylamine	169		9.027					
139 4-Bromophenyl phenyl ether	248		9.344					
141 Hexachlorobenzene	284		9.403					
144 Pentachlorophenol	266		9.567					
149 Phenanthrene	178	9.762	9.761	0.001	92	103414	0.8270	
150 Anthracene	178	9.803	9.803	0.001	45	37920	0.3050	M
152 Carbazole	167		9.932					
155 Di-n-butyl phthalate	149		10.196					9
160 Fluoranthene	202	10.784	10.772	0.012	94	174629	1.18	
162 Pyrene	202	10.984	10.984	0.0	97	167834	1.14	
170 Butyl benzyl phthalate	149		11.583					
177 3,3'-Dichlorobenzidine	252		12.229					
175 Bis(2-ethylhexyl) phthalate	149		12.258					
179 Benzo[a]anthracene	228	12.276	12.282	-0.006	76	53231	0.3750	
180 Chrysene	228	12.323	12.329	-0.006	54	57243	0.4394	
182 Di-n-octyl phthalate	149		13.175					9
184 Benzo[b]fluoranthene	252	13.786	13.786	0.0	82	42221	0.3276	
185 Benzo[k]fluoranthene	252	13.828	13.827	0.001	69	16719	0.1193	M
186 Benzo[a]pyrene	252	14.286	14.286	0.0	60	34577	0.2890	
190 Indeno[1,2,3-cd]pyrene	276	16.025	16.031	-0.006	86	12353	0.0941	
191 Dibenz(a,h)anthracene	278		16.066					
192 Benzo[g,h,i]perylene	276	16.472	16.477	-0.005	73	23253	0.2076	M

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

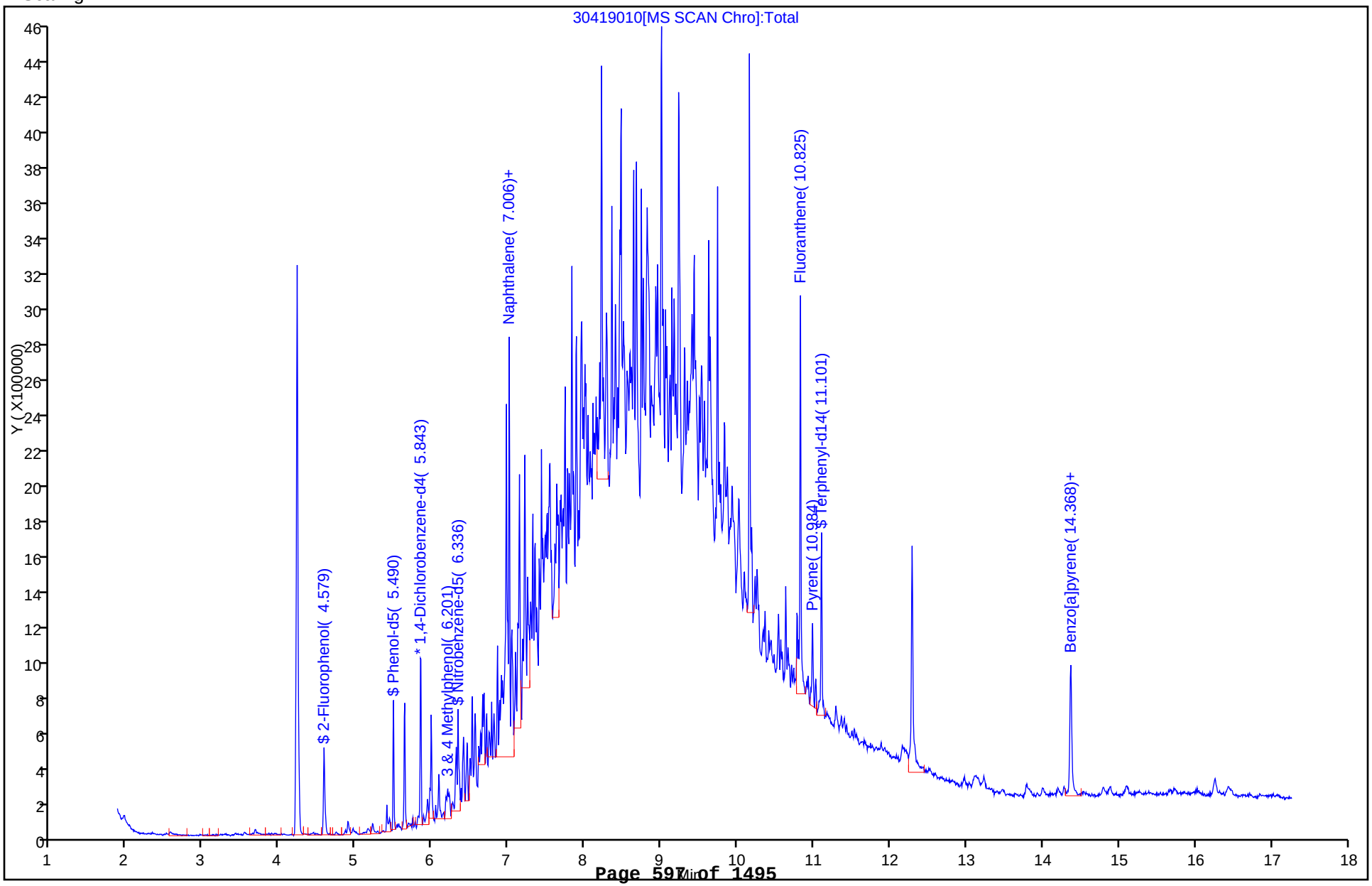
Report Date: 22-Apr-2013 13:55:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419010.D

Injection Date:	19-Apr-2013 13:51:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



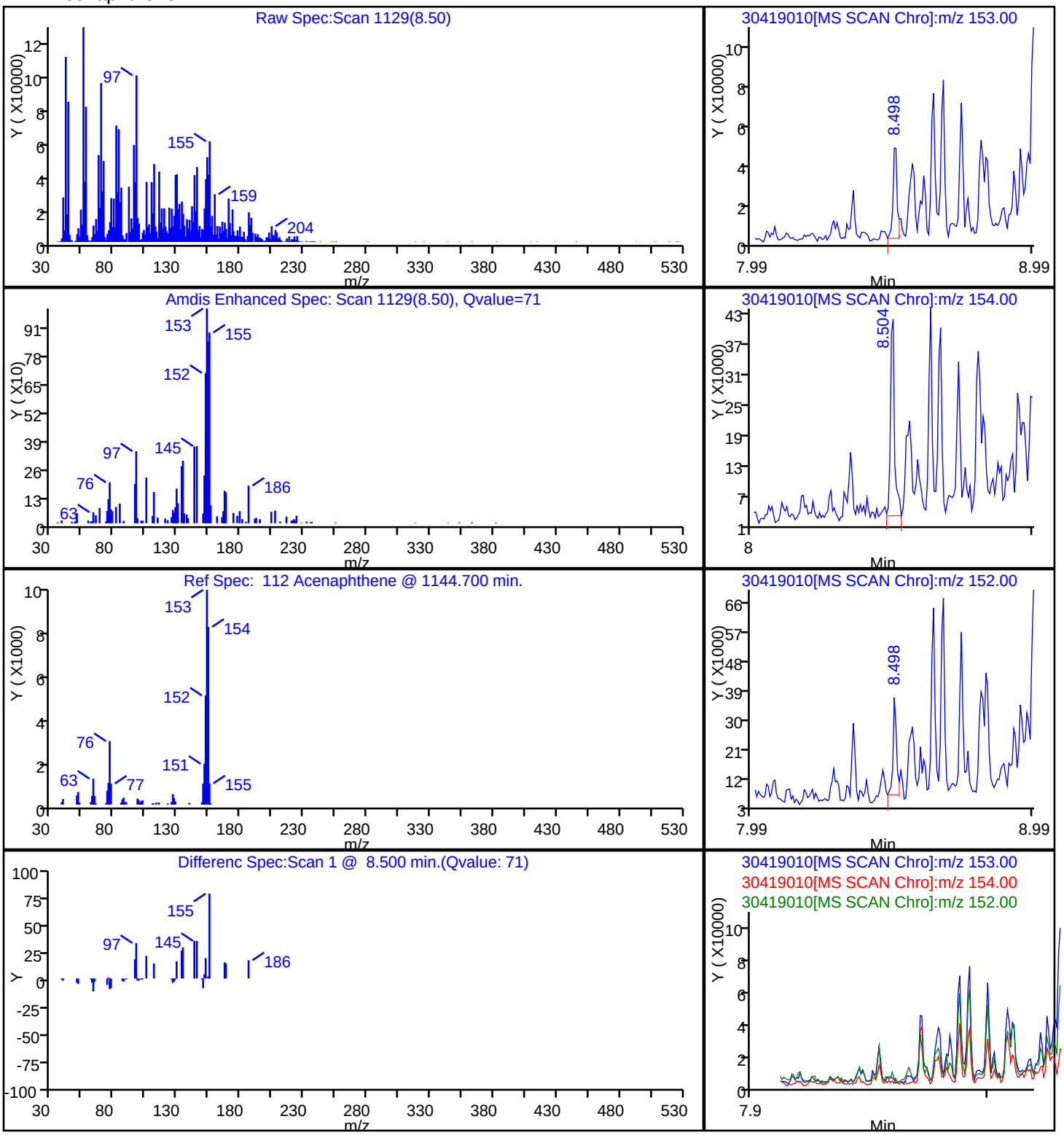
Report Date: 22-Apr-2013 13:55:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419010.D

Injection Date:	19-Apr-2013 13:51:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

112 Acenaphthene



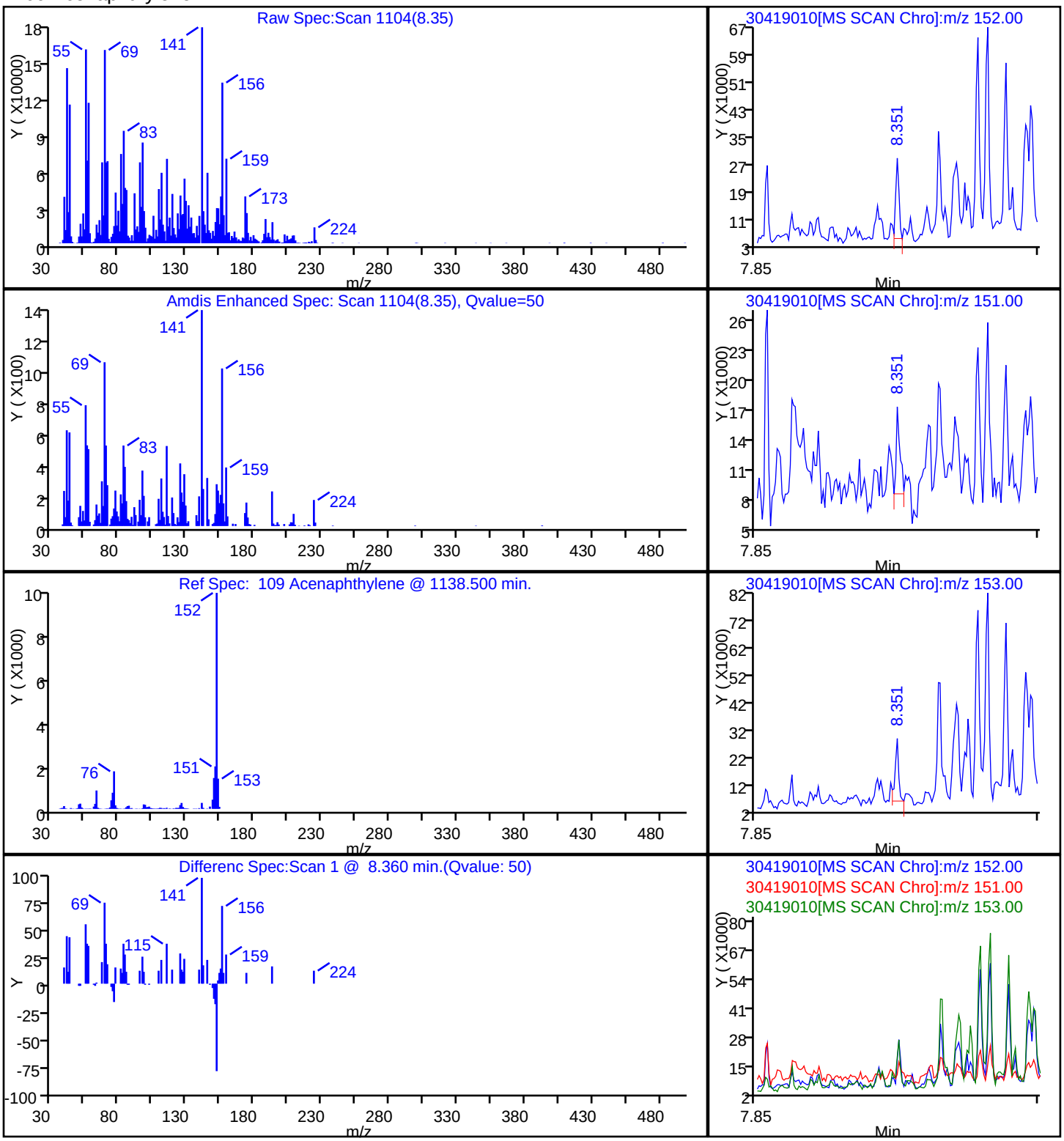
Report Date: 22-Apr-2013 13:55:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419010.D

Injection Date:	19-Apr-2013 13:51:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

109 Acenaphthylene



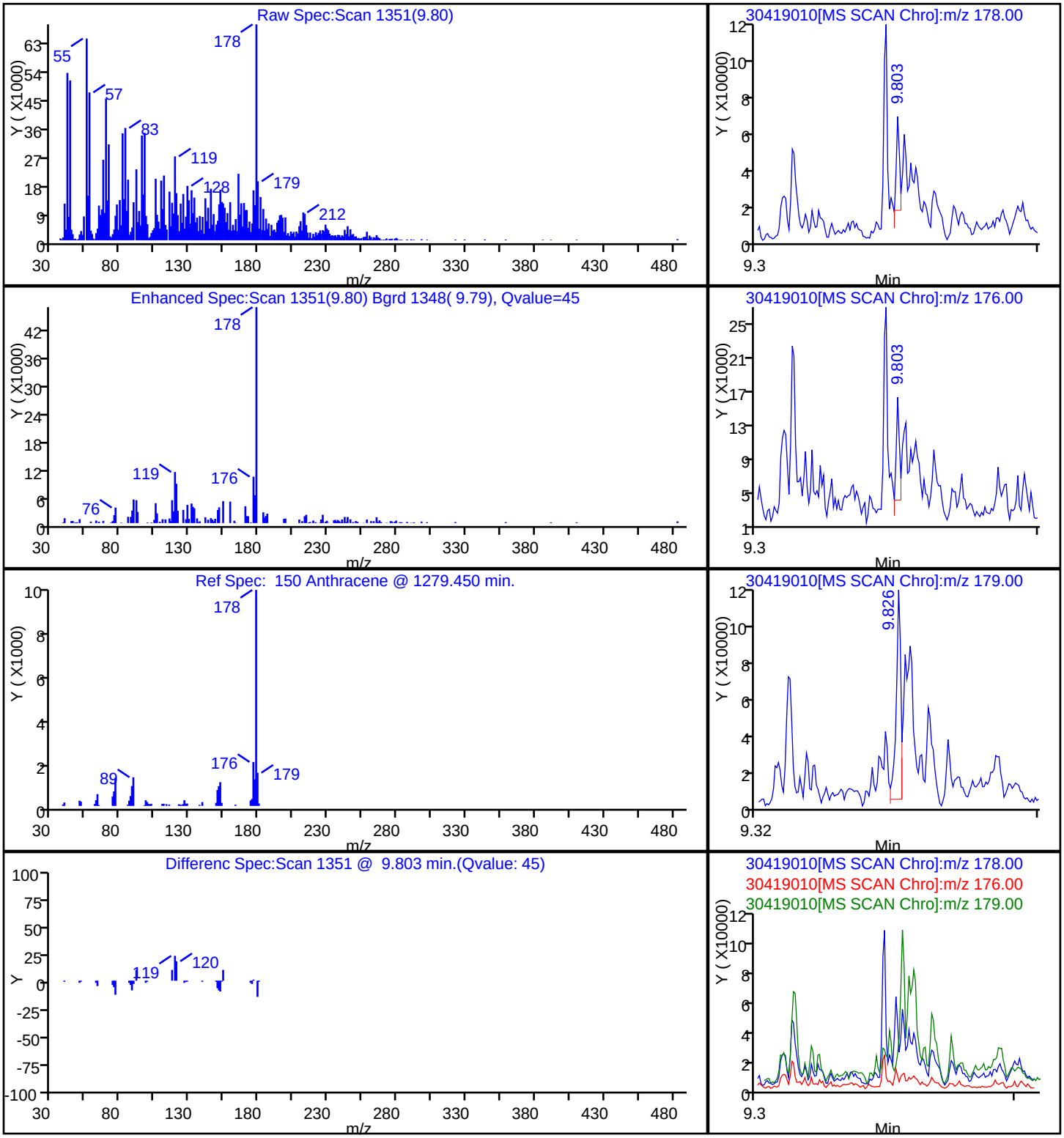
Report Date: 22-Apr-2013 13:55:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419010.D

Injection Date:	19-Apr-2013 13:51:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

150 Anthracene



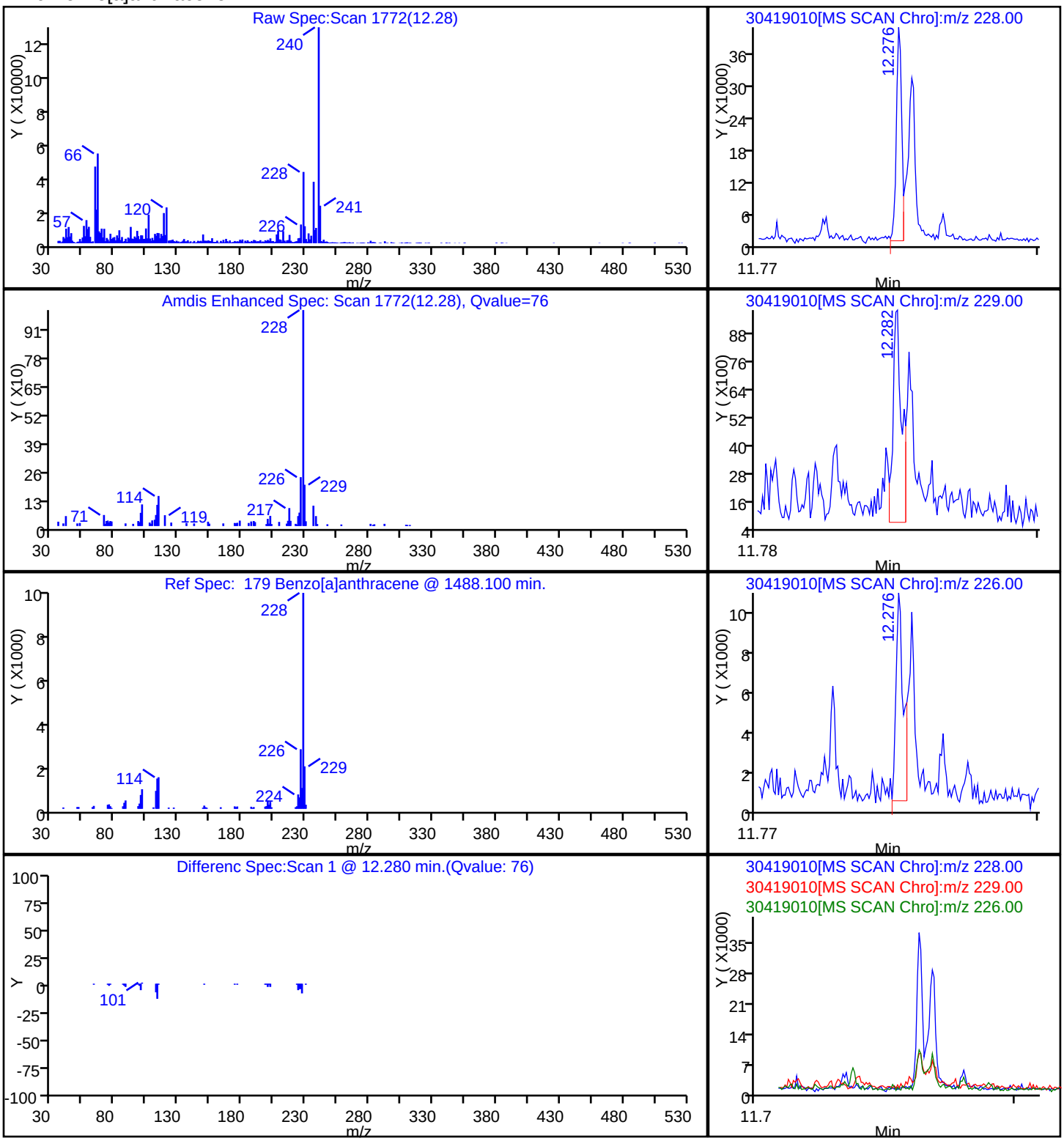
Report Date: 22-Apr-2013 13:55:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419010.D

Injection Date:	19-Apr-2013 13:51:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

179 Benzo[a]anthracene



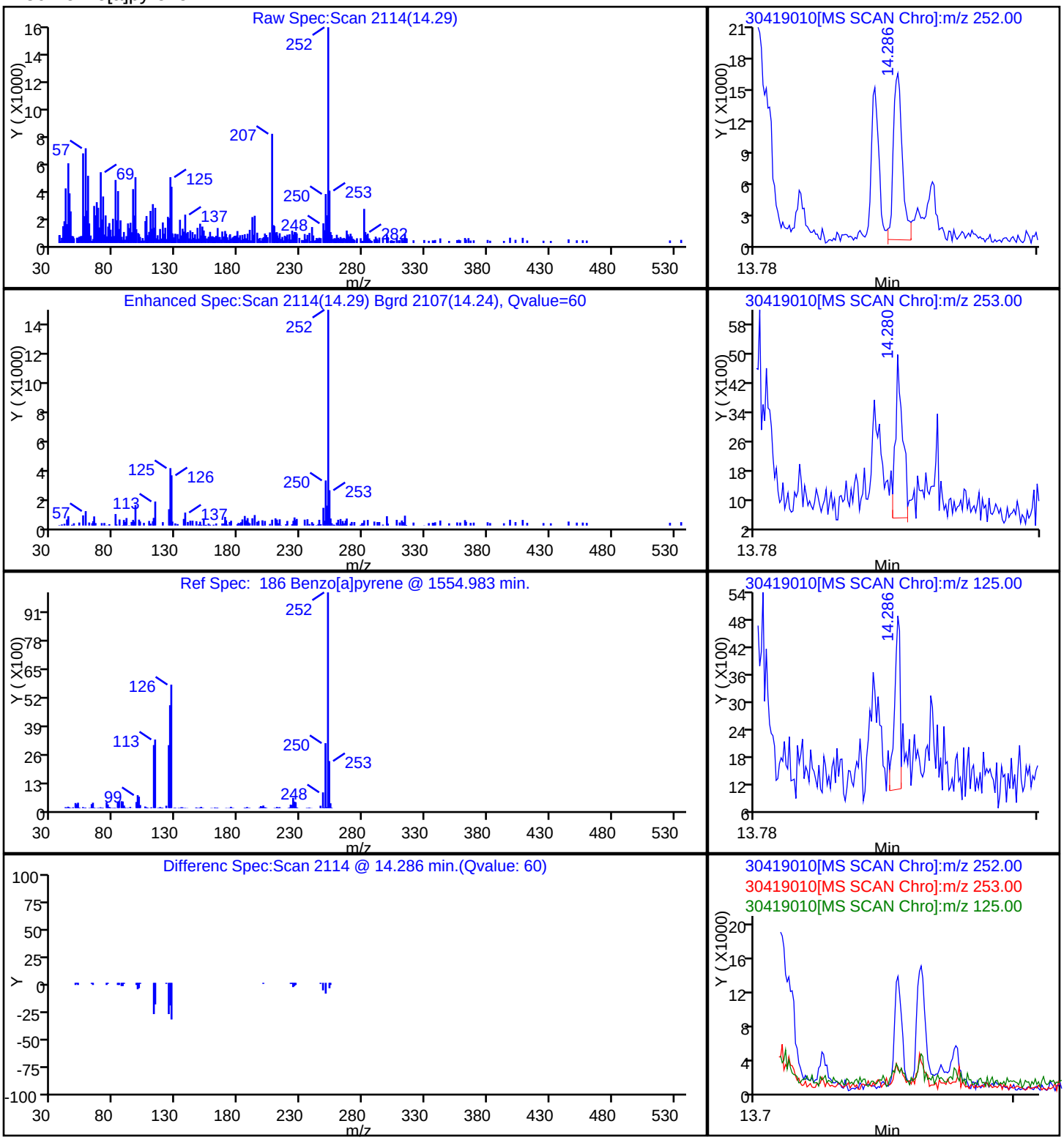
Report Date: 22-Apr-2013 13:55:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419010.D

Injection Date:	19-Apr-2013 13:51:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

186 Benzo[a]pyrene



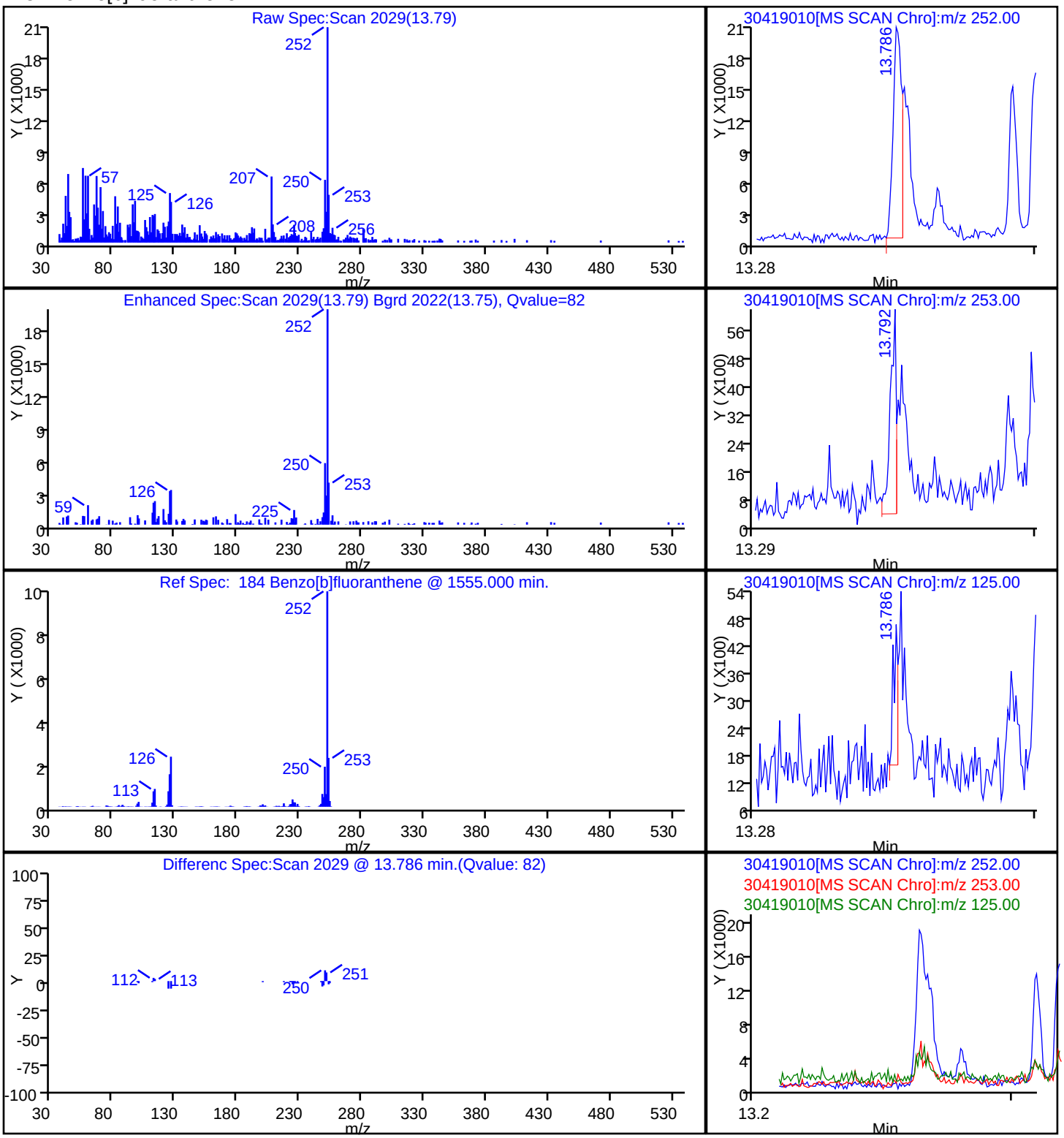
Report Date: 22-Apr-2013 13:55:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419010.D

Injection Date:	19-Apr-2013 13:51:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

184 Benzo[b]fluoranthene



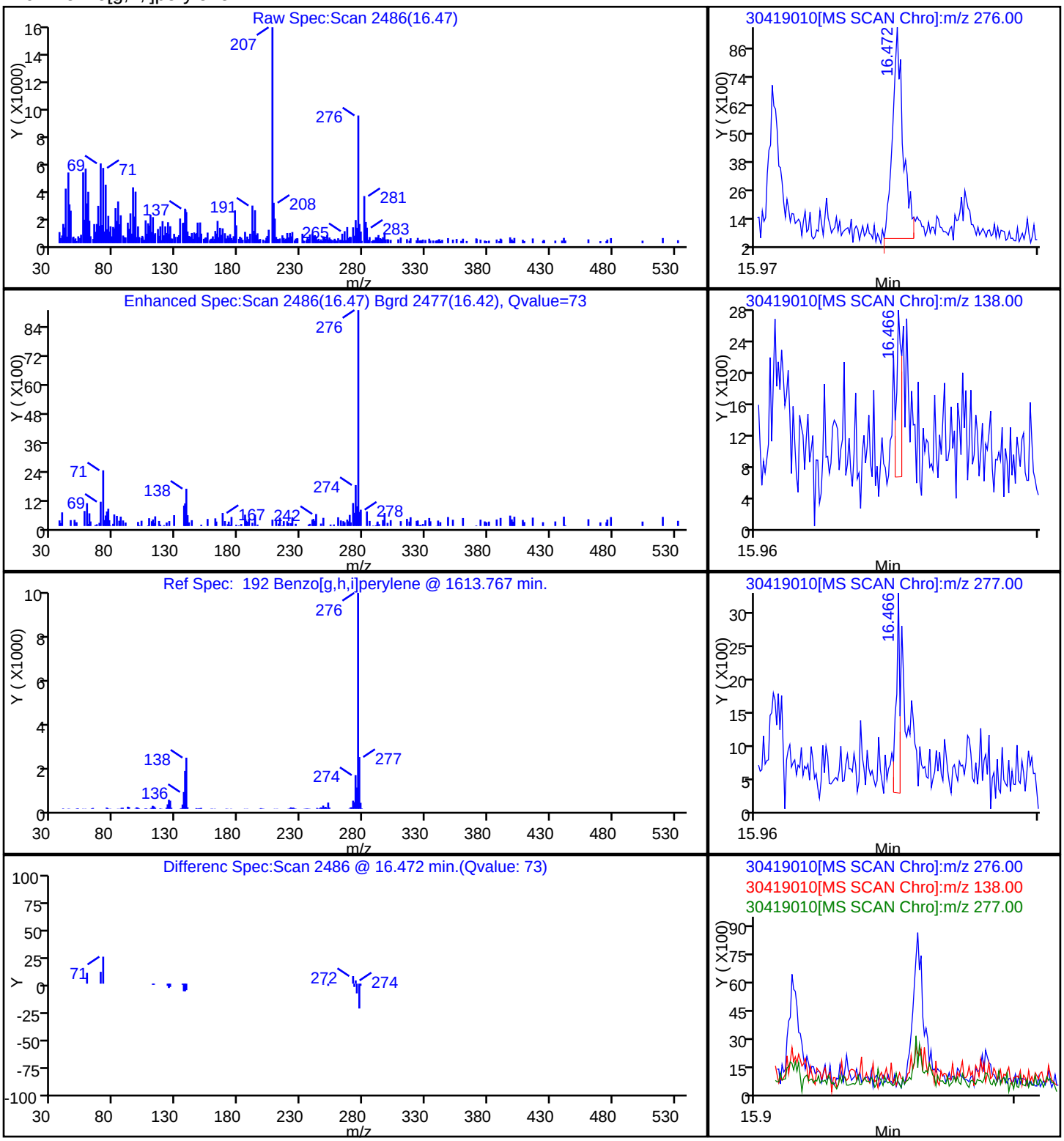
Report Date: 22-Apr-2013 13:55:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419010.D

Injection Date:	19-Apr-2013 13:51:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

192 Benzo[g,h,i]perylene



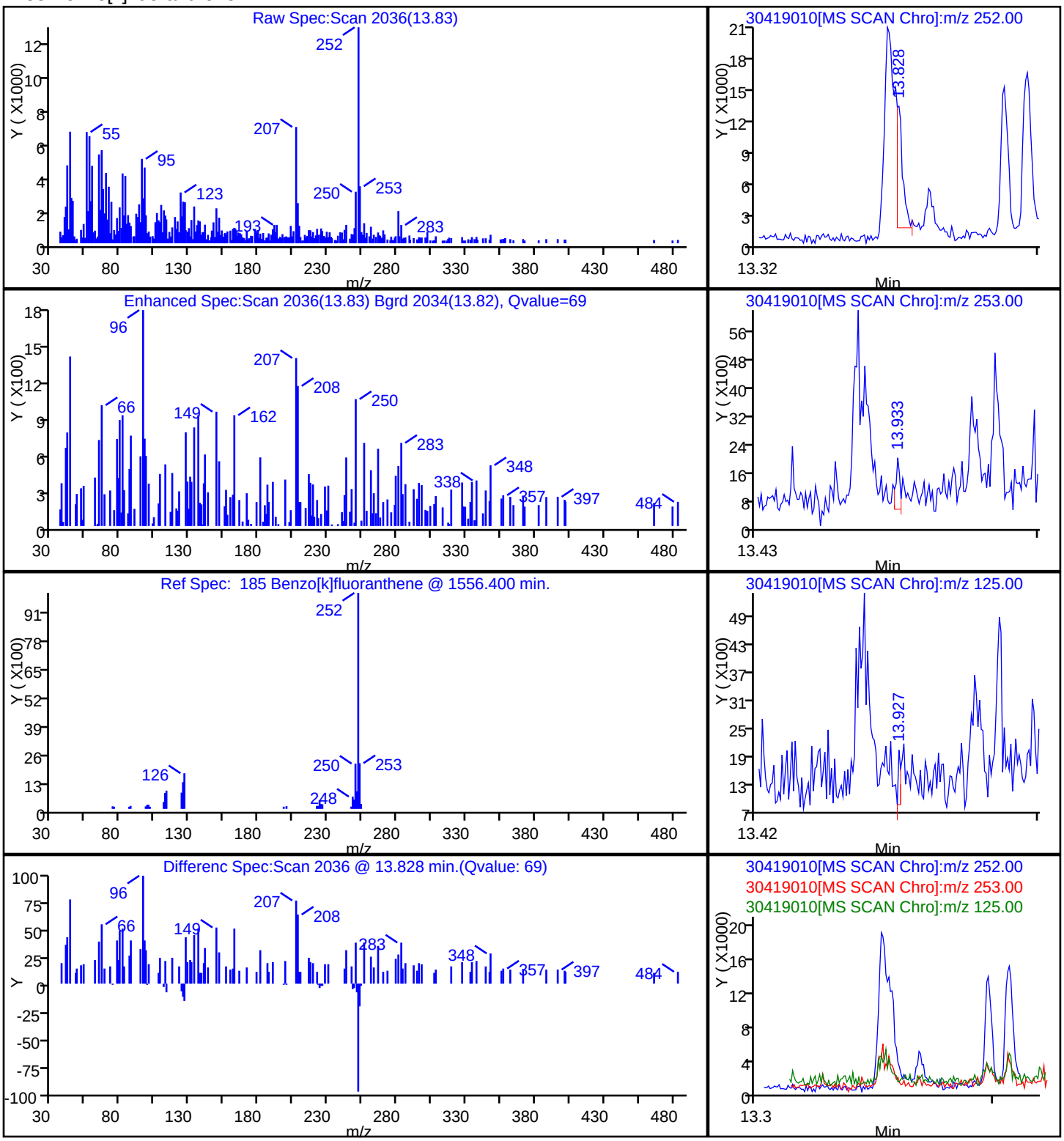
Report Date: 22-Apr-2013 13:55:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419010.D

Injection Date:	19-Apr-2013 13:51:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

185 Benzo[k]fluoranthene

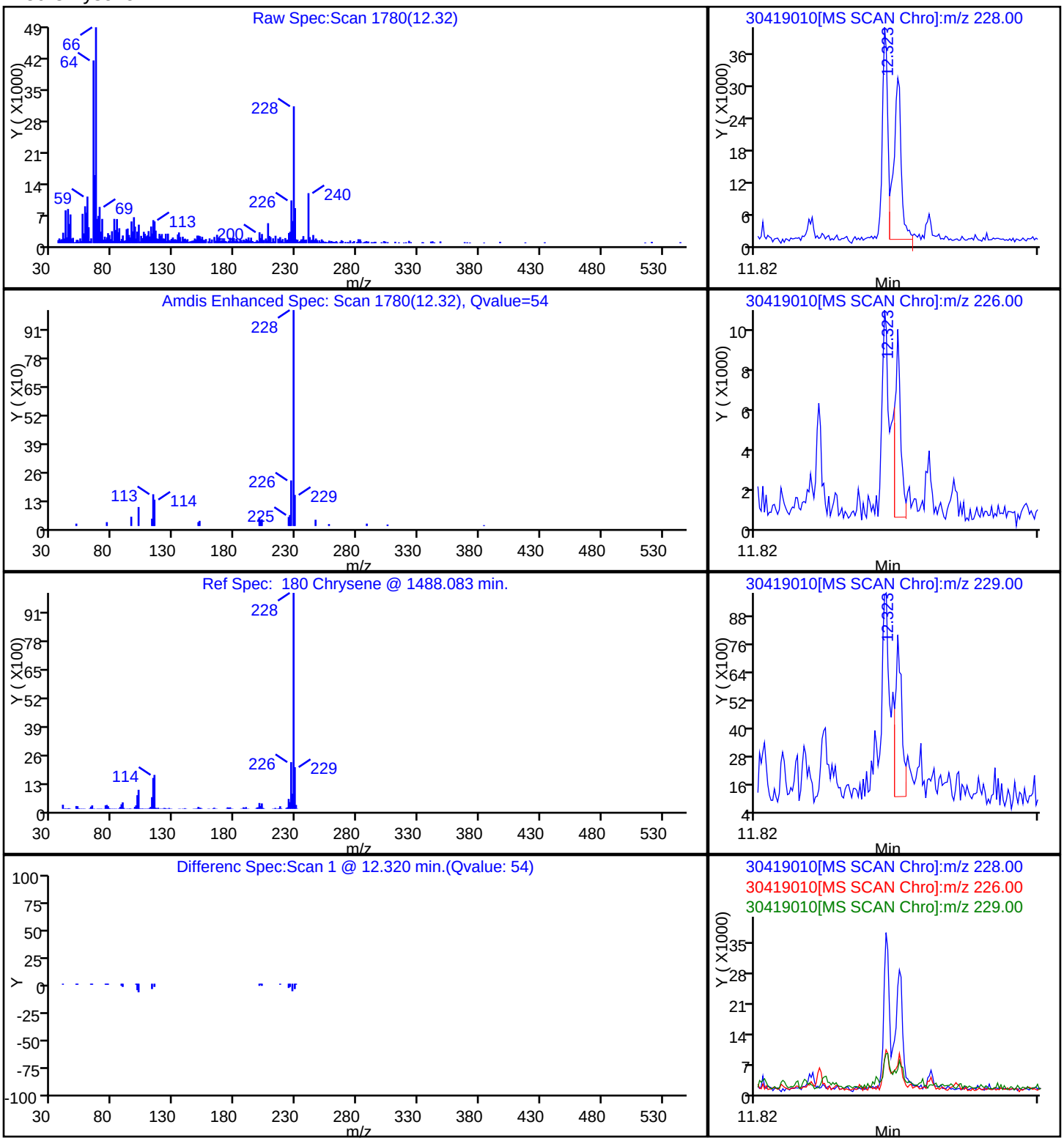


Report Date: 22-Apr-2013 13:55:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419010.D		
Injection Date:	19-Apr-2013 13:51:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

180 Chrysene

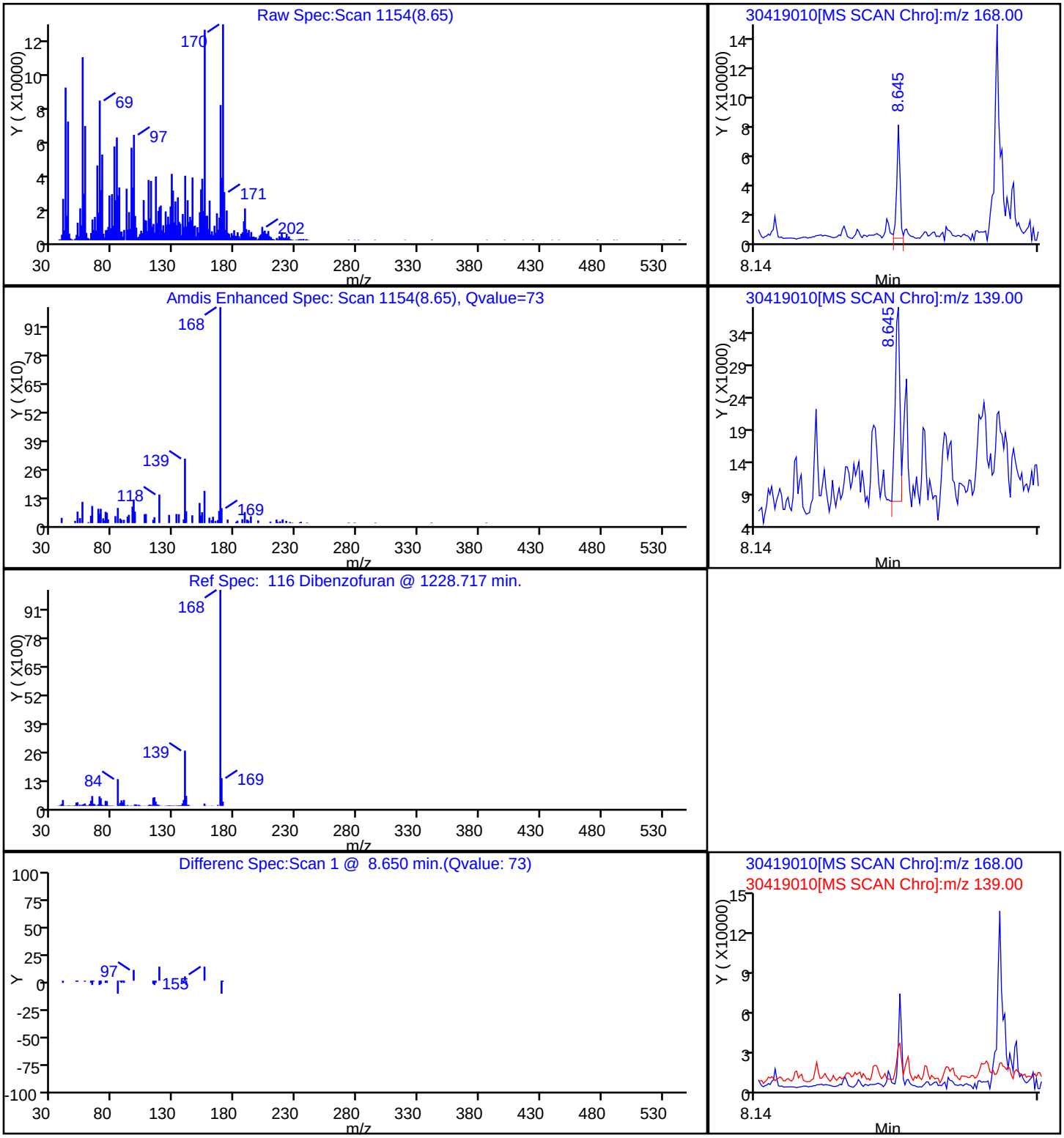


Report Date: 22-Apr-2013 13:55:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419010.D		
Injection Date:	19-Apr-2013 13:51:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

116 Dibenzofuran



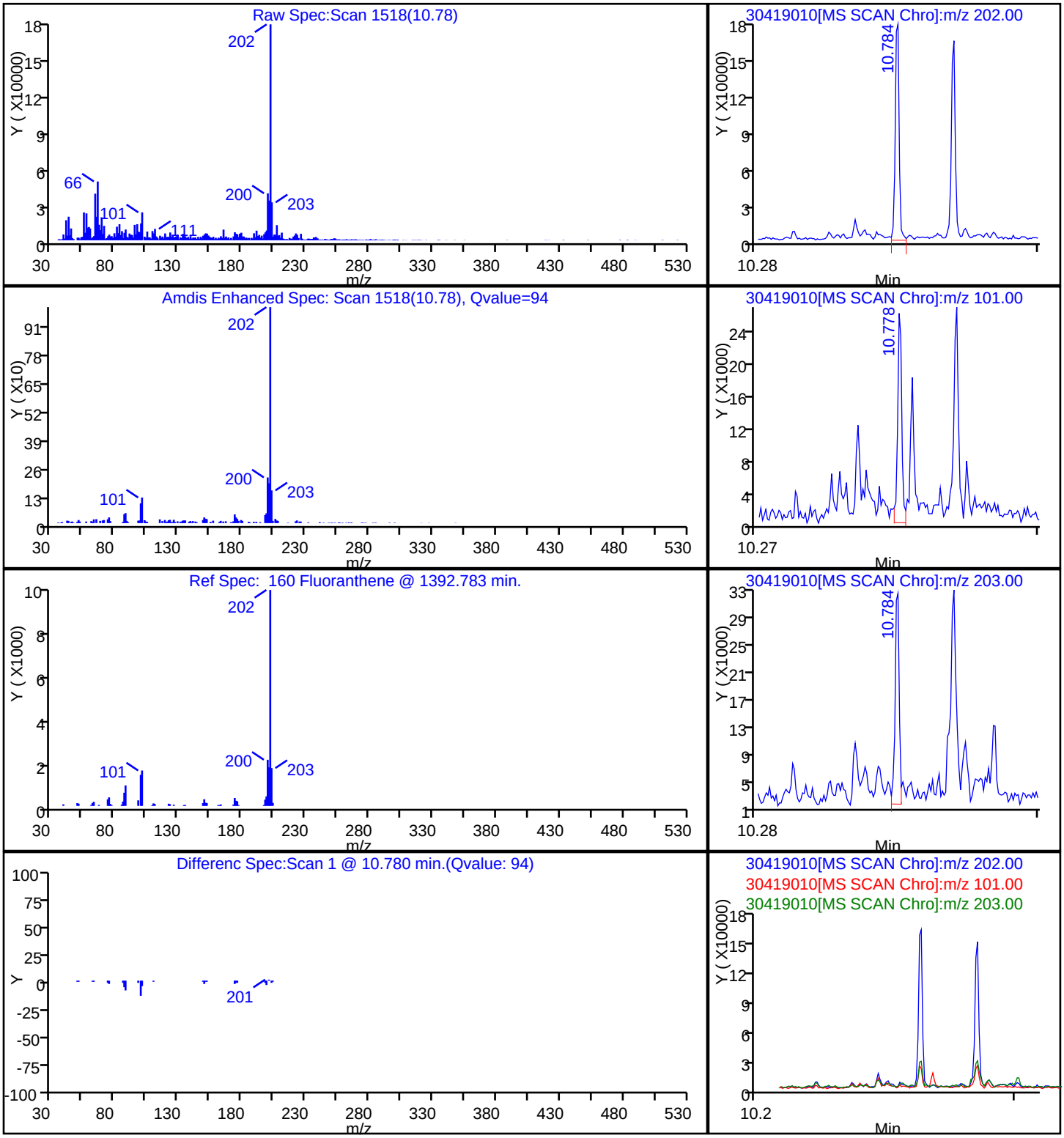
Report Date: 22-Apr-2013 13:55:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419010.D

Injection Date:	19-Apr-2013 13:51:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

160 Fluoranthene



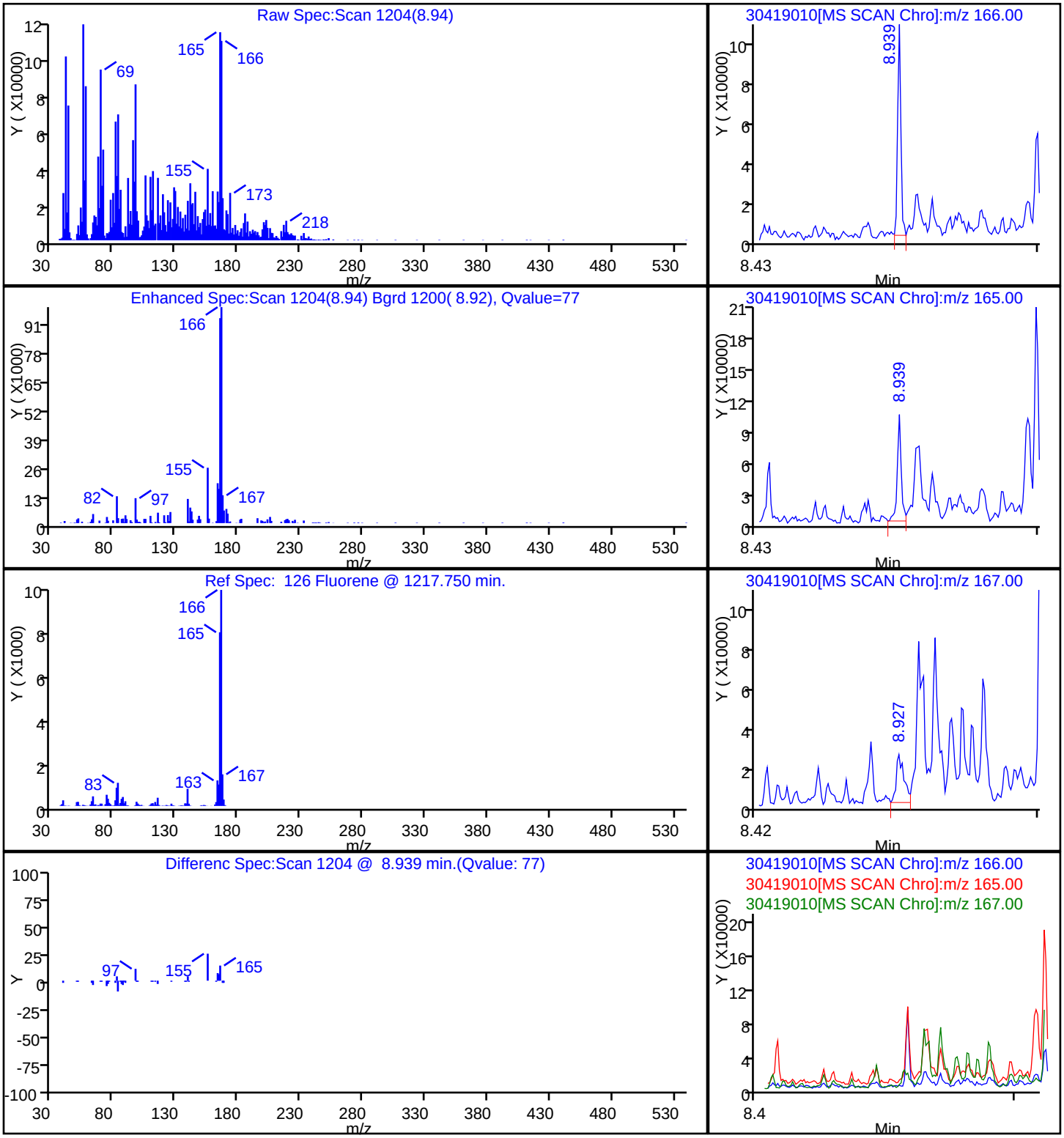
Report Date: 22-Apr-2013 13:55:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419010.D

Injection Date:	19-Apr-2013 13:51:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

126 Fluorene



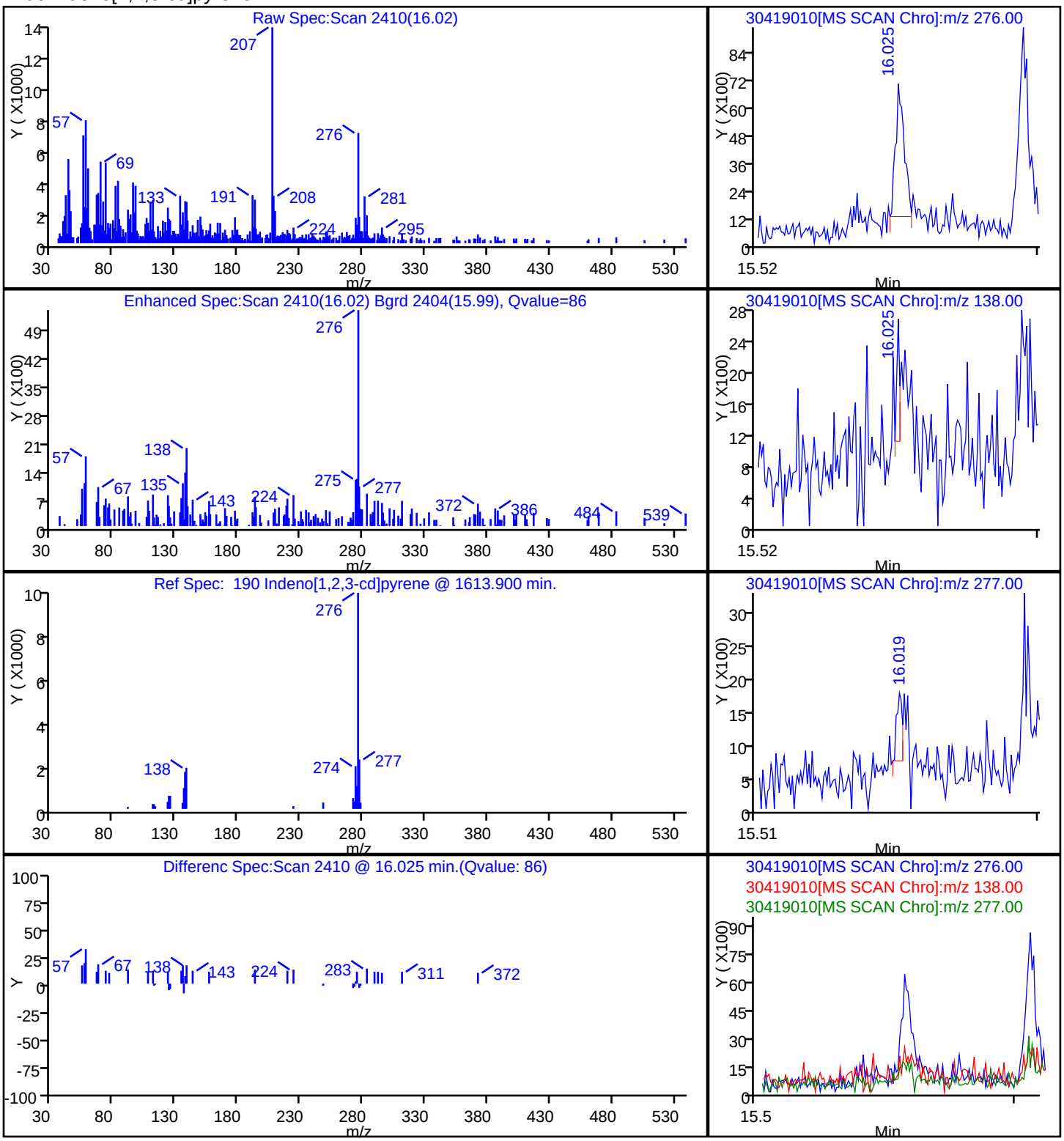
Report Date: 22-Apr-2013 13:55:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419010.D

Injection Date:	19-Apr-2013 13:51:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

190 Indeno[1,2,3-cd]pyrene



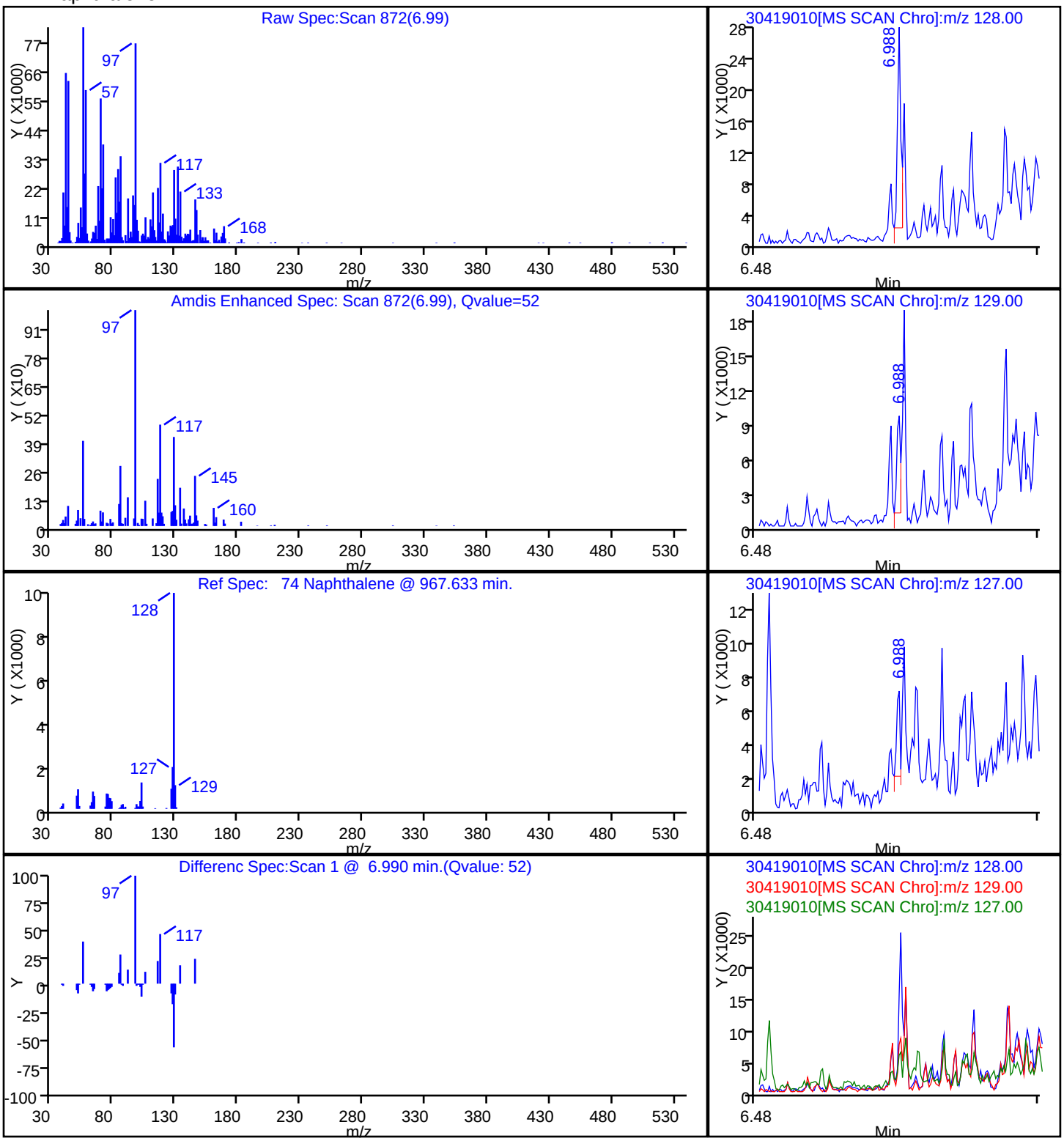
Report Date: 22-Apr-2013 13:55:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419010.D

Injection Date:	19-Apr-2013 13:51:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

74 Naphthalene



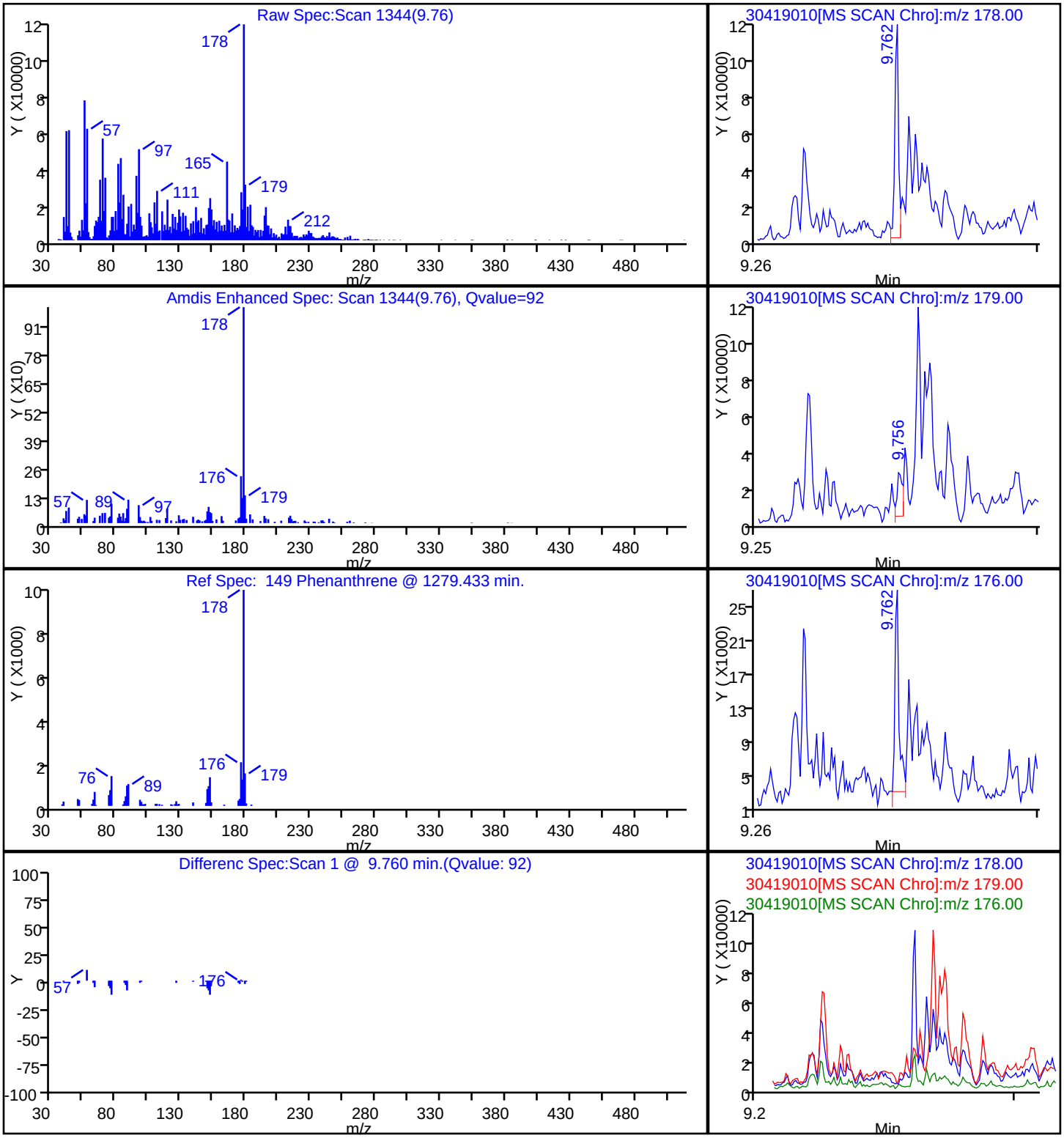
Report Date: 22-Apr-2013 13:55:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419010.D

Injection Date:	19-Apr-2013 13:51:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

149 Phenanthrene



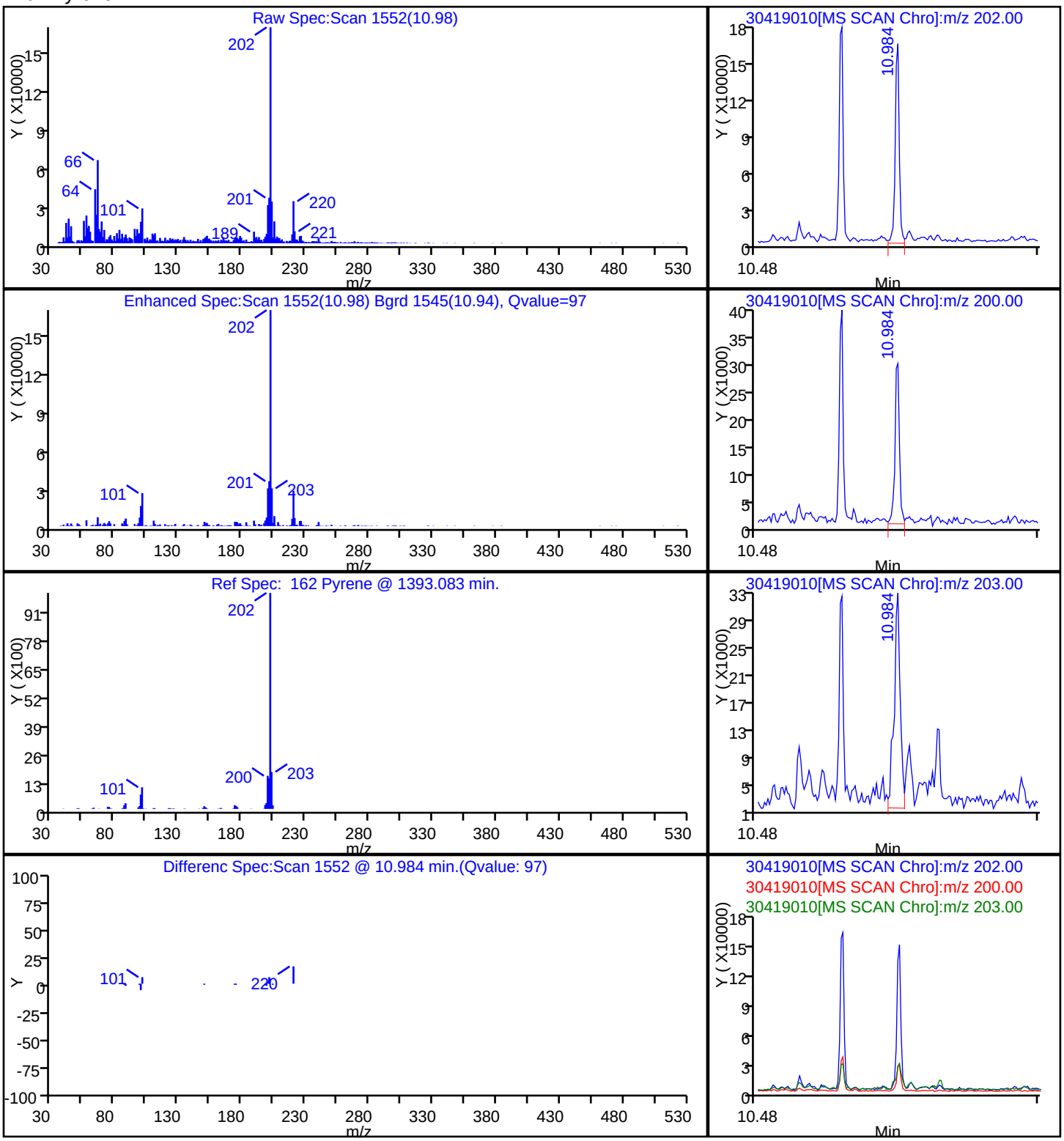
Report Date: 22-Apr-2013 13:55:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419010.D

Injection Date:	19-Apr-2013 13:51:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

162 Pyrene



Manual Integration/User Assign Peak Report

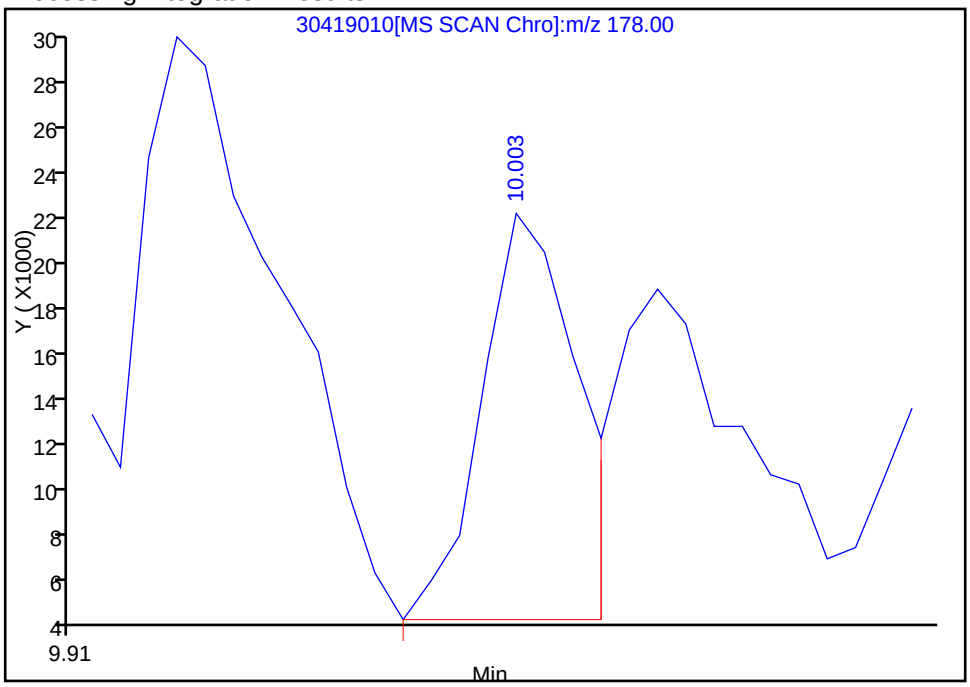
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419010.D		
Injection Date:	19-Apr-2013 13:51:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

150 Anthracene, Signal: 1, m/z: 178.0 Type: quant, RT: 9.80

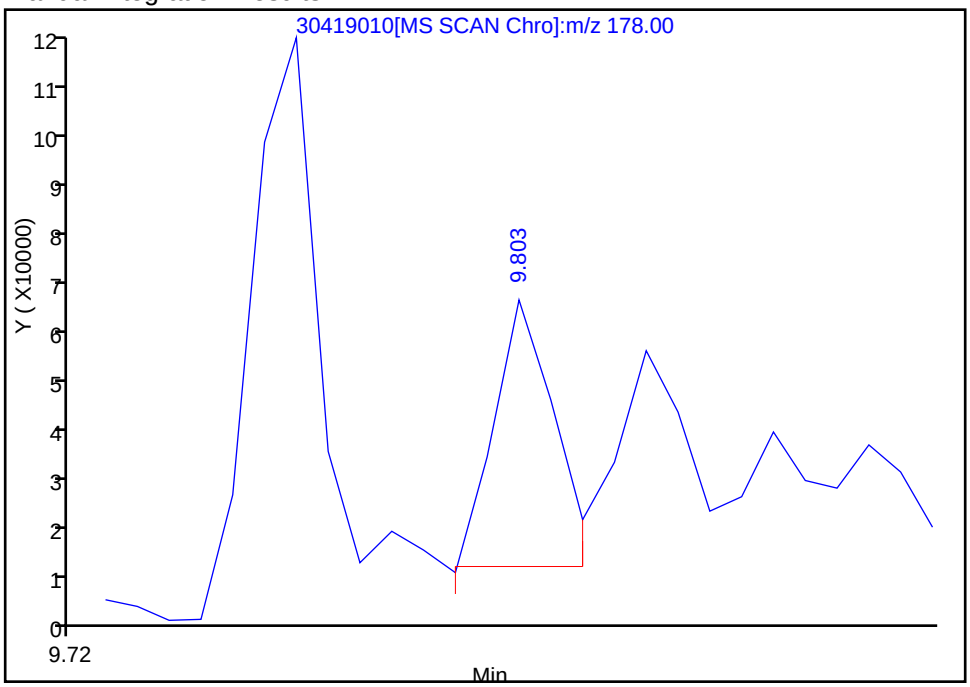
Processing Integration Results

RT: 10.00
Response: 24709
Amount: 0.198738



Manual Integration Results

RT: 9.80
Response: 37920
Amount: 0.304995



Reviewer: gruberj, 22-Apr-2013 09:42:29
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

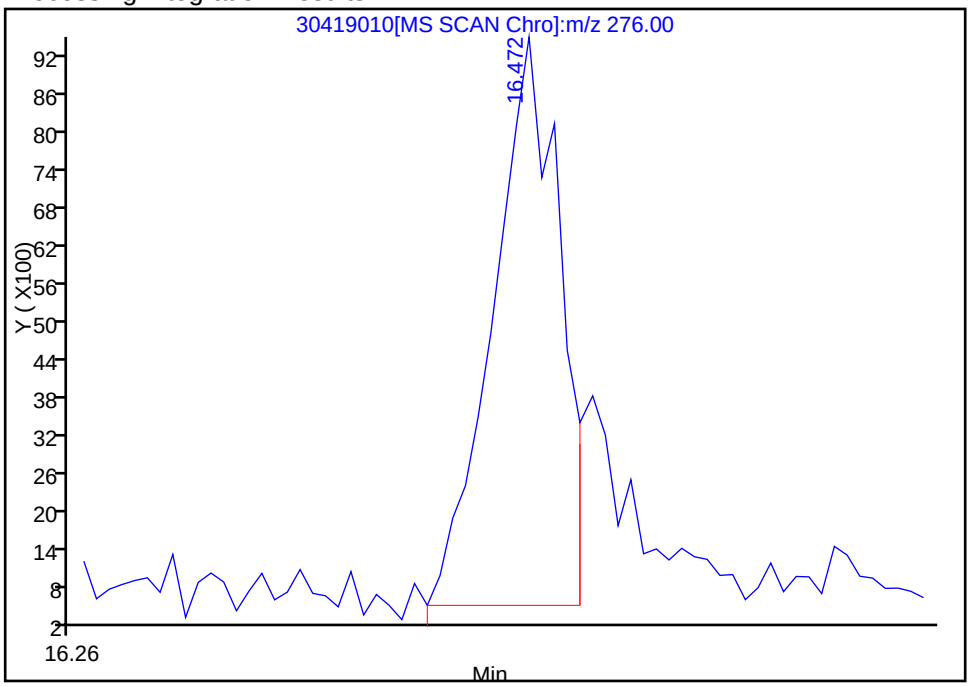
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419010.D		
Injection Date:	19-Apr-2013 13:51:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

192 Benzo[g,h,i]perylene, Signal: 1, m/z: 276.0 Type: quant, RT: 16.48

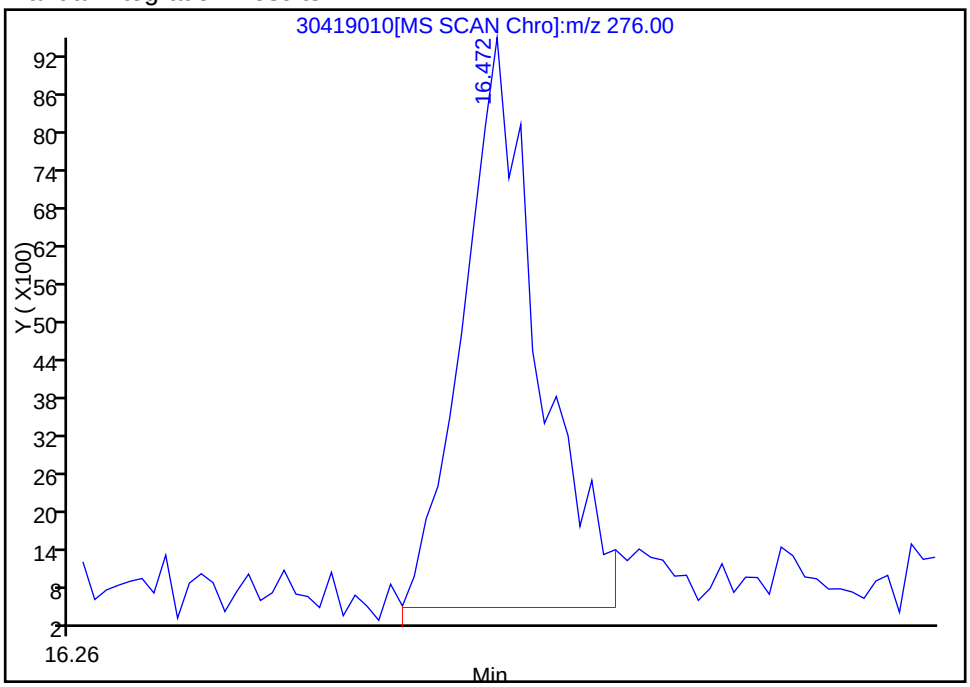
Processing Integration Results

RT: 16.47
Response: 19251
Amount: 0.171873



Manual Integration Results

RT: 16.47
Response: 23253
Amount: 0.207603



Reviewer: gruberj, 22-Apr-2013 09:42:29
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

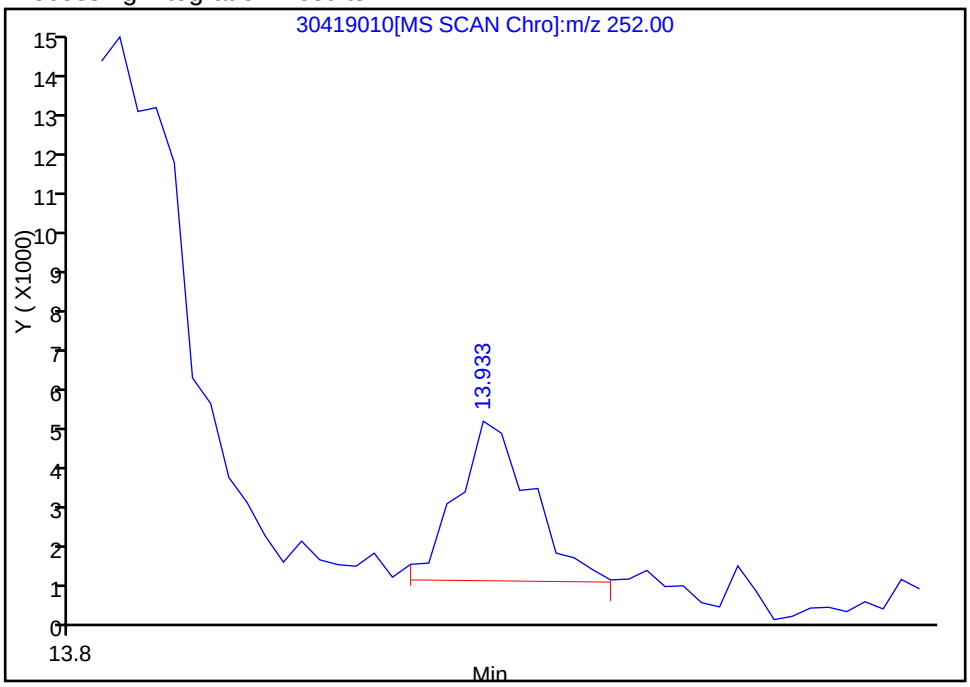
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419010.D		
Injection Date:	19-Apr-2013 13:51:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

185 Benzo[k]fluoranthene, Signal: 1, m/z: 252.0 Type: quant, RT: 13.83

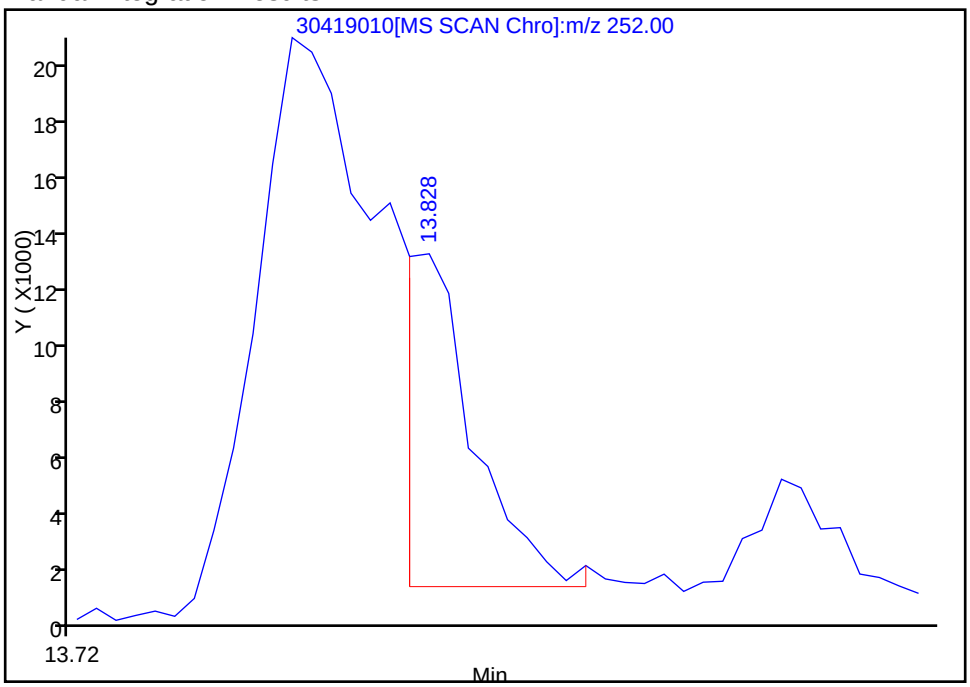
Processing Integration Results

RT: 13.93
Response: 6568
Amount: 0.046859



Manual Integration Results

RT: 13.83
Response: 16719
Amount: 0.119281



Reviewer: gruberj, 22-Apr-2013 09:42:29
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0017-0001-SO | Lab Sample ID: 240-22756-11

Matrix: Solid | Lab File ID: 30419020.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 09:12

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.05(g) | Date Analyzed: 04/19/2013 17:45

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 30.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	4.7	U	9.5	4.7	4.7
208-96-8	Acenaphthylene	4.7	U	9.5	4.7	4.7
120-12-7	Anthracene	4.7	U	9.5	4.7	4.7
56-55-3	Benzo[a]anthracene	9.2	J	9.5	4.7	4.7
50-32-8	Benzo[a]pyrene	10		9.5	4.7	4.7
205-99-2	Benzo[b]fluoranthene	24		9.5	4.7	4.7
191-24-2	Benzo[g,h,i]perylene	4.7	U	9.5	4.7	4.7
65-85-0	Benzoic acid	480	U	940	480	480
207-08-9	Benzo[k]fluoranthene	4.7	U	9.5	4.7	4.7
100-51-6	Benzyl alcohol	39	U	470	39	30
111-91-1	Bis(2-chloroethoxy)methane	39	U	140	39	31
111-44-4	Bis(2-chloroethyl)ether	4.7	U	140	4.7	2.9
108-60-1	bis (2-chloroisopropyl) ether	39	U	140	39	14
117-81-7	Bis(2-ethylhexyl) phthalate	27	J	100	39	27
101-55-3	4-Bromophenyl phenyl ether	39	U	71	39	19
85-68-7	Butyl benzyl phthalate	39	U	100	39	14
86-74-8	Carbazole	39	U	71	39	39
106-47-8	4-Chloroaniline	39	U	210	39	24
59-50-7	4-Chloro-3-methylphenol	39	U	210	39	30
91-58-7	2-Chloronaphthalene	4.7	U	71	4.7	4.7
95-57-8	2-Chlorophenol	39	U	71	39	39
7005-72-3	4-Chlorophenyl phenyl ether	39	U	71	39	19
218-01-9	Chrysene	17		9.5	4.7	1.6
53-70-3	Dibenz(a,h)anthracene	4.7	U	9.5	4.7	4.7
132-64-9	Dibenzofuran	4.7	U	71	4.7	4.7
95-50-1	1,2-Dichlorobenzene	39	U	71	39	14
541-73-1	1,3-Dichlorobenzene	39	U	71	39	16
106-46-7	1,4-Dichlorobenzene	39	U	71	39	29
91-94-1	3,3'-Dichlorobenzidine	110	U	140	110	26
120-83-2	2,4-Dichlorophenol	39	U	210	39	29
84-66-2	Diethyl phthalate	39	U	100	39	23
105-67-9	2,4-Dimethylphenol	110	U	210	110	29
131-11-3	Dimethyl phthalate	39	U	100	39	24
84-74-2	Di-n-butyl phthalate	39	U	100	39	21

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0017-0001-SO | Lab Sample ID: 240-22756-11

Matrix: Solid | Lab File ID: 30419020.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 09:12

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.05(g) | Date Analyzed: 04/19/2013 17:45

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 30.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	110	U	210	110	110
51-28-5	2,4-Dinitrophenol	110	U	470	110	110
121-14-2	2,4-Dinitrotoluene	39	U	290	39	39
606-20-2	2,6-Dinitrotoluene	39	U	290	39	30
117-84-0	Di-n-octyl phthalate	39	U	100	39	39
206-44-0	Fluoranthene	30		9.5	4.7	4.7
86-73-7	Fluorene	4.7	U	9.5	4.7	4.7
118-74-1	Hexachlorobenzene	4.7	U	9.5	4.7	3.0
87-68-3	Hexachlorobutadiene	39	U	71	39	39
77-47-4	Hexachlorocyclopentadiene	39	U	470	39	39
67-72-1	Hexachloroethane	39	U	71	39	13
193-39-5	Indeno[1,2,3-cd]pyrene	6.5	J	9.5	4.7	4.7
78-59-1	Isophorone	39	U	71	39	19
91-57-6	2-Methylnaphthalene	5.2	J	9.5	4.7	4.7
95-48-7	2-Methylphenol	110	U	290	110	110
15831-10-4	3 & 4 Methylphenol	110	U	570	110	29
91-20-3	Naphthalene	7.0	J	9.5	4.7	4.7
88-74-4	2-Nitroaniline	39	U	290	39	13
99-09-2	3-Nitroaniline	110	U	290	110	23
100-01-6	4-Nitroaniline	39	U	290	39	37
98-95-3	Nitrobenzene	4.7	U	140	4.7	3.1
88-75-5	2-Nitrophenol	39	U	71	39	39
100-02-7	4-Nitrophenol	110	U	470	110	110
621-64-7	N-Nitrosodi-n-propylamine	39	U	71	39	39
86-30-6	N-Nitrosodiphenylamine	39	U	71	39	30
87-86-5	Pentachlorophenol	110	U	210	110	110
85-01-8	Phenanthrene	17		9.5	4.7	4.7
108-95-2	Phenol	39	U	71	39	39
129-00-0	Pyrene	16		9.5	4.7	4.7
120-82-1	1,2,4-Trichlorobenzene	39	U	71	39	39
95-95-4	2,4,5-Trichlorophenol	39	U	210	39	36
88-06-2	2,4,6-Trichlorophenol	110	U	210	110	110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0017-0001-SO | Lab Sample ID: 240-22756-11

Matrix: Solid | Lab File ID: 30419020.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 09:12

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.05(g) | Date Analyzed: 04/19/2013 17:45

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 30.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	56		45-105
367-12-4	2-Fluorophenol (Surr)	65		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	56		35-100
4165-62-2	Phenol-d5 (Surr)	67		40-100
1718-51-0	Terphenyl-d14 (Surr)	52		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	55		35-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419020.D
Lims ID: 240-22756-B-11-A
Client ID: 074SB-0017-0001-SO
Inject. Date: 19-Apr-2013 17:45:30
Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0019044-020
Misc. Info.: 240-22756-B-11-A
Operator: 001710
Instrument ID: A4HP10
Injection Vol: 1.0 ul
ALS Bottle#: 20
Lims Batch ID: 82653
Lims Sample ID: 20
Detector: MS SCAN

Method: \\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m
Last Update: 22-Apr-2013 13:55:06
Calib Date: 12-Apr-2013 00:58:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: 5% phenyl
Column Dia: 0.18 mm
Process Host: XAWRK022

First Level Reviewer: gruberj
Date: 22-Apr-2013 11:34:37

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.848	5.848	0.0	98	126819	4.00	
* 2 Naphthalene-d8	136	6.971	6.970	0.001	99	497211	4.00	
* 3 Acenaphthene-d10	164	8.475	8.475	0.0	91	303437	4.00	
* 4 Phenanthrene-d10	188	9.738	9.738	0.0	97	505239	4.00	
* 5 Chrysene-d12	240	12.294	12.294	0.0	85	557428	4.00	
* 6 Perylene-d12	264	14.374	14.368	0.006	86	470670	4.00	
$ 7 2-Fluorophenol	112	4.585	4.573	0.012	91	358500	9.77	
$ 8 Phenol-d5	99	5.490	5.490	0.0	90	488165	9.98	
$ 9 Nitrobenzene-d5	82	6.336	6.336	0.0	89	259247	5.58	
$ 10 2-Fluorobiphenyl (Surr)	172	7.887	7.887	0.0	99	543033	5.55	
$ 11 2,4,6-Tribromophenol	330	9.139	9.144	-0.005	87	91931	8.28	
$ 12 Terphenyl-d14	244	11.101	11.101	0.0	98	571021	5.21	
43 Phenol	94		5.502					
45 Bis(2-chloroethyl)ether	93		5.601					
47 2-Chlorophenol	128		5.648					9
48 1,3-Dichlorobenzene	146		5.795					
49 1,4-Dichlorobenzene	146		5.866					
50 Benzyl alcohol	108		5.960					9
51 1,2-Dichlorobenzene	146		6.001					
52 2-Methylphenol	108		6.054					
54 2,2'-oxybis[1-chloropropane]	45		6.083					
56 3 & 4 Methylphenol	108	6.189	6.183	0.006	79	4367	0.1197	
57 N-Nitrosodi-n-propylamine	70		6.195					
61 Hexachloroethane	117		6.307					9
62 Nitrobenzene	77		6.354					
64 Isophorone	82		6.559					
66 2-Nitrophenol	139		6.636					
65 2,4-Dimethylphenol	107		6.653					
70 Benzoic acid	122	6.683	6.712	-0.029	81	15079	1.23	
69 Bis(2-chloroethoxy)methane	93		6.741					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
72 2,4-Dichlorophenol	162		6.835					
73 1,2,4-Trichlorobenzene	180		6.918					
74 Naphthalene	128	6.988	6.988	0.0	25	8445	0.0732	
75 4-Chloroaniline	127		7.023					9
78 Hexachlorobutadiene	225		7.088					
85 4-Chloro-3-methylphenol	107		7.423					9
87 2-Methylnaphthalene	142	7.582	7.582	0.0	66	4203	0.0542	
89 Hexachlorocyclopentadiene	237		7.711					
93 2,4,6-Trichlorophenol	196		7.811					
94 2,4,5-Trichlorophenol	196		7.846					
100 2-Chloronaphthalene	162		7.999					9
102 2-Nitroaniline	65		8.075					9
105 Dimethyl phthalate	163		8.216					9
107 2,6-Dinitrotoluene	165		8.275					
109 Acenaphthylene	152		8.357					
110 3-Nitroaniline	138		8.422					
112 Acenaphthene	153		8.504					
111 2,4-Dinitrophenol	184		8.510					
113 4-Nitrophenol	109		8.539					
114 2,4-Dinitrotoluene	165		8.616					
116 Dibenzofuran	168		8.645					
121 Diethyl phthalate	149		8.815					
123 4-Chlorophenyl phenyl ether	204		8.927					
126 Fluorene	166		8.939					
125 4-Nitroaniline	138		8.939					
128 4,6-Dinitro-2-methylphenol	198		8.962					
129 N-Nitrosodiphenylamine	169		9.027					
139 4-Bromophenyl phenyl ether	248		9.344					
141 Hexachlorobenzene	284		9.403					
144 Pentachlorophenol	266		9.567					
149 Phenanthrene	178	9.761	9.761	0.0	48	21004	0.1793	
150 Anthracene	178		9.803					
152 Carbazole	167		9.932					
155 Di-n-butyl phthalate	149		10.196					
160 Fluoranthene	202	10.772	10.772	0.0	95	43150	0.3122	
162 Pyrene	202	10.984	10.984	0.0	85	24795	0.1722	
170 Butyl benzyl phthalate	149		11.583					
177 3,3'-Dichlorobenzidine	252		12.229					
175 Bis(2-ethylhexyl) phthalate	149	12.264	12.258	0.006	72	21995	0.2850	
179 Benzo[a]anthracene	228	12.276	12.282	-0.006	21	13348	0.0962	
180 Chrysene	228	12.329	12.329	0.0	60	23074	0.1813	
182 Di-n-octyl phthalate	149		13.175					
184 Benzo[b]fluoranthene	252	13.786	13.786	0.0	89	32172	0.2547	
185 Benzo[k]fluoranthene	252		13.827					M
186 Benzo[a]pyrene	252	14.286	14.286	0.0	35	12442	0.1061	
190 Indeno[1,2,3-cd]pyrene	276	16.031	16.031	0.0	31	8735	0.0679	
191 Dibenz(a,h)anthracene	278		16.066					
192 Benzo[g,h,i]perylene	276		16.477					

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

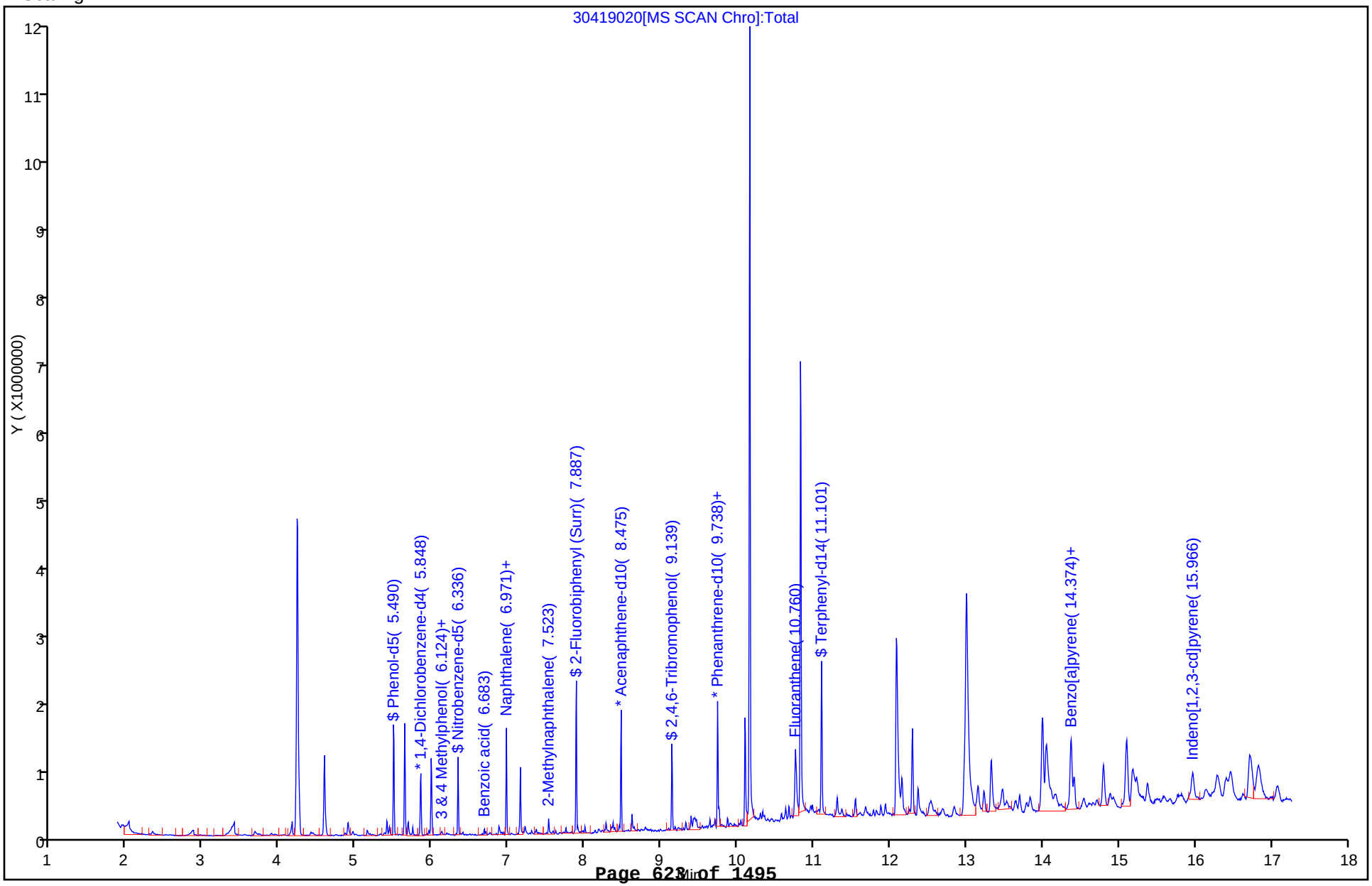
Report Date: 22-Apr-2013 13:55:30 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419020.D

Injection Date:	19-Apr-2013 17:45:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0017-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	20
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



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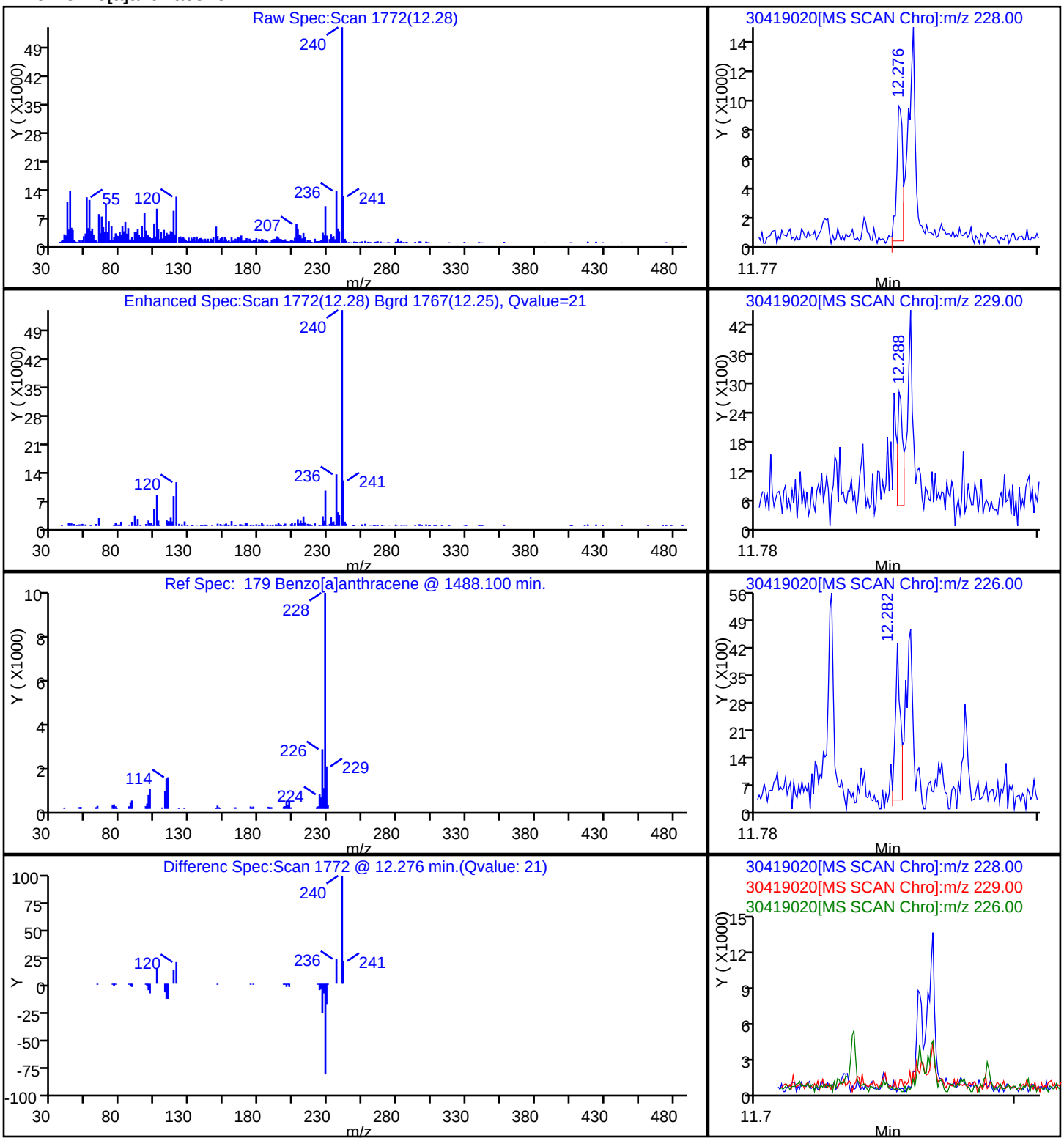
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

179 Benzo[a]anthracene



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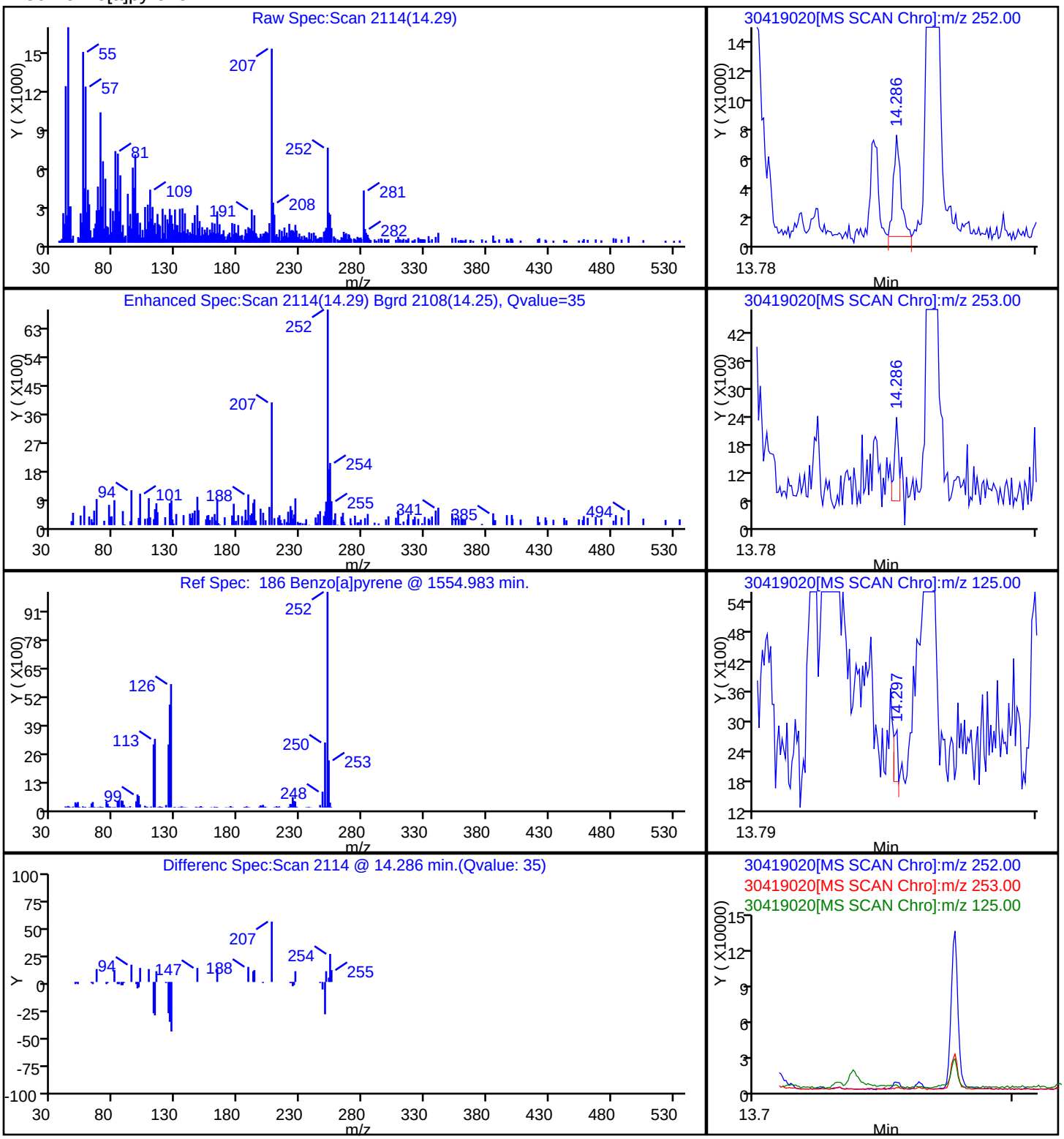
Lims Batch ID:	82653	Lims Sample ID:	20
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

186 Benzo[a]pyrene



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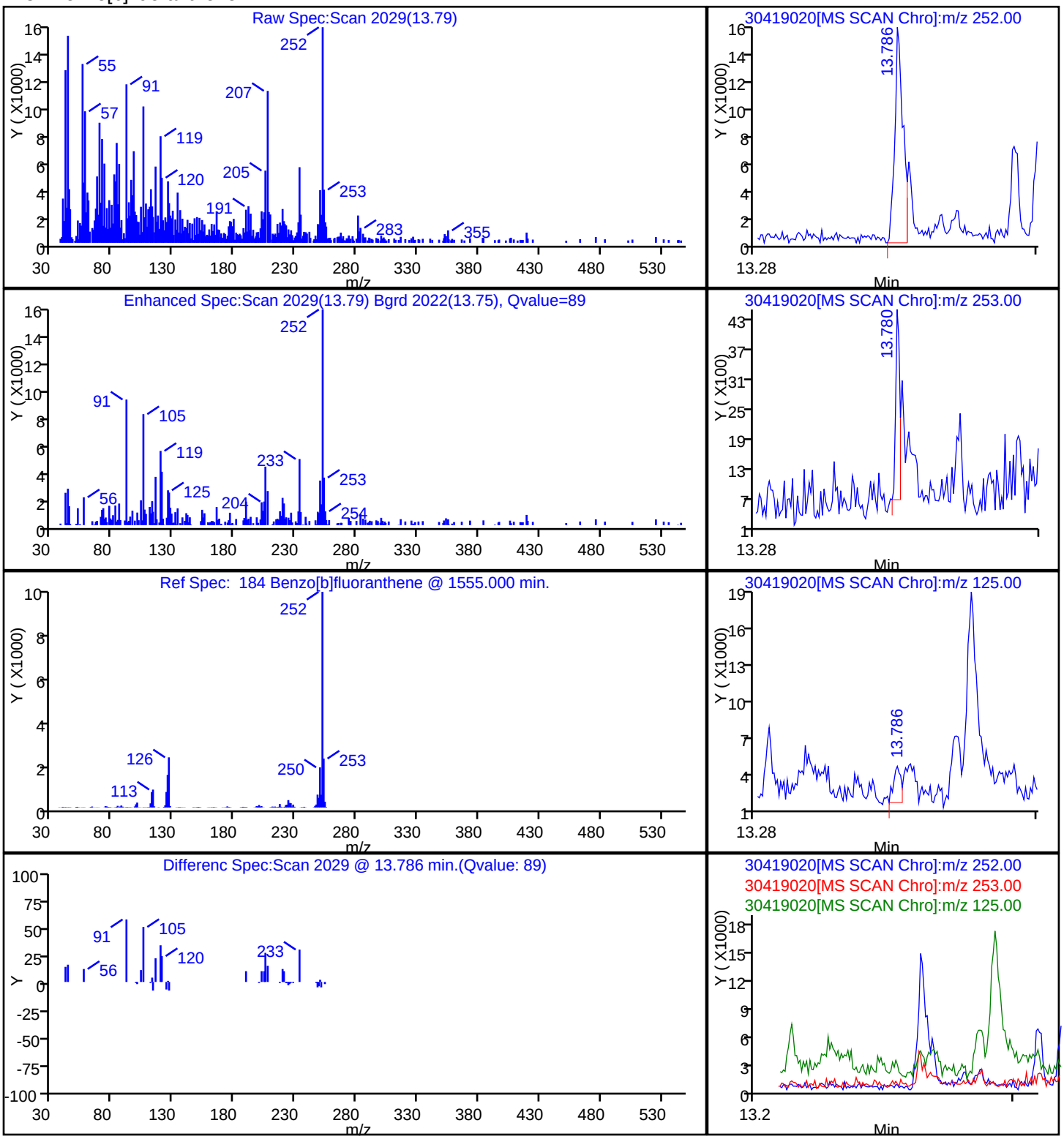
Lims Batch ID:	82653	Lims Sample ID:	20
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

184 Benzo[b]fluoranthene



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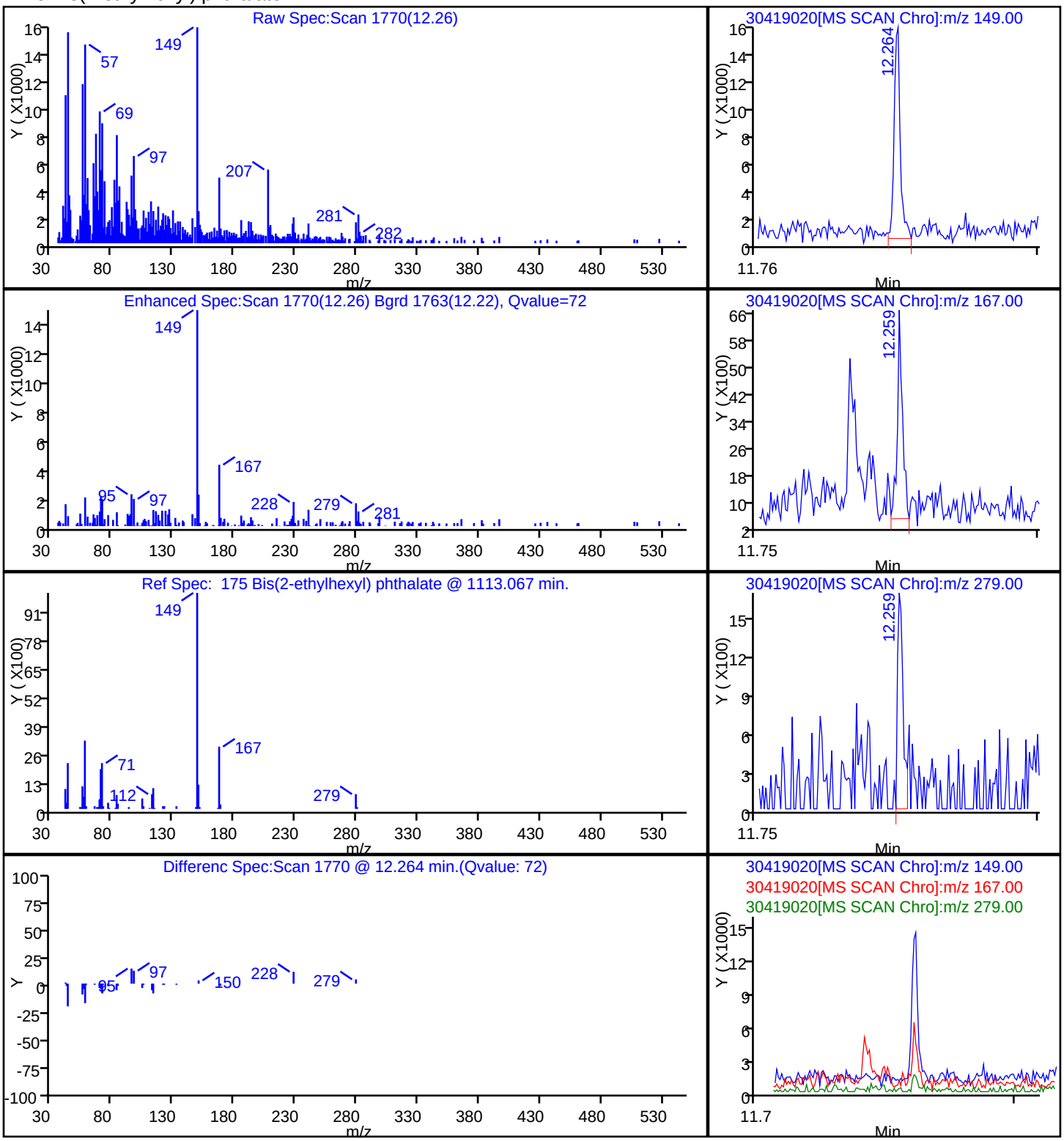
Lims Batch ID:	82653	Lims Sample ID:	20
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

175 Bis(2-ethylhexyl) phthalate



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Operator ID:	001710	Injection Vol:	1.0 ul
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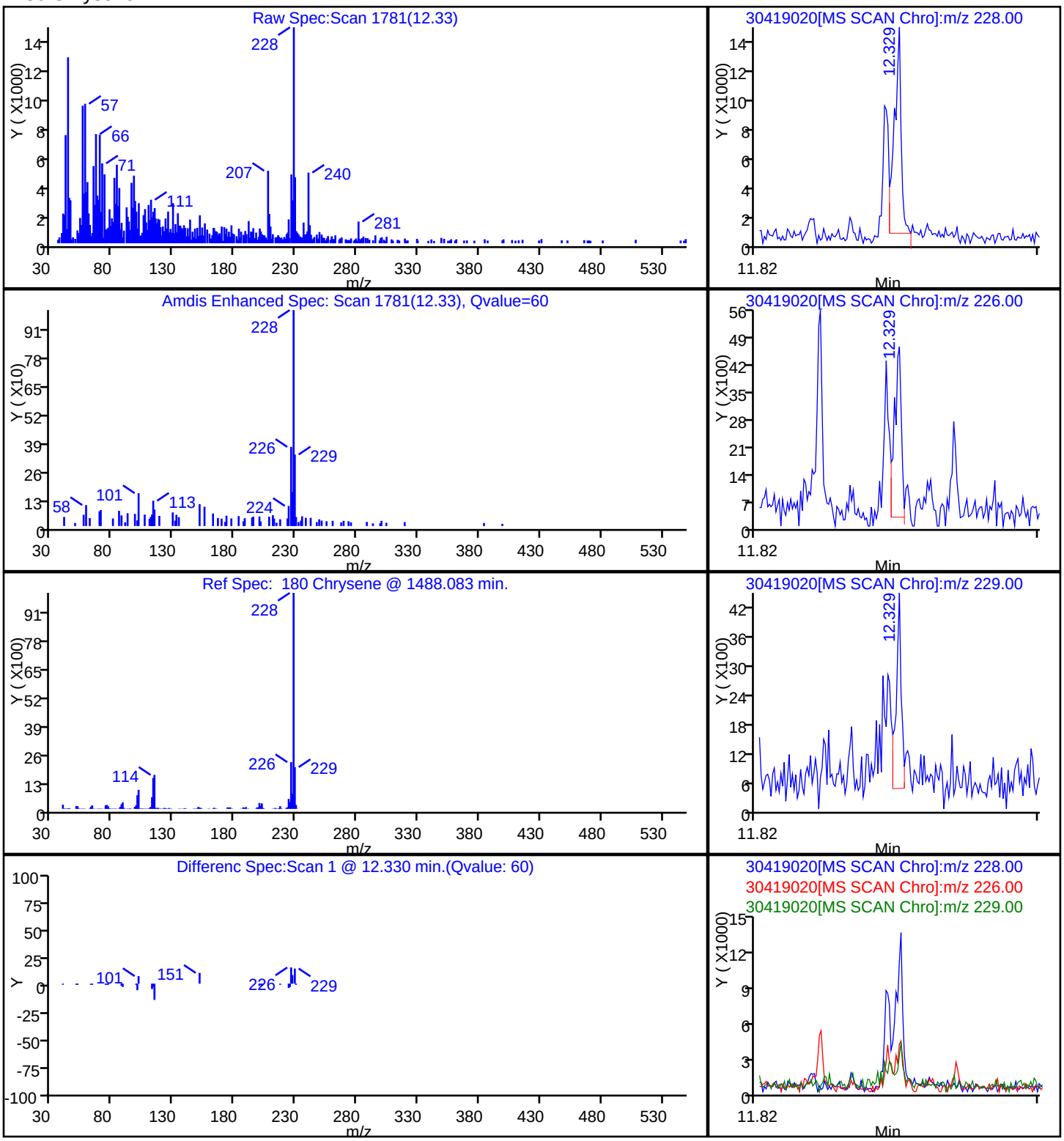
180 Chrysene



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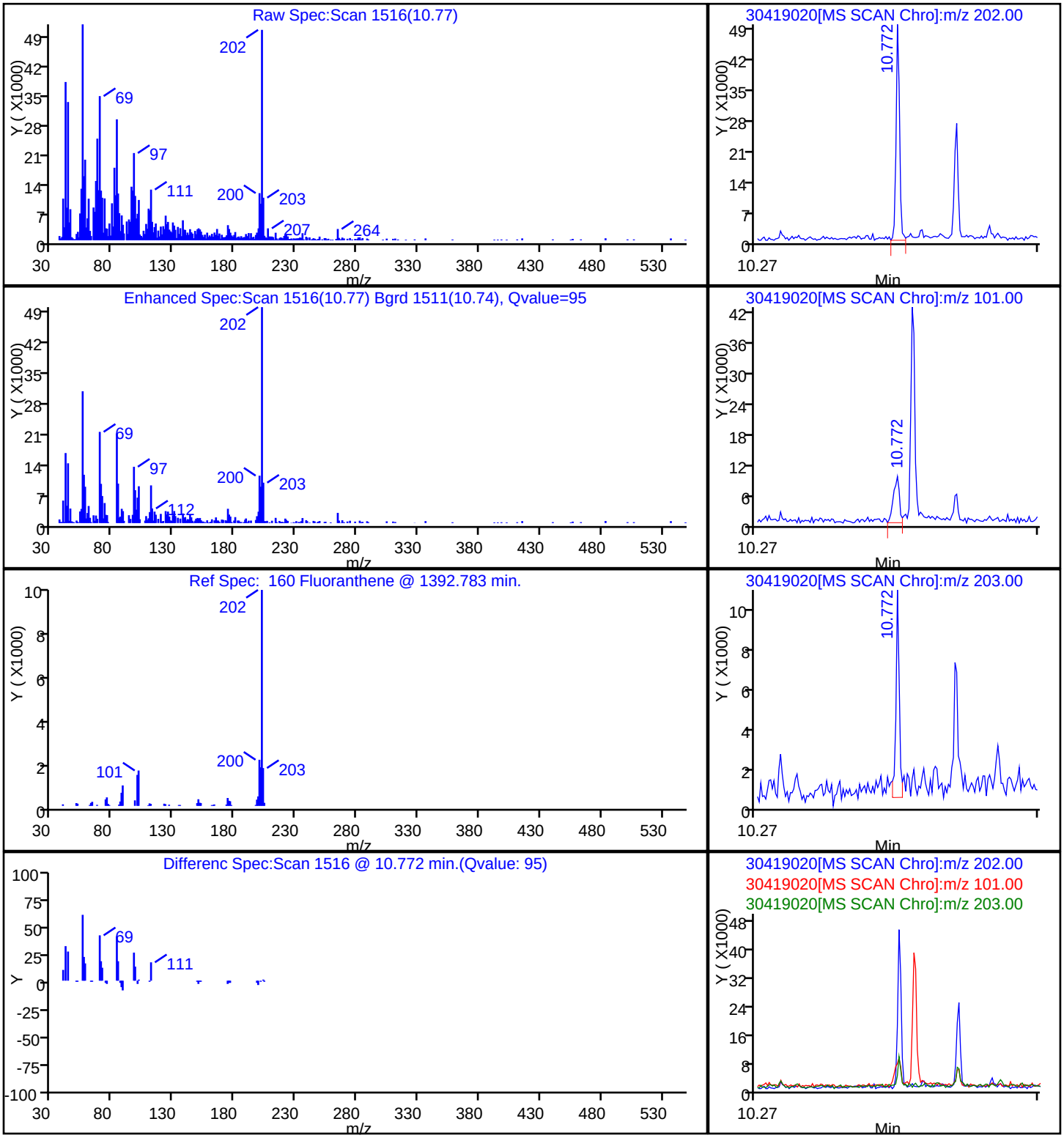
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

160 Fluoranthene



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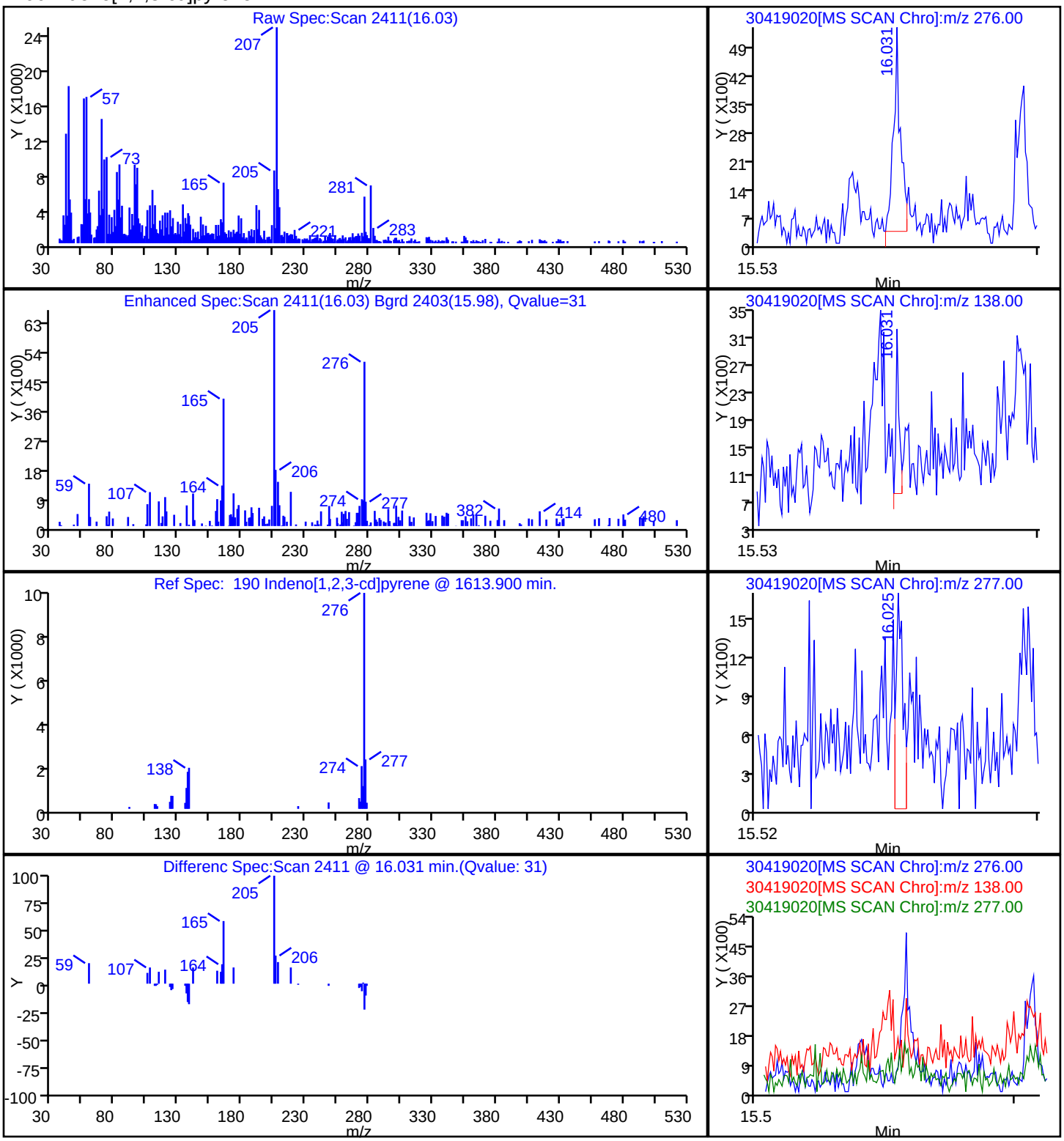
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

190 Indeno[1,2,3-cd]pyrene



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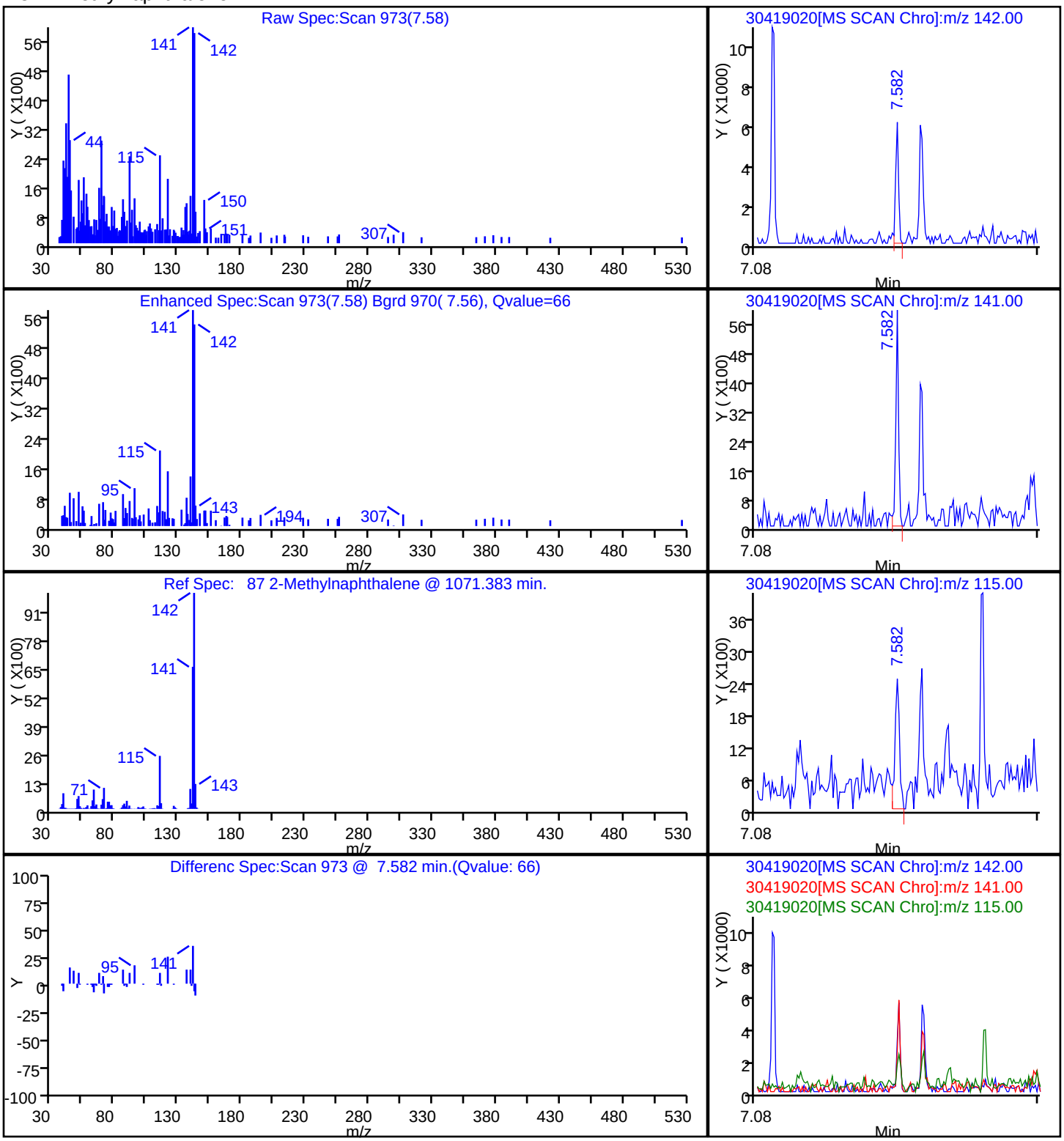
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

87 2-Methylnaphthalene



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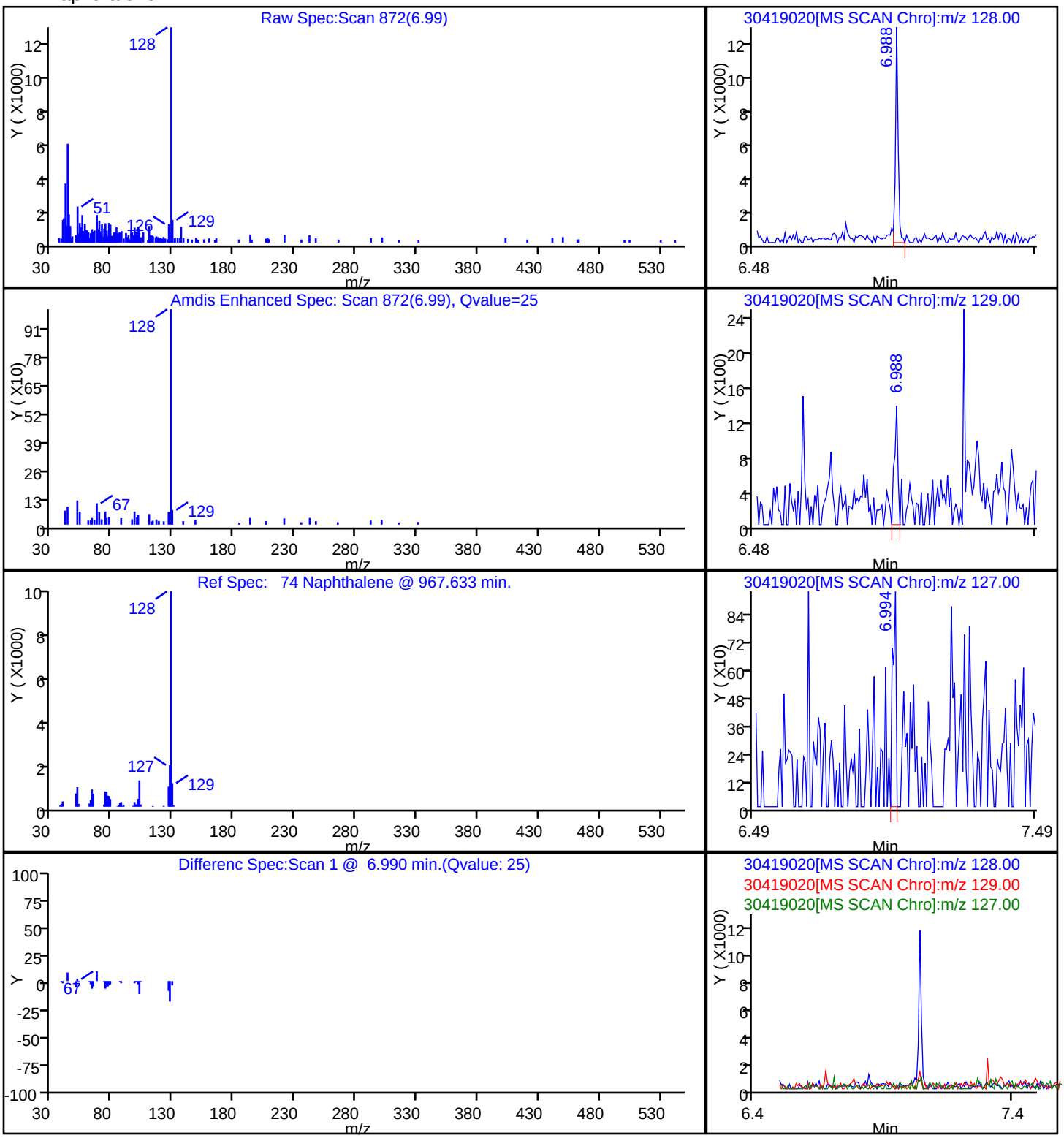
Lims Batch ID:	82653	Lims Sample ID:	20
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

74 Naphthalene



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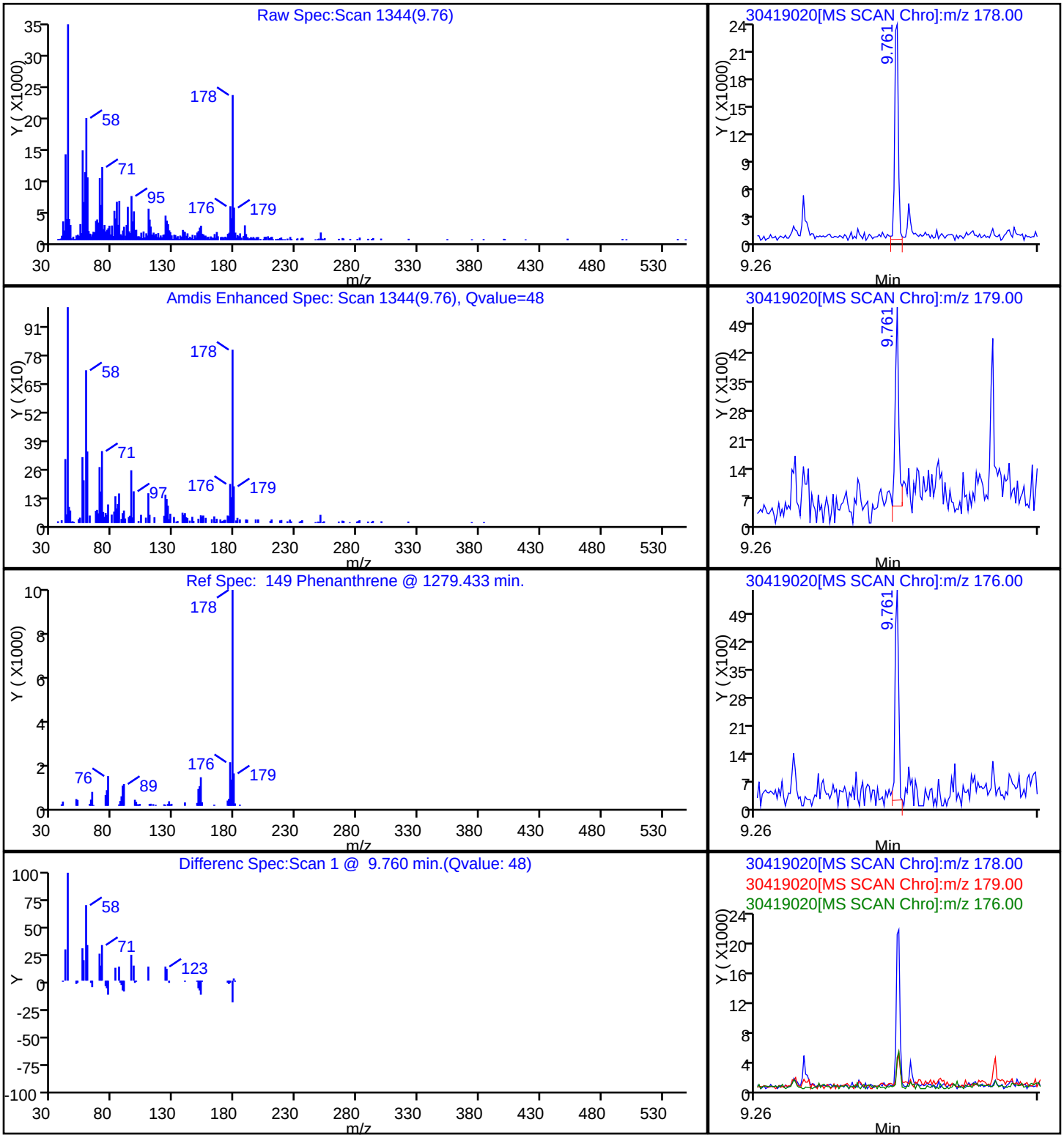
Lims Batch ID:	82653	Lims Sample ID:	20
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

149 Phenanthrene



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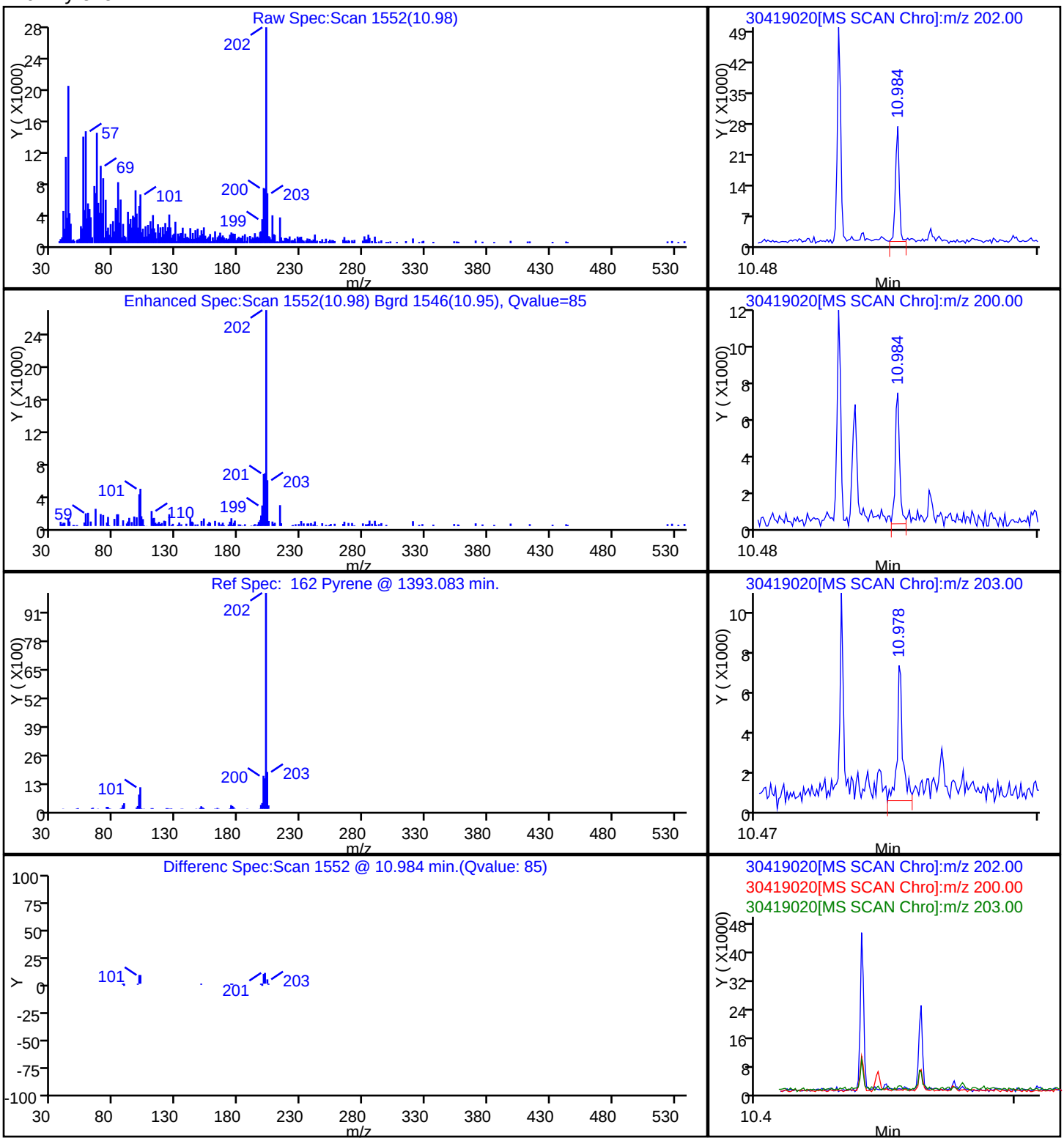
Lims Batch ID:	82653	Lims Sample ID:	20
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

162 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0018-0001-SO | Lab Sample ID: 240-22756-12

Matrix: Solid | Lab File ID: 30419012.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 10:08

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 29.98(g) | Date Analyzed: 04/19/2013 14:38

Con. Extract Vol.: 2(mL) | Dilution Factor: 2.5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	170		20	9.7	9.7
208-96-8	Acenaphthylene	48		20	9.7	9.7
120-12-7	Anthracene	140	M	20	9.7	9.7
56-55-3	Benzo[a]anthracene	83		20	9.7	9.7
50-32-8	Benzo[a]pyrene	66		20	9.7	9.7
205-99-2	Benzo[b]fluoranthene	69		20	9.7	9.7
191-24-2	Benzo[g,h,i]perylene	42	M	20	9.7	9.7
65-85-0	Benzoic acid	980	U	1900	980	980
207-08-9	Benzo[k]fluoranthene	55		20	9.7	9.7
100-51-6	Benzyl alcohol	80	U	970	80	62
111-91-1	Bis(2-chloroethoxy)methane	80	U	290	80	65
111-44-4	Bis(2-chloroethyl)ether	9.7	U	290	9.7	5.9
108-60-1	bis (2-chloroisopropyl) ether	80	U	290	80	28
117-81-7	Bis(2-ethylhexyl) phthalate	66	J	210	80	56
101-55-3	4-Bromophenyl phenyl ether	80	U	150	80	38
85-68-7	Butyl benzyl phthalate	80	U	210	80	29
86-74-8	Carbazole	80	U	150	80	80
106-47-8	4-Chloroaniline	80	U	440	80	50
59-50-7	4-Chloro-3-methylphenol	80	U	440	80	62
91-58-7	2-Chloronaphthalene	9.7	U	150	9.7	9.7
95-57-8	2-Chlorophenol	80	U	150	80	80
7005-72-3	4-Chlorophenyl phenyl ether	80	U	150	80	38
218-01-9	Chrysene	73		20	9.7	3.2
53-70-3	Dibenz(a,h)anthracene	9.7	U	20	9.7	9.7
132-64-9	Dibenzofuran	130	J	150	9.7	9.7
95-50-1	1,2-Dichlorobenzene	80	U	150	80	29
541-73-1	1,3-Dichlorobenzene	80	U	150	80	32
106-46-7	1,4-Dichlorobenzene	80	U	150	80	59
91-94-1	3,3'-Dichlorobenzidine	240	U	290	240	53
120-83-2	2,4-Dichlorophenol	80	U	440	80	59
84-66-2	Diethyl phthalate	80	U	210	80	47
105-67-9	2,4-Dimethylphenol	240	U	440	240	59
131-11-3	Dimethyl phthalate	80	U	210	80	50
84-74-2	Di-n-butyl phthalate	80	U	210	80	44

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Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	240	U	440	240	240
51-28-5	2,4-Dinitrophenol	240	U	970	240	240
121-14-2	2,4-Dinitrotoluene	80	U	590	80	80
606-20-2	2,6-Dinitrotoluene	80	U	590	80	62
117-84-0	Di-n-octyl phthalate	80	U	210	80	80
206-44-0	Fluoranthene	280		20	9.7	9.7
86-73-7	Fluorene	270		20	9.7	9.7
118-74-1	Hexachlorobenzene	9.7	U	20	9.7	6.2
87-68-3	Hexachlorobutadiene	80	U	150	80	80
77-47-4	Hexachlorocyclopentadiene	80	U	970	80	80
67-72-1	Hexachloroethane	80	U	150	80	27
193-39-5	Indeno[1,2,3-cd]pyrene	28	M	20	9.7	9.7
78-59-1	Isophorone	80	U	150	80	38
91-57-6	2-Methylnaphthalene	9.7	U	20	9.7	9.7
95-48-7	2-Methylphenol	240	U	590	240	240
15831-10-4	3 & 4 Methylphenol	240	U	1200	240	59
91-20-3	Naphthalene	9.7	U	20	9.7	9.7
88-74-4	2-Nitroaniline	80	U	590	80	27
99-09-2	3-Nitroaniline	240	U	590	240	47
100-01-6	4-Nitroaniline	80	U	590	80	77
98-95-3	Nitrobenzene	9.7	U	290	9.7	6.5
88-75-5	2-Nitrophenol	80	U	150	80	80
100-02-7	4-Nitrophenol	240	U	970	240	240
621-64-7	N-Nitrosodi-n-propylamine	80	U	150	80	80
86-30-6	N-Nitrosodiphenylamine	80	U	150	80	62
87-86-5	Pentachlorophenol	240	U	440	240	240
85-01-8	Phenanthrene	90		20	9.7	9.7
108-95-2	Phenol	80	U	150	80	80
129-00-0	Pyrene	280		20	9.7	9.7
120-82-1	1,2,4-Trichlorobenzene	80	U	150	80	80
95-95-4	2,4,5-Trichlorophenol	80	U	440	80	74
88-06-2	2,4,6-Trichlorophenol	240	U	440	240	240

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0018-0001-SO | Lab Sample ID: 240-22756-12

Matrix: Solid | Lab File ID: 30419012.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 10:08

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 29.98(g) | Date Analyzed: 04/19/2013 14:38

Con. Extract Vol.: 2(mL) | Dilution Factor: 2.5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	63		45-105
367-12-4	2-Fluorophenol (Surr)	67		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	64		35-100
4165-62-2	Phenol-d5 (Surr)	68		40-100
1718-51-0	Terphenyl-d14 (Surr)	55		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	58		35-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419012.D
Lims ID: 240-22756-B-12-A
Client ID: 074SB-0018-0001-SO
Inject. Date: 19-Apr-2013 14:38:30
Dil. Factor: 2.5000
Sample Type: Client
Sample ID: 240-0019044-012
Misc. Info.: 240-22756-B-12-A
Operator: 001710
Instrument ID: A4HP10
Injection Vol: 1.0 ul
ALS Bottle#: 12
Lims Batch ID: 82653
Lims Sample ID: 12
Detector: MS SCAN

Method: \\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m
Last Update: 22-Apr-2013 13:55:06
Calib Date: 12-Apr-2013 00:58:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: 5% phenyl
Column Dia: 0.18 mm
Process Host: XAWRK022

First Level Reviewer: gruberj
Date: 22-Apr-2013 11:10:46

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.849	5.848	0.001	98	133018	4.00	
* 2 Naphthalene-d8	136	6.971	6.970	0.001	99	536914	4.00	
* 3 Acenaphthene-d10	164	8.475	8.475	0.0	80	335011	4.00	
* 4 Phenanthrene-d10	188	9.738	9.738	0.0	95	561161	4.00	
* 5 Chrysene-d12	240	12.294	12.294	0.0	80	594203	4.00	
* 6 Perylene-d12	264	14.368	14.368	0.0	83	470838	4.00	
$ 7 2-Fluorophenol	112	4.579	4.573	0.006	91	154087	4.00	
$ 8 Phenol-d5	99	5.490	5.490	0.0	98	210640	4.11	
$ 9 Nitrobenzene-d5	82	6.336	6.336	0.0	83	128402	2.56	
$ 10 2-Fluorobiphenyl (Surr)	172	7.887	7.887	0.0	94	273010	2.53	
$ 11 2,4,6-Tribromophenol	330	9.139	9.144	-0.005	67	42343	3.45	
$ 12 Terphenyl-d14	244	11.101	11.101	0.0	98	258589	2.21	
43 Phenol	94		5.502					9
45 Bis(2-chloroethyl)ether	93		5.601					9
47 2-Chlorophenol	128		5.648					9
48 1,3-Dichlorobenzene	146		5.795					
49 1,4-Dichlorobenzene	146		5.866					
50 Benzyl alcohol	108		5.960					9
51 1,2-Dichlorobenzene	146		6.001					
52 2-Methylphenol	108		6.054					
54 2,2'-oxybis[1-chloropropane]	45		6.083					
56 3 & 4 Methylphenol	108		6.183					
57 N-Nitrosodi-n-propylamine	70		6.195					
61 Hexachloroethane	117		6.307					
62 Nitrobenzene	77		6.354					
64 Isophorone	82		6.559					
66 2-Nitrophenol	139		6.636					9
65 2,4-Dimethylphenol	107		6.653					
70 Benzoic acid	122		6.712					
69 Bis(2-chloroethoxy)methane	93		6.741					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
72 2,4-Dichlorophenol	162		6.835					
73 1,2,4-Trichlorobenzene	180		6.918					
74 Naphthalene	128		6.988					
75 4-Chloroaniline	127		7.023					
78 Hexachlorobutadiene	225		7.088					
85 4-Chloro-3-methylphenol	107		7.423					9
87 2-Methylnaphthalene	142		7.582					
89 Hexachlorocyclopentadiene	237		7.711					
93 2,4,6-Trichlorophenol	196		7.811					
94 2,4,5-Trichlorophenol	196		7.846					
100 2-Chloronaphthalene	162		7.999					
102 2-Nitroaniline	65		8.075					
105 Dimethyl phthalate	163		8.216					
107 2,6-Dinitrotoluene	165		8.275					
109 Acenaphthylene	152	8.352	8.357	-0.005	50	32221	0.2455	
110 3-Nitroaniline	138		8.422					
112 Acenaphthene	153	8.504	8.504	0.0	78	79948	0.8765	
111 2,4-Dinitrophenol	184		8.510					
113 4-Nitrophenol	109		8.539					
114 2,4-Dinitrotoluene	165		8.616					
116 Dibenzofuran	168	8.645	8.645	0.0	56	80718	0.6566	
121 Diethyl phthalate	149		8.815					
123 4-Chlorophenyl phenyl ether	204		8.927					
126 Fluorene	166	8.939	8.939	0.0	76	136266	1.36	
125 4-Nitroaniline	138		8.939					9
128 4,6-Dinitro-2-methylphenol	198		8.962					
129 N-Nitrosodiphenylamine	169		9.027					
139 4-Bromophenyl phenyl ether	248		9.344					9
141 Hexachlorobenzene	284		9.403					
144 Pentachlorophenol	266		9.567					
149 Phenanthrene	178	9.762	9.761	0.001	66	59580	0.4579	
150 Anthracene	178	9.803	9.803	0.001	53	94225	0.7283	M
152 Carbazole	167		9.932					
155 Di-n-butyl phthalate	149		10.196					
160 Fluoranthene	202	10.784	10.772	0.012	98	218847	1.43	
162 Pyrene	202	10.984	10.984	0.0	96	216249	1.41	
170 Butyl benzyl phthalate	149		11.583					
177 3,3'-Dichlorobenzidine	252		12.229					9
175 Bis(2-ethylhexyl) phthalate	149	12.259	12.258	0.001	84	27779	0.3377	
179 Benzo[a]anthracene	228	12.282	12.282	0.0	87	62407	0.4221	
180 Chrysene	228	12.323	12.329	-0.006	86	50113	0.3693	
182 Di-n-octyl phthalate	149		13.175					
184 Benzo[b]fluoranthene	252	13.786	13.786	0.0	82	44598	0.3529	
185 Benzo[k]fluoranthene	252	13.816	13.827	-0.011	81	38584	0.2807	
186 Benzo[a]pyrene	252	14.280	14.286	-0.006	62	39585	0.3374	
190 Indeno[1,2,3-cd]pyrene	276	16.025	16.031	-0.006	0	18492	0.1437	M
191 Dibenz(a,h)anthracene	278		16.066					
192 Benzo[g,h,i]perylene	276	16.477	16.477	0.0	83	23280	0.2119	M

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

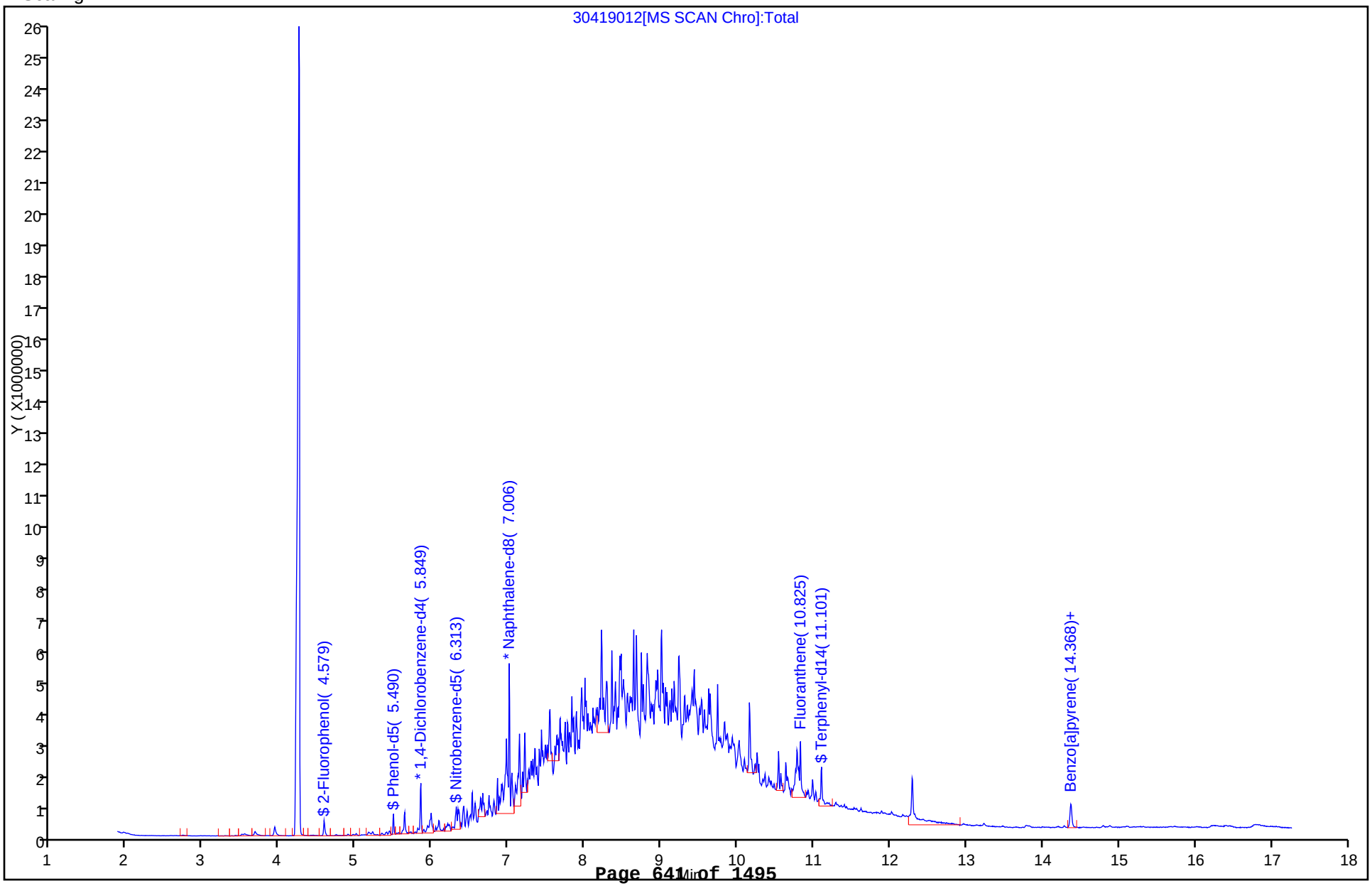
Report Date: 22-Apr-2013 13:55:19 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419012.D

Injection Date:	19-Apr-2013 14:38:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0018-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	12
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Report Date: 22-Apr-2013 13:55:19 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

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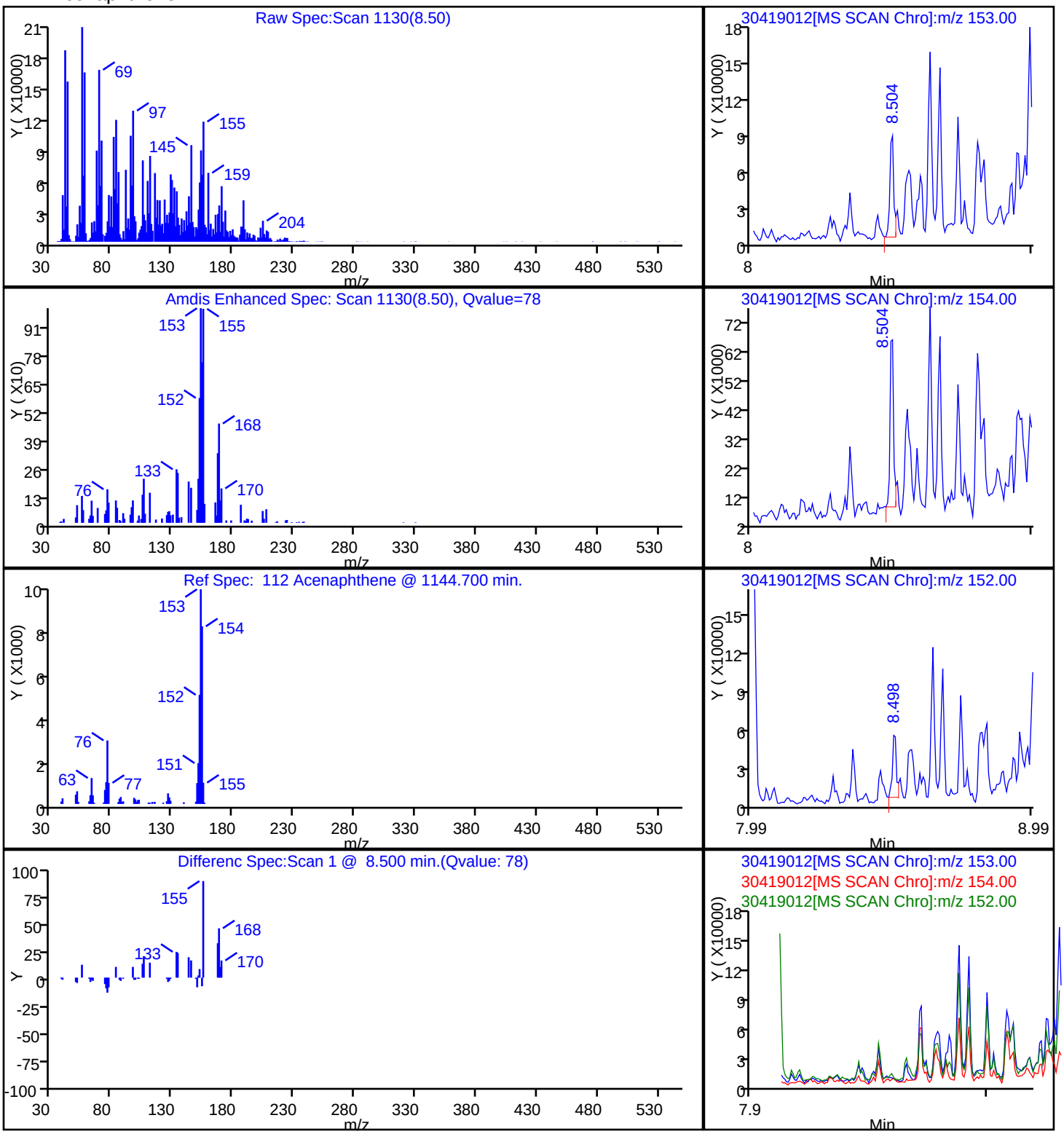
Injection Date:	19-Apr-2013 14:38:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0018-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	12
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

112 Acenaphthene



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TestAmerica Canton

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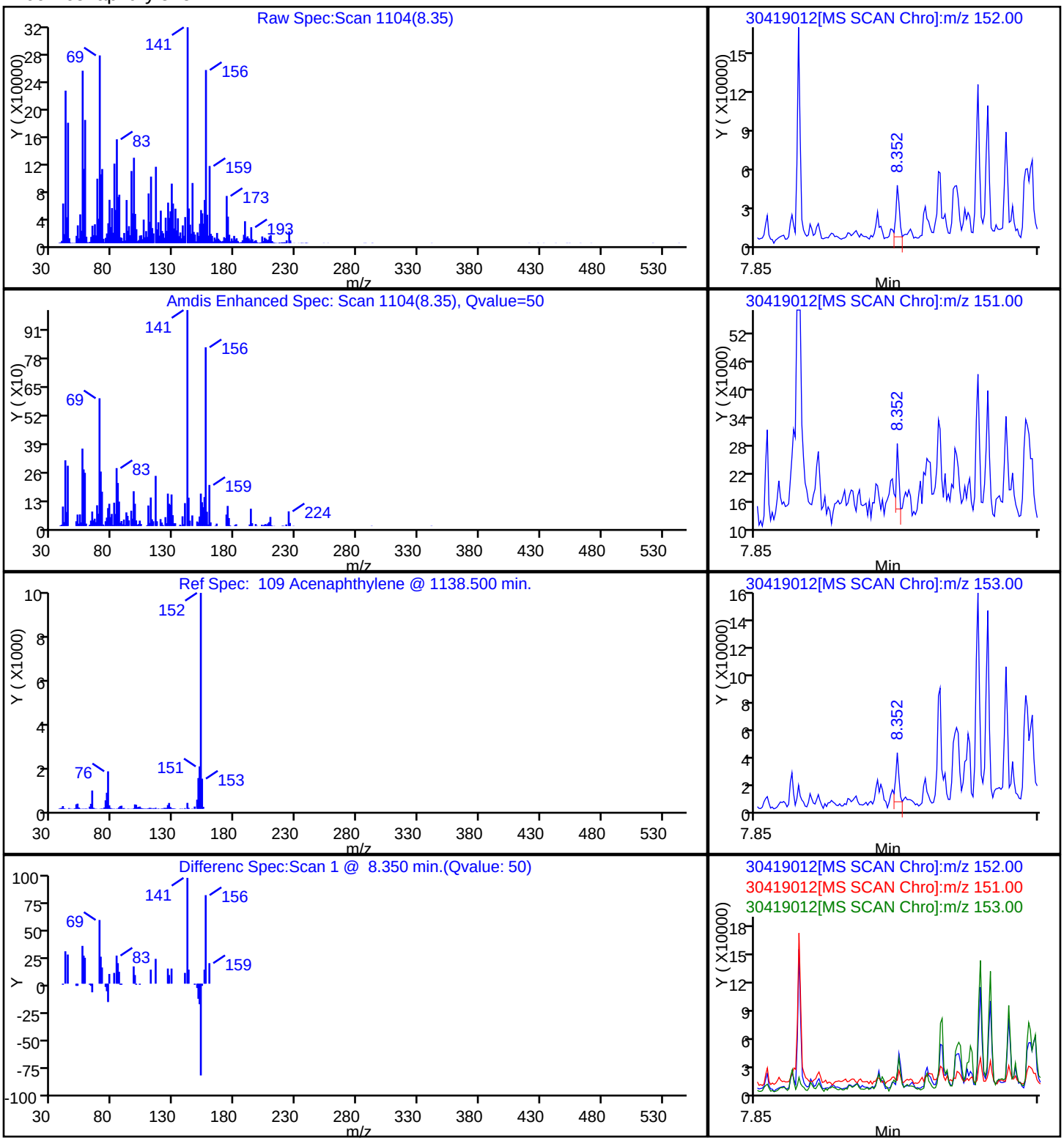
Client ID:	074SB-0018-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	12
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

109 Acenaphthylene



Report Date: 22-Apr-2013 13:55:19 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

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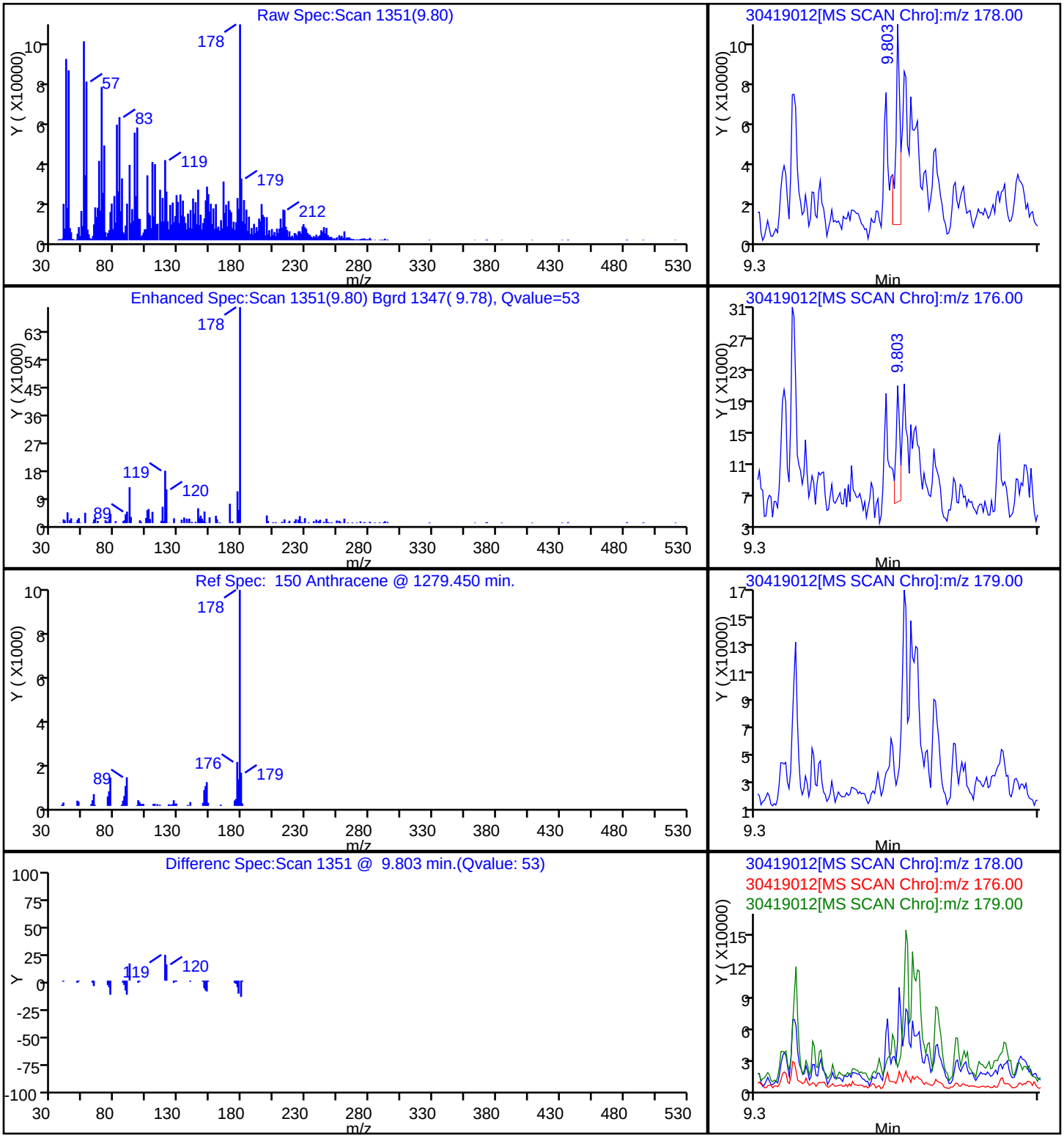
Injection Date:	19-Apr-2013 14:38:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0018-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	12
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

150 Anthracene



Report Date: 22-Apr-2013 13:55:19 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

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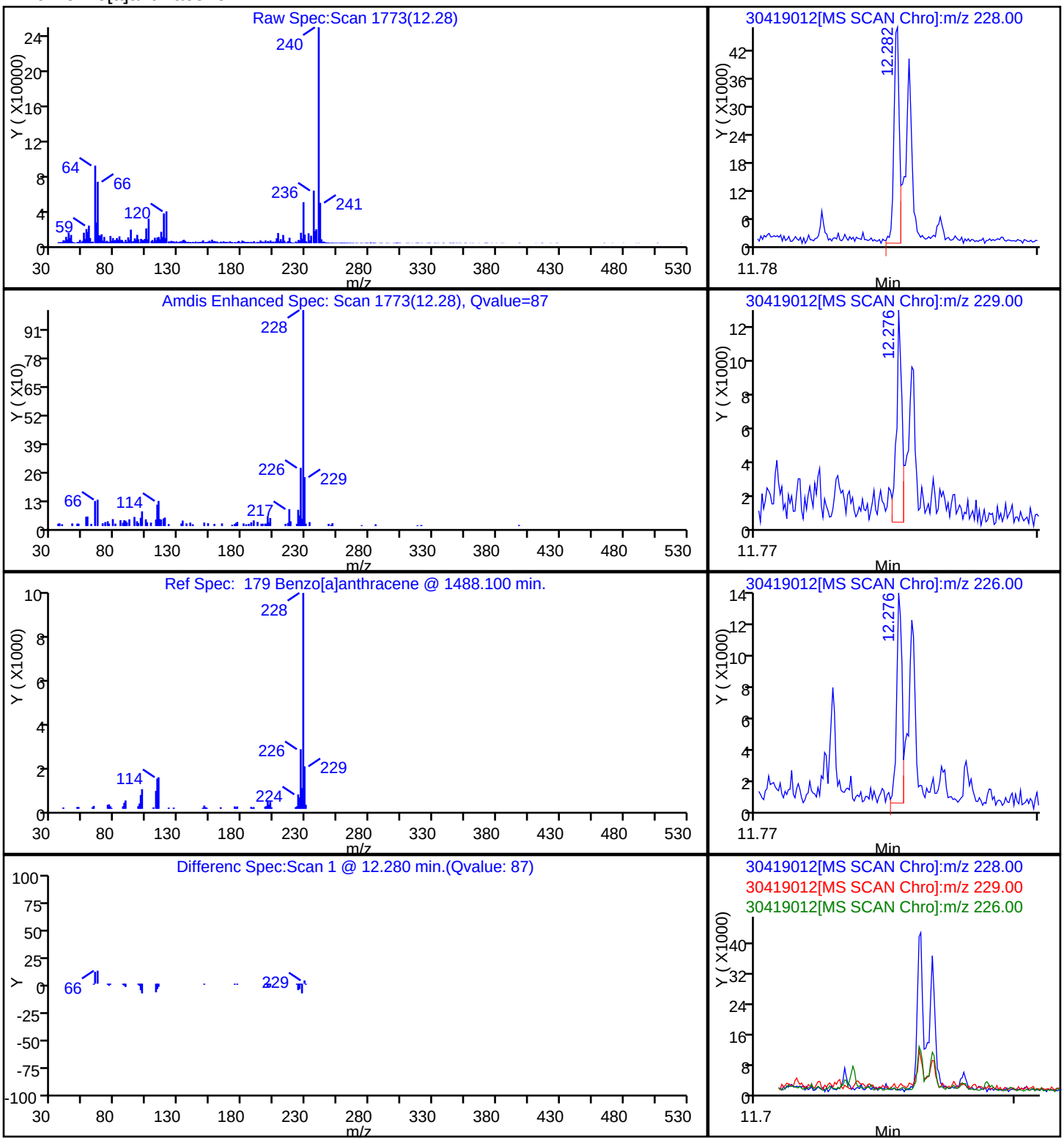
Injection Date:	19-Apr-2013 14:38:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0018-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	12
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

179 Benzo[a]anthracene



Report Date: 22-Apr-2013 13:55:19 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

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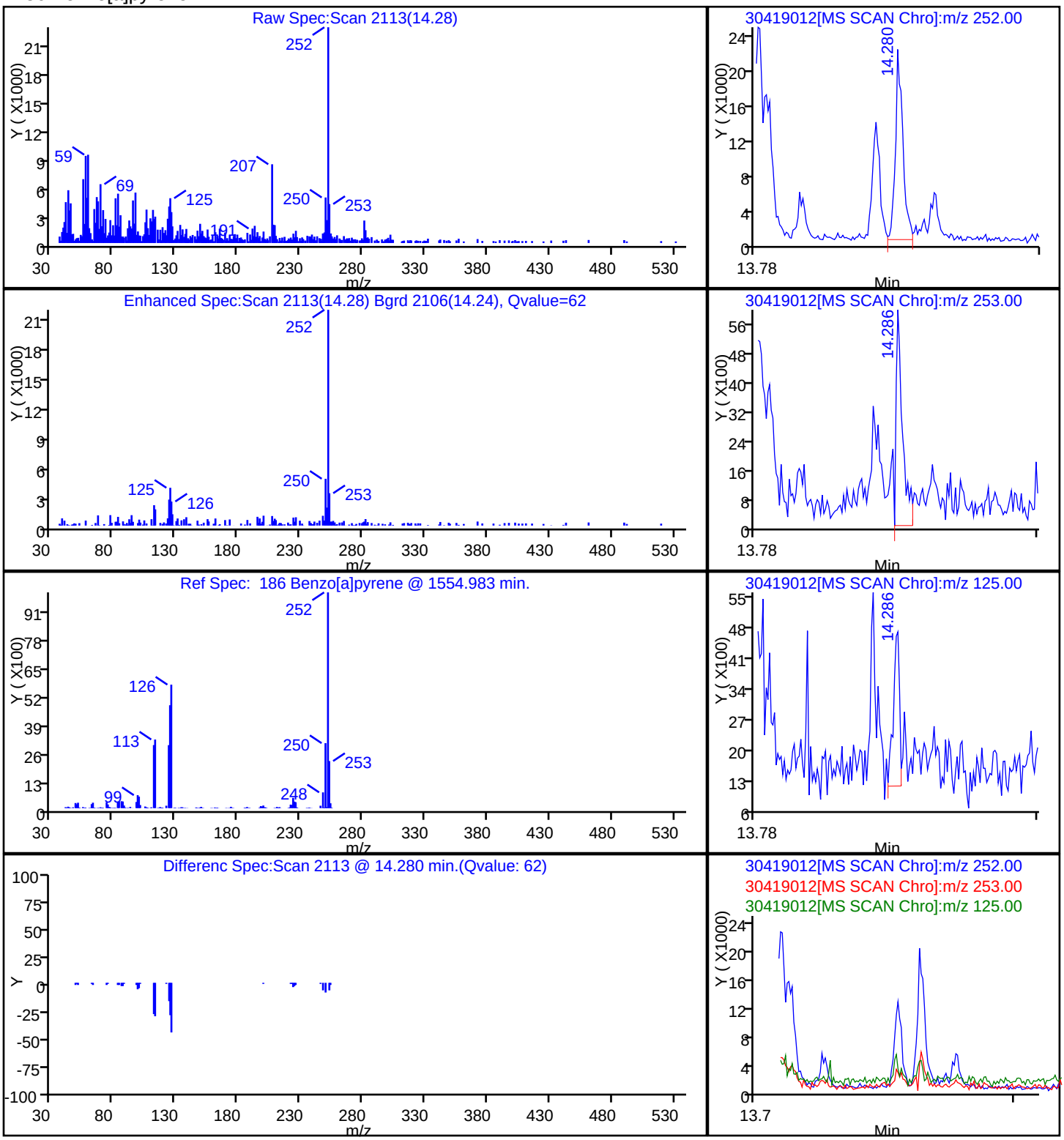
Injection Date:	19-Apr-2013 14:38:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0018-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	12
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

186 Benzo[a]pyrene



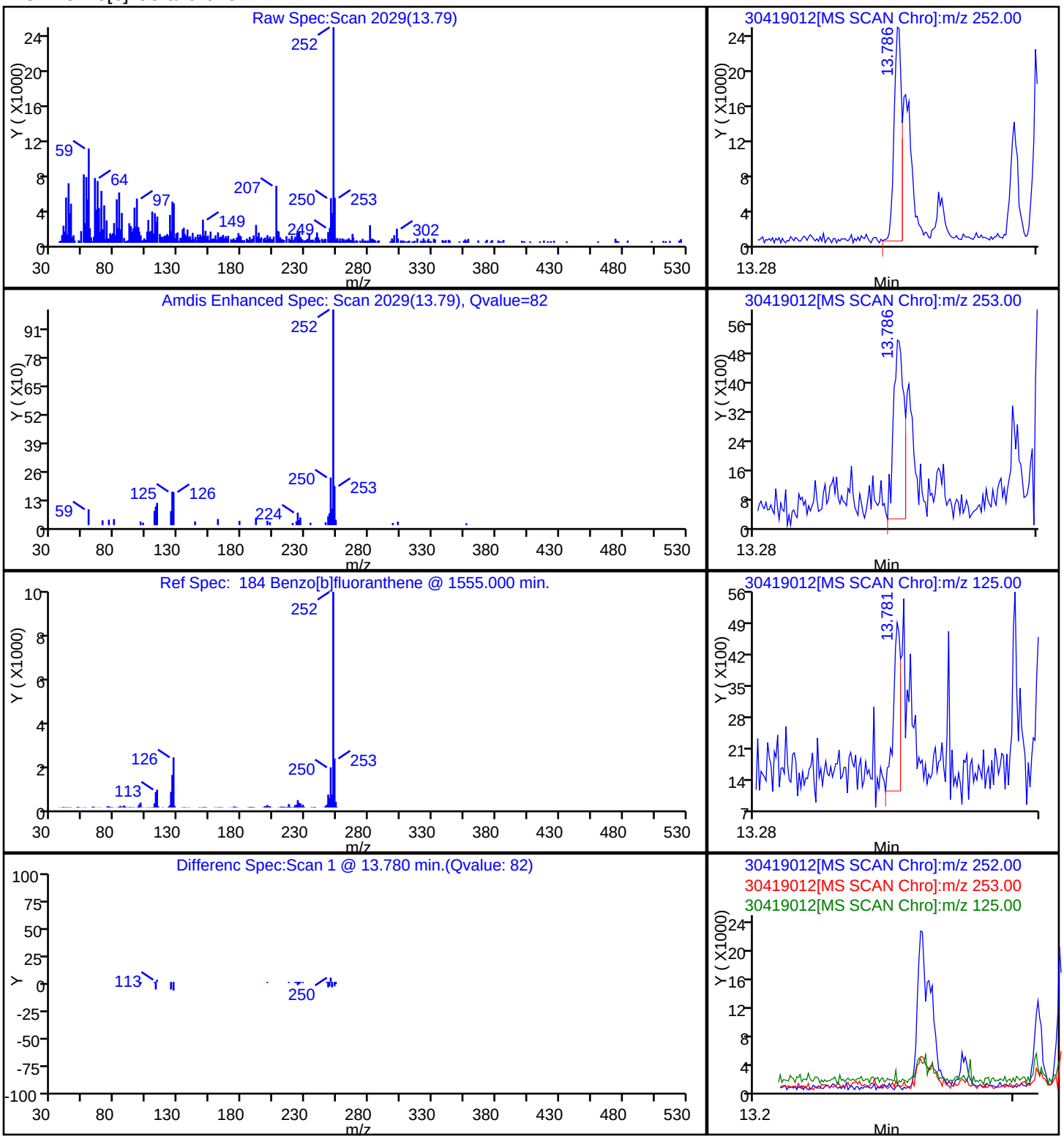
Report Date: 22-Apr-2013 13:55:19 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419012.D

Injection Date:	19-Apr-2013 14:38:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0018-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	12
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

184 Benzo[b]fluoranthene



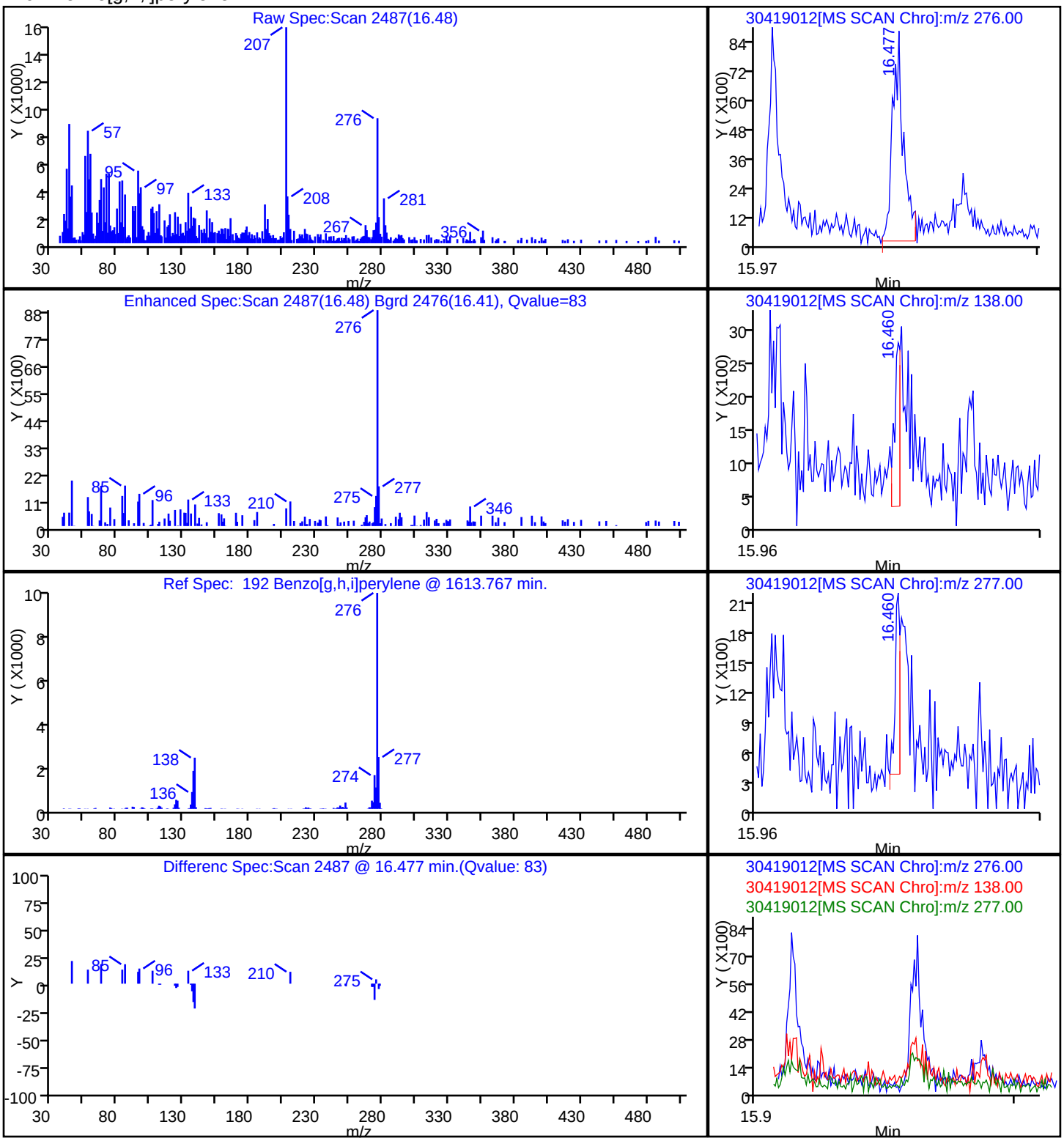
Report Date: 22-Apr-2013 13:55:19 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419012.D

Injection Date:	19-Apr-2013 14:38:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0018-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	12
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

192 Benzo[g,h,i]perylene



Report Date: 22-Apr-2013 13:55:19 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

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Injection Date:	19-Apr-2013 14:38:30	Limit Group:	MSS 8270 DOD ICAL
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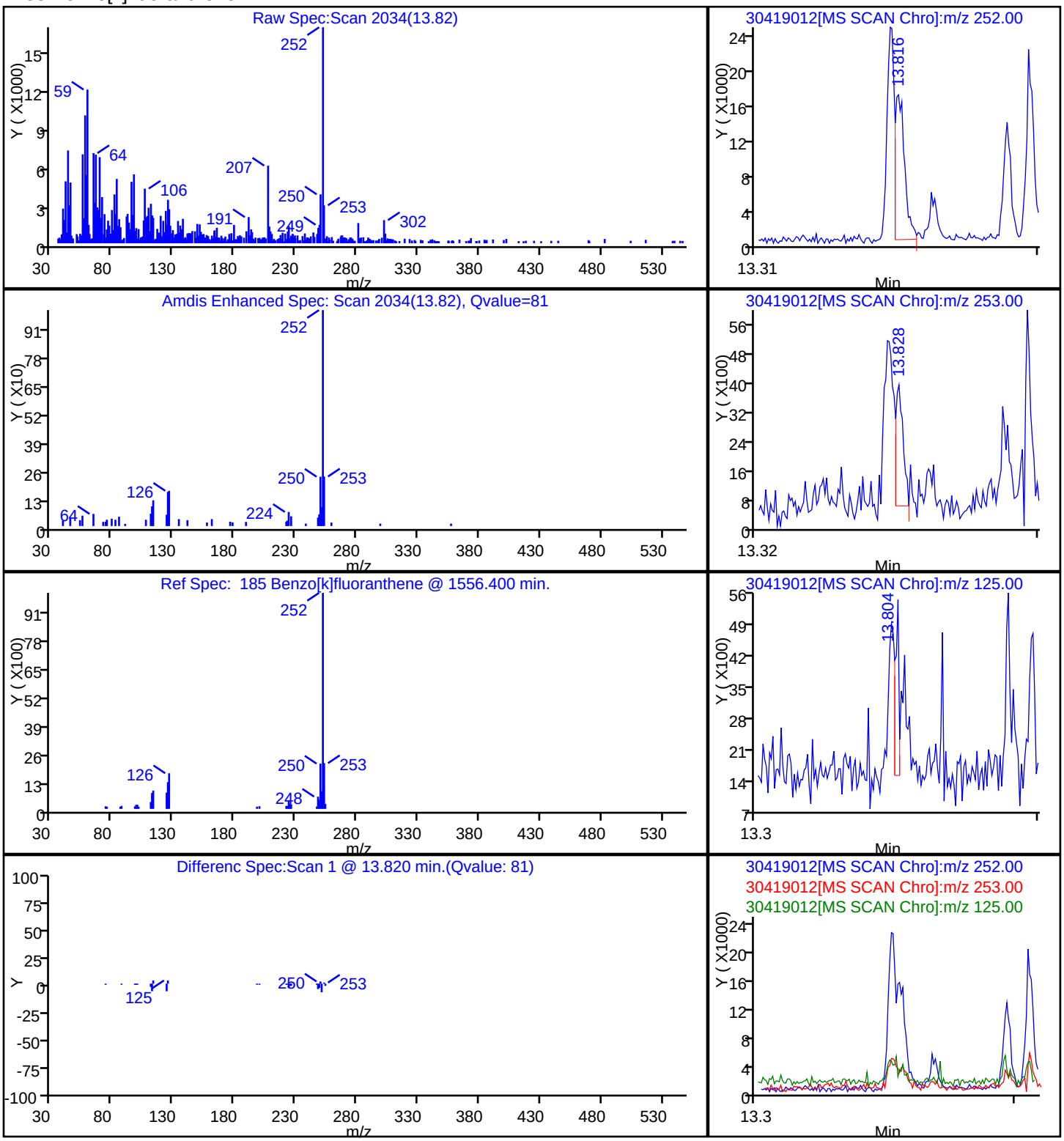
Lims Batch ID:	82653	Lims Sample ID:	12
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

185 Benzo[k]fluoranthene



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TestAmerica Canton

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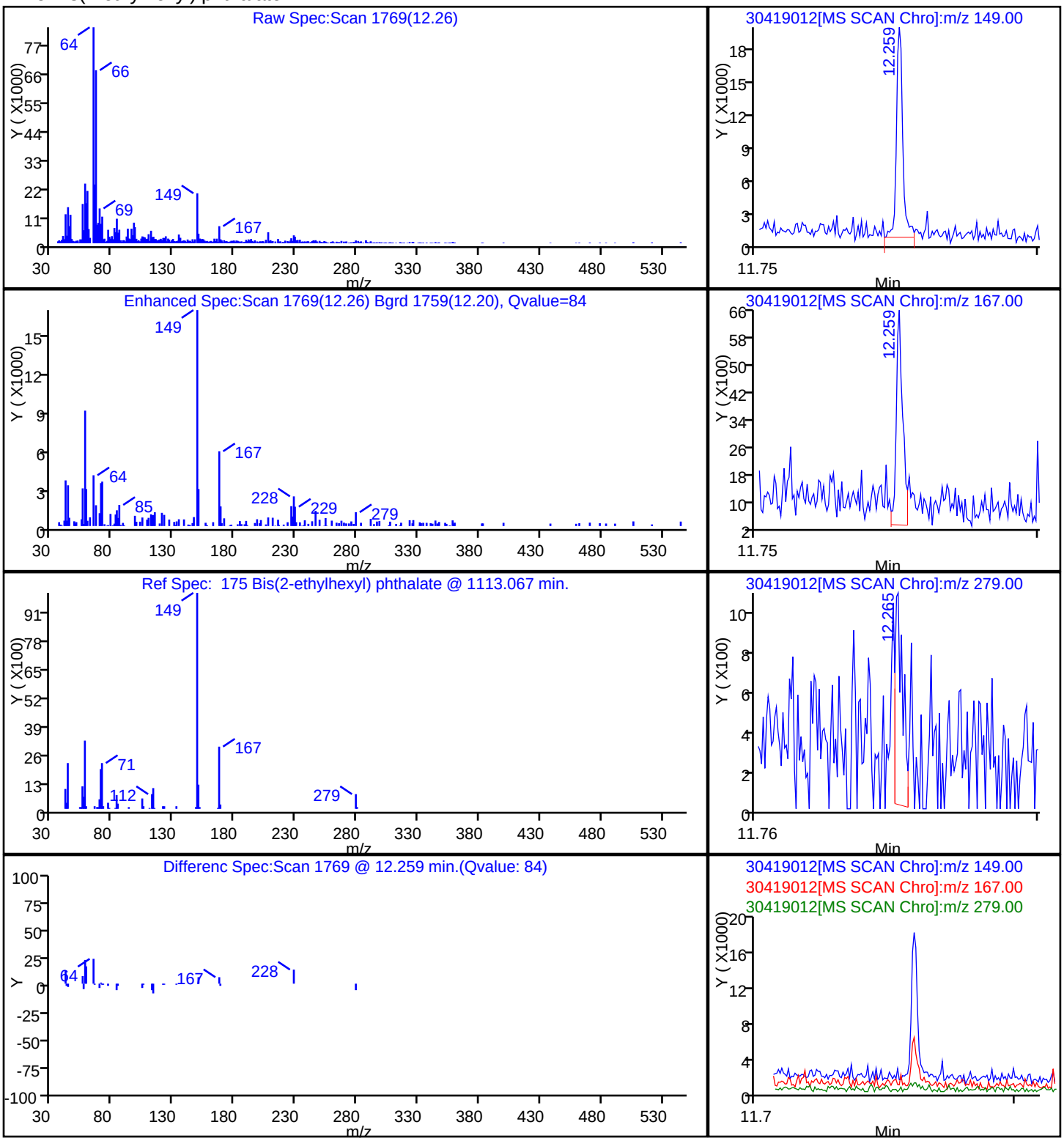
Client ID:	074SB-0018-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	12
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

175 Bis(2-ethylhexyl) phthalate



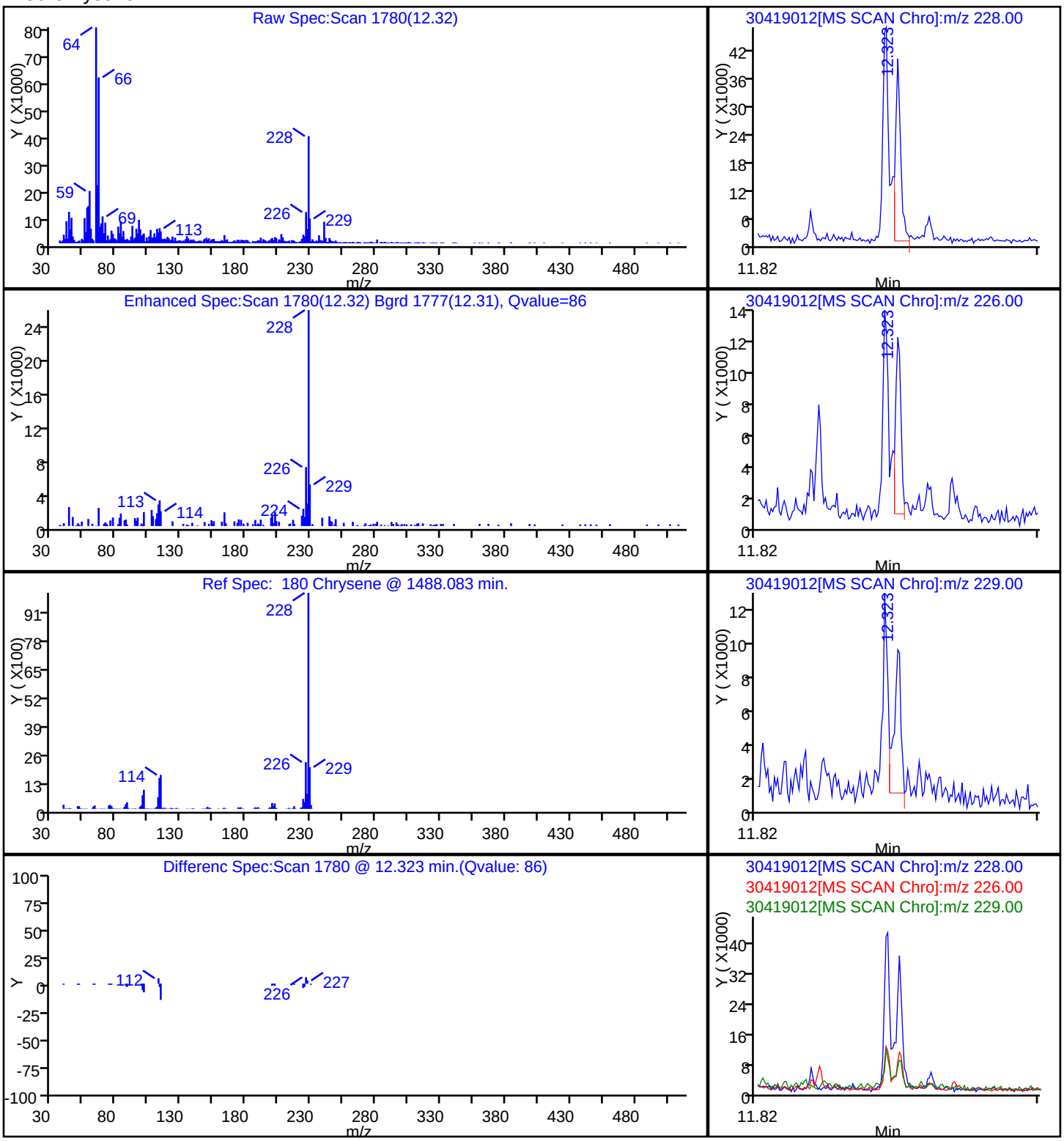
Report Date: 22-Apr-2013 13:55:19 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419012.D

Injection Date:	19-Apr-2013 14:38:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0018-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	12
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

180 Chrysene

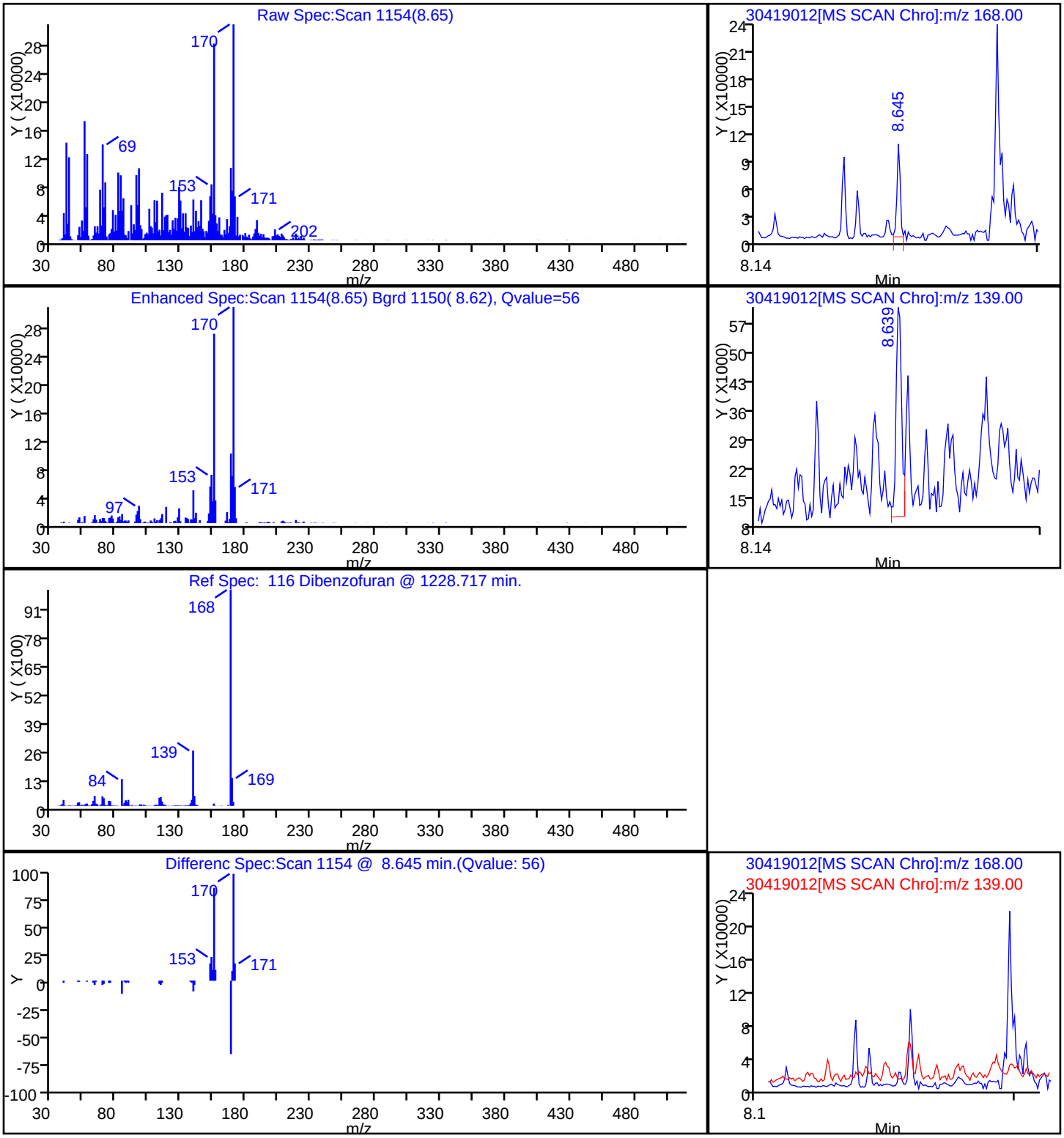


Report Date: 22-Apr-2013 13:55:19 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419012.D		
Injection Date:	19-Apr-2013 14:38:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0018-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	12
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

116 Dibenzofuran



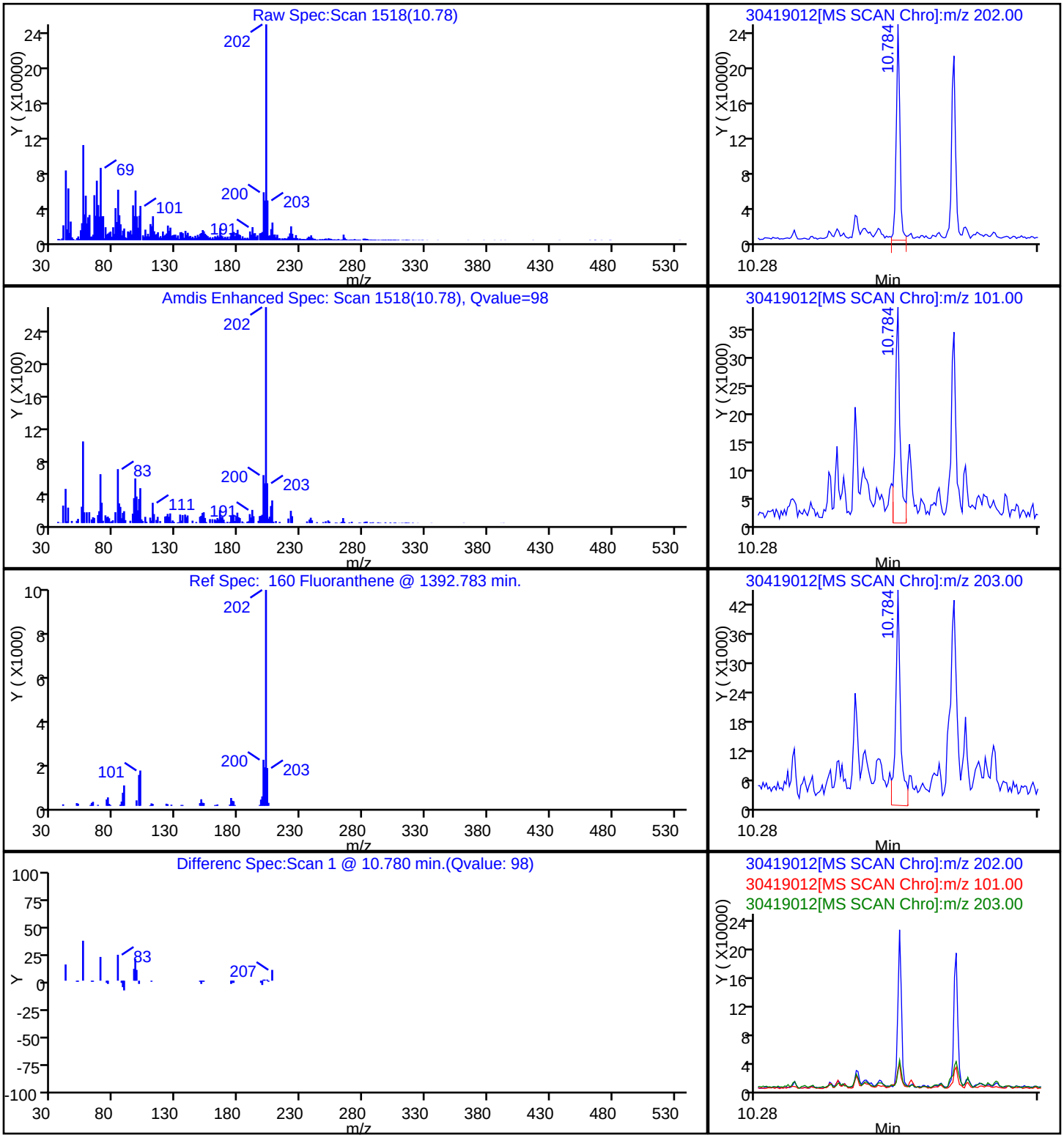
Report Date: 22-Apr-2013 13:55:19 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419012.D

Injection Date:	19-Apr-2013 14:38:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0018-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	12
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

160 Fluoranthene



Report Date: 22-Apr-2013 13:55:19 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

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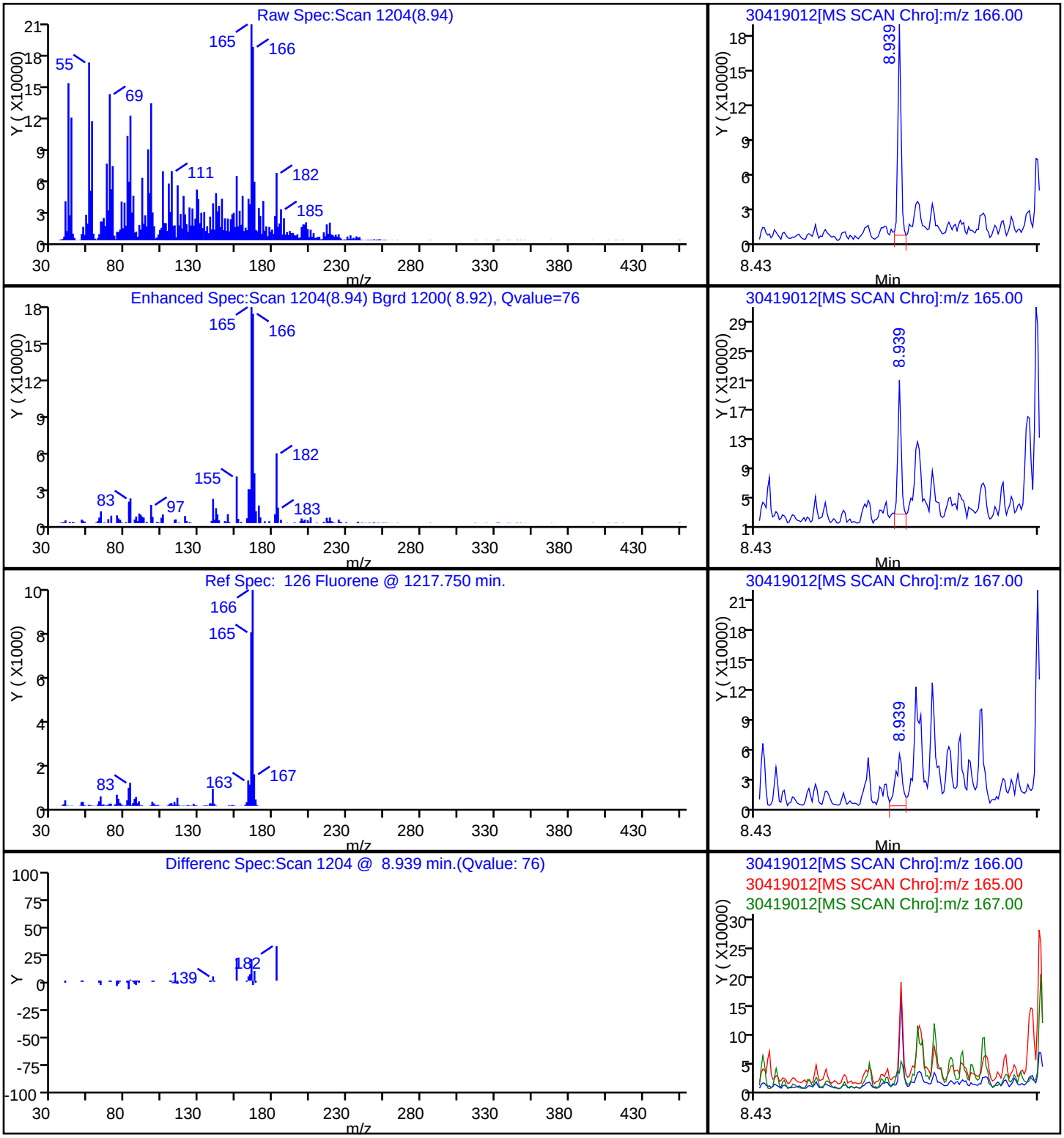
Client ID:	074SB-0018-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	12
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

126 Fluorene



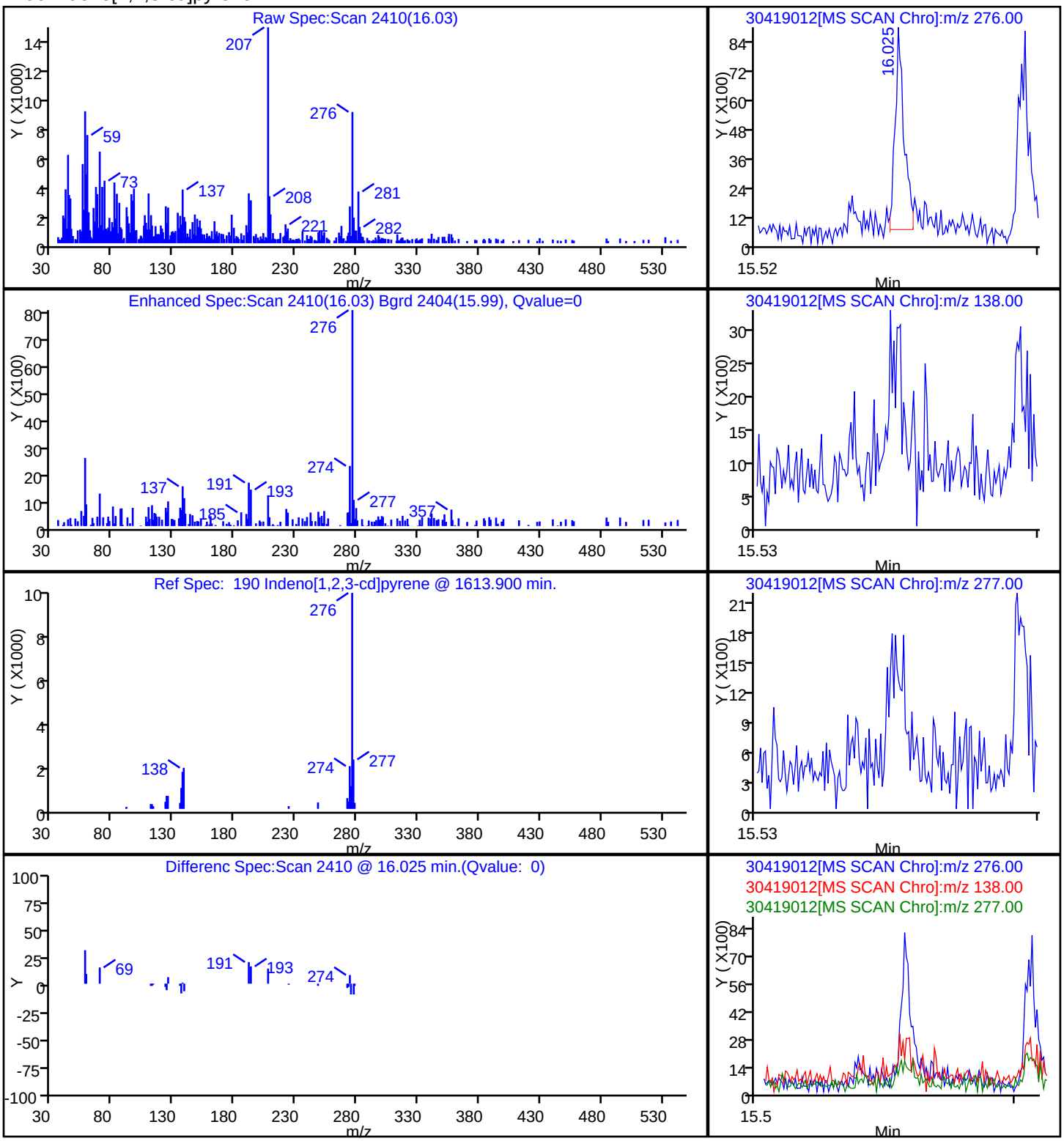
Report Date: 22-Apr-2013 13:55:19 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419012.D

Injection Date:	19-Apr-2013 14:38:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0018-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	12
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

190 Indeno[1,2,3-cd]pyrene



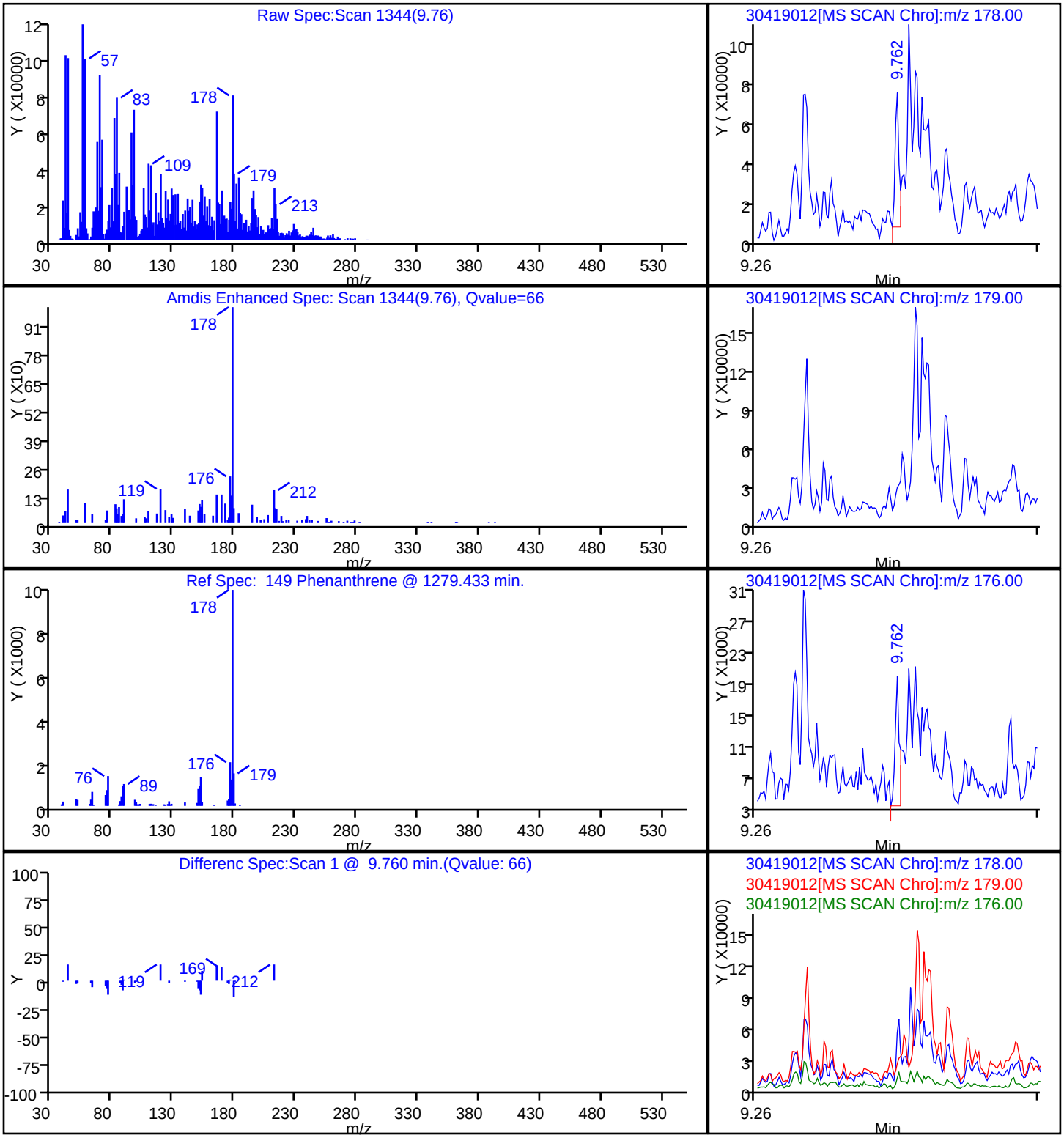
Report Date: 22-Apr-2013 13:55:19 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419012.D

Injection Date:	19-Apr-2013 14:38:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0018-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	12
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

149 Phenanthrene



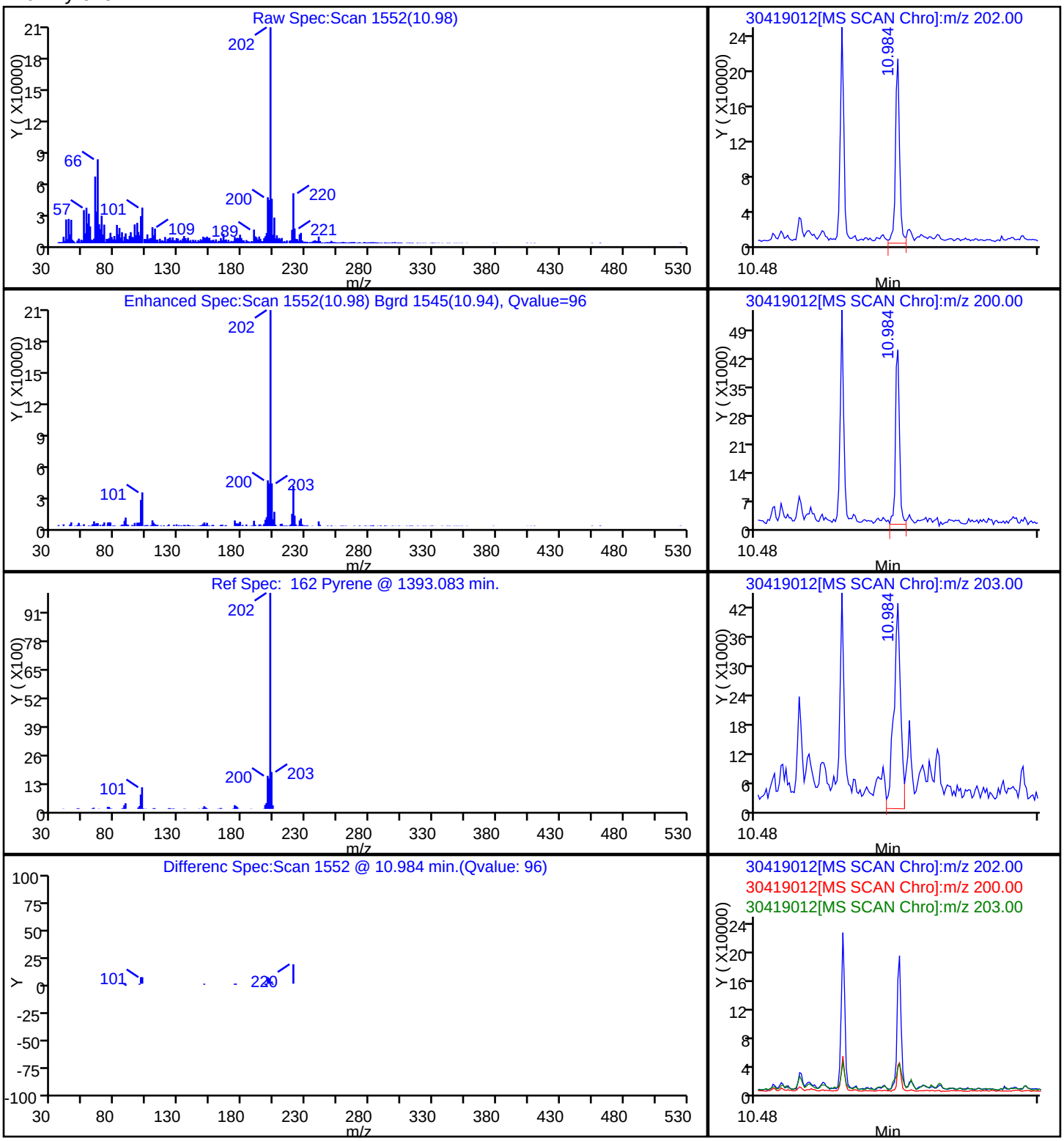
Report Date: 22-Apr-2013 13:55:19 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419012.D

Injection Date:	19-Apr-2013 14:38:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0018-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	12
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

162 Pyrene



Manual Integration/User Assign Peak Report

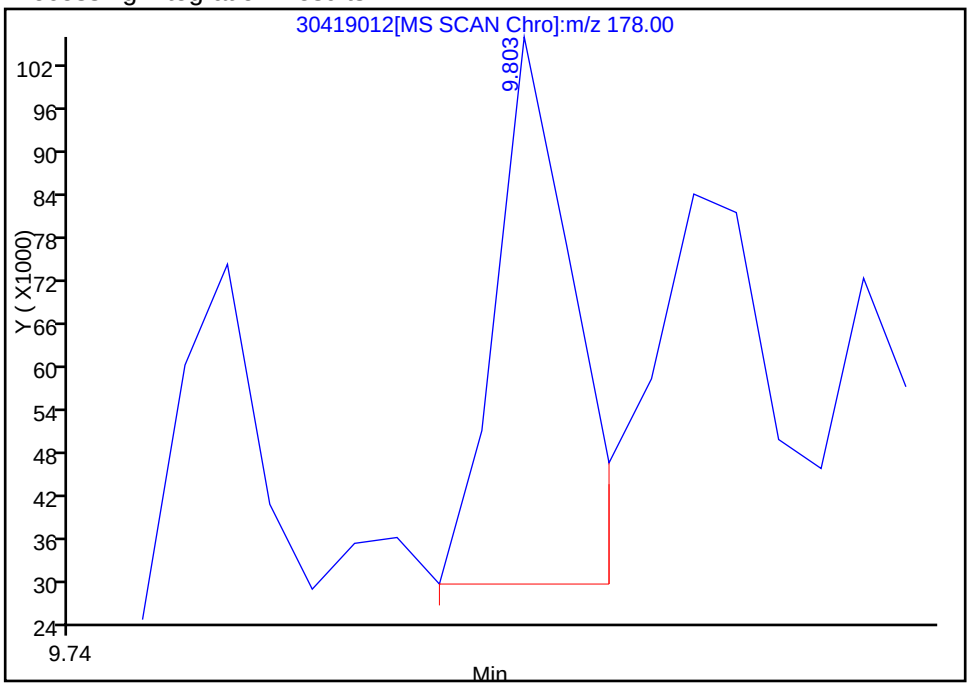
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419012.D		
Injection Date:	19-Apr-2013 14:38:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0018-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	12
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

150 Anthracene, Signal: 1, m/z: 178.0 Type: quant, RT: 9.80

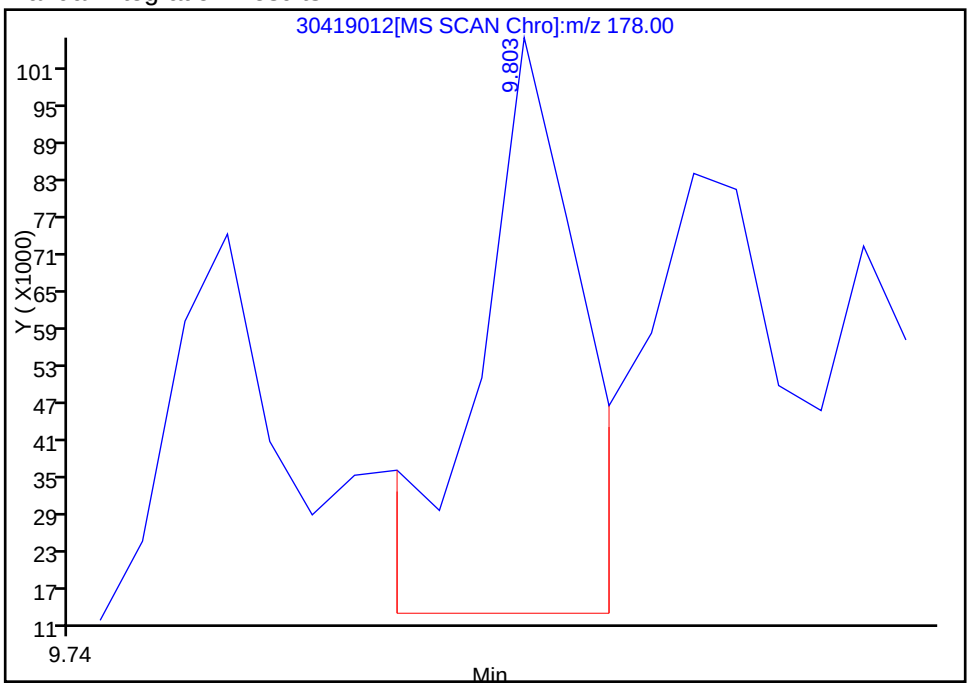
Processing Integration Results

RT: 9.80
Response: 56939
Amount: 0.440119



Manual Integration Results

RT: 9.80
Response: 94225
Amount: 0.728327



Reviewer: gruberj, 22-Apr-2013 11:10:46
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

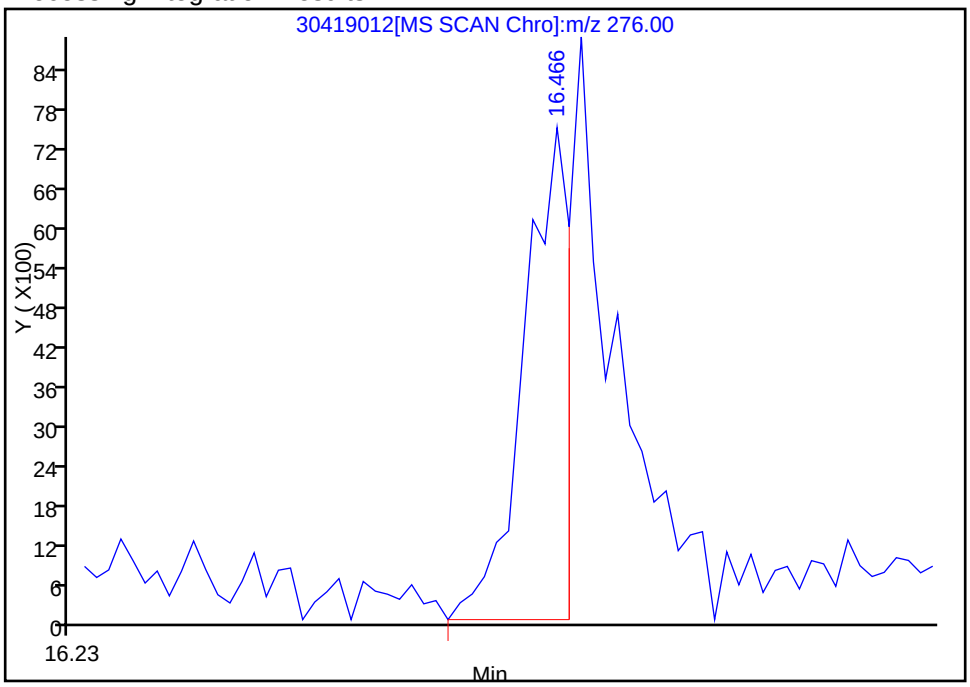
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419012.D		
Injection Date:	19-Apr-2013 14:38:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0018-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	12
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

192 Benzo[g,h,i]perylene, Signal: 1, m/z: 276.0 Type: quant, RT: 16.48

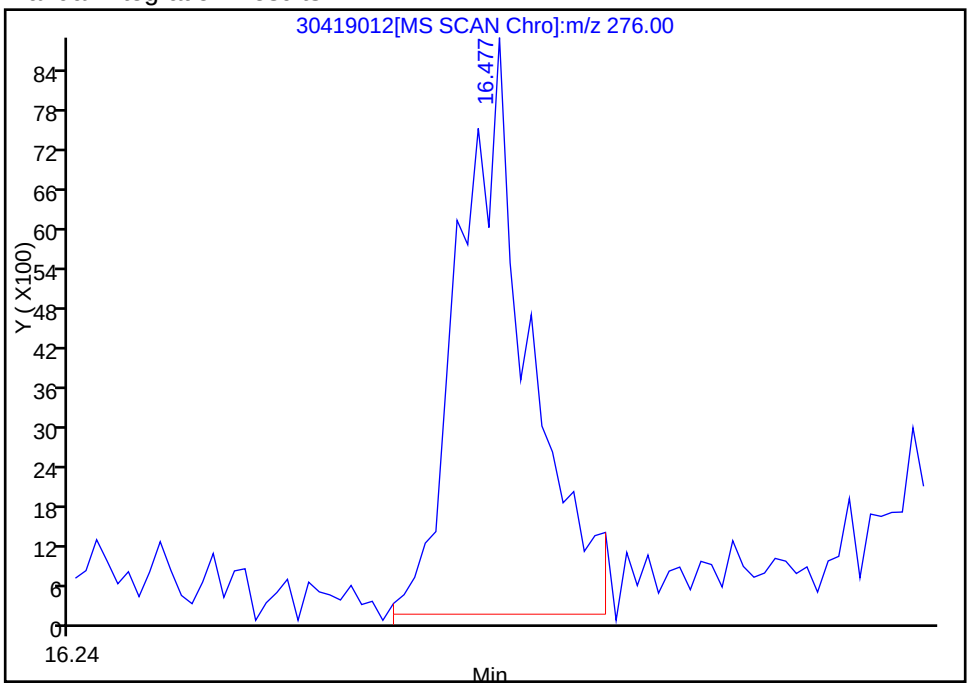
Processing Integration Results

RT: 16.47
Response: 11498
Amount: 0.104681



Manual Integration Results

RT: 16.48
Response: 23280
Amount: 0.211949



Reviewer: gruberj, 22-Apr-2013 11:10:46
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

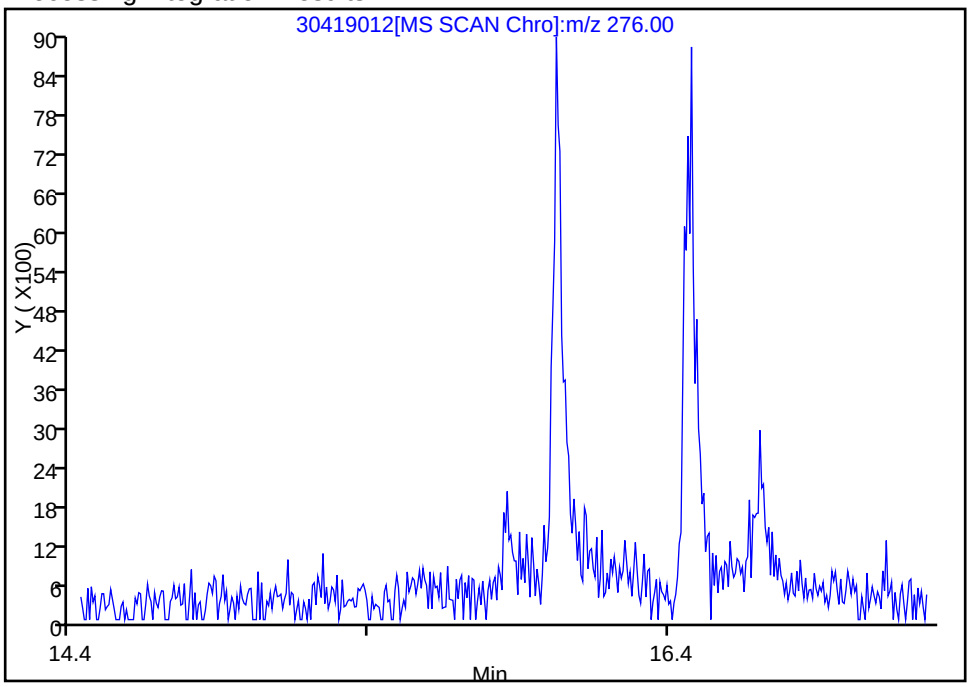
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419012.D		
Injection Date:	19-Apr-2013 14:38:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0018-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	12
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

190 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 16.03

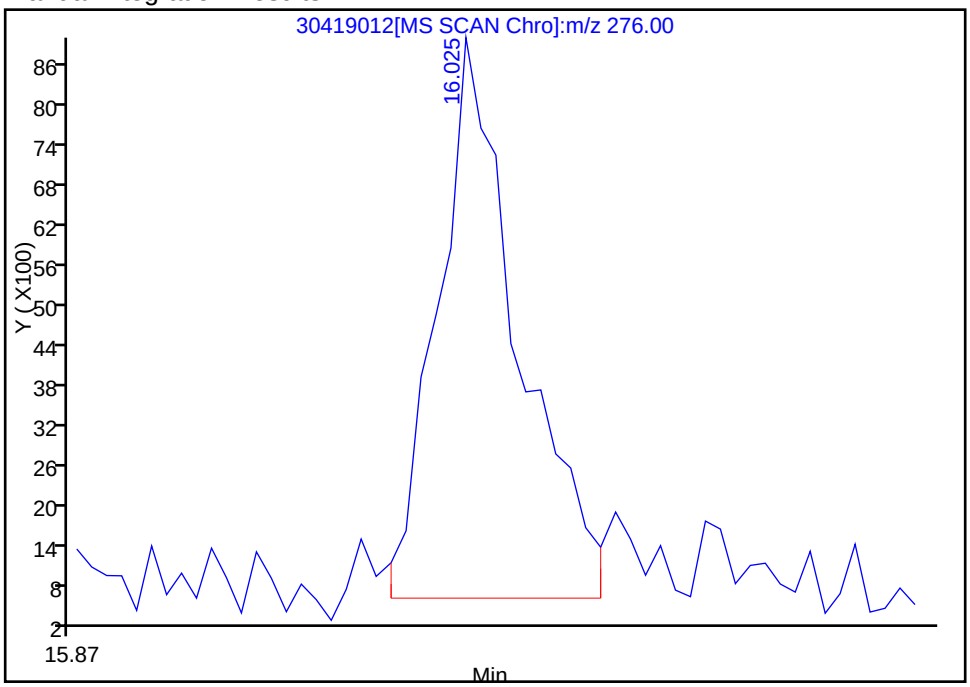
Processing Integration Results

Not Detected
Expected RT: 16.03



Manual Integration Results

RT: 16.03
Response: 18492
Amount: 0.143691



Reviewer: gruberj, 22-Apr-2013 11:10:46
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0019-0001-SO | Lab Sample ID: 240-22756-13

Matrix: Solid | Lab File ID: 30419009.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 11:59

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.39(g) | Date Analyzed: 04/19/2013 13:28

Con. Extract Vol.: 2(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	720	D	76	38	38
208-96-8	Acenaphthylene	38	U	76	38	38
120-12-7	Anthracene	38	U	76	38	38
56-55-3	Benzo[a]anthracene	120	D	76	38	38
50-32-8	Benzo[a]pyrene	75	J D M	76	38	38
205-99-2	Benzo[b]fluoranthene	77	D	76	38	38
191-24-2	Benzo[g,h,i]perylene	44	J D M	76	38	38
65-85-0	Benzoic acid	3800	U	7500	3800	3800
207-08-9	Benzo[k]fluoranthene	62	J D	76	38	38
100-51-6	Benzyl alcohol	310	U	3800	310	240
111-91-1	Bis(2-chloroethoxy)methane	310	U	1100	310	250
111-44-4	Bis(2-chloroethyl)ether	38	U	1100	38	23
108-60-1	bis (2-chloroisopropyl) ether	310	U	1100	310	110
117-81-7	Bis(2-ethylhexyl) phthalate	310	U	800	310	220
101-55-3	4-Bromophenyl phenyl ether	310	U	570	310	150
85-68-7	Butyl benzyl phthalate	310	U	800	310	110
86-74-8	Carbazole	310	U	570	310	310
106-47-8	4-Chloroaniline	310	U	1700	310	190
59-50-7	4-Chloro-3-methylphenol	310	U	1700	310	240
91-58-7	2-Chloronaphthalene	38	U	570	38	38
95-57-8	2-Chlorophenol	310	U	570	310	310
7005-72-3	4-Chlorophenyl phenyl ether	310	U	570	310	150
218-01-9	Chrysene	100	D	76	38	13
53-70-3	Dibenz(a,h)anthracene	38	U	76	38	38
132-64-9	Dibenzofuran	470	J D	570	38	38
95-50-1	1,2-Dichlorobenzene	310	U	570	310	110
541-73-1	1,3-Dichlorobenzene	310	U	570	310	130
106-46-7	1,4-Dichlorobenzene	310	U	570	310	230
91-94-1	3,3'-Dichlorobenzidine	910	U	1100	910	210
120-83-2	2,4-Dichlorophenol	310	U	1700	310	230
84-66-2	Diethyl phthalate	310	U	800	310	180
105-67-9	2,4-Dimethylphenol	910	U	1700	910	230
131-11-3	Dimethyl phthalate	310	U	800	310	190
84-74-2	Di-n-butyl phthalate	310	U	800	310	170

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0019-0001-SO | Lab Sample ID: 240-22756-13

Matrix: Solid | Lab File ID: 30419009.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 11:59

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.39(g) | Date Analyzed: 04/19/2013 13:28

Con. Extract Vol.: 2(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	910	U	1700	910	910
51-28-5	2,4-Dinitrophenol	910	U	3800	910	910
121-14-2	2,4-Dinitrotoluene	310	U	2300	310	310
606-20-2	2,6-Dinitrotoluene	310	U	2300	310	240
117-84-0	Di-n-octyl phthalate	310	U	800	310	310
206-44-0	Fluoranthene	310	D	76	38	38
86-73-7	Fluorene	1200	D	76	38	38
118-74-1	Hexachlorobenzene	38	U	76	38	24
87-68-3	Hexachlorobutadiene	310	U	570	310	310
77-47-4	Hexachlorocyclopentadiene	310	U	3800	310	310
67-72-1	Hexachloroethane	310	U	570	310	100
193-39-5	Indeno[1,2,3-cd]pyrene	38	U	76	38	38
78-59-1	Isophorone	310	U	570	310	150
91-57-6	2-Methylnaphthalene	530	D	76	38	38
95-48-7	2-Methylphenol	910	U	2300	910	910
15831-10-4	3 & 4 Methylphenol	910	U	4600	910	230
91-20-3	Naphthalene	38	U	76	38	38
88-74-4	2-Nitroaniline	310	U	2300	310	100
99-09-2	3-Nitroaniline	910	U	2300	910	180
100-01-6	4-Nitroaniline	310	U	2300	310	300
98-95-3	Nitrobenzene	38	U	1100	38	25
88-75-5	2-Nitrophenol	310	U	570	310	310
100-02-7	4-Nitrophenol	910	U	3800	910	910
621-64-7	N-Nitrosodi-n-propylamine	310	U	570	310	310
86-30-6	N-Nitrosodiphenylamine	310	U	570	310	240
87-86-5	Pentachlorophenol	910	U	1700	910	910
85-01-8	Phenanthrene	1700	D	76	38	38
108-95-2	Phenol	310	U	570	310	310
129-00-0	Pyrene	470	D	76	38	38
120-82-1	1,2,4-Trichlorobenzene	310	U	570	310	310
95-95-4	2,4,5-Trichlorophenol	310	U	1700	310	290
88-06-2	2,4,6-Trichlorophenol	910	U	1700	910	910

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0019-0001-SO | Lab Sample ID: 240-22756-13

Matrix: Solid | Lab File ID: 30419009.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 11:59

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.39(g) | Date Analyzed: 04/19/2013 13:28

Con. Extract Vol.: 2(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	67		45-105
367-12-4	2-Fluorophenol (Surr)	67		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	88		35-100
4165-62-2	Phenol-d5 (Surr)	67		40-100
1718-51-0	Terphenyl-d14 (Surr)	60		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	60		35-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419009.D
Lims ID: 240-22756-B-13-A
Client ID: 074SB-0019-0001-SO
Inject. Date: 19-Apr-2013 13:28:30
Dil. Factor: 10.0000
Sample Type: Client
Sample ID: 240-0019044-009
Misc. Info.: 240-22756-B-13-A
Operator: 001710
Instrument ID: A4HP10
Injection Vol: 1.0 ul
ALS Bottle#: 9
Lims Batch ID: 82653
Lims Sample ID: 9
Detector: MS SCAN

Method: \\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m
Last Update: 22-Apr-2013 13:55:06
Calib Date: 12-Apr-2013 00:58:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: 5% phenyl
Column Dia: 0.18 mm
Process Host: XAWRK022

First Level Reviewer: gruberj
Date: 22-Apr-2013 09:40:59

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.849	5.848	0.001	98	150933	4.00	
* 2 Naphthalene-d8	136	6.971	6.970	0.001	98	603685	4.00	
* 3 Acenaphthene-d10	164	8.475	8.475	0.0	84	362467	4.00	
* 4 Phenanthrene-d10	188	9.738	9.738	0.0	95	601590	4.00	
* 5 Chrysene-d12	240	12.288	12.294	-0.006	78	630713	4.00	
* 6 Perylene-d12	264	14.368	14.368	0.0	79	502302	4.00	
$ 7 2-Fluorophenol	112	4.574	4.573	0.001	86	43717	1.00	
$ 8 Phenol-d5	99	5.484	5.490	-0.006	97	58096	1.00	
$ 9 Nitrobenzene-d5	82	6.336	6.336	0.0	79	49511	0.8771	
$ 10 2-Fluorobiphenyl (Surr)	172	7.887	7.887	0.0	79	78736	0.6737	
$ 11 2,4,6-Tribromophenol	330	9.139	9.144	-0.005	32	11991	0.9043	
$ 12 Terphenyl-d14	244	11.101	11.101	0.0	91	74305	0.5988	
43 Phenol	94		5.502					9
45 Bis(2-chloroethyl)ether	93		5.601					9
47 2-Chlorophenol	128		5.648					
48 1,3-Dichlorobenzene	146		5.795					
49 1,4-Dichlorobenzene	146		5.866					
50 Benzyl alcohol	108		5.960					9
51 1,2-Dichlorobenzene	146		6.001					
52 2-Methylphenol	108		6.054					
54 2,2'-oxybis[1-chloropropane]	45		6.083					
56 3 & 4 Methylphenol	108		6.183					
57 N-Nitrosodi-n-propylamine	70		6.195					
61 Hexachloroethane	117		6.307					9
62 Nitrobenzene	77		6.354					
64 Isophorone	82		6.559					
66 2-Nitrophenol	139		6.636					
65 2,4-Dimethylphenol	107		6.653					
70 Benzoic acid	122		6.712					9
69 Bis(2-chloroethoxy)methane	93		6.741					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
72 2,4-Dichlorophenol	162		6.835					9
73 1,2,4-Trichlorobenzene	180		6.918					
74 Naphthalene	128		6.988					
75 4-Chloroaniline	127		7.023					
78 Hexachlorobutadiene	225		7.088					
85 4-Chloro-3-methylphenol	107		7.423					
87 2-Methylnaphthalene	142	7.582	7.582	0.0	65	66141	0.7021	
89 Hexachlorocyclopentadiene	237		7.711					
93 2,4,6-Trichlorophenol	196		7.811					
94 2,4,5-Trichlorophenol	196		7.846					
100 2-Chloronaphthalene	162		7.999					
102 2-Nitroaniline	65		8.075					
105 Dimethyl phthalate	163		8.216					
107 2,6-Dinitrotoluene	165		8.275					
109 Acenaphthylene	152		8.357					9
110 3-Nitroaniline	138		8.422					
112 Acenaphthene	153	8.504	8.504	0.0	77	93828	0.9507	
111 2,4-Dinitrophenol	184		8.510					
113 4-Nitrophenol	109		8.539					
114 2,4-Dinitrotoluene	165		8.616					
116 Dibenzofuran	168	8.645	8.645	0.0	20	81563	0.6132	
121 Diethyl phthalate	149		8.815					
123 4-Chlorophenyl phenyl ether	204		8.927					
126 Fluorene	166	8.939	8.939	0.0	84	169676	1.57	
125 4-Nitroaniline	138		8.939					
128 4,6-Dinitro-2-methylphenol	198		8.962					
129 N-Nitrosodiphenylamine	169		9.027					
139 4-Bromophenyl phenyl ether	248		9.344					
141 Hexachlorobenzene	284		9.403					
144 Pentachlorophenol	266		9.567					9
149 Phenanthrene	178	9.762	9.761	0.001	93	320394	2.30	
150 Anthracene	178		9.803					
152 Carbazole	167		9.932					
155 Di-n-butyl phthalate	149		10.196					
160 Fluoranthene	202	10.772	10.772	0.0	92	68099	0.4138	
162 Pyrene	202	10.984	10.984	0.0	94	101618	0.6239	
170 Butyl benzyl phthalate	149		11.583					
177 3,3'-Dichlorobenzidine	252		12.229					9
175 Bis(2-ethylhexyl) phthalate	149		12.258					
179 Benzo[a]anthracene	228	12.276	12.282	-0.006	48	24087	0.1535	
180 Chrysene	228	12.318	12.329	-0.011	72	18944	0.1315	
182 Di-n-octyl phthalate	149		13.175					9
184 Benzo[b]fluoranthene	252	13.786	13.786	0.0	67	13575	0.1007	
185 Benzo[k]fluoranthene	252	13.810	13.827	-0.017	1	12040	0.0821	
186 Benzo[a]pyrene	252	14.274	14.286	-0.012	55	12408	0.0991	M
190 Indeno[1,2,3-cd]pyrene	276		16.031					
191 Dibenz(a,h)anthracene	278		16.066					
192 Benzo[g,h,i]perylene	276	16.460	16.477	-0.017	65	6743	0.0575	M

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

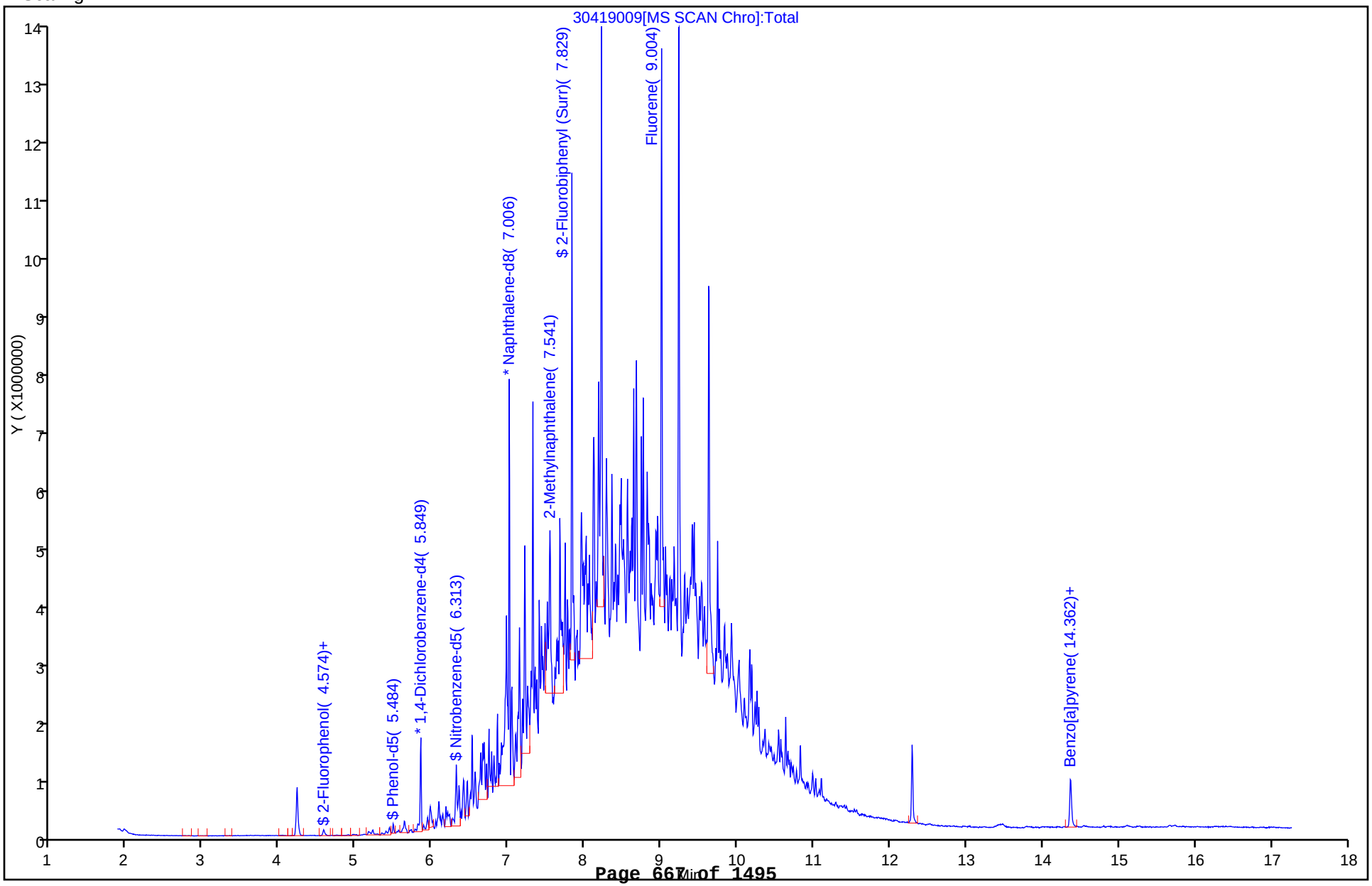
Report Date: 22-Apr-2013 13:55:13 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419009.D

Injection Date:	19-Apr-2013 13:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0019-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	9
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



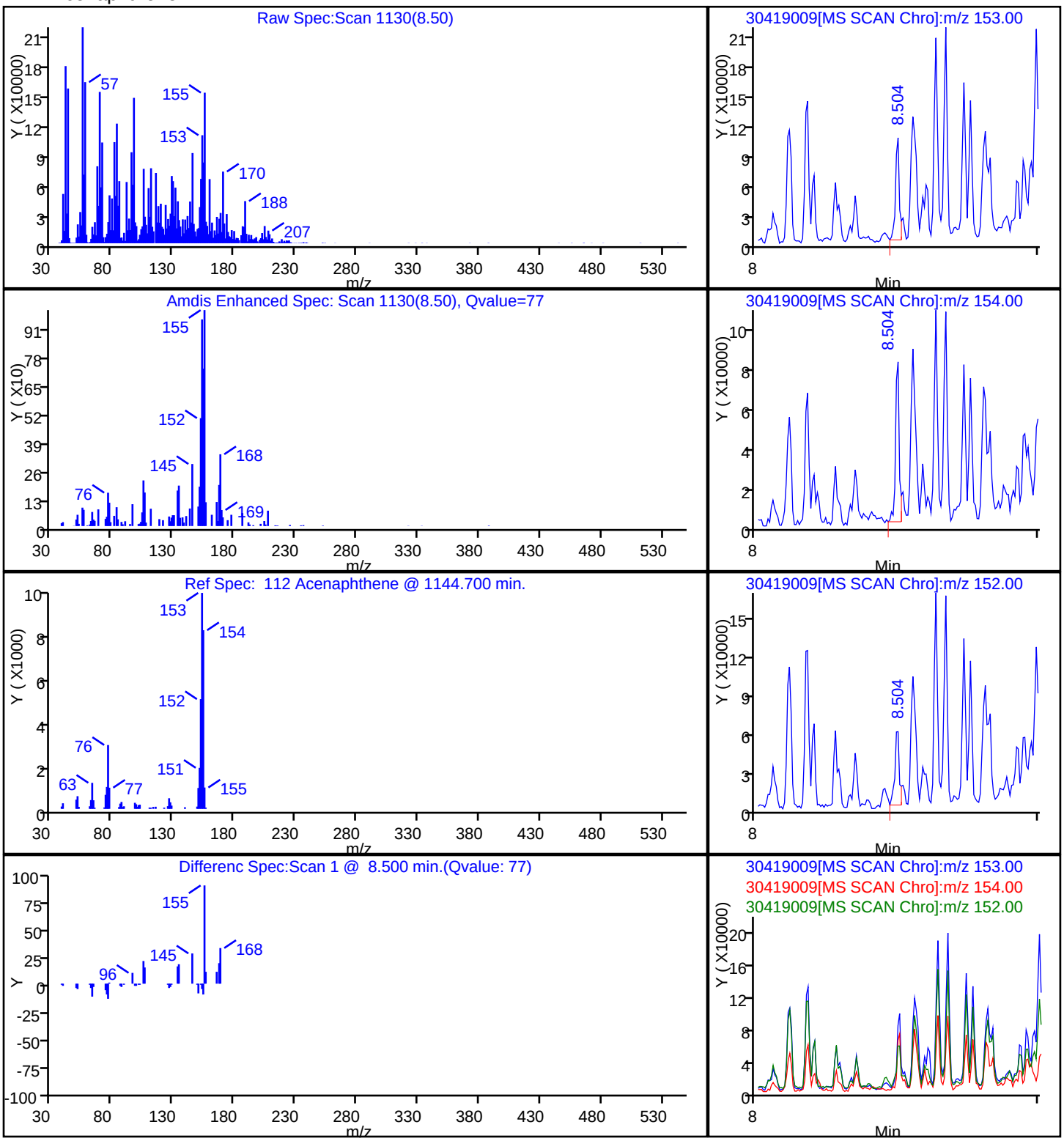
Report Date: 22-Apr-2013 13:55:13 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419009.D

Injection Date:	19-Apr-2013 13:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0019-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	9
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

112 Acenaphthene



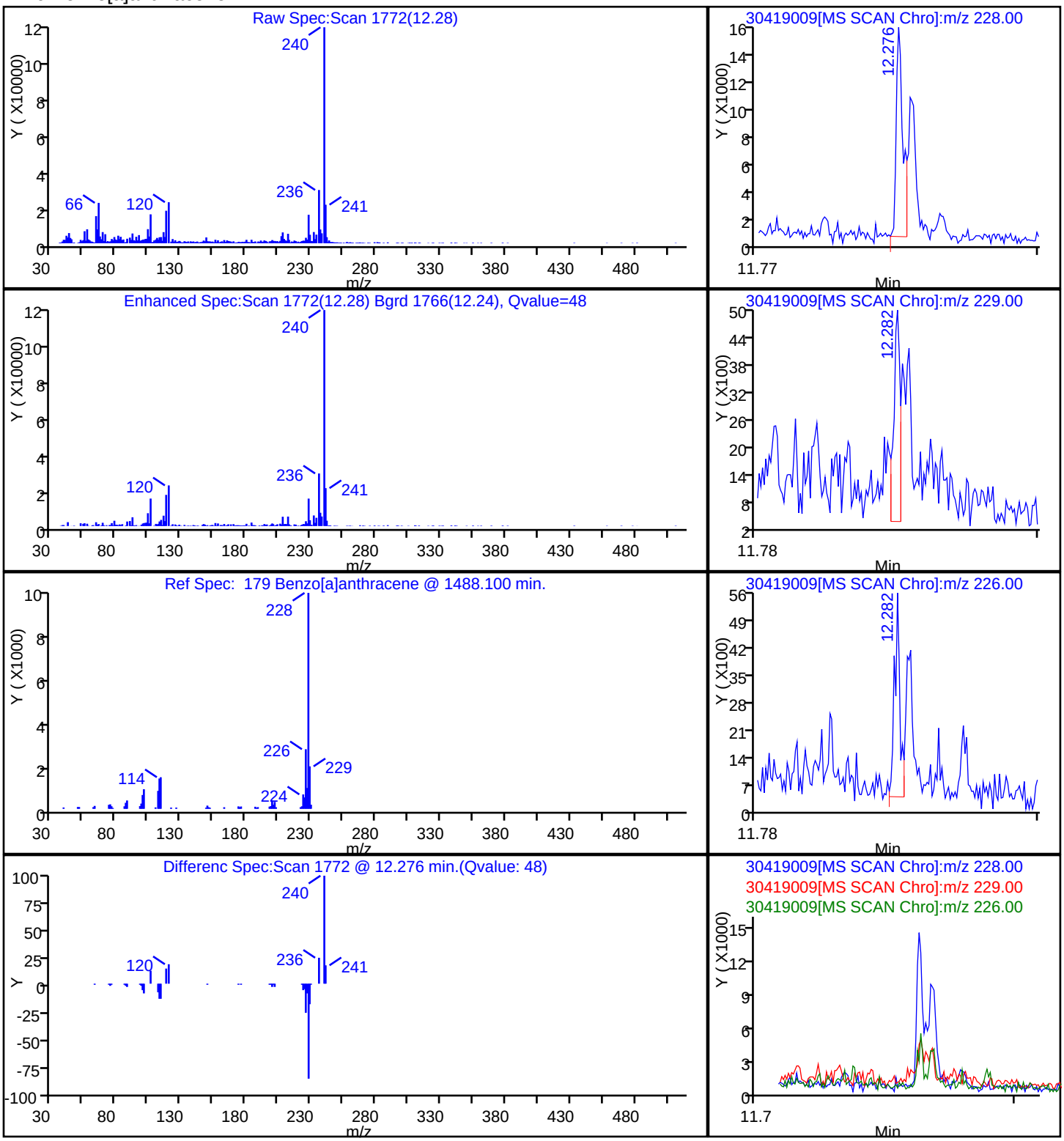
Report Date: 22-Apr-2013 13:55:14 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419009.D

Injection Date:	19-Apr-2013 13:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0019-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	9
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

179 Benzo[a]anthracene

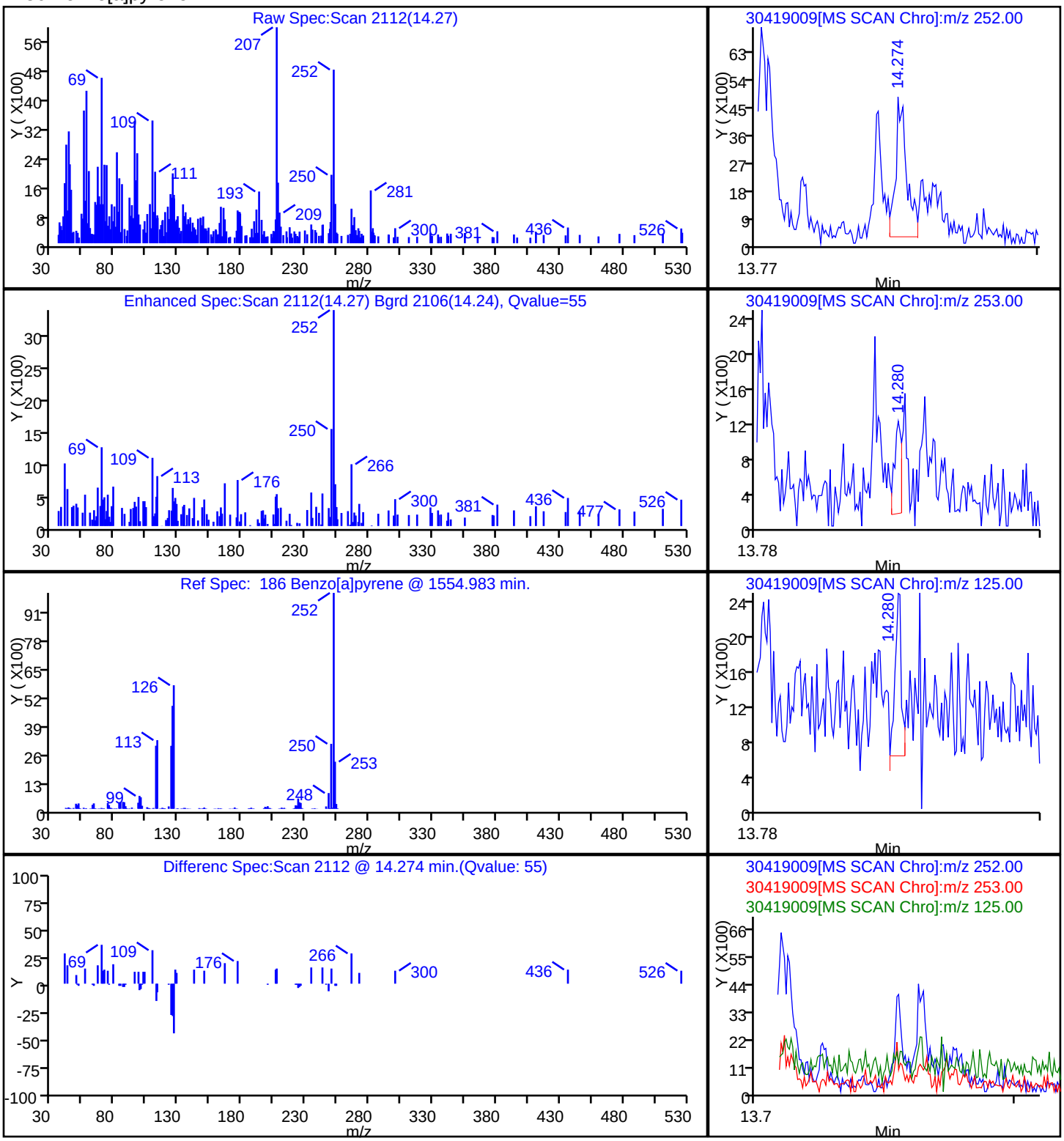


Report Date: 22-Apr-2013 13:55:14 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419009.D		
Injection Date:	19-Apr-2013 13:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0019-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	9
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

186 Benzo[a]pyrene



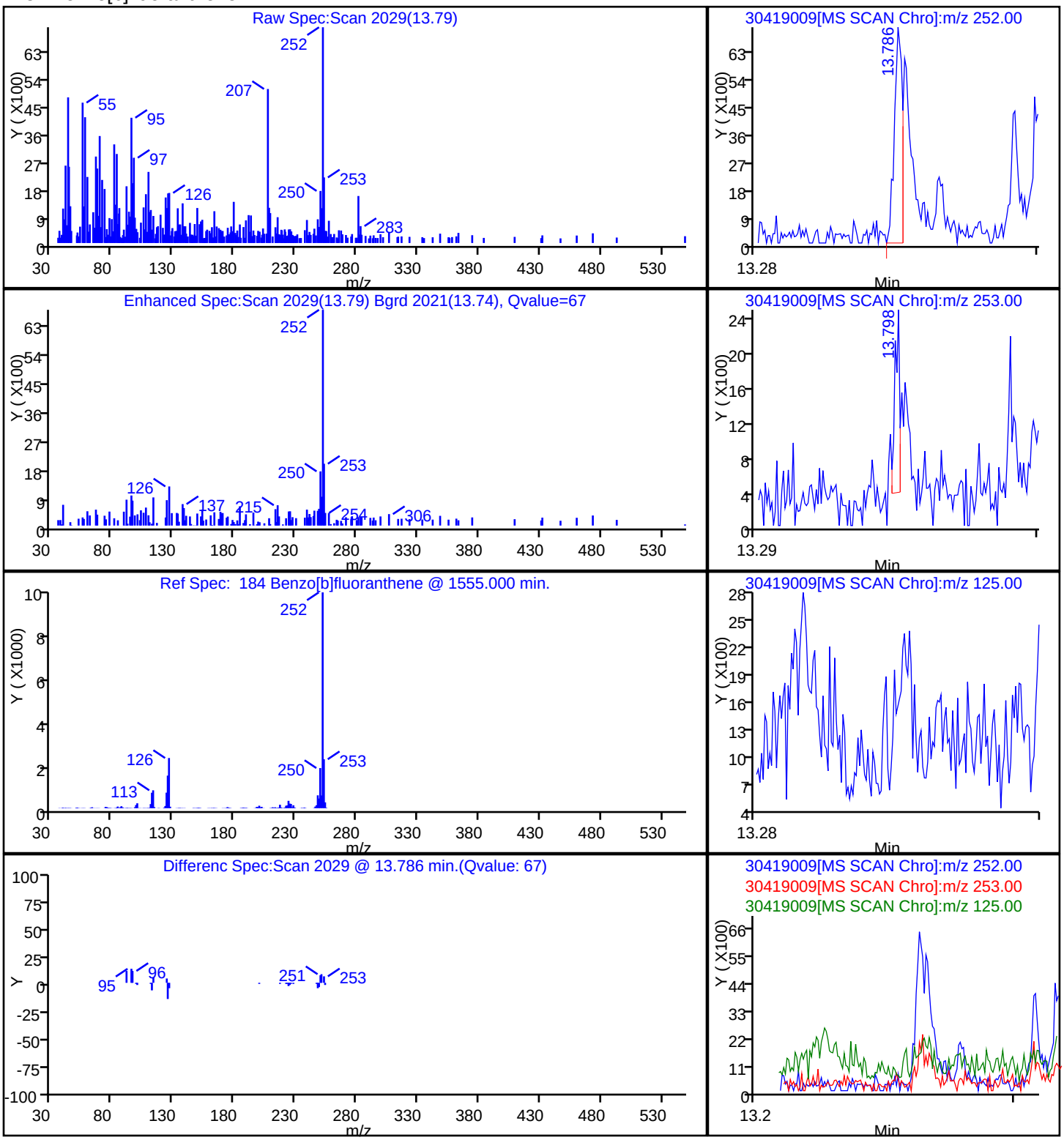
Report Date: 22-Apr-2013 13:55:14 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419009.D

Injection Date:	19-Apr-2013 13:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0019-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	9
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

184 Benzo[b]fluoranthene



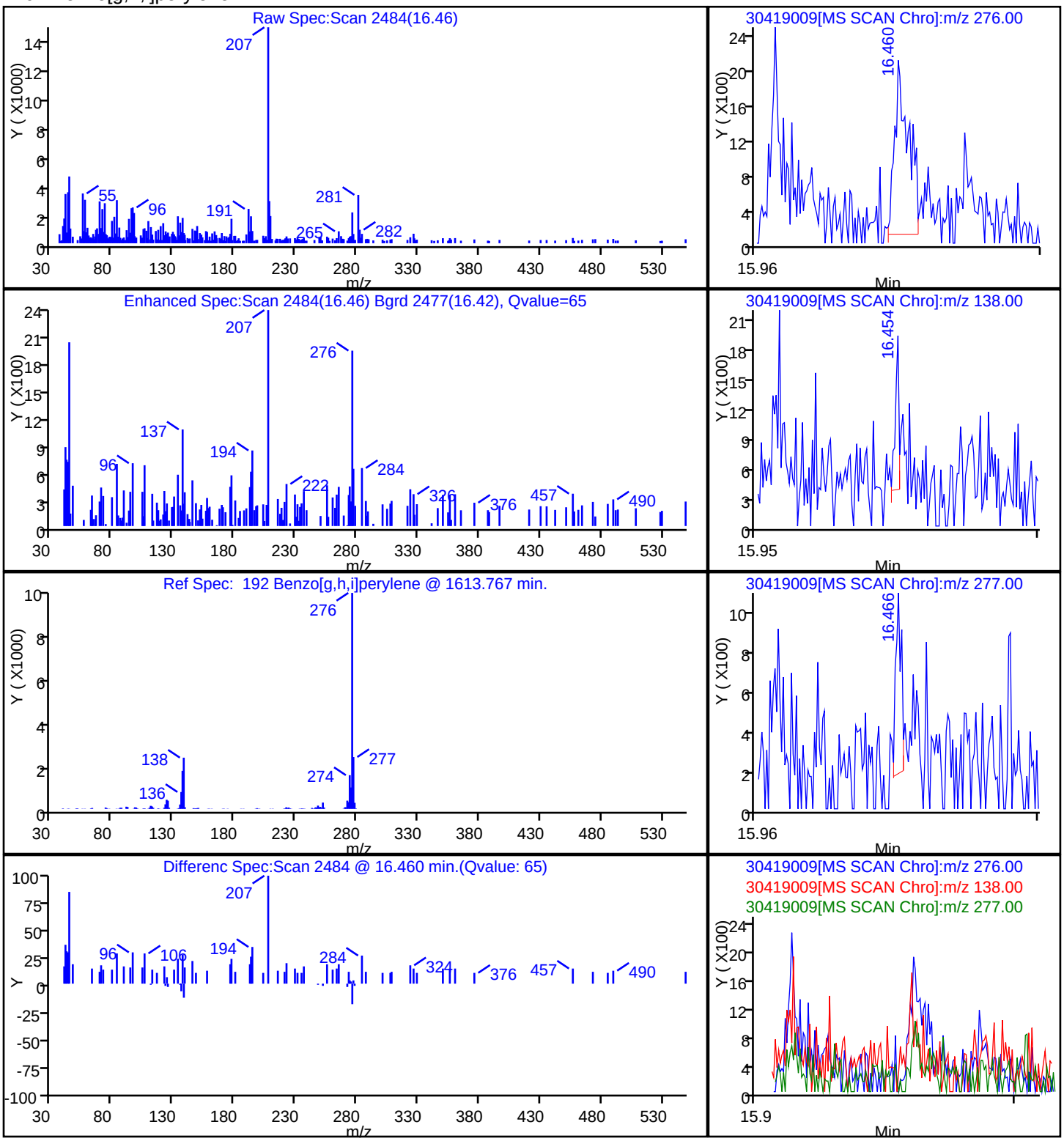
Report Date: 22-Apr-2013 13:55:14 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419009.D

Injection Date:	19-Apr-2013 13:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0019-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	9
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

192 Benzo[g,h,i]perylene



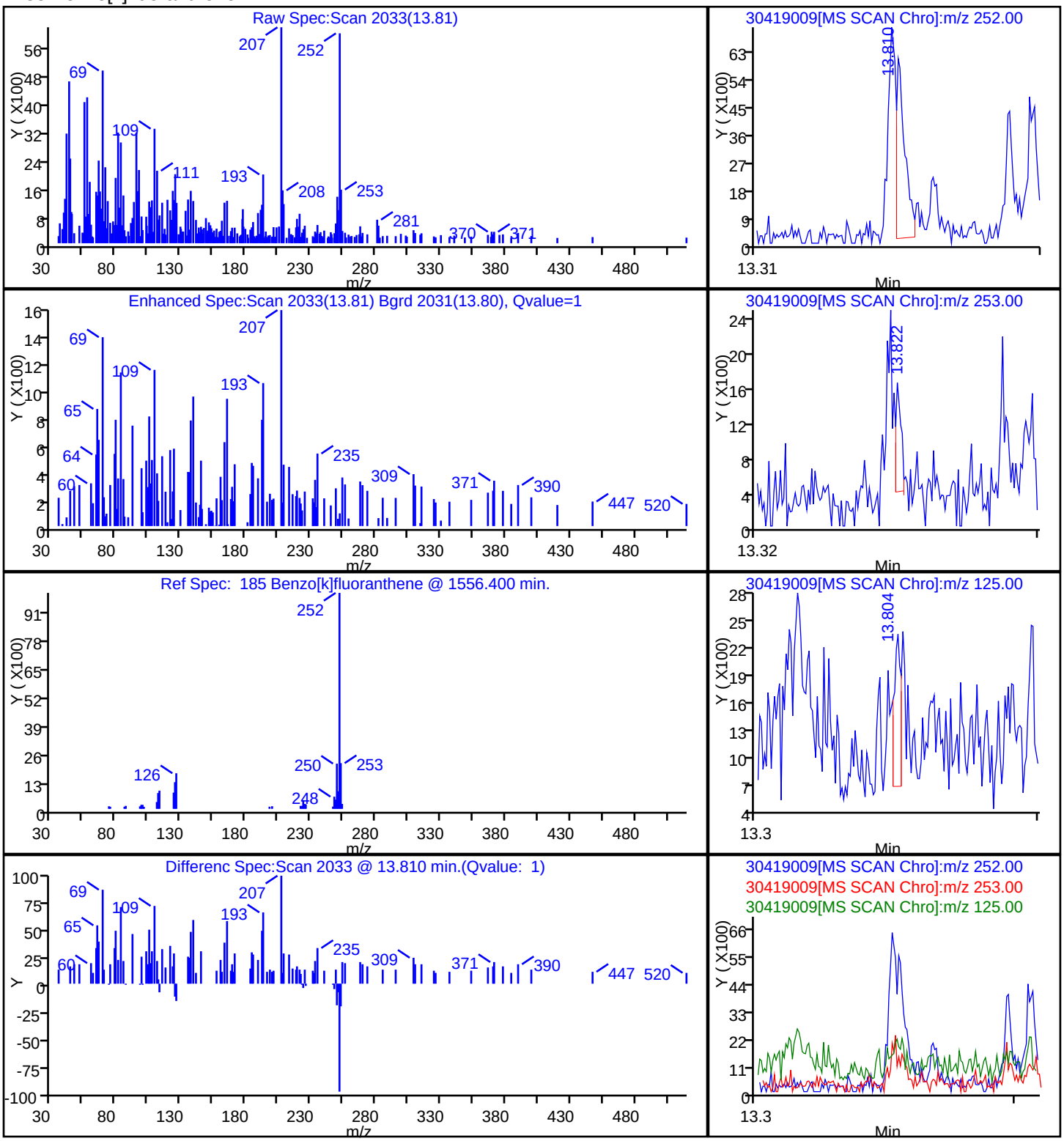
Report Date: 22-Apr-2013 13:55:14 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419009.D

Injection Date:	19-Apr-2013 13:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0019-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	9
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

185 Benzo[k]fluoranthene



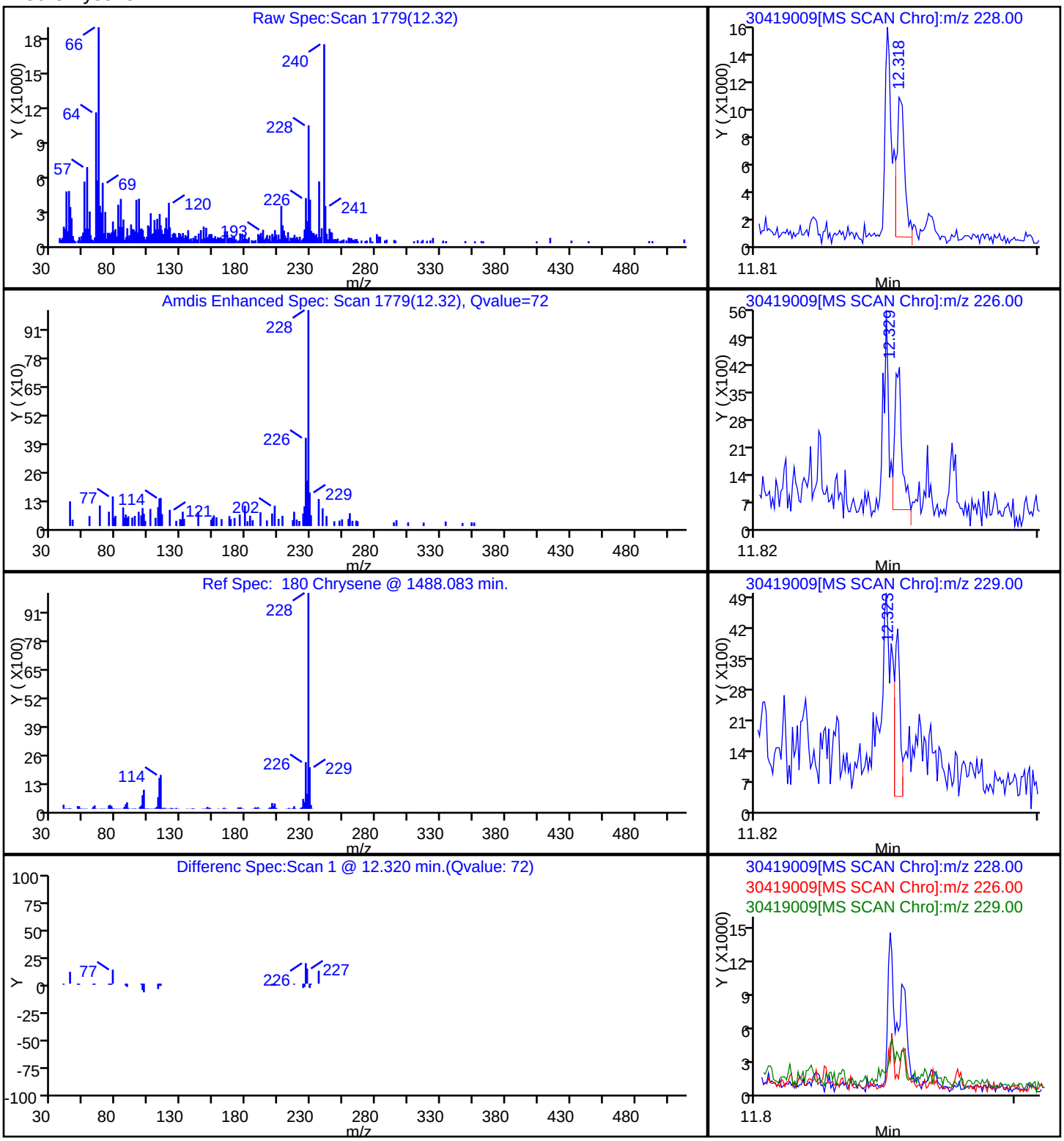
Report Date: 22-Apr-2013 13:55:14 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419009.D

Injection Date:	19-Apr-2013 13:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0019-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	9
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

180 Chrysene

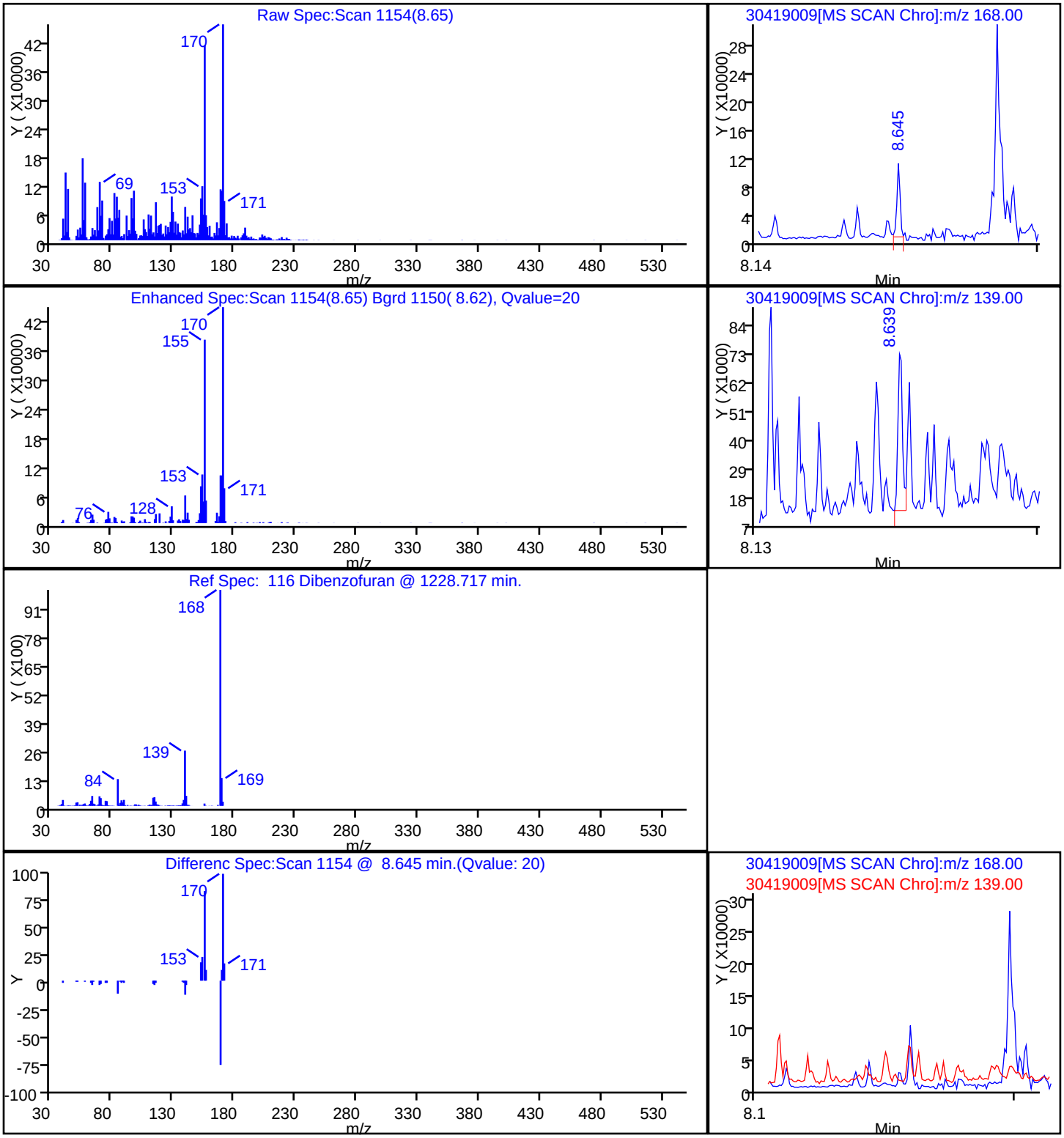


Report Date: 22-Apr-2013 13:55:14 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419009.D		
Injection Date:	19-Apr-2013 13:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0019-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	9
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

116 Dibenzofuran



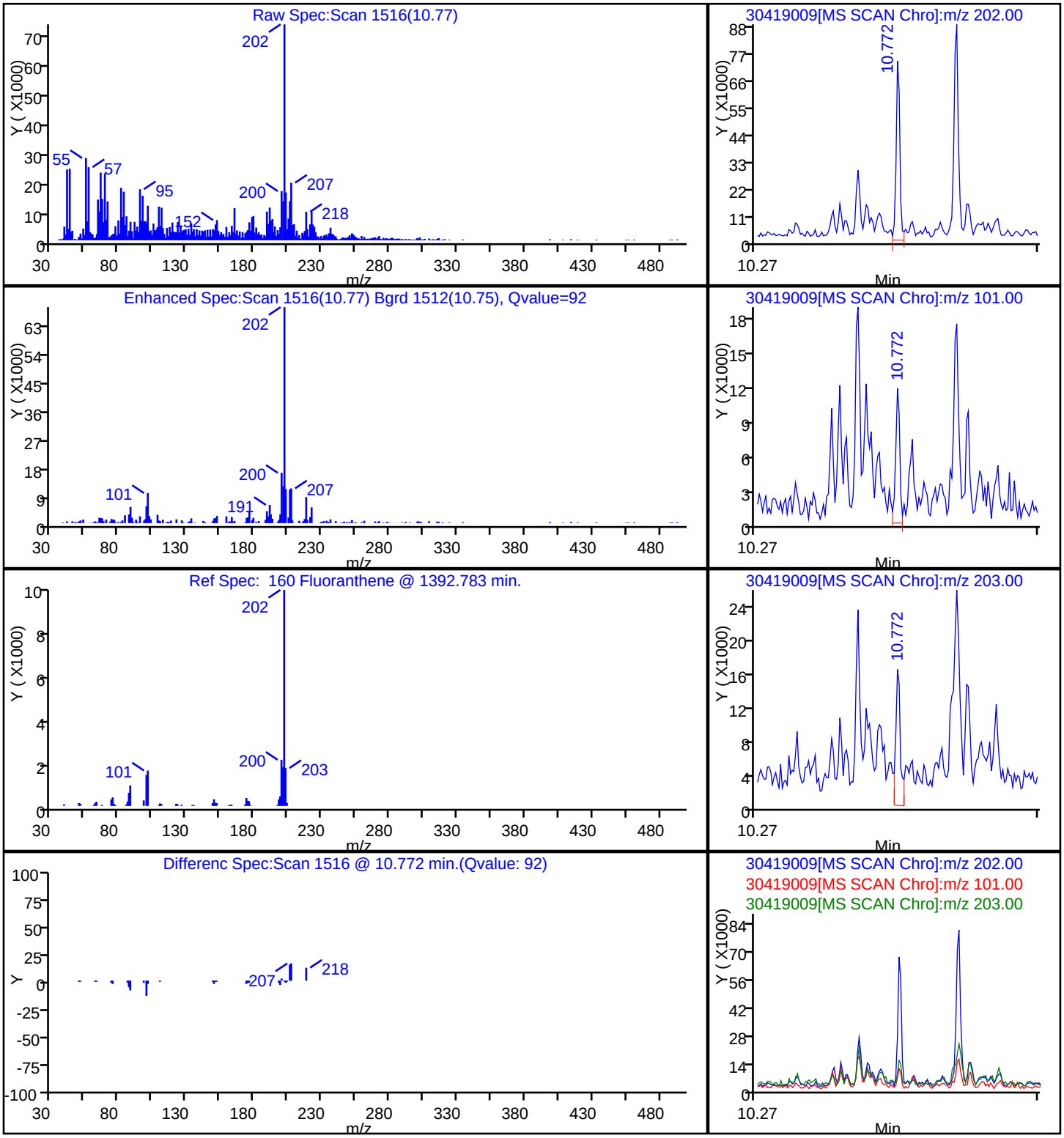
Report Date: 22-Apr-2013 13:55:14 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419009.D

Injection Date:	19-Apr-2013 13:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0019-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	9
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

160 Fluoranthene



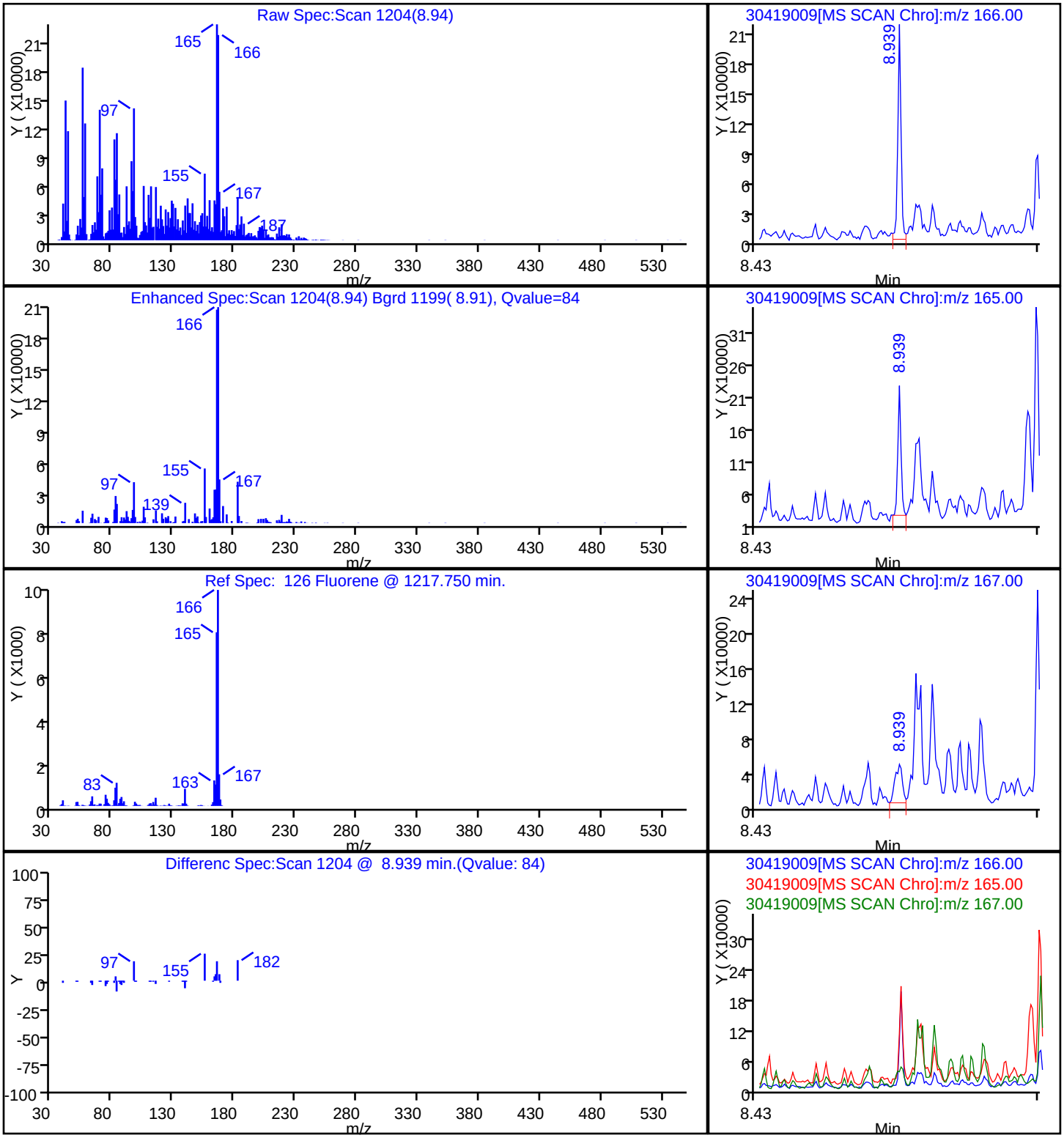
Report Date: 22-Apr-2013 13:55:14 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419009.D

Injection Date:	19-Apr-2013 13:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0019-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	9
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

126 Fluorene



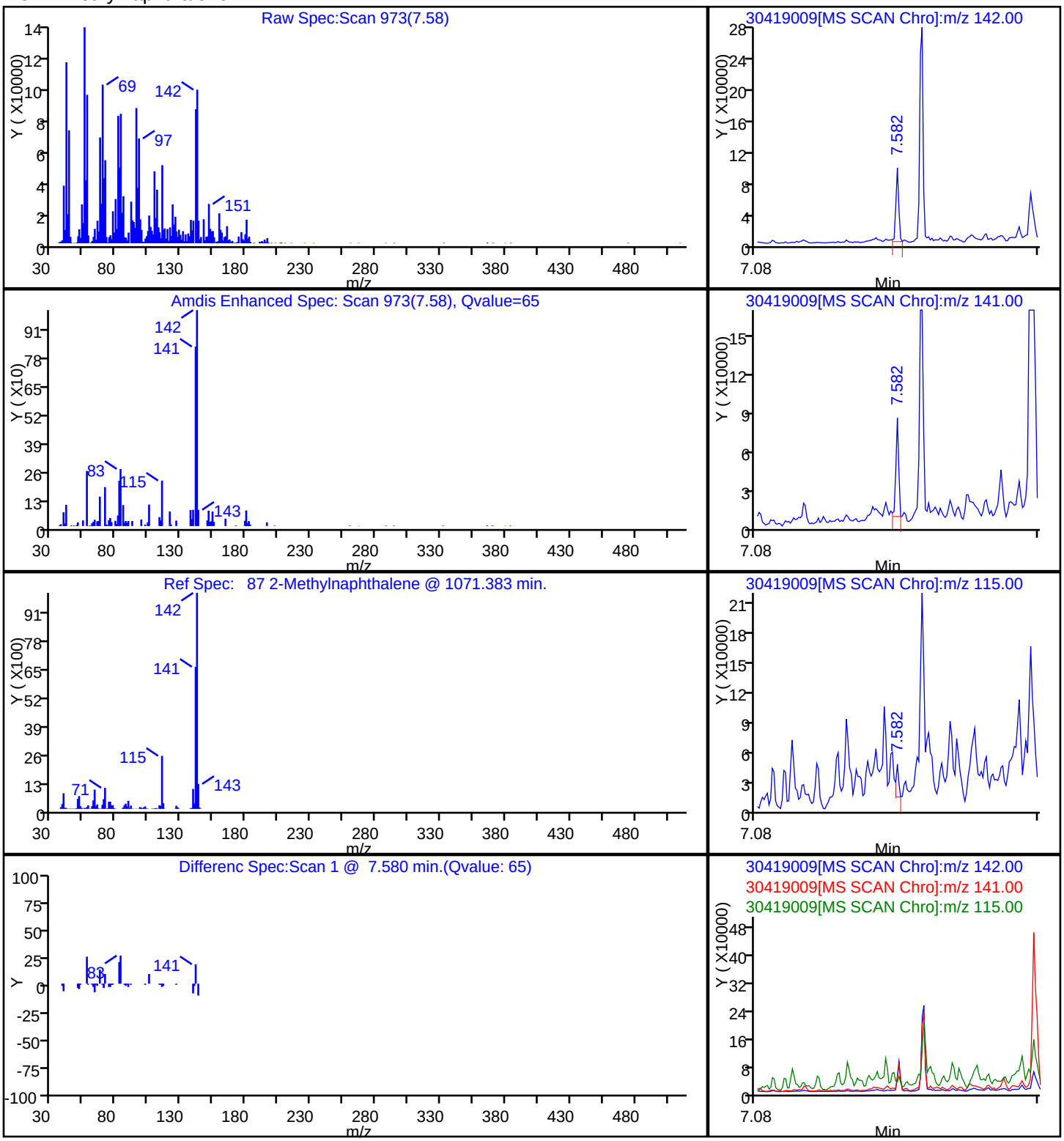
Report Date: 22-Apr-2013 13:55:13 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419009.D

Injection Date:	19-Apr-2013 13:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0019-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	9
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

87 2-Methylnaphthalene

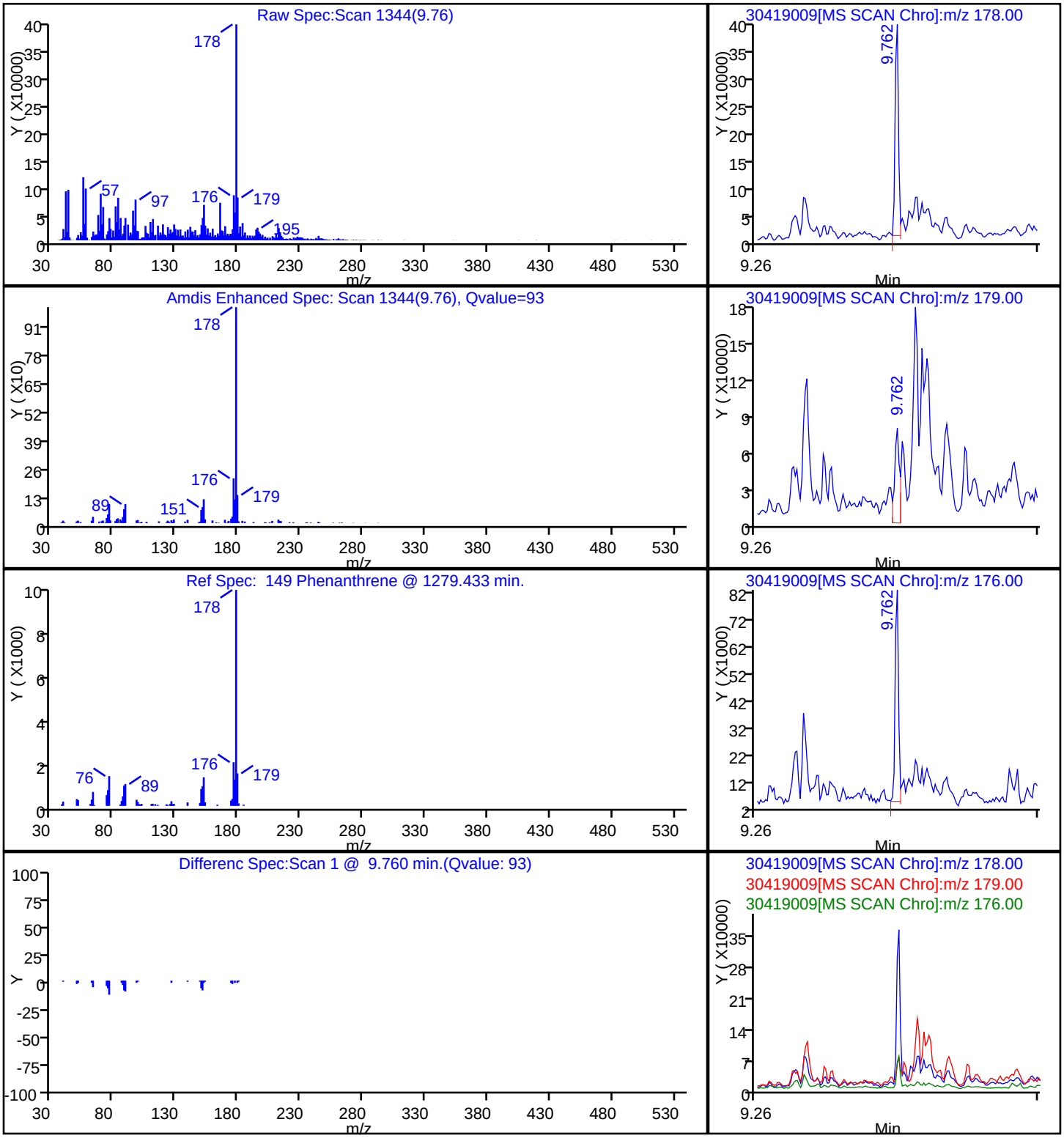


Report Date: 22-Apr-2013 13:55:14 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419009.D		
Injection Date:	19-Apr-2013 13:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0019-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	9
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

149 Phenanthrene



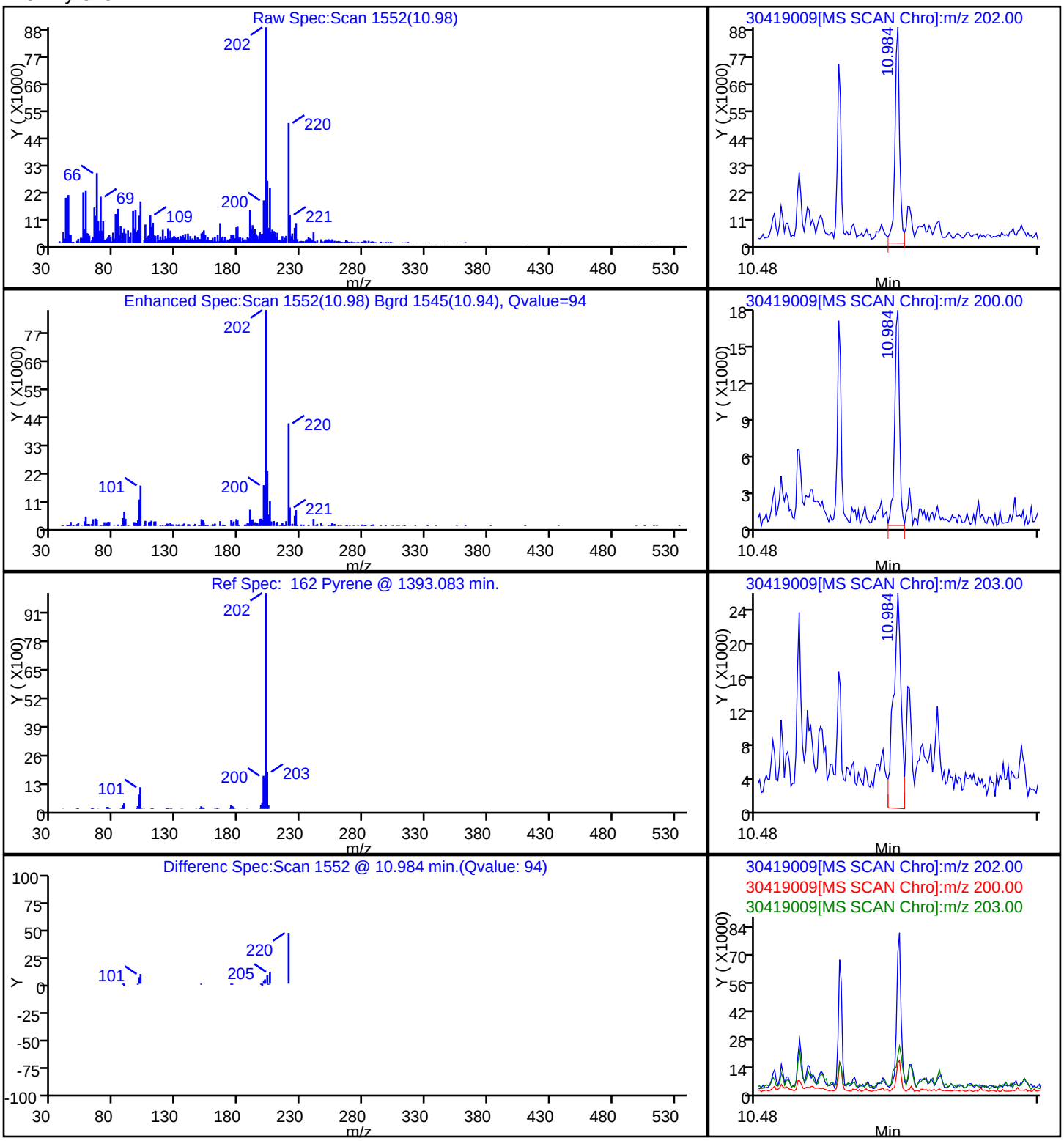
Report Date: 22-Apr-2013 13:55:14 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419009.D

Injection Date:	19-Apr-2013 13:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0019-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	9
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

162 Pyrene



Manual Integration/User Assign Peak Report

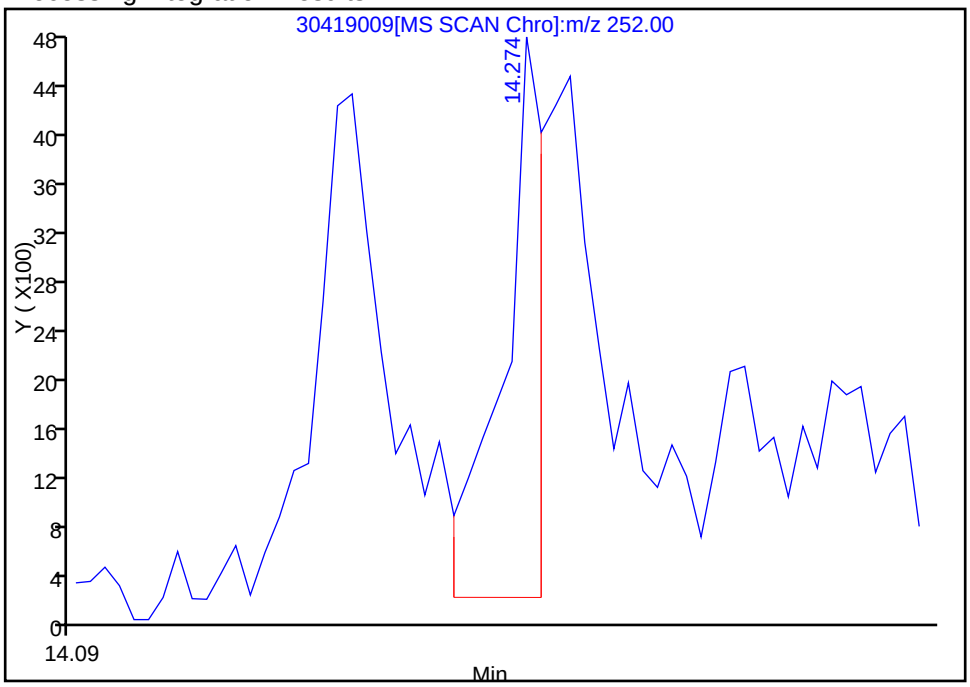
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419009.D		
Injection Date:	19-Apr-2013 13:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0019-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	9
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

186 Benzo[a]pyrene, Signal: 1, m/z: 252.0 Type: quant, RT: 14.29

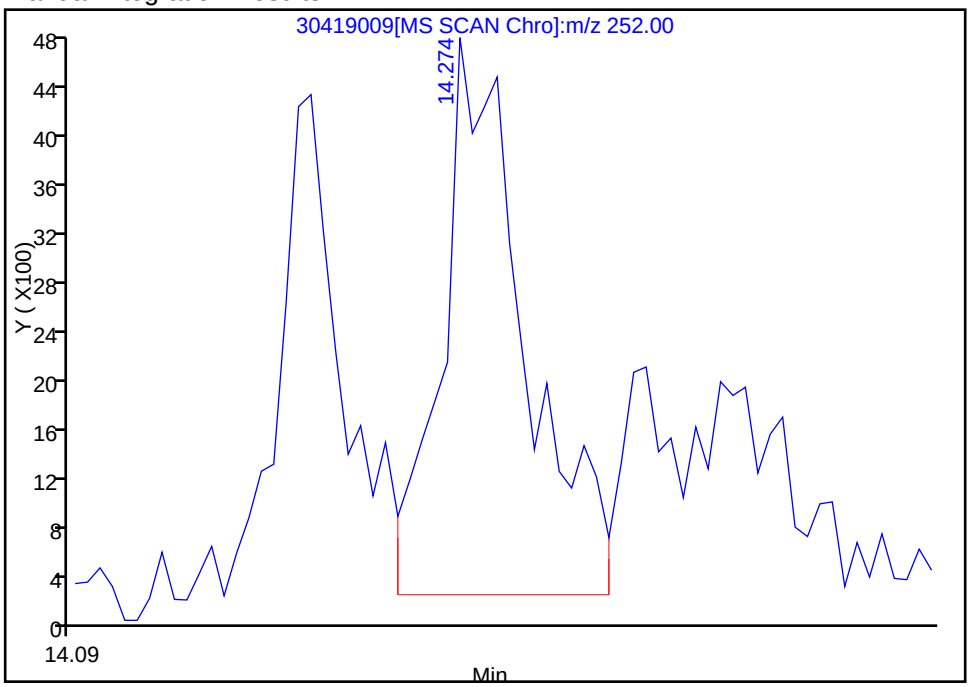
Processing Integration Results

RT: 14.27
Response: 5241
Amount: 0.041874



Manual Integration Results

RT: 14.27
Response: 12408
Amount: 0.099135



Reviewer: gruberj, 22-Apr-2013 09:40:59
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

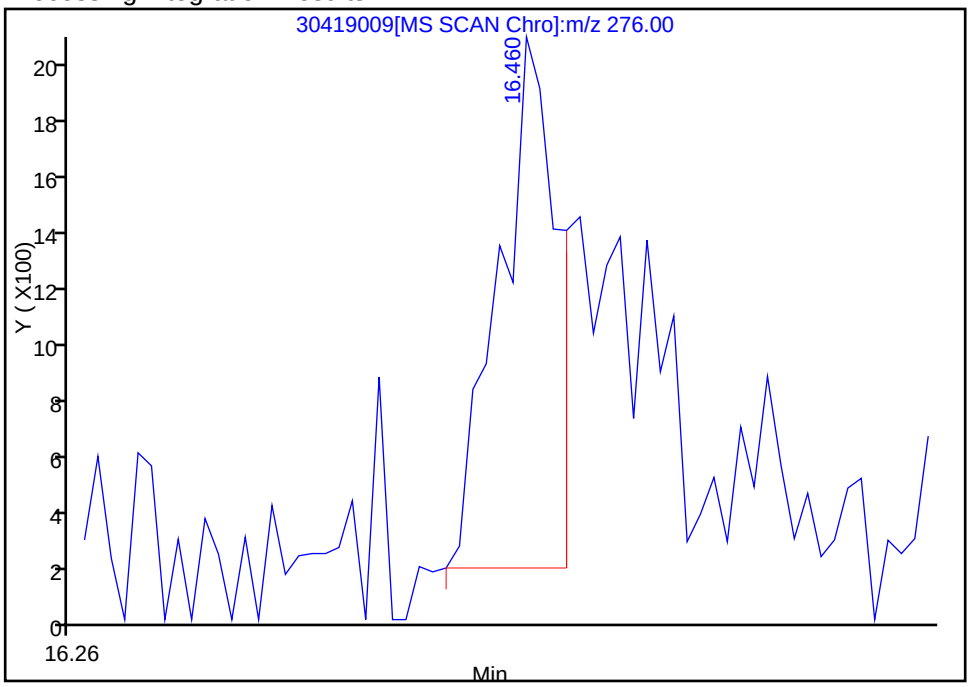
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419009.D		
Injection Date:	19-Apr-2013 13:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0019-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	9
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

192 Benzo[g,h,i]perylene, Signal: 1, m/z: 276.0 Type: quant, RT: 16.48

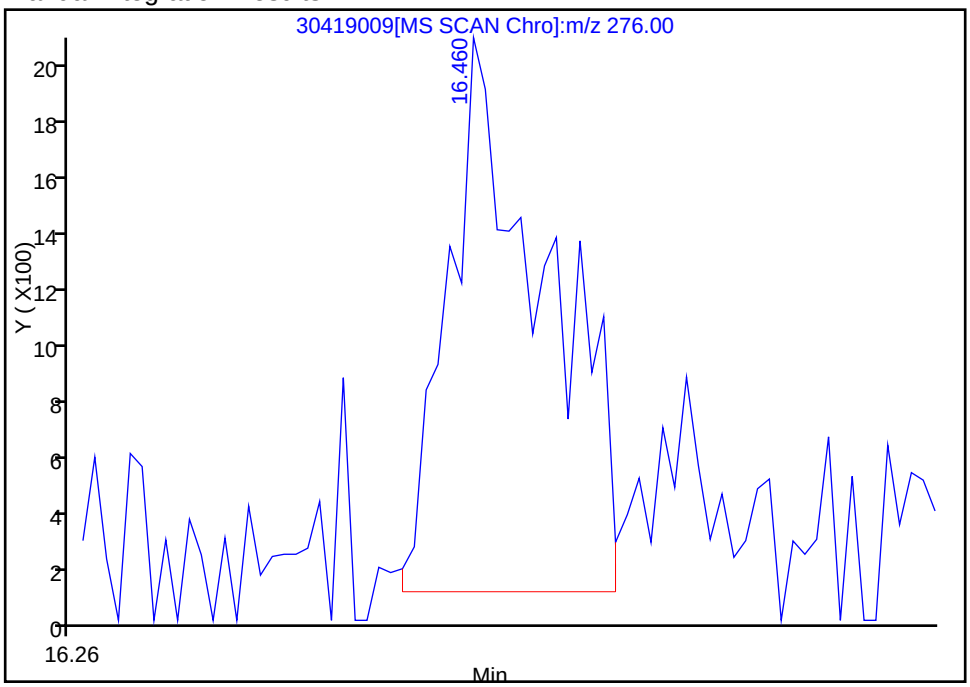
Processing Integration Results

RT: 16.46
Response: 3428
Amount: 0.029255



Manual Integration Results

RT: 16.46
Response: 6743
Amount: 0.057545



Reviewer: gruberj, 22-Apr-2013 09:40:59
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0020-0001-SO | Lab Sample ID: 240-22756-14

Matrix: Solid | Lab File ID: 30419011.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 12:45

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.19(g) | Date Analyzed: 04/19/2013 14:14

Con. Extract Vol.: 2(mL) | Dilution Factor: 2.5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	110		20	9.7	9.7
208-96-8	Acenaphthylene	27		20	9.7	9.7
120-12-7	Anthracene	280		20	9.7	9.7
56-55-3	Benzo[a]anthracene	280		20	9.7	9.7
50-32-8	Benzo[a]pyrene	210		20	9.7	9.7
205-99-2	Benzo[b]fluoranthene	270	M	20	9.7	9.7
191-24-2	Benzo[g,h,i]perylene	91		20	9.7	9.7
65-85-0	Benzoic acid	980	U	1900	980	980
207-08-9	Benzo[k]fluoranthene	78	M	20	9.7	9.7
100-51-6	Benzyl alcohol	80	U	970	80	62
111-91-1	Bis(2-chloroethoxy)methane	80	U	290	80	65
111-44-4	Bis(2-chloroethyl)ether	9.7	U	290	9.7	5.9
108-60-1	bis (2-chloroisopropyl) ether	80	U	290	80	28
117-81-7	Bis(2-ethylhexyl) phthalate	100	J	210	80	56
101-55-3	4-Bromophenyl phenyl ether	80	U	150	80	38
85-68-7	Butyl benzyl phthalate	80	U	210	80	29
86-74-8	Carbazole	80	U	150	80	80
106-47-8	4-Chloroaniline	80	U	440	80	50
59-50-7	4-Chloro-3-methylphenol	80	U	440	80	62
91-58-7	2-Chloronaphthalene	9.7	U	150	9.7	9.7
95-57-8	2-Chlorophenol	80	U	150	80	80
7005-72-3	4-Chlorophenyl phenyl ether	80	U	150	80	38
218-01-9	Chrysene	300		20	9.7	3.2
53-70-3	Dibenz(a,h)anthracene	9.7	U	20	9.7	9.7
132-64-9	Dibenzofuran	110	J	150	9.7	9.7
95-50-1	1,2-Dichlorobenzene	80	U	150	80	29
541-73-1	1,3-Dichlorobenzene	80	U	150	80	32
106-46-7	1,4-Dichlorobenzene	80	U	150	80	59
91-94-1	3,3'-Dichlorobenzidine	240	U	290	240	53
120-83-2	2,4-Dichlorophenol	80	U	440	80	59
84-66-2	Diethyl phthalate	80	U	210	80	47
105-67-9	2,4-Dimethylphenol	240	U	440	240	59
131-11-3	Dimethyl phthalate	80	U	210	80	50
84-74-2	Di-n-butyl phthalate	80	U M	210	80	44

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0020-0001-SO | Lab Sample ID: 240-22756-14

Matrix: Solid | Lab File ID: 30419011.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 12:45

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.19(g) | Date Analyzed: 04/19/2013 14:14

Con. Extract Vol.: 2(mL) | Dilution Factor: 2.5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	240	U	440	240	240
51-28-5	2,4-Dinitrophenol	240	U	970	240	240
121-14-2	2,4-Dinitrotoluene	80	U	590	80	80
606-20-2	2,6-Dinitrotoluene	80	U	590	80	62
117-84-0	Di-n-octyl phthalate	80	U	210	80	80
206-44-0	Fluoranthene	1000		20	9.7	9.7
86-73-7	Fluorene	200		20	9.7	9.7
118-74-1	Hexachlorobenzene	9.7	U	20	9.7	6.2
87-68-3	Hexachlorobutadiene	80	U	150	80	80
77-47-4	Hexachlorocyclopentadiene	80	U	970	80	80
67-72-1	Hexachloroethane	80	U	150	80	27
193-39-5	Indeno[1,2,3-cd]pyrene	80		20	9.7	9.7
78-59-1	Isophorone	80	U	150	80	38
91-57-6	2-Methylnaphthalene	9.7	U	20	9.7	9.7
95-48-7	2-Methylphenol	240	U	590	240	240
15831-10-4	3 & 4 Methylphenol	240	U	1200	240	59
91-20-3	Naphthalene	9.7	U	20	9.7	9.7
88-74-4	2-Nitroaniline	80	U	590	80	27
99-09-2	3-Nitroaniline	240	U	590	240	47
100-01-6	4-Nitroaniline	80	U	590	80	77
98-95-3	Nitrobenzene	9.7	U	290	9.7	6.5
88-75-5	2-Nitrophenol	80	U	150	80	80
100-02-7	4-Nitrophenol	240	U	970	240	240
621-64-7	N-Nitrosodi-n-propylamine	80	U	150	80	80
86-30-6	N-Nitrosodiphenylamine	80	U	150	80	62
87-86-5	Pentachlorophenol	240	U	440	240	240
85-01-8	Phenanthrene	160		20	9.7	9.7
108-95-2	Phenol	80	U	150	80	80
129-00-0	Pyrene	770		20	9.7	9.7
120-82-1	1,2,4-Trichlorobenzene	80	U	150	80	80
95-95-4	2,4,5-Trichlorophenol	80	U	440	80	74
88-06-2	2,4,6-Trichlorophenol	240	U	440	240	240

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0020-0001-SO | Lab Sample ID: 240-22756-14

Matrix: Solid | Lab File ID: 30419011.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 12:45

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.19(g) | Date Analyzed: 04/19/2013 14:14

Con. Extract Vol.: 2(mL) | Dilution Factor: 2.5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	67		45-105
367-12-4	2-Fluorophenol (Surr)	71		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	64		35-100
4165-62-2	Phenol-d5 (Surr)	72		40-100
1718-51-0	Terphenyl-d14 (Surr)	61		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	63		35-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419011.D
Lims ID: 240-22756-B-14-A
Client ID: 074SB-0020-0001-SO
Inject. Date: 19-Apr-2013 14:14:30
Dil. Factor: 2.5000
Sample Type: Client
Sample ID: 240-0019044-011
Misc. Info.: 240-22756-B-14-A
Operator: 001710
Instrument ID: A4HP10
Injection Vol: 1.0 ul
ALS Bottle#: 11
Lims Batch ID: 82653
Lims Sample ID: 11
Detector: MS SCAN

Method: \\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m
Last Update: 22-Apr-2013 13:55:06
Calib Date: 12-Apr-2013 00:58:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: 5% phenyl
Column Dia: 0.18 mm
Process Host: XAWRK022

First Level Reviewer: gruberj
Date: 22-Apr-2013 09:42:50

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.848	5.848	0.0	97	132876	4.00	
* 2 Naphthalene-d8	136	6.971	6.970	0.001	99	529842	4.00	
* 3 Acenaphthene-d10	164	8.475	8.475	0.0	89	325338	4.00	
* 4 Phenanthrene-d10	188	9.738	9.738	0.0	96	551485	4.00	
* 5 Chrysene-d12	240	12.288	12.294	-0.006	81	585177	4.00	
* 6 Perylene-d12	264	14.368	14.368	0.0	86	490806	4.00	
$ 7 2-Fluorophenol	112	4.579	4.573	0.006	92	164852	4.29	
$ 8 Phenol-d5	99	5.490	5.490	0.0	90	222408	4.34	
$ 9 Nitrobenzene-d5	82	6.336	6.336	0.0	80	127452	2.57	
$ 10 2-Fluorobiphenyl (Surr)	172	7.887	7.887	0.0	92	279925	2.67	
$ 11 2,4,6-Tribromophenol	330	9.139	9.144	-0.005	74	45021	3.78	
$ 12 Terphenyl-d14	244	11.101	11.101	0.0	98	282731	2.46	
43 Phenol	94		5.502					
45 Bis(2-chloroethyl)ether	93		5.601					9
47 2-Chlorophenol	128		5.648					
48 1,3-Dichlorobenzene	146		5.795					
49 1,4-Dichlorobenzene	146		5.866					
50 Benzyl alcohol	108		5.960					9
51 1,2-Dichlorobenzene	146		6.001					
52 2-Methylphenol	108		6.054					9
54 2,2'-oxybis[1-chloropropane]	45		6.083					
56 3 & 4 Methylphenol	108		6.183					
57 N-Nitrosodi-n-propylamine	70		6.195					
61 Hexachloroethane	117		6.307					9
62 Nitrobenzene	77		6.354					
64 Isophorone	82		6.559					
66 2-Nitrophenol	139		6.636					
65 2,4-Dimethylphenol	107		6.653					
70 Benzoic acid	122		6.712					
69 Bis(2-chloroethoxy)methane	93		6.741					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
72 2,4-Dichlorophenol	162		6.835					9
73 1,2,4-Trichlorobenzene	180		6.918					
74 Naphthalene	128		6.988					
75 4-Chloroaniline	127		7.023					
78 Hexachlorobutadiene	225		7.088					
85 4-Chloro-3-methylphenol	107		7.423					
87 2-Methylnaphthalene	142		7.582					
89 Hexachlorocyclopentadiene	237		7.711					
93 2,4,6-Trichlorophenol	196		7.811					
94 2,4,5-Trichlorophenol	196		7.846					
100 2-Chloronaphthalene	162		7.999					
102 2-Nitroaniline	65		8.075					9
105 Dimethyl phthalate	163		8.216					
107 2,6-Dinitrotoluene	165		8.275					
109 Acenaphthylene	152	8.351	8.357	-0.006	52	17788	0.1396	
110 3-Nitroaniline	138		8.422					
112 Acenaphthene	153	8.504	8.504	0.0	81	51665	0.5833	
111 2,4-Dinitrophenol	184		8.510					
113 4-Nitrophenol	109		8.539					
114 2,4-Dinitrotoluene	165		8.616					
116 Dibenzofuran	168	8.645	8.645	0.0	73	69761	0.5844	
121 Diethyl phthalate	149		8.815					
123 4-Chlorophenyl phenyl ether	204		8.927					
126 Fluorene	166	8.939	8.939	0.0	84	100019	1.03	
125 4-Nitroaniline	138		8.939					
128 4,6-Dinitro-2-methylphenol	198		8.962					
129 N-Nitrosodiphenylamine	169		9.027					
139 4-Bromophenyl phenyl ether	248		9.344					9
141 Hexachlorobenzene	284		9.403					
144 Pentachlorophenol	266		9.567					
149 Phenanthrene	178	9.762	9.761	0.001	82	103042	0.8058	
150 Anthracene	178	9.803	9.803	0.001	87	179512	1.41	
152 Carbazole	167	9.926	9.932	-0.006	53	12552	0.1071	
155 Di-n-butyl phthalate	149	10.191	10.196	-0.005	50	28987	0.2022	M
160 Fluoranthene	202	10.778	10.772	0.006	97	766050	5.08	
162 Pyrene	202	10.978	10.984	-0.006	95	595319	3.94	
170 Butyl benzyl phthalate	149		11.583					9
177 3,3'-Dichlorobenzidine	252		12.229					9
175 Bis(2-ethylhexyl) phthalate	149	12.259	12.258	0.001	81	42127	0.5200	
179 Benzo[a]anthracene	228	12.276	12.282	-0.006	97	204231	1.40	
180 Chrysene	228	12.323	12.329	-0.006	85	201133	1.51	
182 Di-n-octyl phthalate	149		13.175					
184 Benzo[b]fluoranthene	252	13.786	13.786	0.0	88	179609	1.36	M
185 Benzo[k]fluoranthene	252	13.822	13.827	-0.005	77	56594	0.3950	M
186 Benzo[a]pyrene	252	14.280	14.286	-0.006	72	128639	1.05	
190 Indeno[1,2,3-cd]pyrene	276	16.025	16.031	-0.006	89	54296	0.4047	
191 Dibenz(a,h)anthracene	278		16.066					
192 Benzo[g,h,i]perylene	276	16.472	16.477	-0.005	68	52885	0.4619	

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

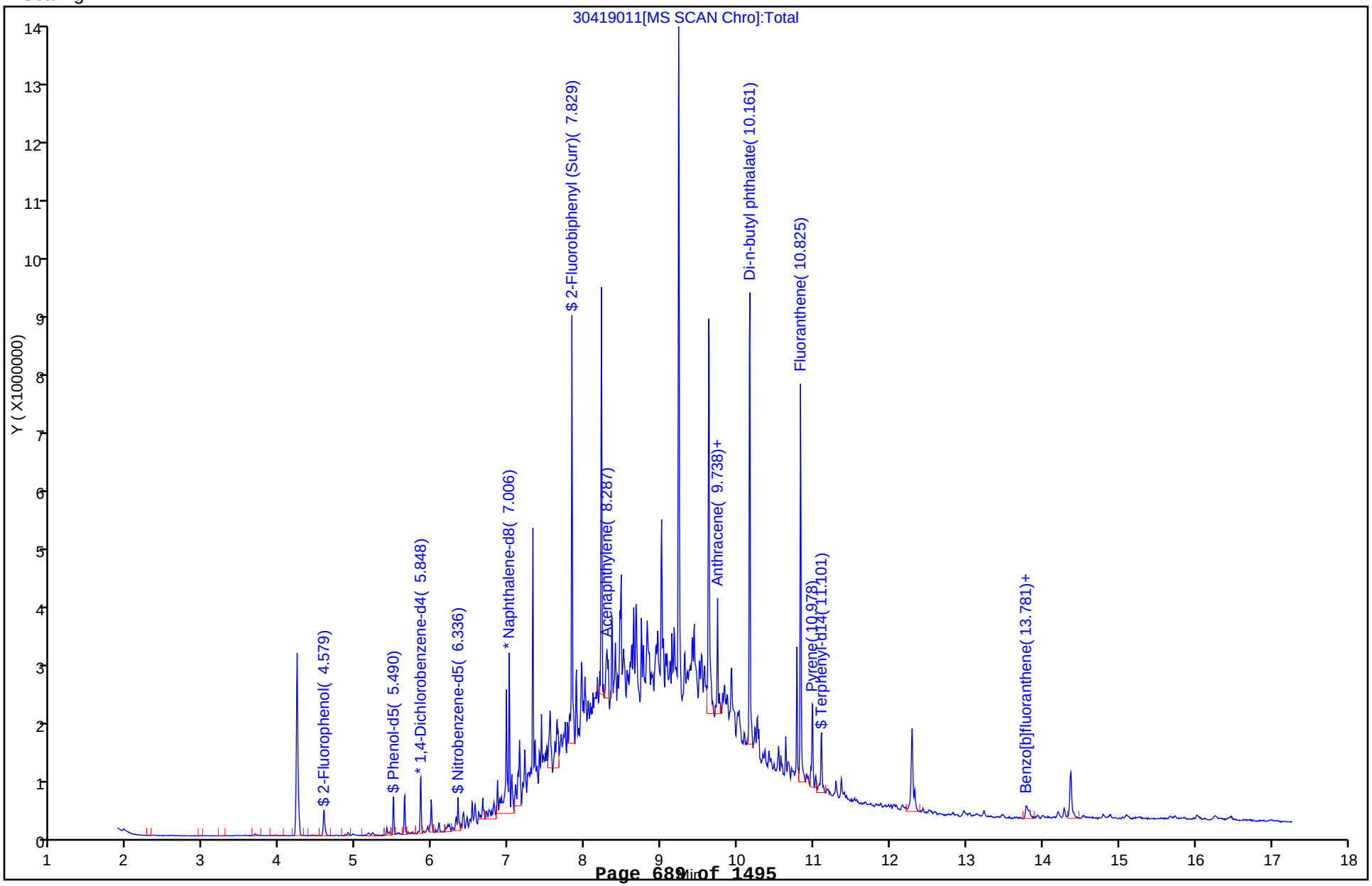
Report Date: 22-Apr-2013 13:55:17 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419011.D

Injection Date:	19-Apr-2013 14:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0020-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



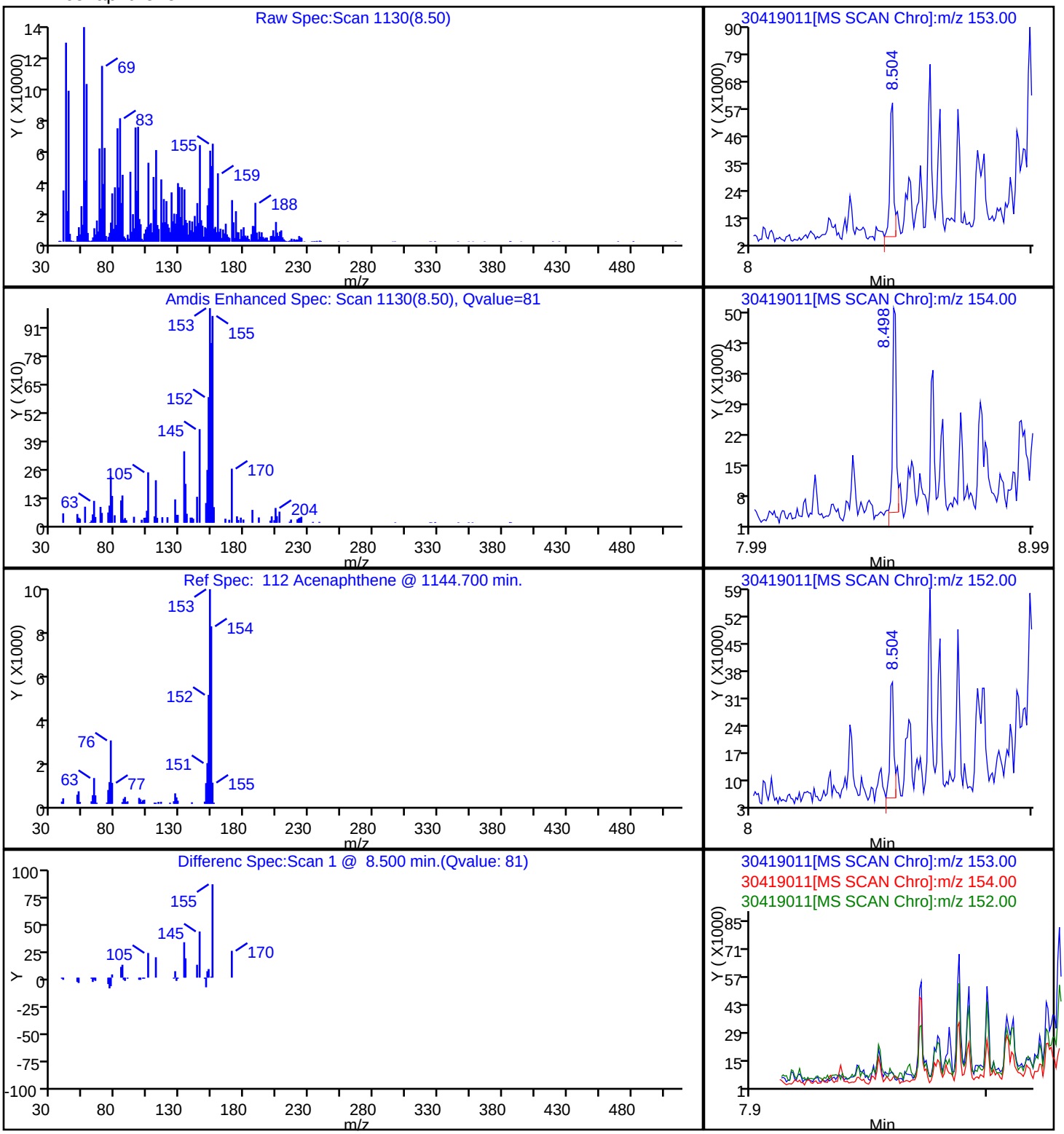
Report Date: 22-Apr-2013 13:55:17 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419011.D

Injection Date:	19-Apr-2013 14:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0020-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

112 Acenaphthene



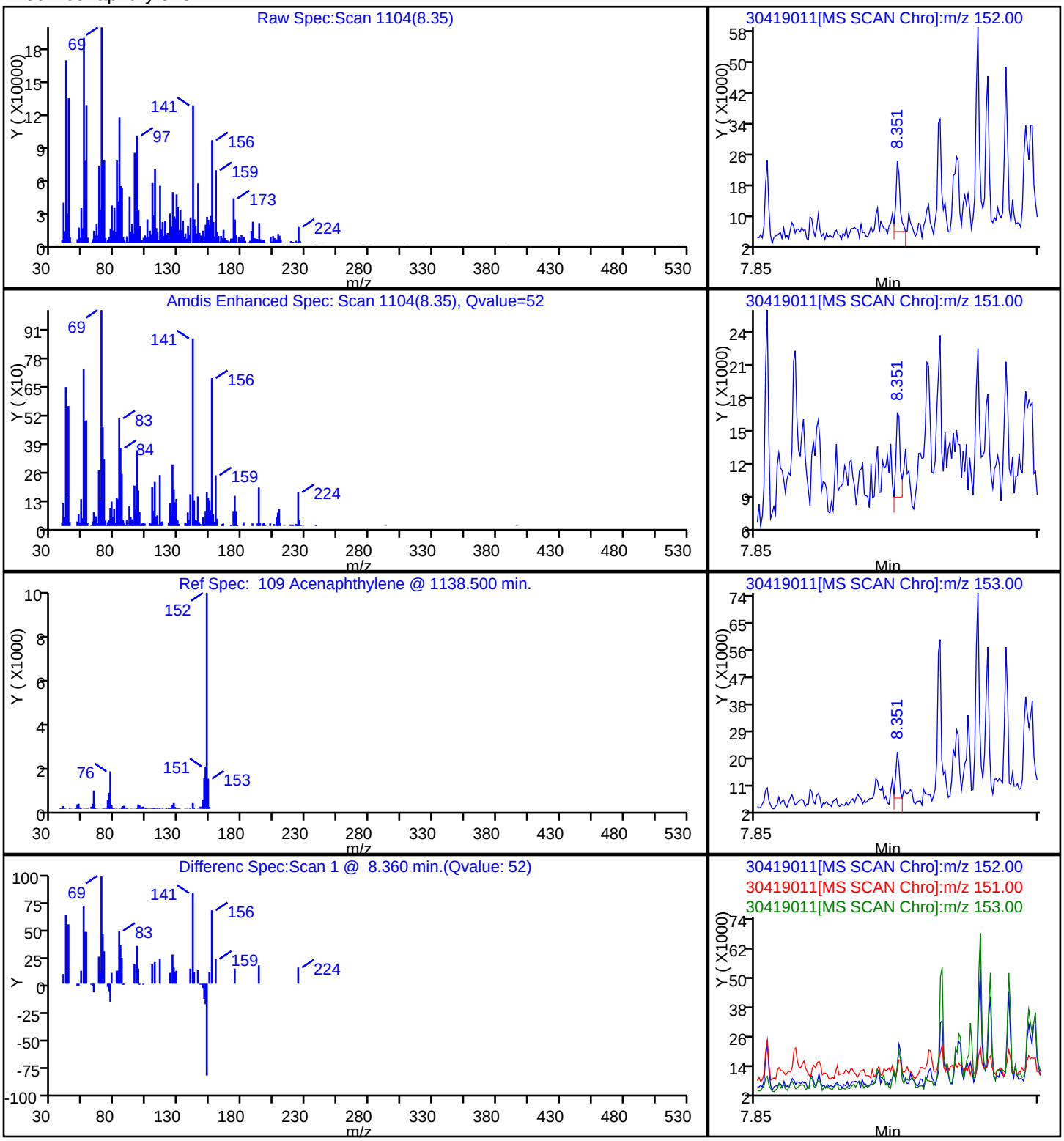
Report Date: 22-Apr-2013 13:55:17 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419011.D

Injection Date:	19-Apr-2013 14:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0020-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

109 Acenaphthylene



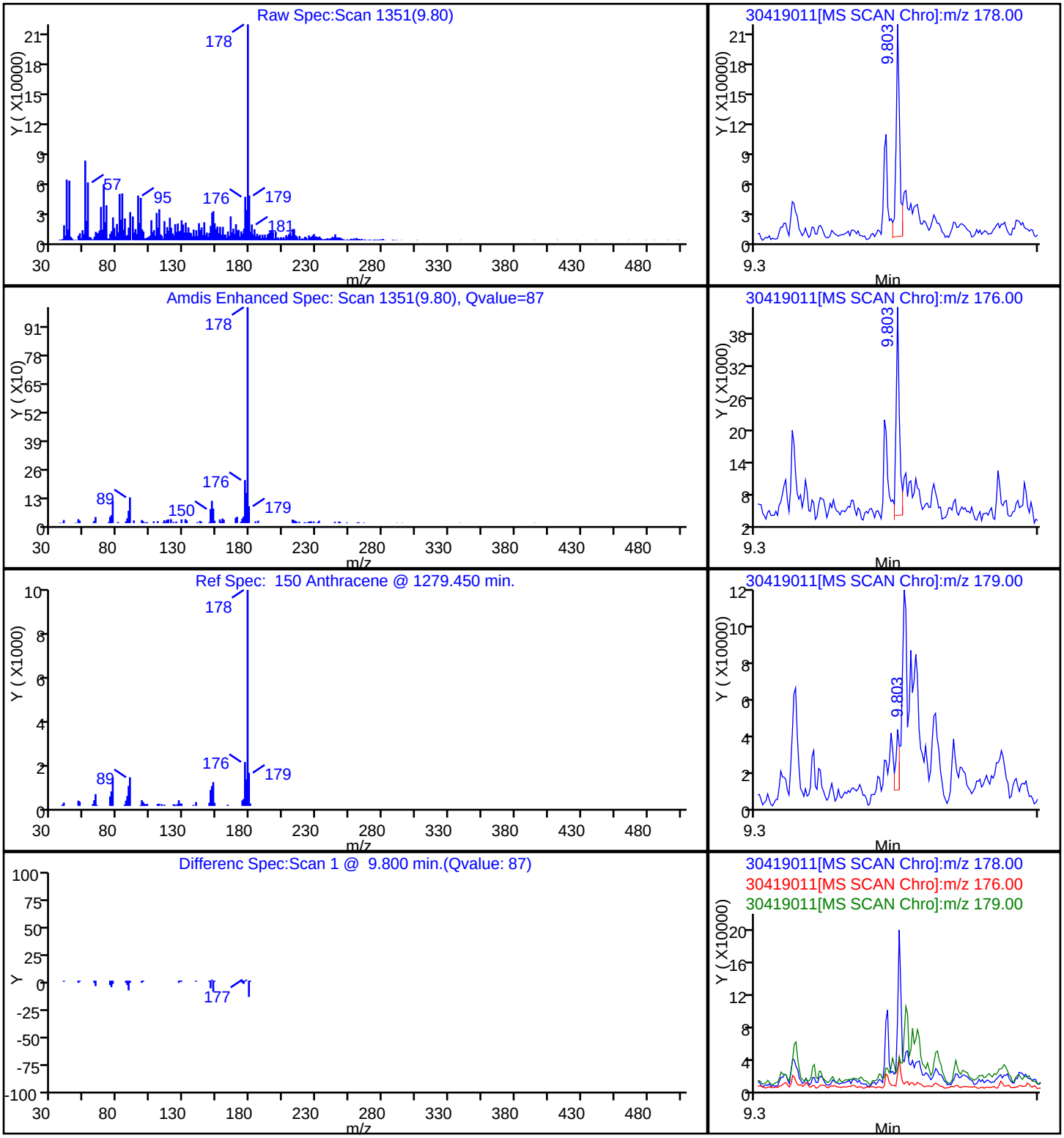
Report Date: 22-Apr-2013 13:55:17 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419011.D

Injection Date:	19-Apr-2013 14:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0020-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

150 Anthracene



Report Date: 22-Apr-2013 13:55:17 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

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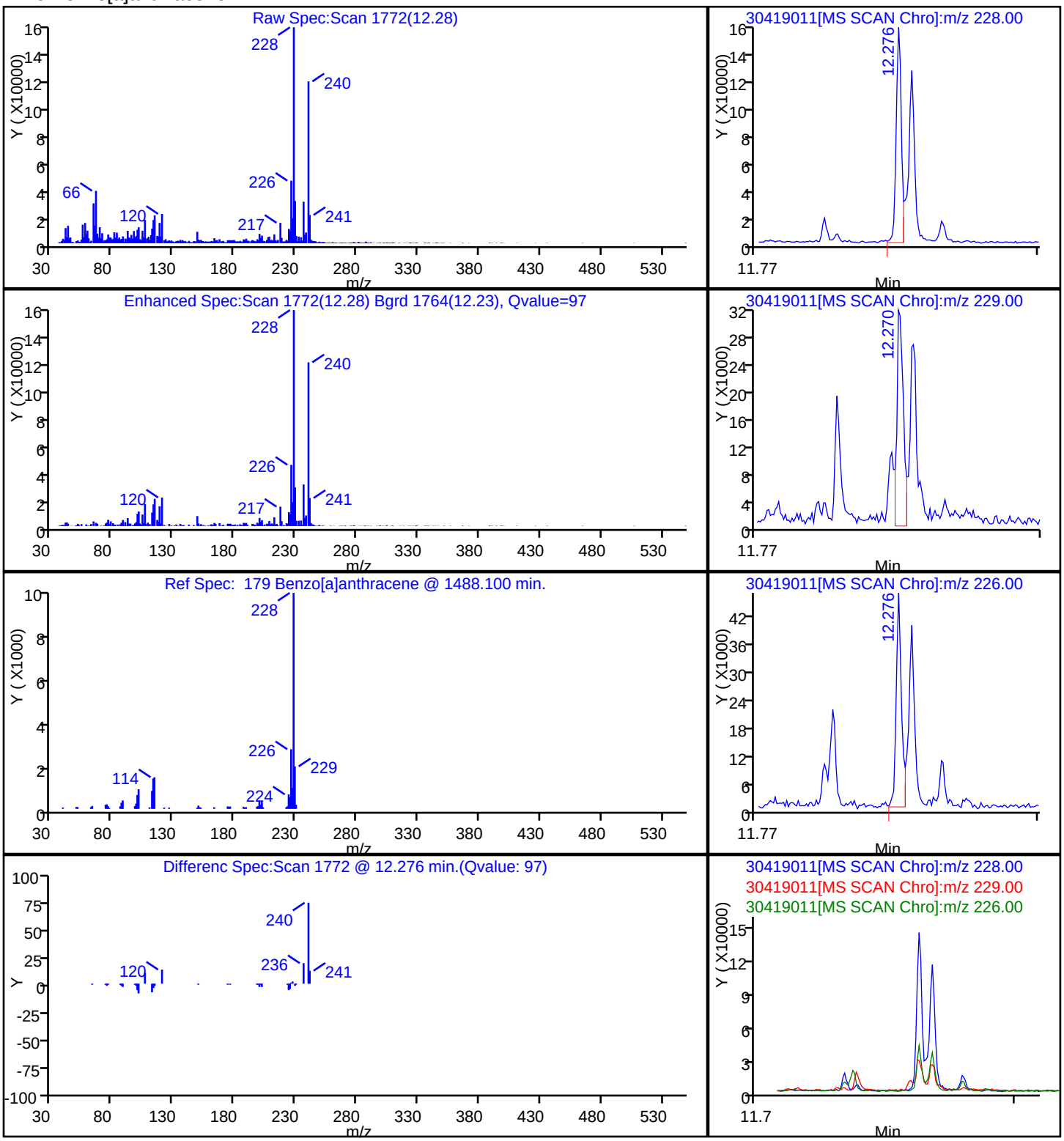
Injection Date:	19-Apr-2013 14:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0020-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

179 Benzo[a]anthracene



Report Date: 22-Apr-2013 13:55:18 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

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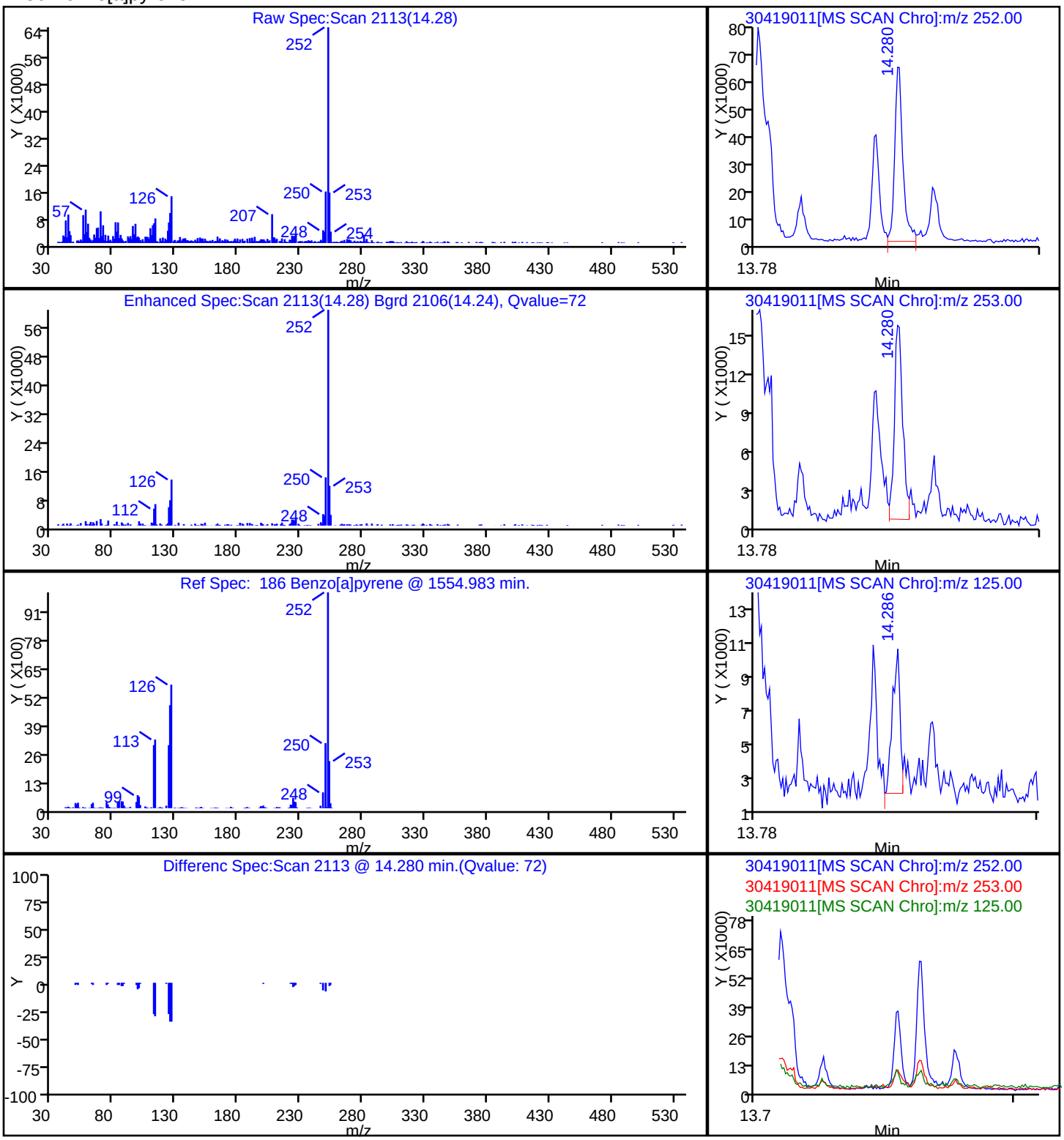
Injection Date:	19-Apr-2013 14:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0020-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

186 Benzo[a]pyrene



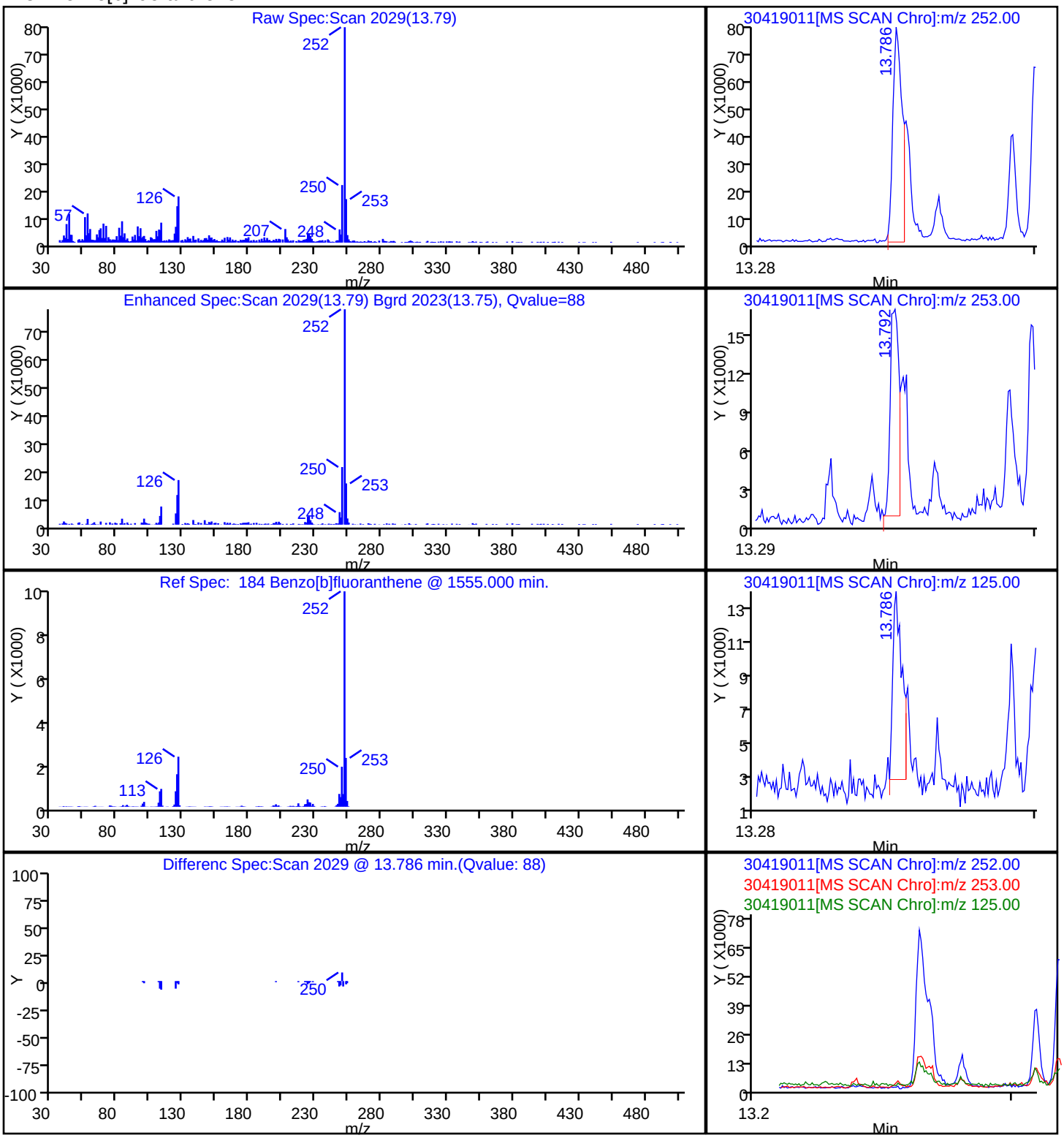
Report Date: 22-Apr-2013 13:55:18 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419011.D

Injection Date:	19-Apr-2013 14:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0020-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

184 Benzo[b]fluoranthene

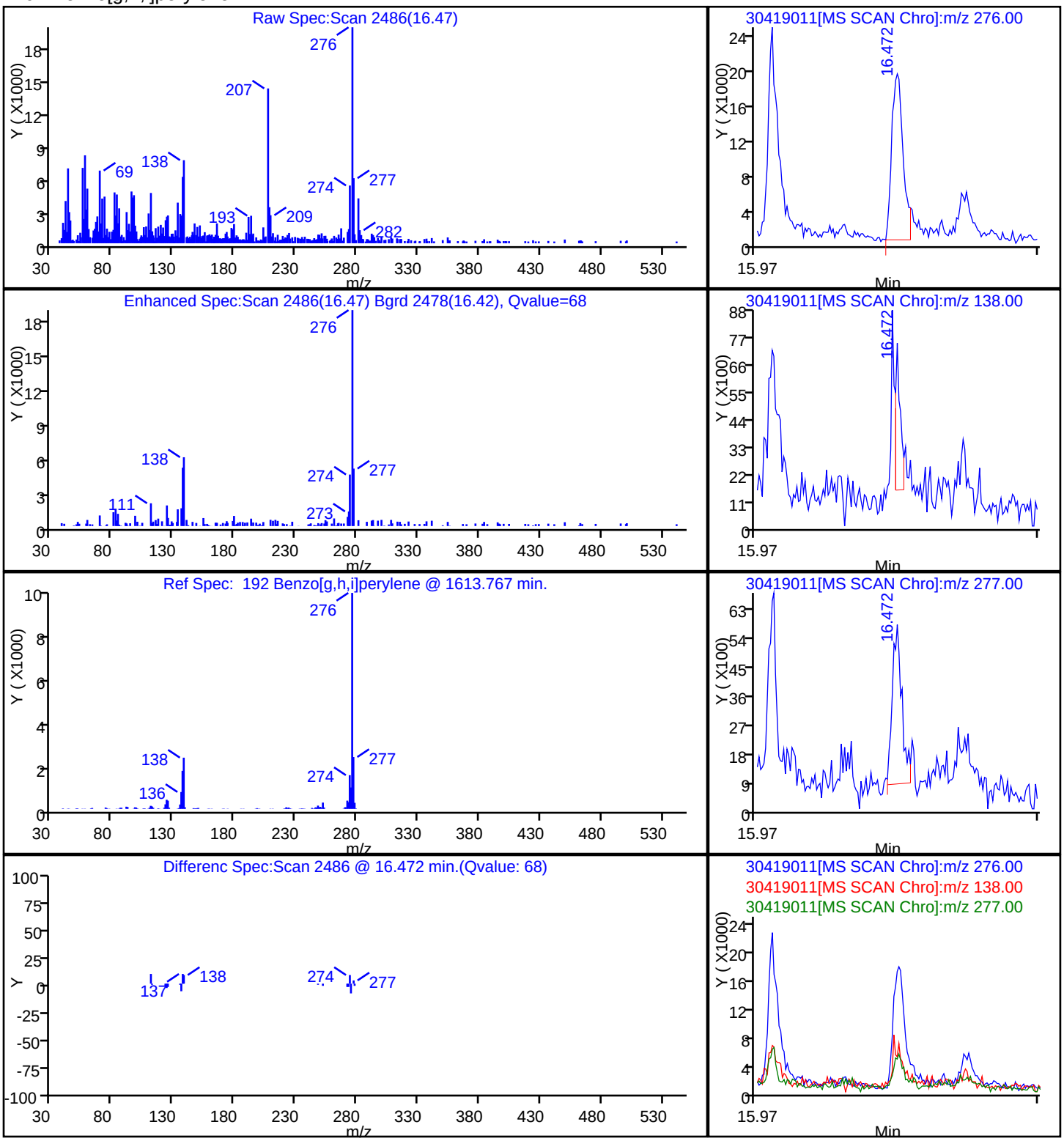


Report Date: 22-Apr-2013 13:55:18 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419011.D		
Injection Date:	19-Apr-2013 14:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0020-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

192 Benzo[g,h,i]perylene



Report Date: 22-Apr-2013 13:55:18 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

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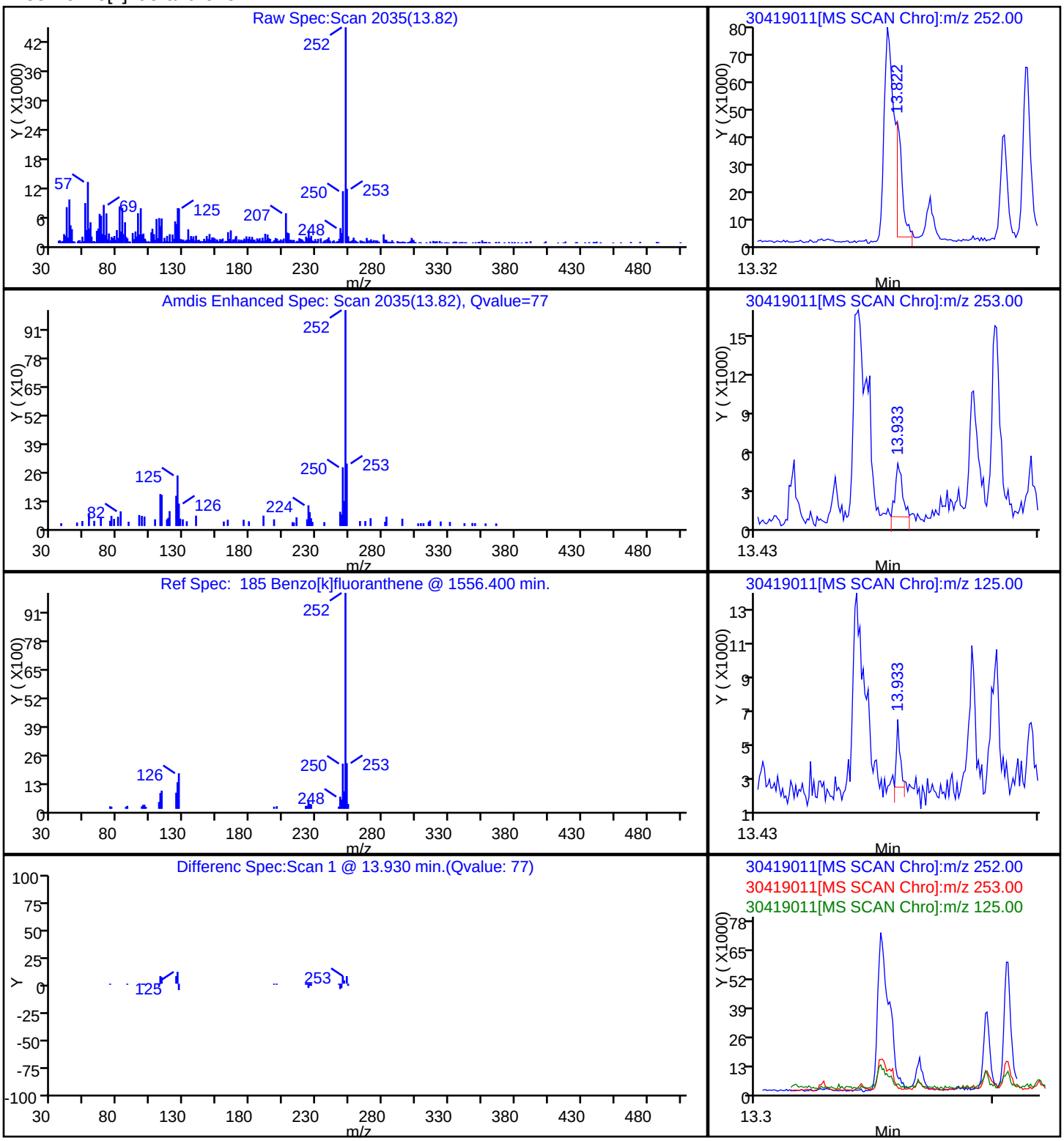
Injection Date:	19-Apr-2013 14:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0020-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

185 Benzo[k]fluoranthene



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TestAmerica Canton

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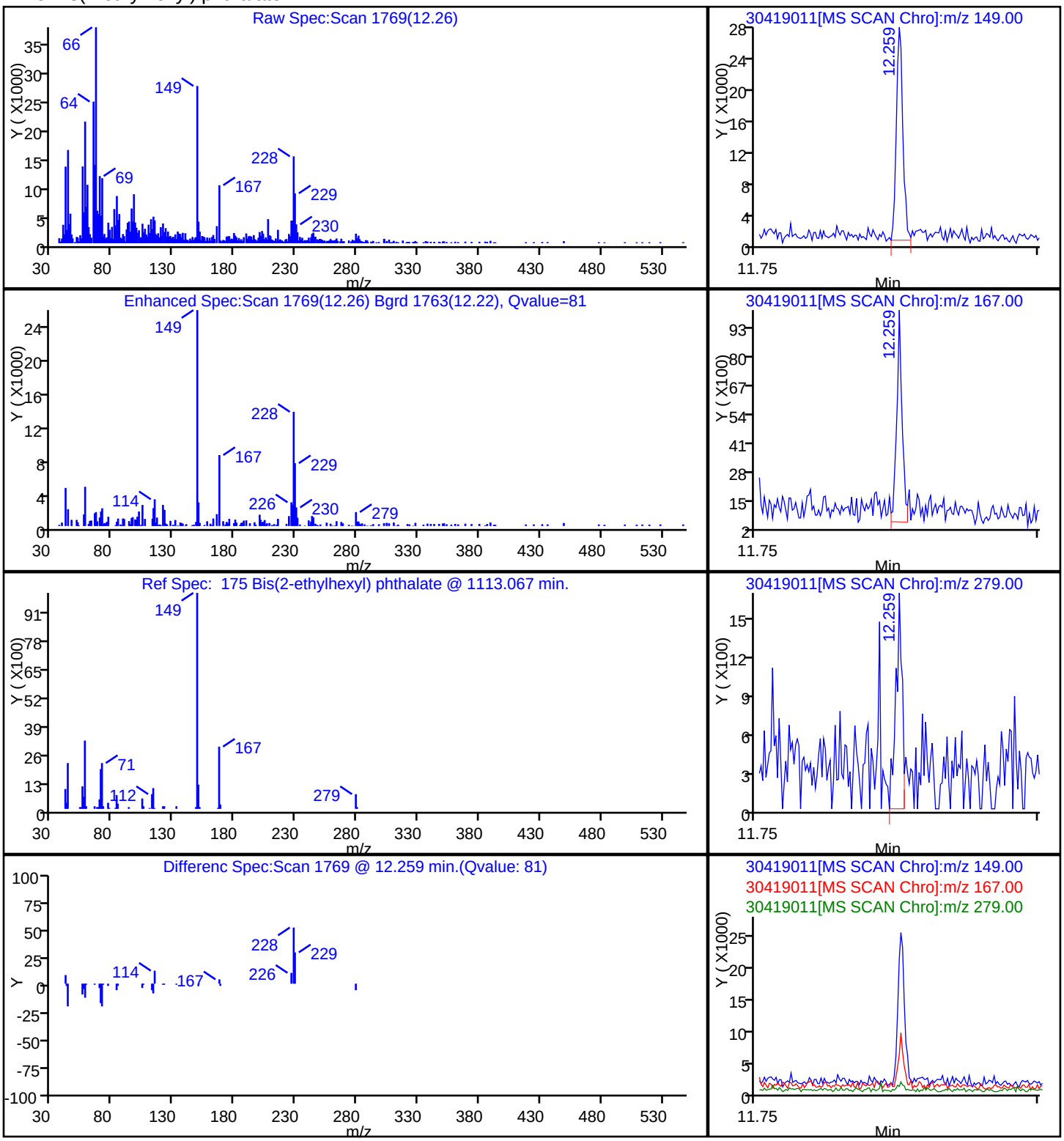
Injection Date:	19-Apr-2013 14:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0020-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

175 Bis(2-ethylhexyl) phthalate



Report Date: 22-Apr-2013 13:55:18 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419011.D

Injection Date:	19-Apr-2013 14:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0020-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
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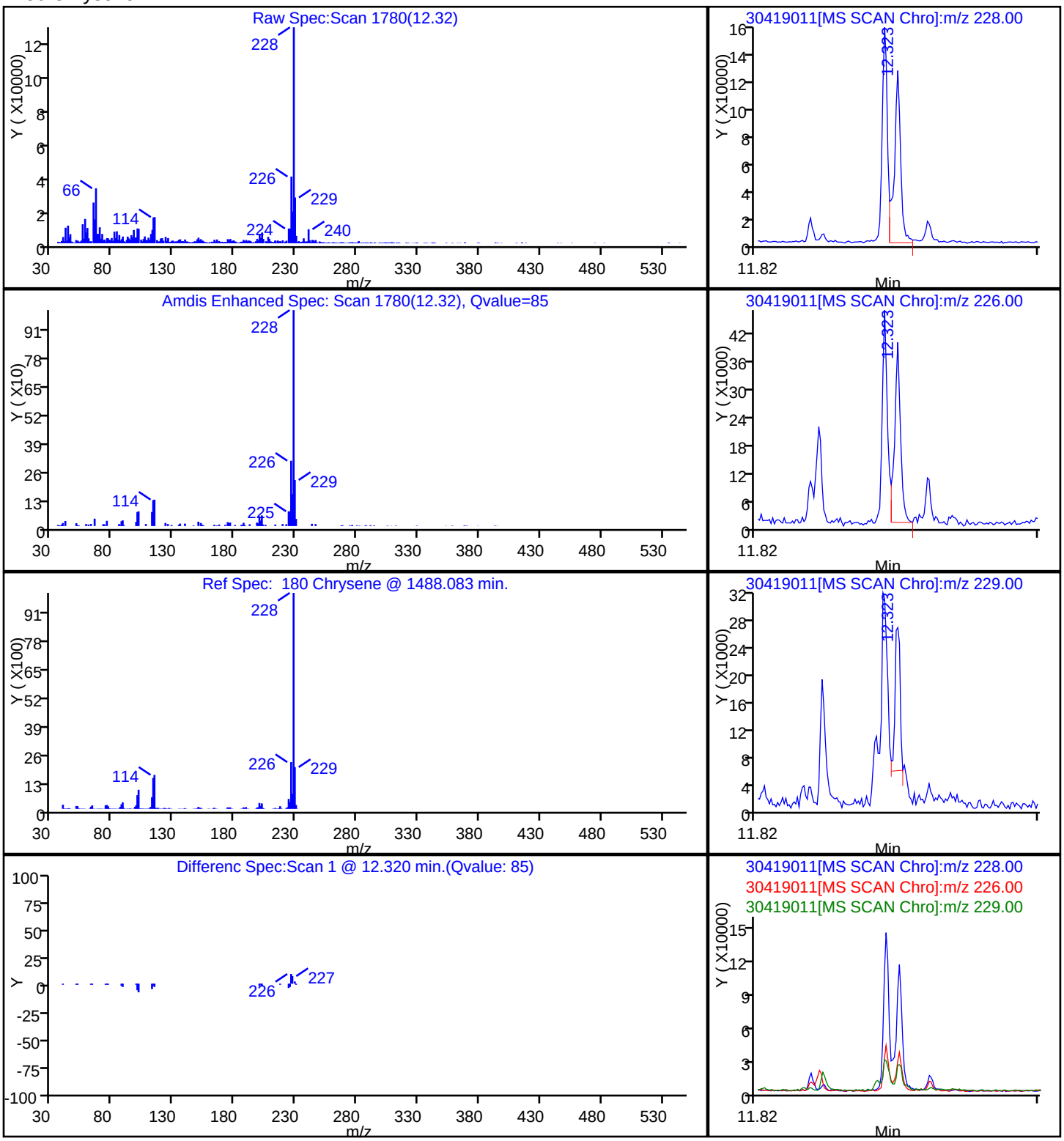
180 Chrysene



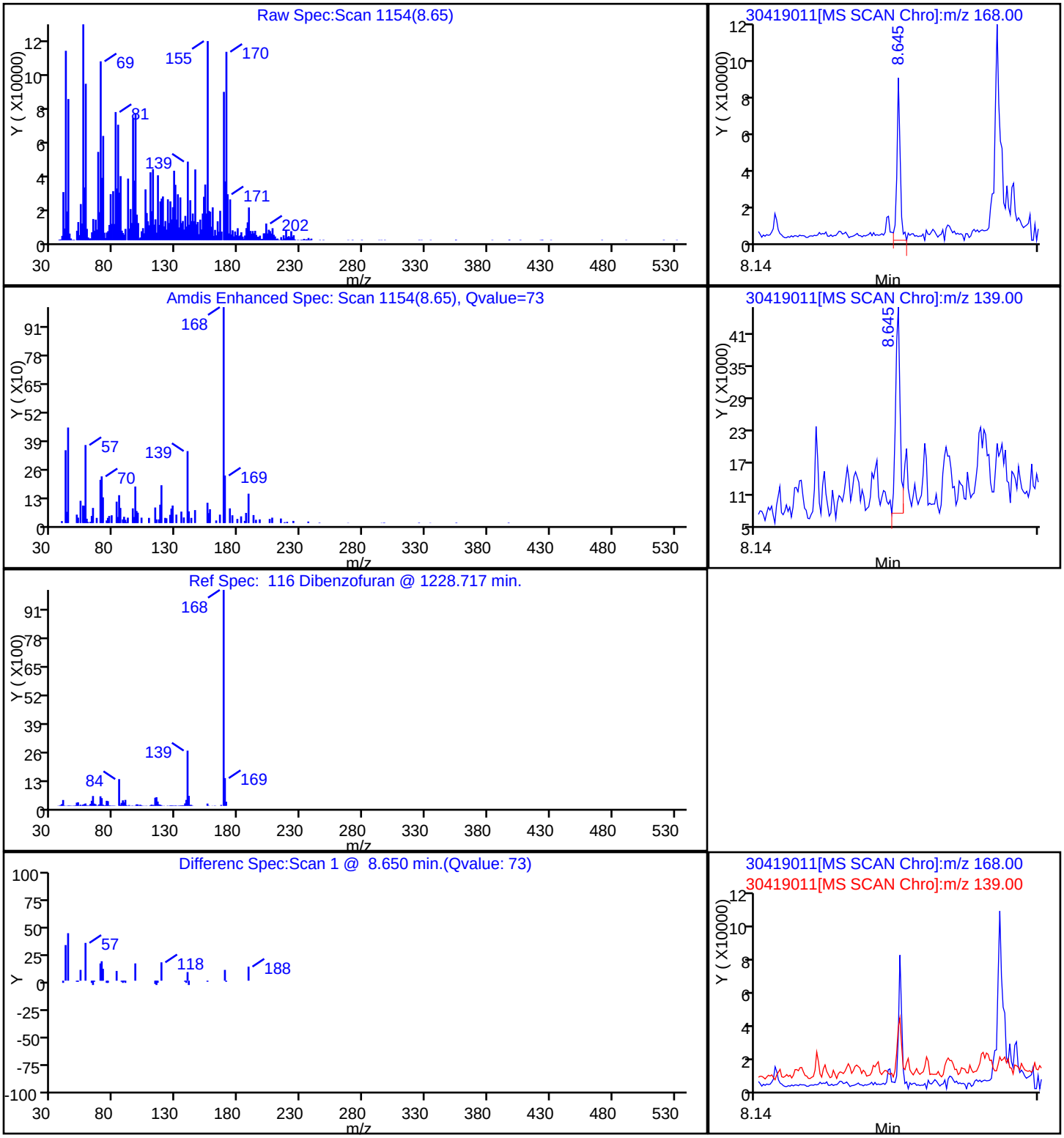
Report Date: 22-Apr-2013 13:55:17 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419011.D

Injection Date:	19-Apr-2013 14:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0020-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

116 Dibenzofuran



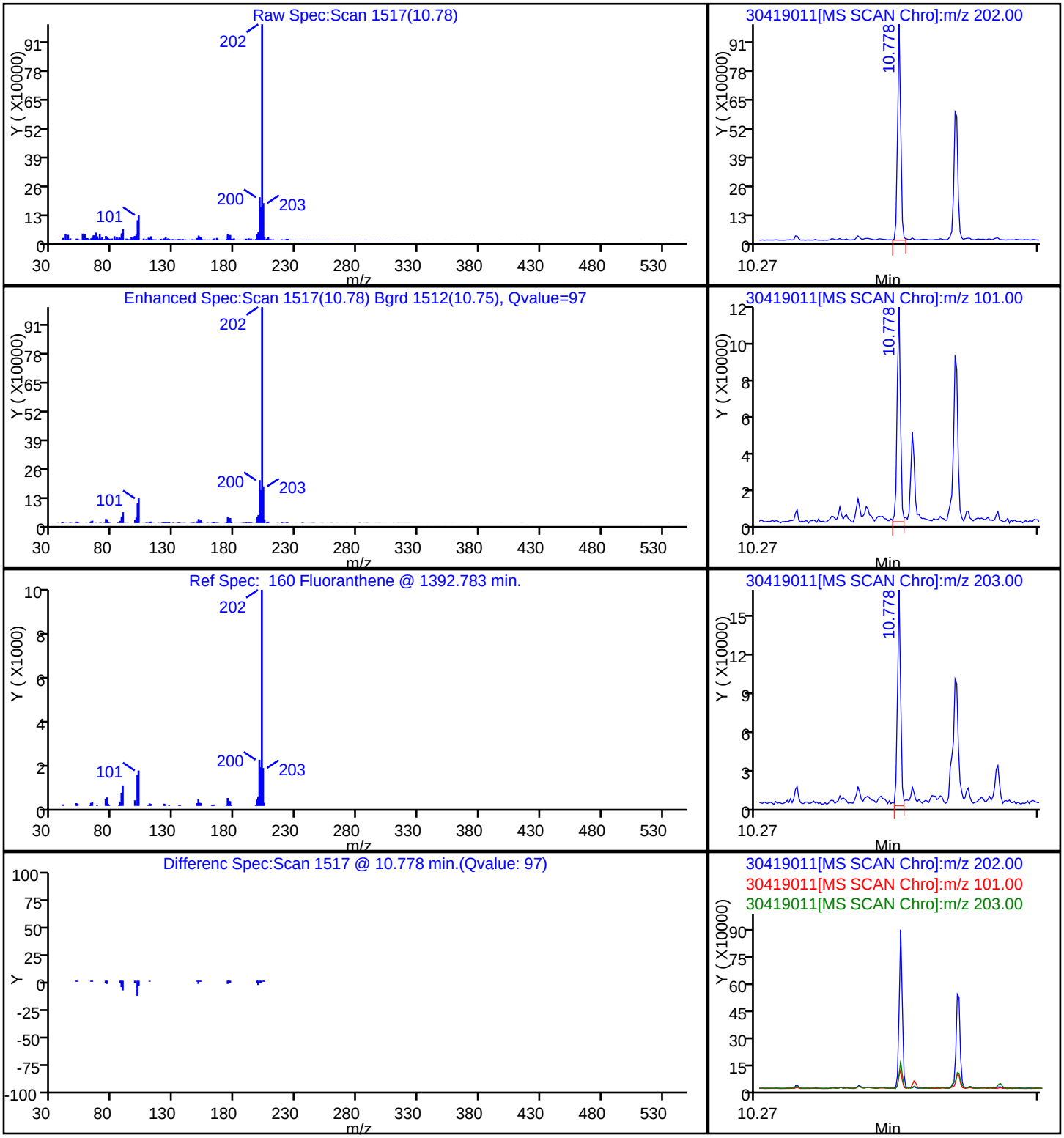
Report Date: 22-Apr-2013 13:55:17 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419011.D

Injection Date:	19-Apr-2013 14:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0020-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

160 Fluoranthene



Report Date: 22-Apr-2013 13:55:17 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

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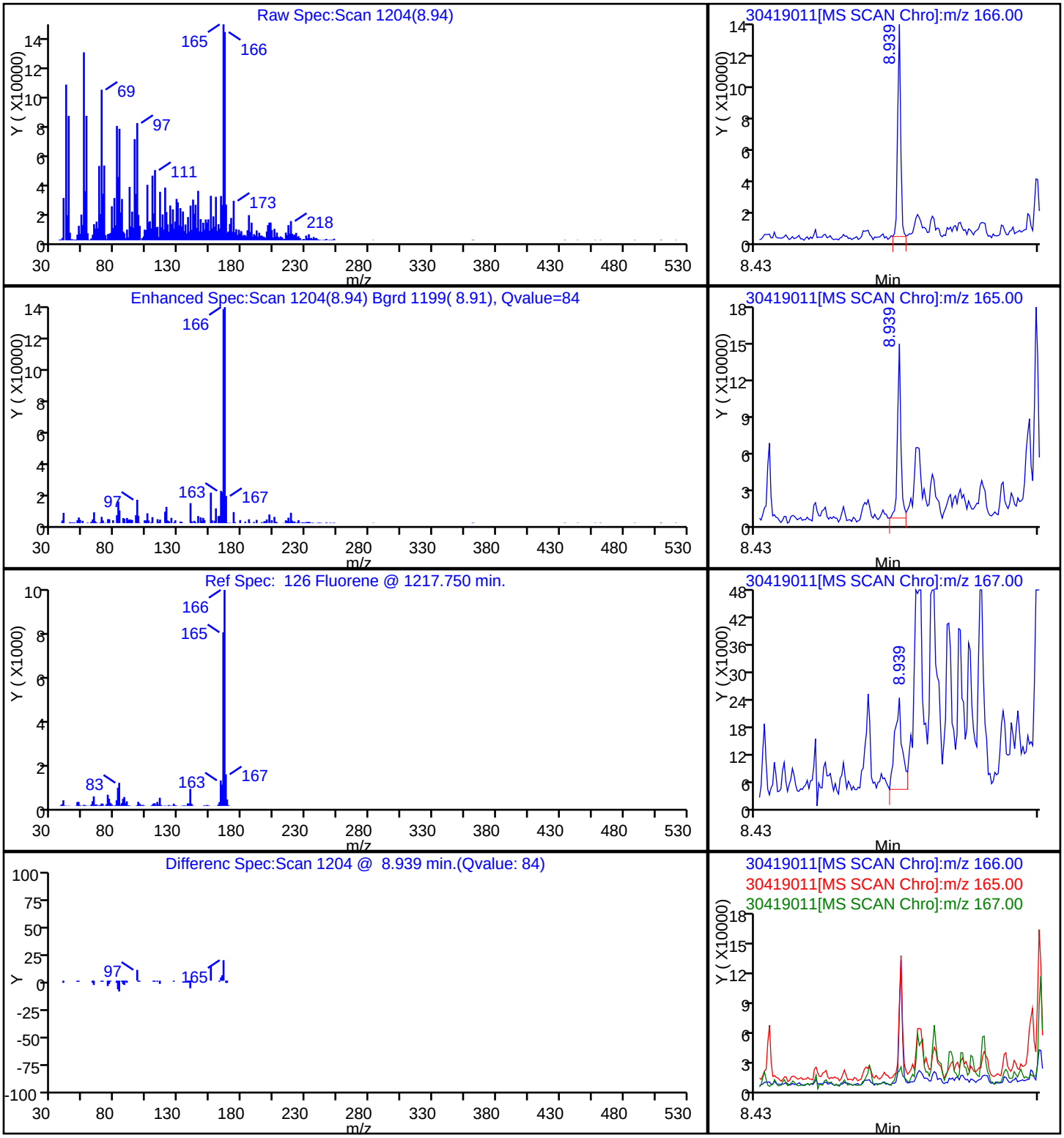
Injection Date:	19-Apr-2013 14:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0020-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

126 Fluorene



Report Date: 22-Apr-2013 13:55:18 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

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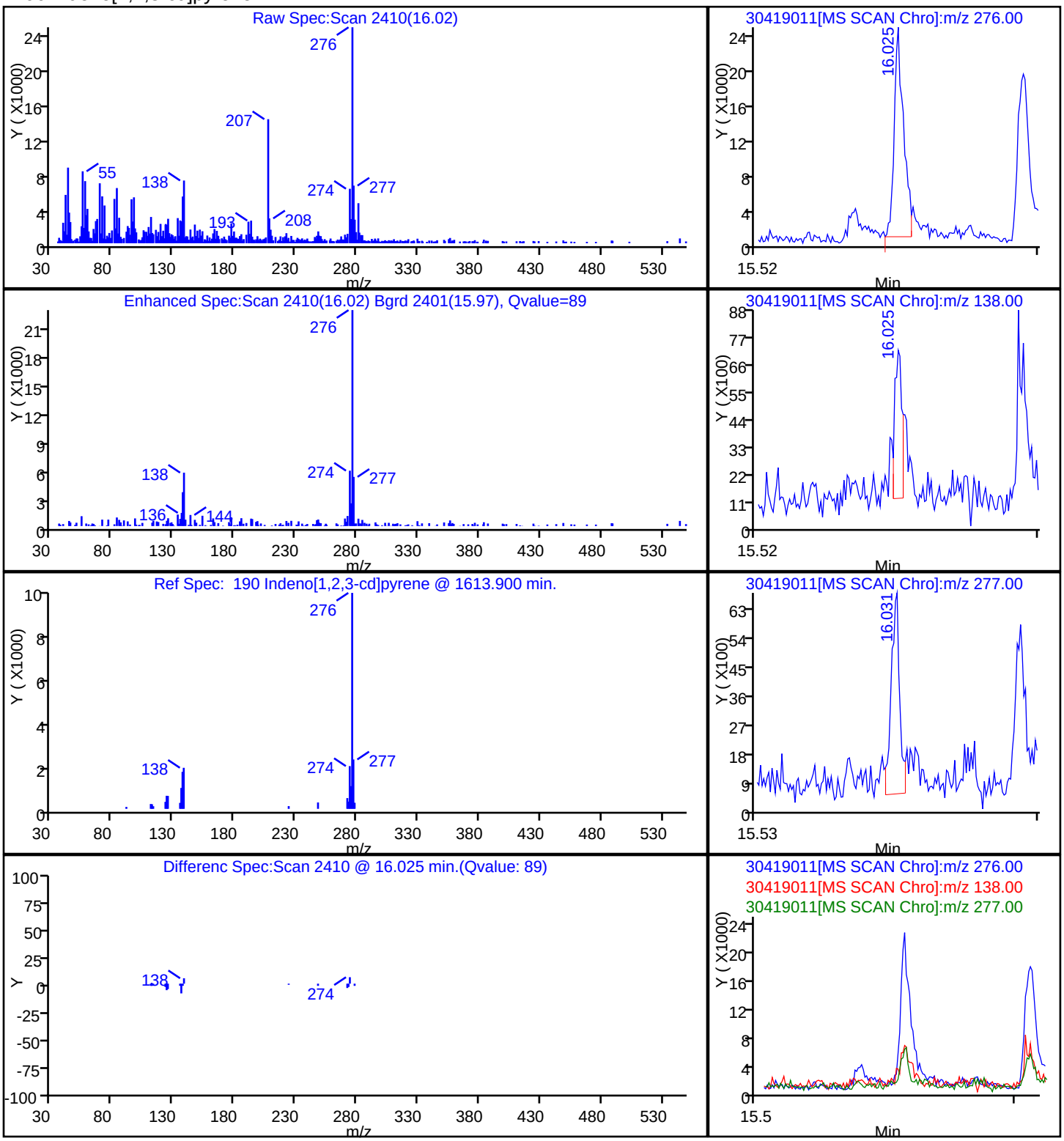
Injection Date:	19-Apr-2013 14:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0020-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

190 Indeno[1,2,3-cd]pyrene



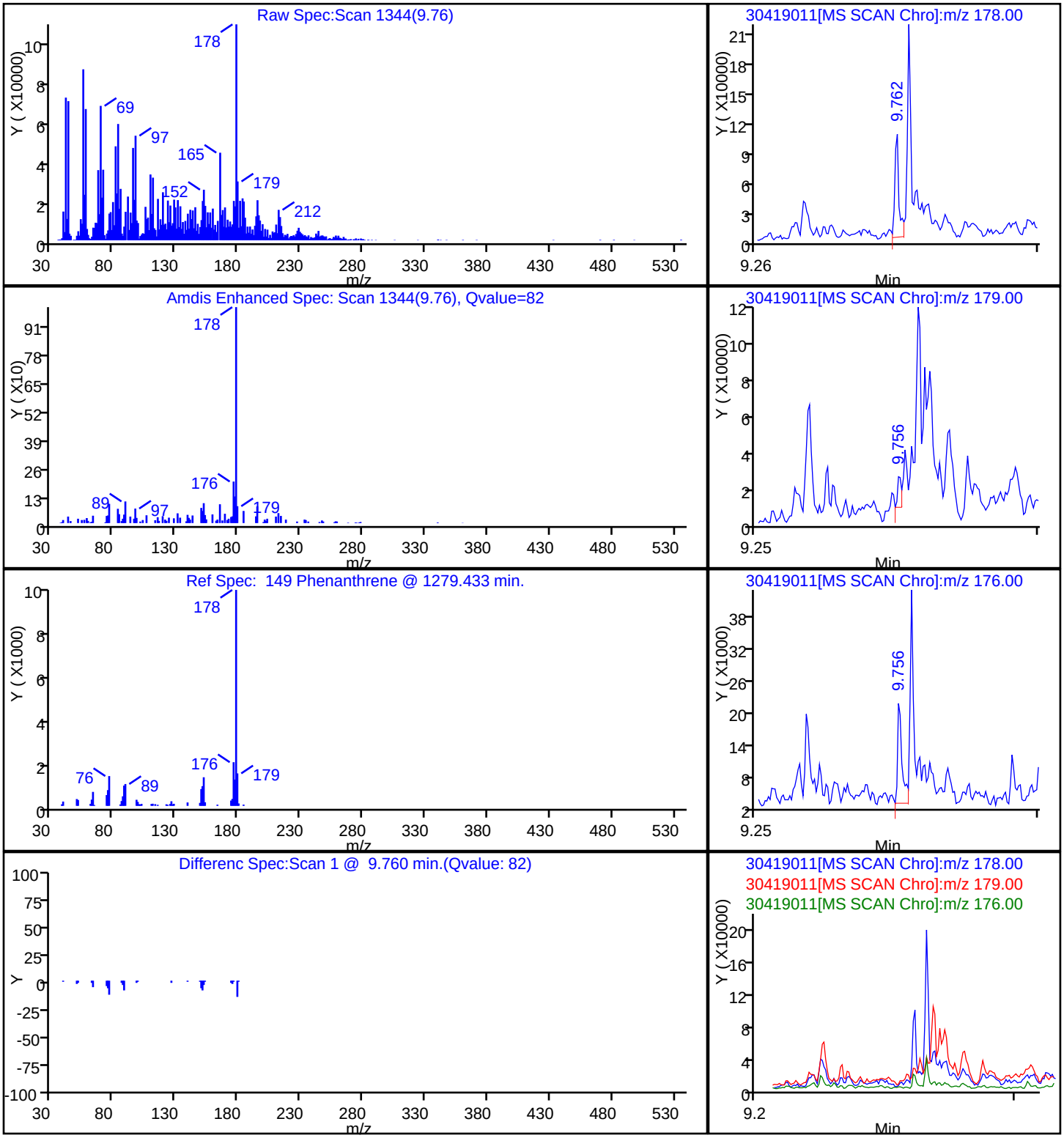
Report Date: 22-Apr-2013 13:55:17 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419011.D

Injection Date:	19-Apr-2013 14:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0020-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

149 Phenanthrene



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TestAmerica Canton

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Injection Date:	19-Apr-2013 14:14:30	Limit Group:	MSS 8270 DOD ICAL
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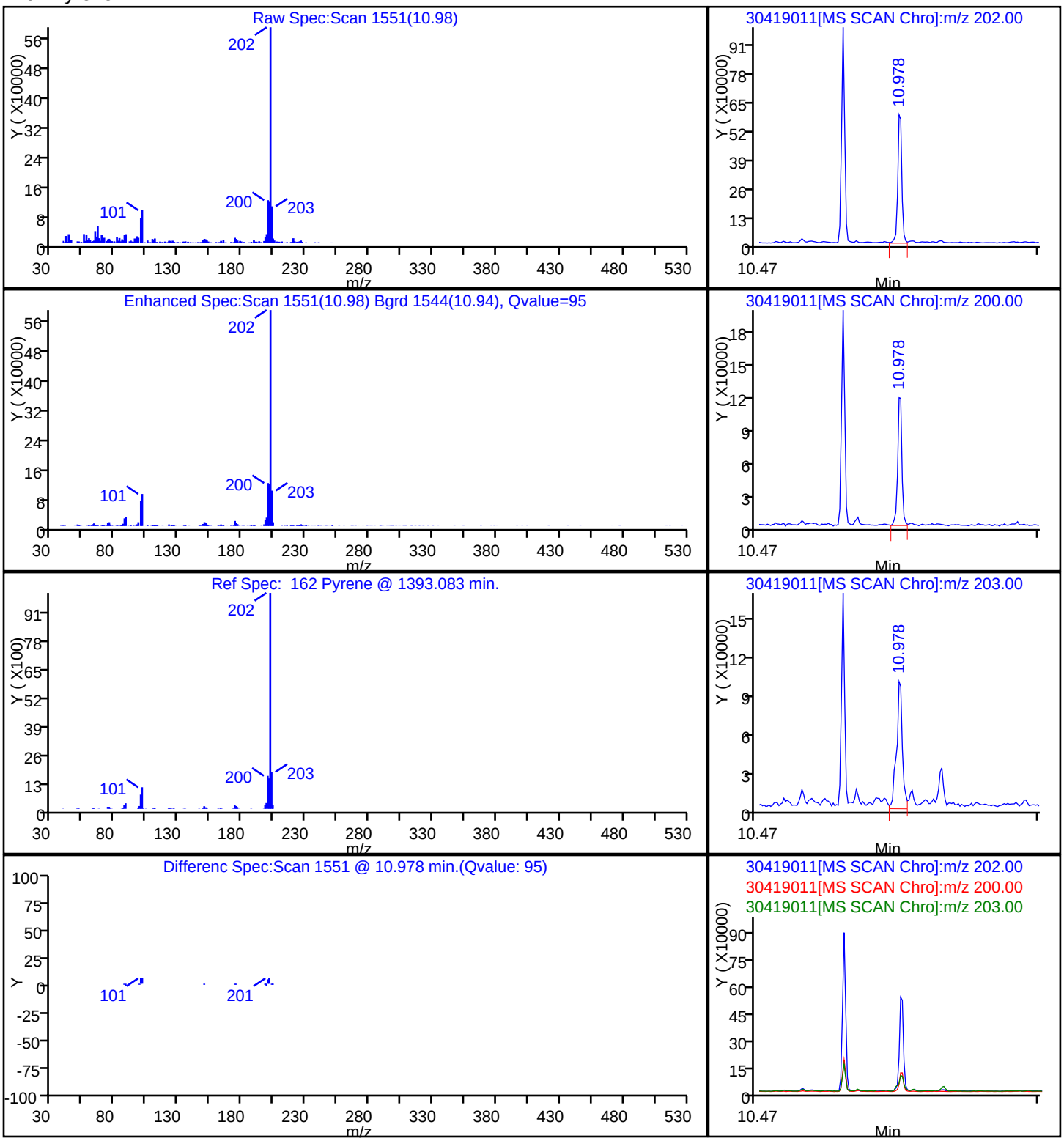
Lims Batch ID:	82653	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

162 Pyrene



Manual Integration/User Assign Peak Report

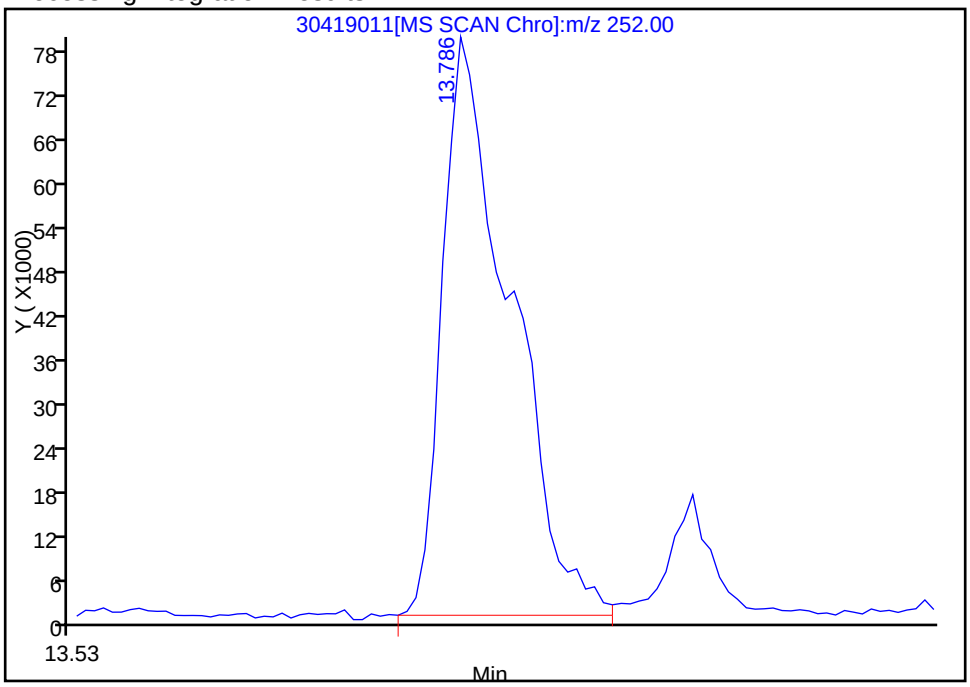
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419011.D		
Injection Date:	19-Apr-2013 14:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0020-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

184 Benzo[b]fluoranthene, Signal: 1, m/z: 252.0 Type: quant, RT: 13.79

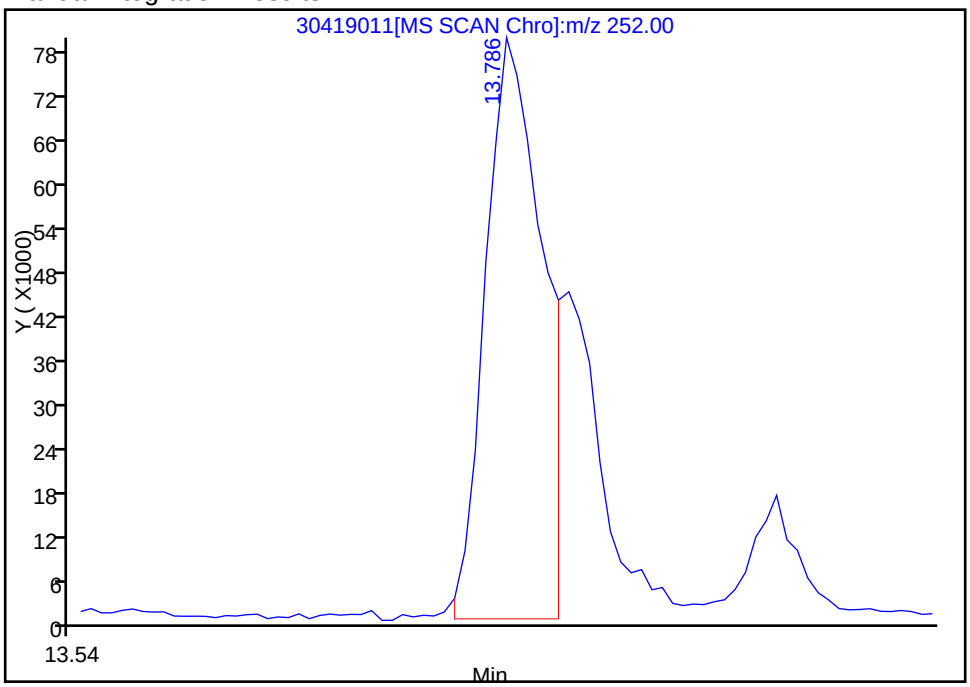
Processing Integration Results

RT: 13.79
Response: 242002
Amount: 1.837186



Manual Integration Results

RT: 13.79
Response: 179609
Amount: 1.363523



Reviewer: gruberj, 22-Apr-2013 11:09:33
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

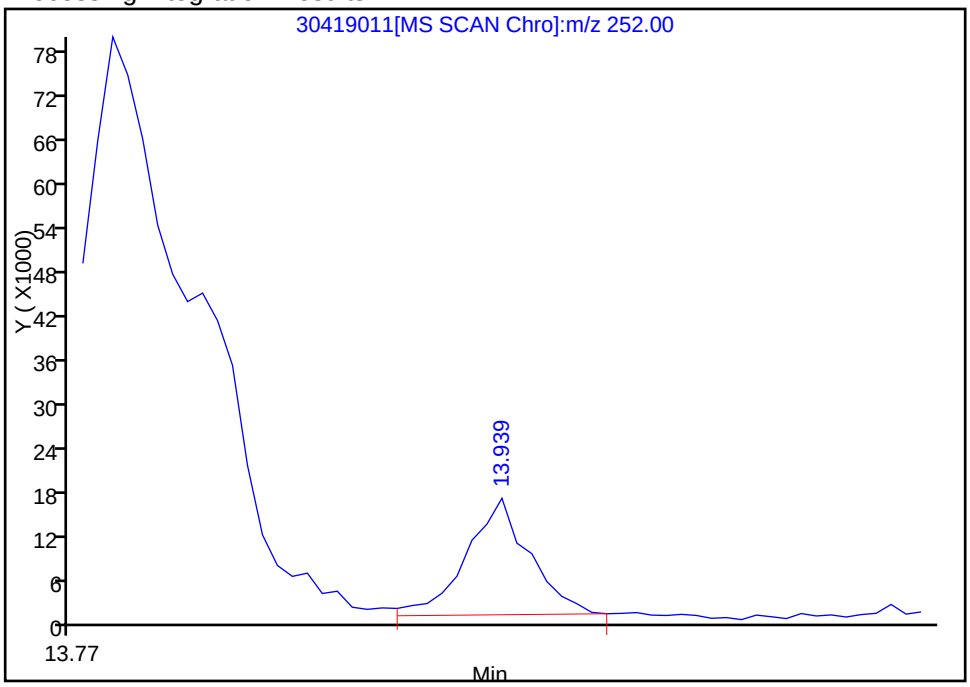
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419011.D		
Injection Date:	19-Apr-2013 14:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0020-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

185 Benzo[k]fluoranthene, Signal: 1, m/z: 252.0 Type: quant, RT: 13.83

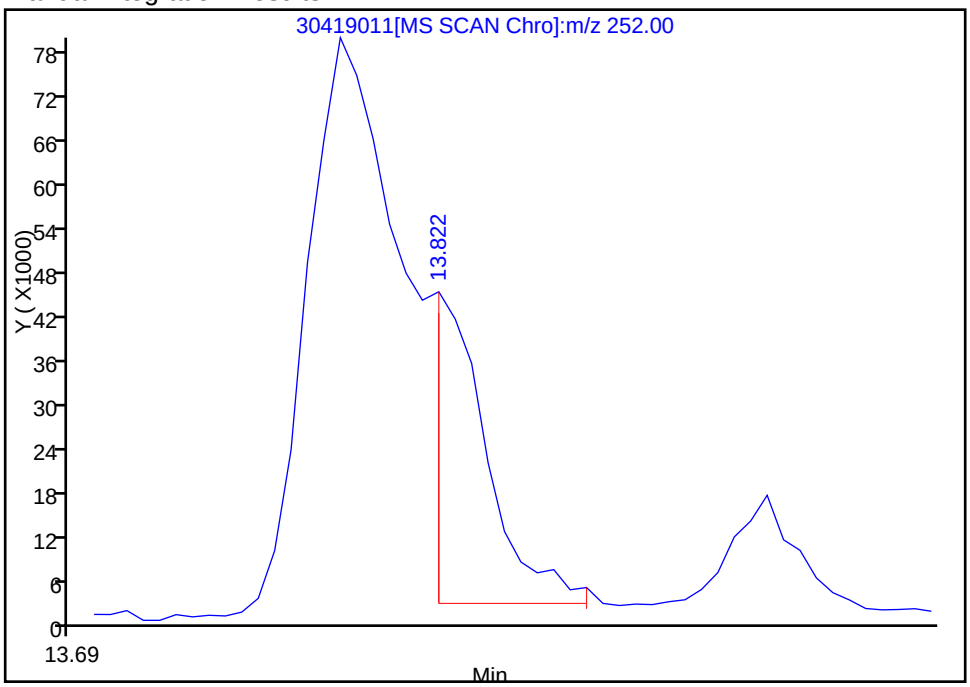
Processing Integration Results

RT: 13.94
Response: 26908
Amount: 0.187801



Manual Integration Results

RT: 13.82
Response: 56594
Amount: 0.394991



Reviewer: gruberj, 22-Apr-2013 11:09:33
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

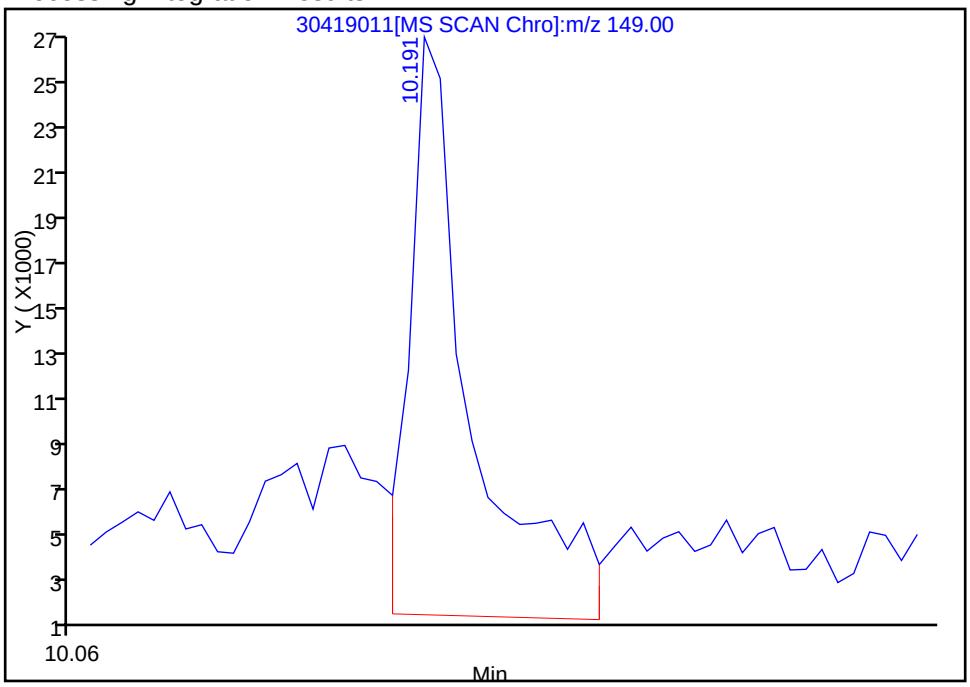
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419011.D		
Injection Date:	19-Apr-2013 14:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0020-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

155 Di-n-butyl phthalate, Signal: 1, m/z: 149.0 Type: quant, RT: 10.20

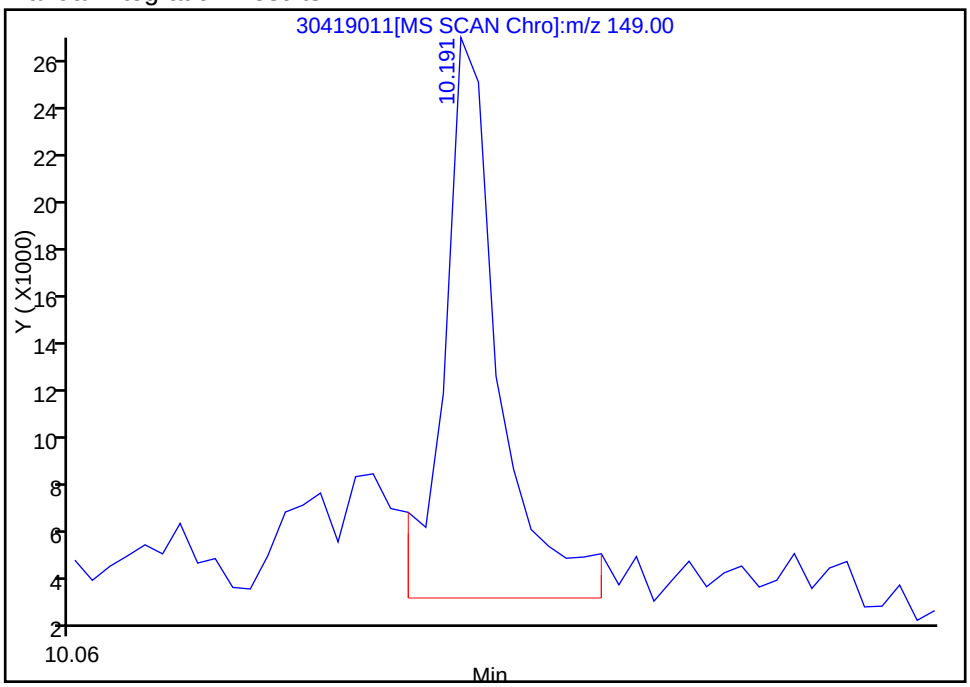
Processing Integration Results

RT: 10.19
Response: 40238
Amount: 0.280744



Manual Integration Results

RT: 10.19
Response: 28987
Amount: 0.202245



Reviewer: gruberj, 22-Apr-2013 11:09:33
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0021-0001-SO | Lab Sample ID: 240-22756-15

Matrix: Solid | Lab File ID: 30419018.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 12:50

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 29.75(g) | Date Analyzed: 04/19/2013 16:58

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	29		8.9	4.4	4.4
208-96-8	Acenaphthylene	4.4	U	8.9	4.4	4.4
120-12-7	Anthracene	79		8.9	4.4	4.4
56-55-3	Benzo[a]anthracene	170		8.9	4.4	4.4
50-32-8	Benzo[a]pyrene	130		8.9	4.4	4.4
205-99-2	Benzo[b]fluoranthene	190		8.9	4.4	4.4
191-24-2	Benzo[g,h,i]perylene	60		8.9	4.4	4.4
65-85-0	Benzoic acid	440	U	880	440	440
207-08-9	Benzo[k]fluoranthene	37	M	8.9	4.4	4.4
100-51-6	Benzyl alcohol	36	U	440	36	28
111-91-1	Bis(2-chloroethoxy)methane	36	U	130	36	29
111-44-4	Bis(2-chloroethyl)ether	4.4	U	130	4.4	2.7
108-60-1	bis (2-chloroisopropyl) ether	36	U	130	36	13
117-81-7	Bis(2-ethylhexyl) phthalate	54	J	93	36	25
101-55-3	4-Bromophenyl phenyl ether	36	U	66	36	17
85-68-7	Butyl benzyl phthalate	36	U	93	36	13
86-74-8	Carbazole	36	U	66	36	36
106-47-8	4-Chloroaniline	36	U	200	36	23
59-50-7	4-Chloro-3-methylphenol	36	U	200	36	28
91-58-7	2-Chloronaphthalene	4.4	U	66	4.4	4.4
95-57-8	2-Chlorophenol	36	U	66	36	36
7005-72-3	4-Chlorophenyl phenyl ether	36	U	66	36	17
218-01-9	Chrysene	140		8.9	4.4	1.5
53-70-3	Dibenz(a,h)anthracene	4.4	U	8.9	4.4	4.4
132-64-9	Dibenzofuran	4.4	U	66	4.4	4.4
95-50-1	1,2-Dichlorobenzene	36	U	66	36	13
541-73-1	1,3-Dichlorobenzene	36	U	66	36	15
106-46-7	1,4-Dichlorobenzene	36	U	66	36	27
91-94-1	3,3'-Dichlorobenzidine	110	U	130	110	24
120-83-2	2,4-Dichlorophenol	36	U	200	36	27
84-66-2	Diethyl phthalate	36	U	93	36	21
105-67-9	2,4-Dimethylphenol	110	U	200	110	27
131-11-3	Dimethyl phthalate	36	U	93	36	23
84-74-2	Di-n-butyl phthalate	36	U	93	36	20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0021-0001-SO | Lab Sample ID: 240-22756-15

Matrix: Solid | Lab File ID: 30419018.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 12:50

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 29.75(g) | Date Analyzed: 04/19/2013 16:58

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	110	U	200	110	110
51-28-5	2,4-Dinitrophenol	110	U	440	110	110
121-14-2	2,4-Dinitrotoluene	36	U	270	36	36
606-20-2	2,6-Dinitrotoluene	36	U	270	36	28
117-84-0	Di-n-octyl phthalate	36	U	93	36	36
206-44-0	Fluoranthene	440		8.9	4.4	4.4
86-73-7	Fluorene	26		8.9	4.4	4.4
118-74-1	Hexachlorobenzene	4.4	U	8.9	4.4	2.8
87-68-3	Hexachlorobutadiene	36	U	66	36	36
77-47-4	Hexachlorocyclopentadiene	36	U	440	36	36
67-72-1	Hexachloroethane	36	U	66	36	12
193-39-5	Indeno[1,2,3-cd]pyrene	58		8.9	4.4	4.4
78-59-1	Isophorone	36	U	66	36	17
91-57-6	2-Methylnaphthalene	4.4	U	8.9	4.4	4.4
95-48-7	2-Methylphenol	110	U	270	110	110
15831-10-4	3 & 4 Methylphenol	110	U	530	110	27
91-20-3	Naphthalene	4.4	U	8.9	4.4	4.4
88-74-4	2-Nitroaniline	36	U	270	36	12
99-09-2	3-Nitroaniline	110	U	270	110	21
100-01-6	4-Nitroaniline	36	U	270	36	35
98-95-3	Nitrobenzene	4.4	U	130	4.4	2.9
88-75-5	2-Nitrophenol	36	U	66	36	36
100-02-7	4-Nitrophenol	110	U	440	110	110
621-64-7	N-Nitrosodi-n-propylamine	36	U	66	36	36
86-30-6	N-Nitrosodiphenylamine	36	U	66	36	28
87-86-5	Pentachlorophenol	110	U	200	110	110
85-01-8	Phenanthrene	170		8.9	4.4	4.4
108-95-2	Phenol	36	U	66	36	36
129-00-0	Pyrene	330		8.9	4.4	4.4
120-82-1	1,2,4-Trichlorobenzene	36	U	66	36	36
95-95-4	2,4,5-Trichlorophenol	36	U	200	36	33
88-06-2	2,4,6-Trichlorophenol	110	U	200	110	110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0021-0001-SO | Lab Sample ID: 240-22756-15

Matrix: Solid | Lab File ID: 30419018.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 12:50

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 29.75(g) | Date Analyzed: 04/19/2013 16:58

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	69		45-105
367-12-4	2-Fluorophenol (Surr)	83		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	74		35-100
4165-62-2	Phenol-d5 (Surr)	82		40-100
1718-51-0	Terphenyl-d14 (Surr)	62		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	68		35-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419018.D
Lims ID: 240-22756-B-15-A
Client ID: 074SB-0021-0001-SO
Inject. Date: 19-Apr-2013 16:58:30
Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0019044-018
Misc. Info.: 240-22756-B-15-A
Operator: 001710
Instrument ID: A4HP10
Injection Vol: 1.0 ul
ALS Bottle#: 18
Lims Batch ID: 82653
Lims Sample ID: 18
Detector: MS SCAN

Method: \\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m
Last Update: 22-Apr-2013 13:55:06
Calib Date: 12-Apr-2013 00:58:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: 5% phenyl
Column Dia: 0.18 mm
Process Host: XAWRK022

First Level Reviewer: gruberj
Date: 22-Apr-2013 11:31:57

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.848	5.848	0.0	98	124656	4.00	
* 2 Naphthalene-d8	136	6.971	6.970	0.001	99	484654	4.00	
* 3 Acenaphthene-d10	164	8.475	8.475	0.0	90	297884	4.00	
* 4 Phenanthrene-d10	188	9.738	9.738	0.0	96	505645	4.00	
* 5 Chrysene-d12	240	12.294	12.294	0.0	81	546784	4.00	
* 6 Perylene-d12	264	14.374	14.368	0.006	97	468440	4.00	
$ 7 2-Fluorophenol	112	4.591	4.573	0.018	92	449850	12.5	
$ 8 Phenol-d5	99	5.496	5.490	0.006	91	590180	12.3	
$ 9 Nitrobenzene-d5	82	6.336	6.336	0.0	86	336006	7.41	
$ 10 2-Fluorobiphenyl (Surr)	172	7.887	7.887	0.0	98	661406	6.89	
$ 11 2,4,6-Tribromophenol	330	9.145	9.144	0.001	82	111315	10.2	
$ 12 Terphenyl-d14	244	11.101	11.101	0.0	99	668096	6.21	
43 Phenol	94		5.502					9
45 Bis(2-chloroethyl)ether	93		5.601					
47 2-Chlorophenol	128		5.648					
48 1,3-Dichlorobenzene	146		5.795					
49 1,4-Dichlorobenzene	146		5.866					
50 Benzyl alcohol	108		5.960					
51 1,2-Dichlorobenzene	146		6.001					
52 2-Methylphenol	108		6.054					9
54 2,2'-oxybis[1-chloropropane]	45		6.083					9
56 3 & 4 Methylphenol	108		6.183					9
57 N-Nitrosodi-n-propylamine	70		6.195					
61 Hexachloroethane	117		6.307					
62 Nitrobenzene	77		6.354					
64 Isophorone	82		6.559					
66 2-Nitrophenol	139		6.636					
65 2,4-Dimethylphenol	107		6.653					
70 Benzoic acid	122		6.712					9
69 Bis(2-chloroethoxy)methane	93		6.741					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
72 2,4-Dichlorophenol	162		6.835					9
73 1,2,4-Trichlorobenzene	180		6.918					
74 Naphthalene	128		6.988					
75 4-Chloroaniline	127		7.023					
78 Hexachlorobutadiene	225		7.088					
85 4-Chloro-3-methylphenol	107		7.423					9
87 2-Methylnaphthalene	142		7.582					
89 Hexachlorocyclopentadiene	237		7.711					
93 2,4,6-Trichlorophenol	196		7.811					
94 2,4,5-Trichlorophenol	196		7.846					9
100 2-Chloronaphthalene	162		7.999					
102 2-Nitroaniline	65		8.075					
105 Dimethyl phthalate	163		8.216					9
107 2,6-Dinitrotoluene	165		8.275					9
109 Acenaphthylene	152		8.357					
110 3-Nitroaniline	138		8.422					
112 Acenaphthene	153	8.504	8.504	0.0	66	26536	0.3272	
111 2,4-Dinitrophenol	184		8.510					
113 4-Nitrophenol	109		8.539					
114 2,4-Dinitrotoluene	165		8.616					
116 Dibenzofuran	168		8.645					
121 Diethyl phthalate	149		8.815					
123 4-Chlorophenyl phenyl ether	204		8.927					
126 Fluorene	166	8.939	8.939	0.0	64	25656	0.2887	
125 4-Nitroaniline	138		8.939					9
128 4,6-Dinitro-2-methylphenol	198		8.962					
129 N-Nitrosodiphenylamine	169		9.027					
139 4-Bromophenyl phenyl ether	248		9.344					
141 Hexachlorobenzene	284		9.403					
144 Pentachlorophenol	266		9.567					
149 Phenanthrene	178	9.761	9.761	0.0	95	221646	1.89	
150 Anthracene	178	9.803	9.803	0.001	88	104513	0.8965	
152 Carbazole	167	9.932	9.932	0.0	68	22292	0.2075	
155 Di-n-butyl phthalate	149		10.196					
160 Fluoranthene	202	10.784	10.772	0.012	98	681965	4.93	
162 Pyrene	202	10.984	10.984	0.0	96	525276	3.72	
170 Butyl benzyl phthalate	149		11.583					
177 3,3'-Dichlorobenzidine	252		12.229					
175 Bis(2-ethylhexyl) phthalate	149	12.259	12.258	0.001	84	46115	0.6093	
179 Benzo[a]anthracene	228	12.282	12.282	0.0	97	262753	1.93	
180 Chrysene	228	12.329	12.329	0.0	86	197972	1.59	
182 Di-n-octyl phthalate	149		13.175					
184 Benzo[b]fluoranthene	252	13.792	13.786	0.006	95	263324	2.09	
185 Benzo[k]fluoranthene	252	13.827	13.827	0.0	76	56681	0.4145	M
186 Benzo[a]pyrene	252	14.286	14.286	0.0	74	172876	1.48	
190 Indeno[1,2,3-cd]pyrene	276	16.031	16.031	0.0	97	83175	0.6496	
191 Dibenz(a,h)anthracene	278		16.066					
192 Benzo[g,h,i]perylene	276	16.471	16.477	-0.006	82	73487	0.6725	

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

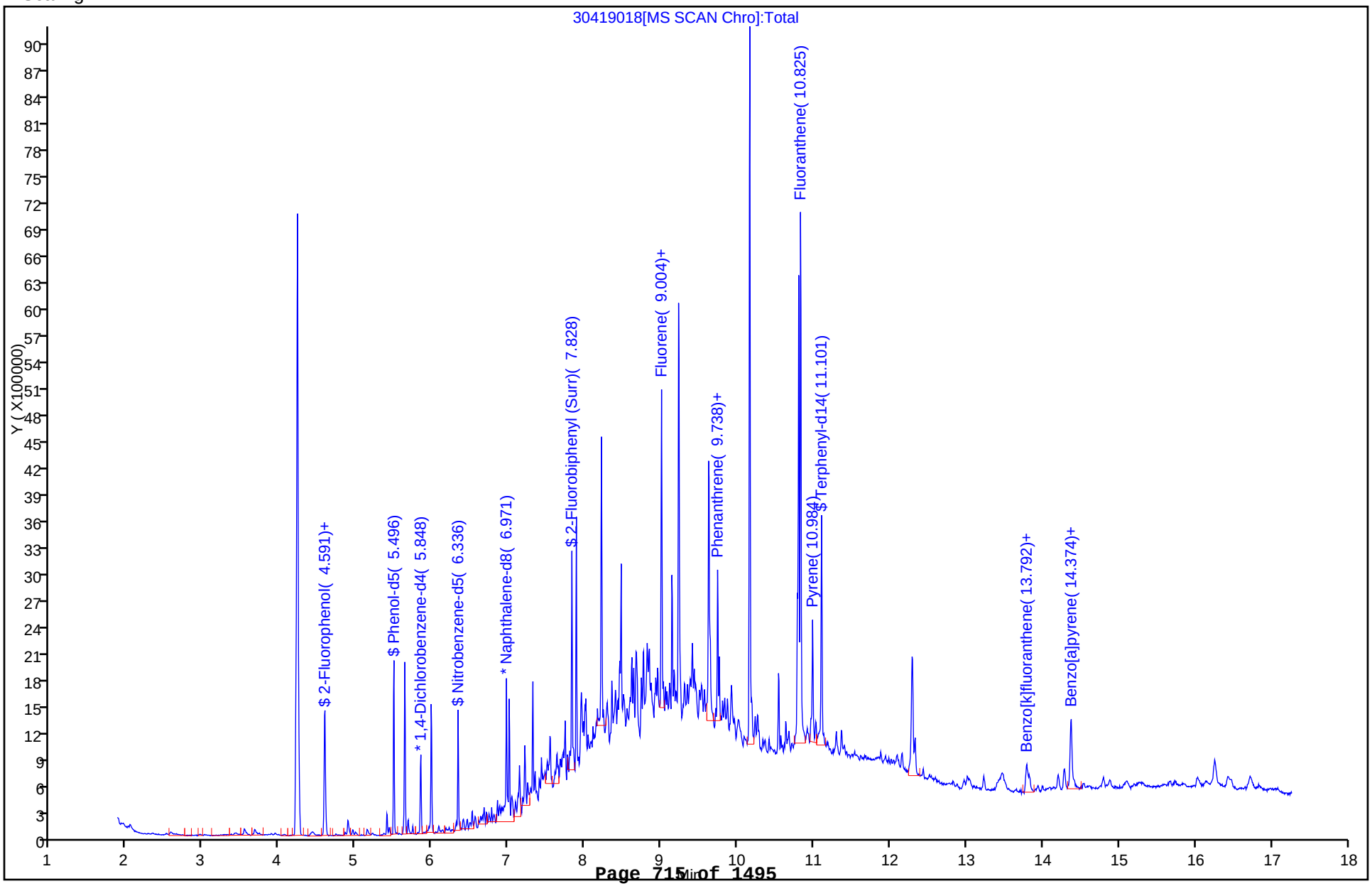
Report Date: 22-Apr-2013 13:55:28 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419018.D

Injection Date:	19-Apr-2013 16:58:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0021-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	18
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



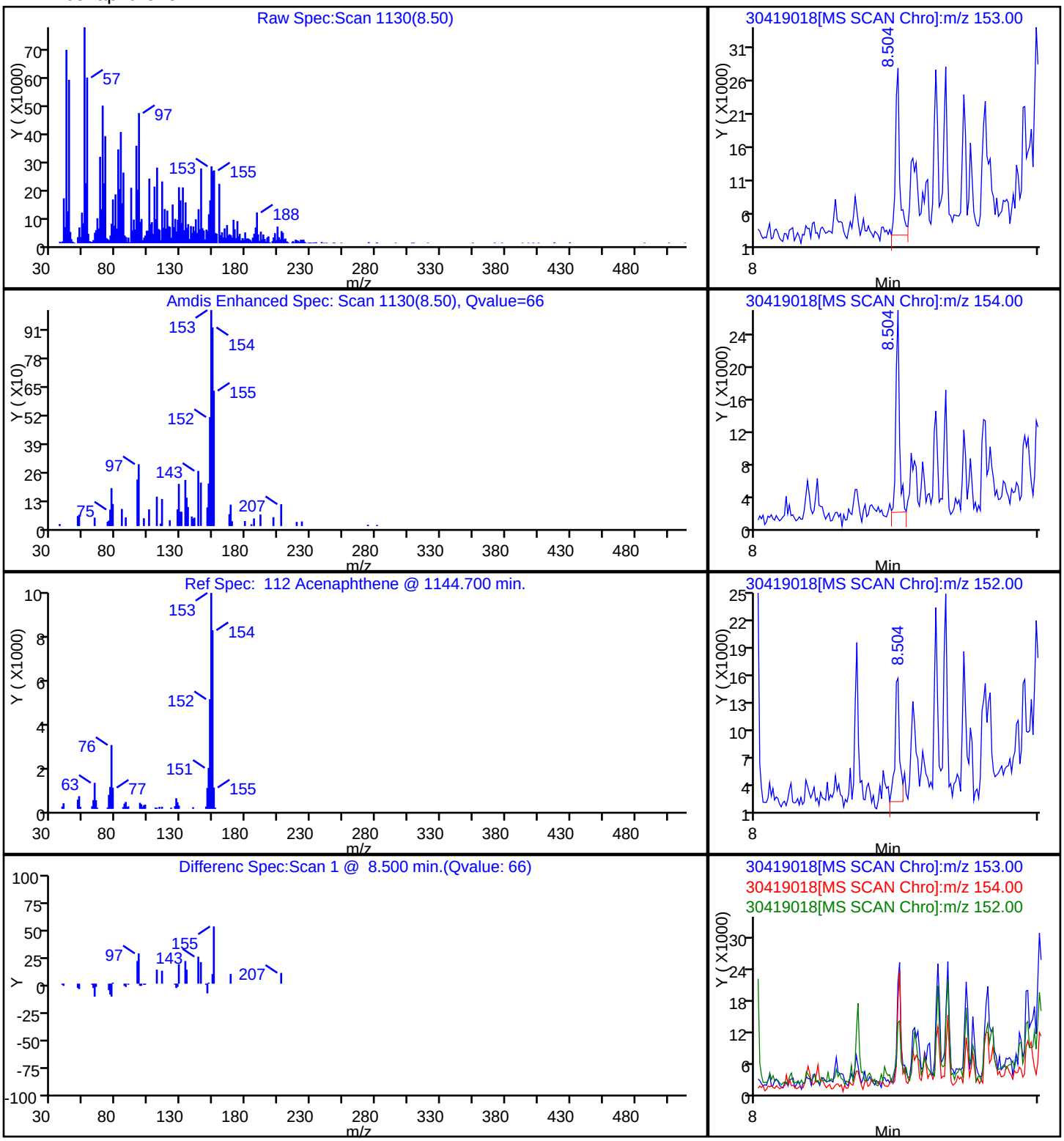
Report Date: 22-Apr-2013 13:55:28 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419018.D

Injection Date:	19-Apr-2013 16:58:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0021-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	18
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

112 Acenaphthene



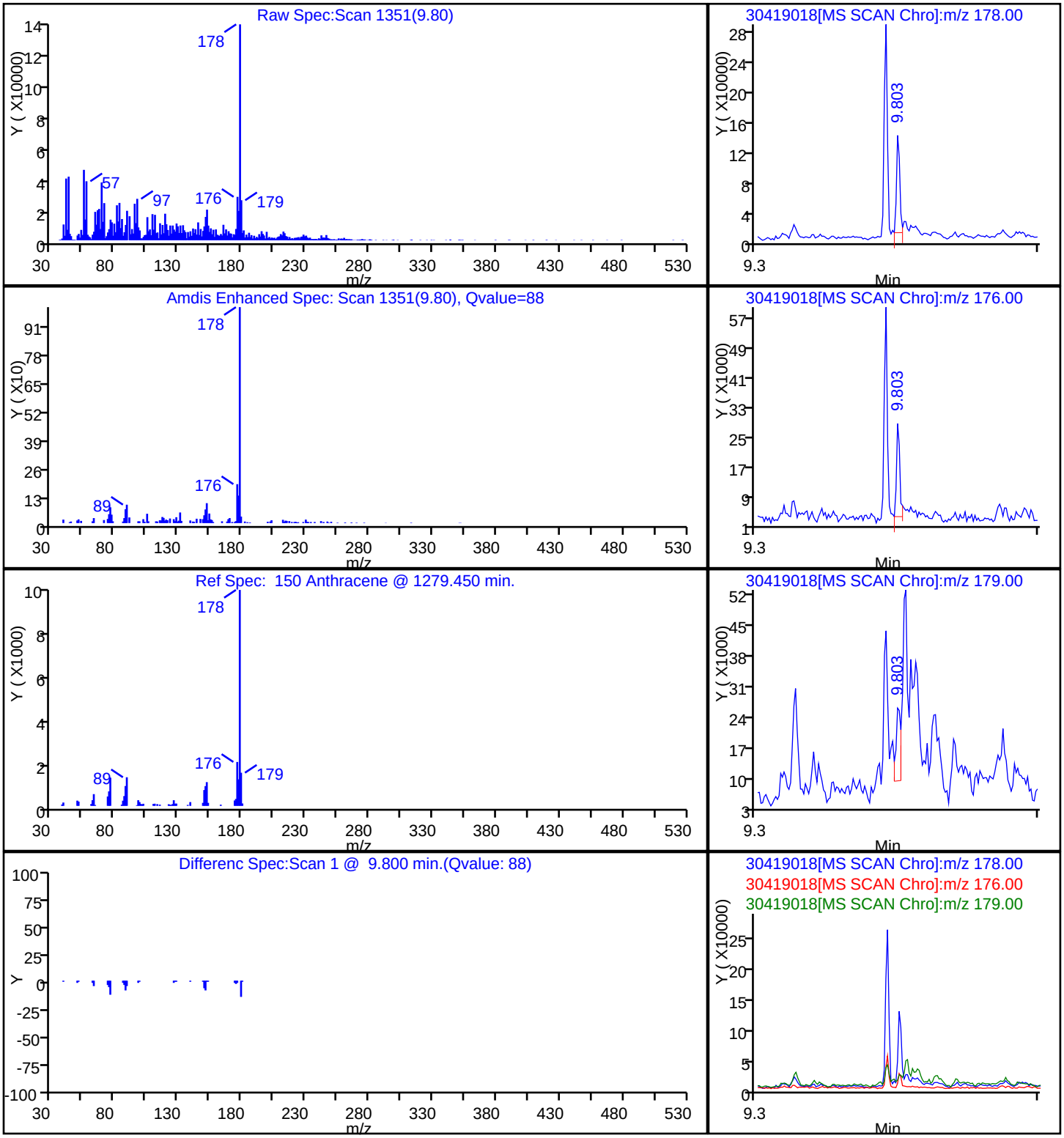
Report Date: 22-Apr-2013 13:55:28 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419018.D

Injection Date:	19-Apr-2013 16:58:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0021-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	18
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

150 Anthracene



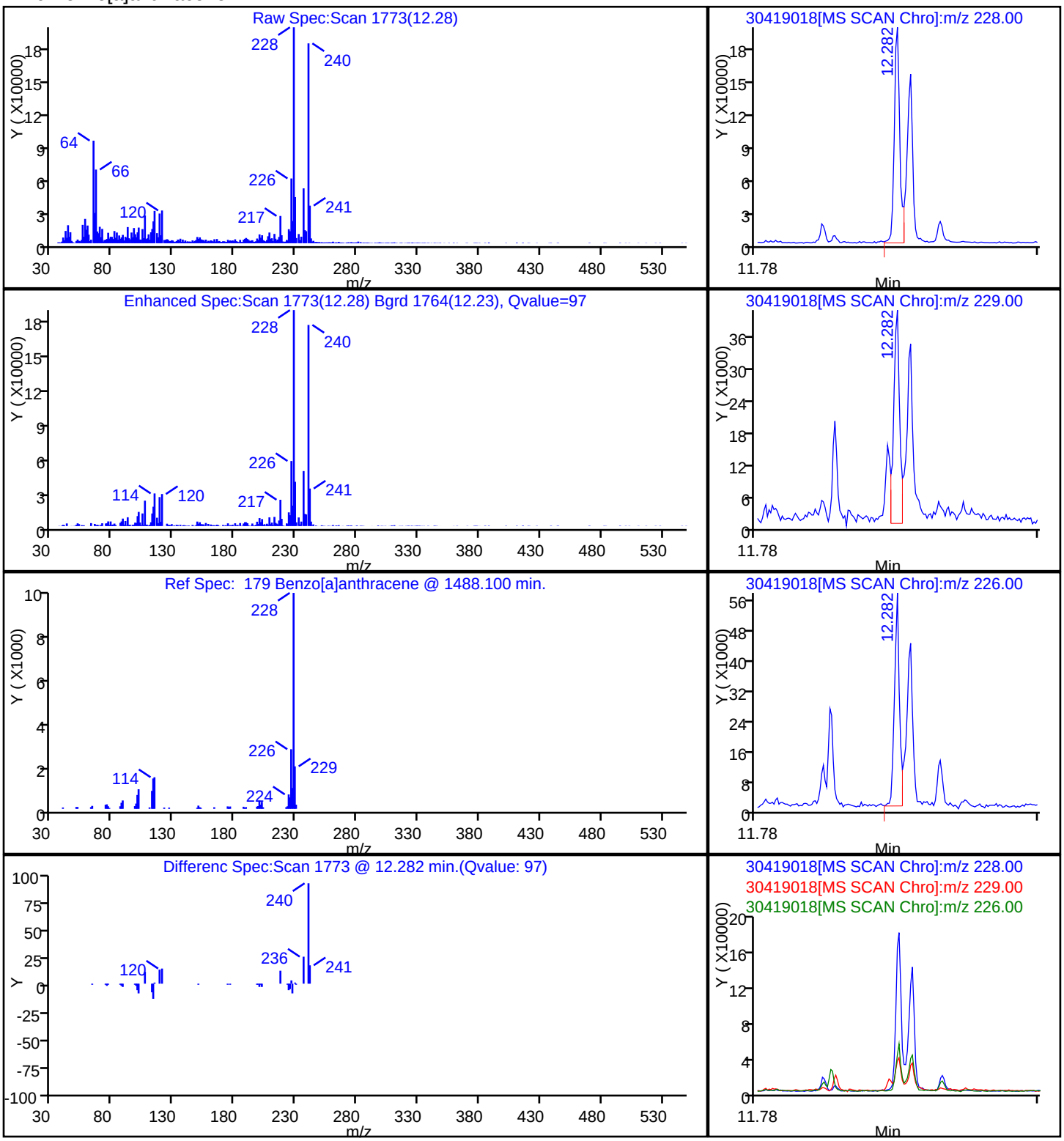
Report Date: 22-Apr-2013 13:55:28 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419018.D

Injection Date:	19-Apr-2013 16:58:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0021-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	18
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

179 Benzo[a]anthracene



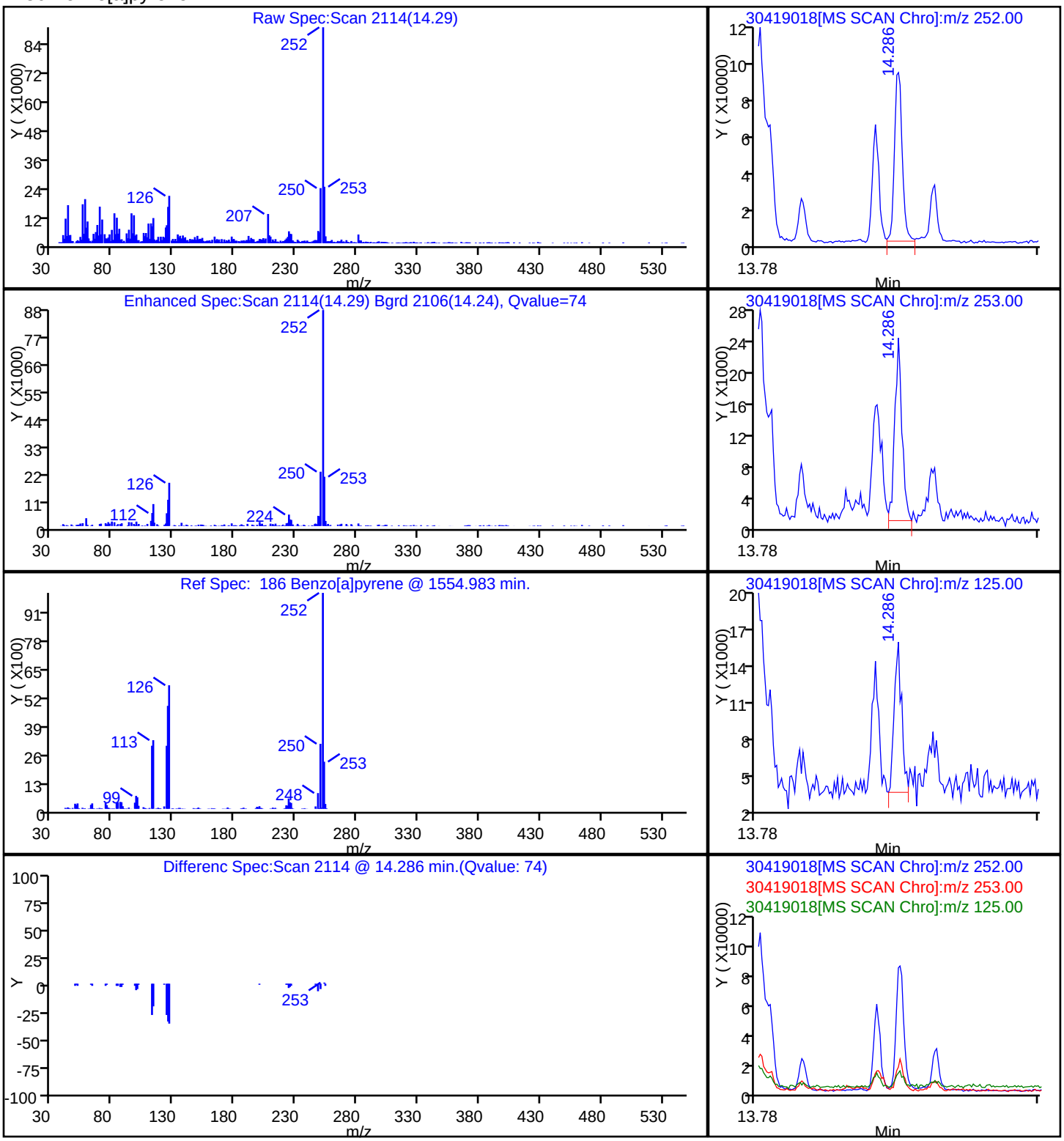
Report Date: 22-Apr-2013 13:55:28 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419018.D

Injection Date:	19-Apr-2013 16:58:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0021-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	18
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

186 Benzo[a]pyrene



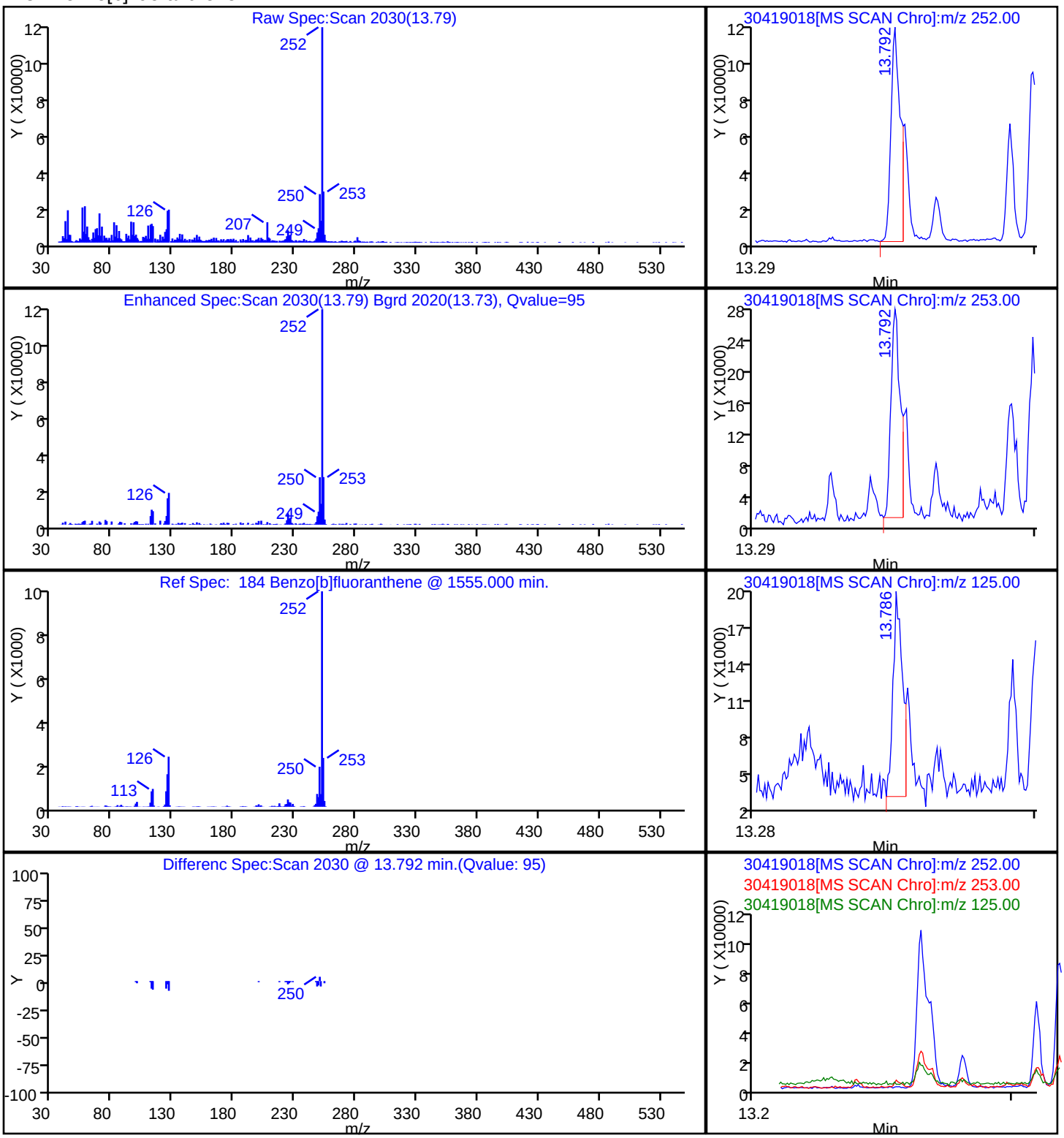
Report Date: 22-Apr-2013 13:55:28 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419018.D

Injection Date:	19-Apr-2013 16:58:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0021-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	18
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

184 Benzo[b]fluoranthene



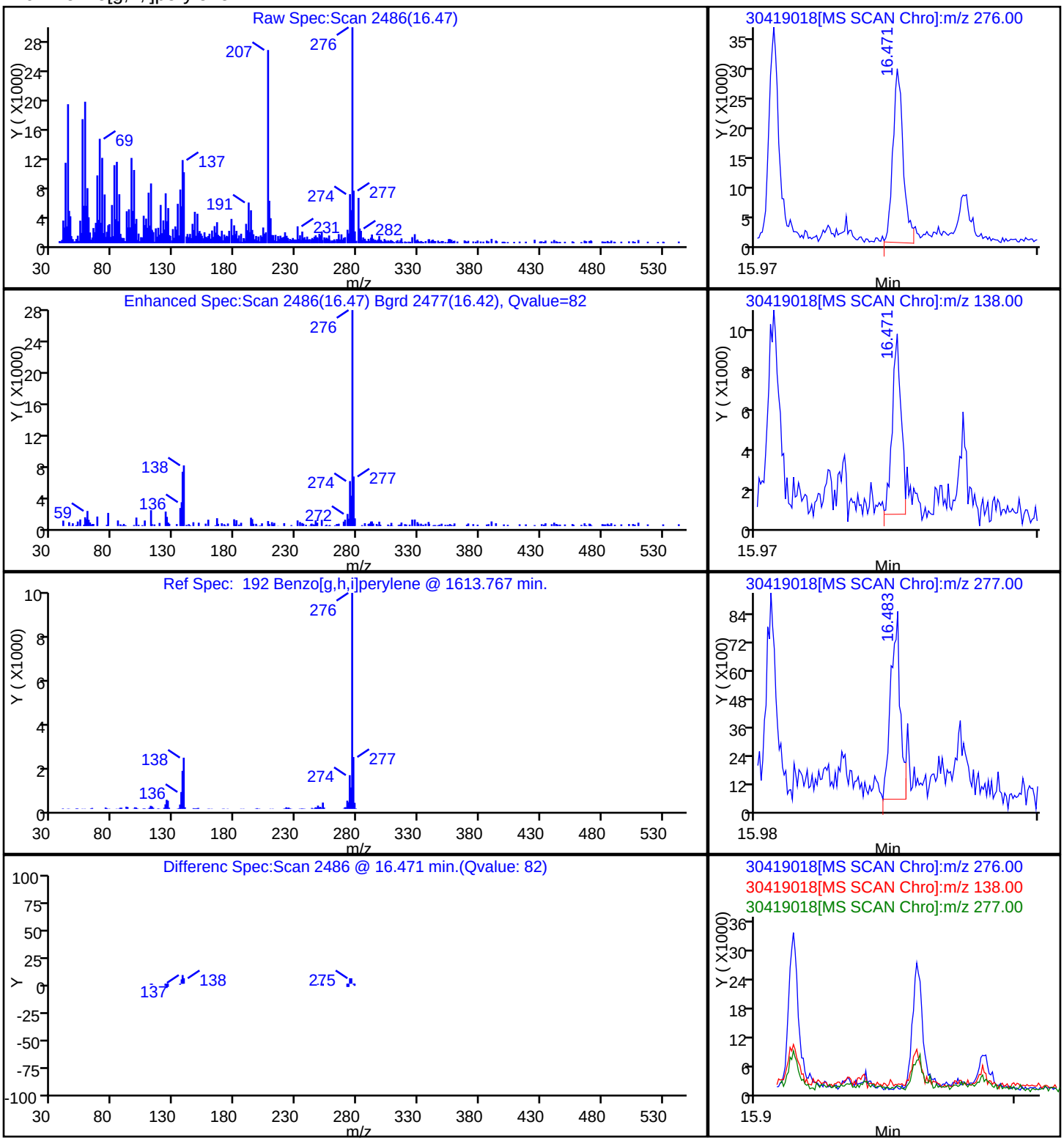
Report Date: 22-Apr-2013 13:55:28 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419018.D

Injection Date:	19-Apr-2013 16:58:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0021-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	18
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

192 Benzo[g,h,i]perylene



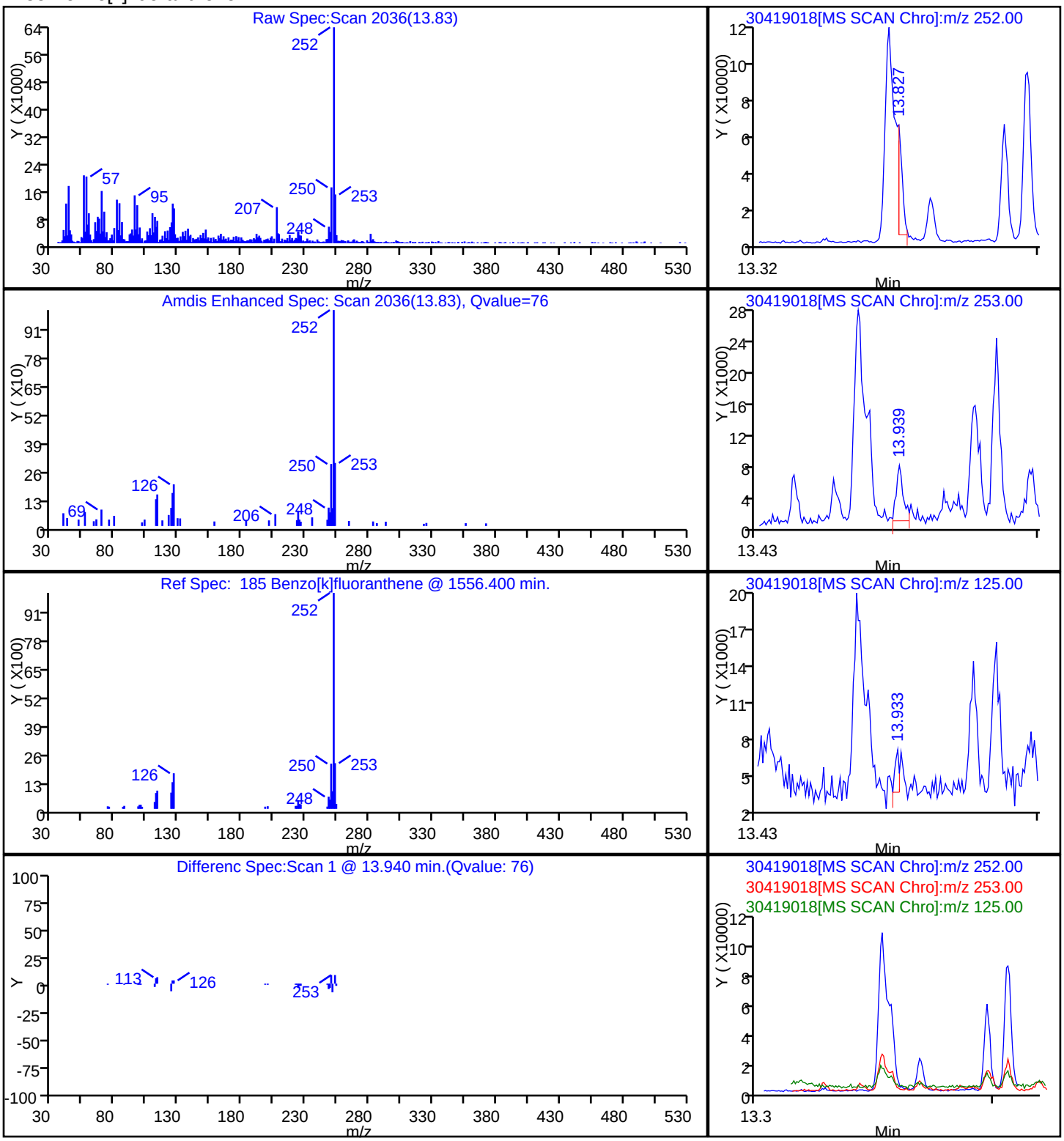
Report Date: 22-Apr-2013 13:55:28 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419018.D

Injection Date:	19-Apr-2013 16:58:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0021-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	18
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

185 Benzo[k]fluoranthene



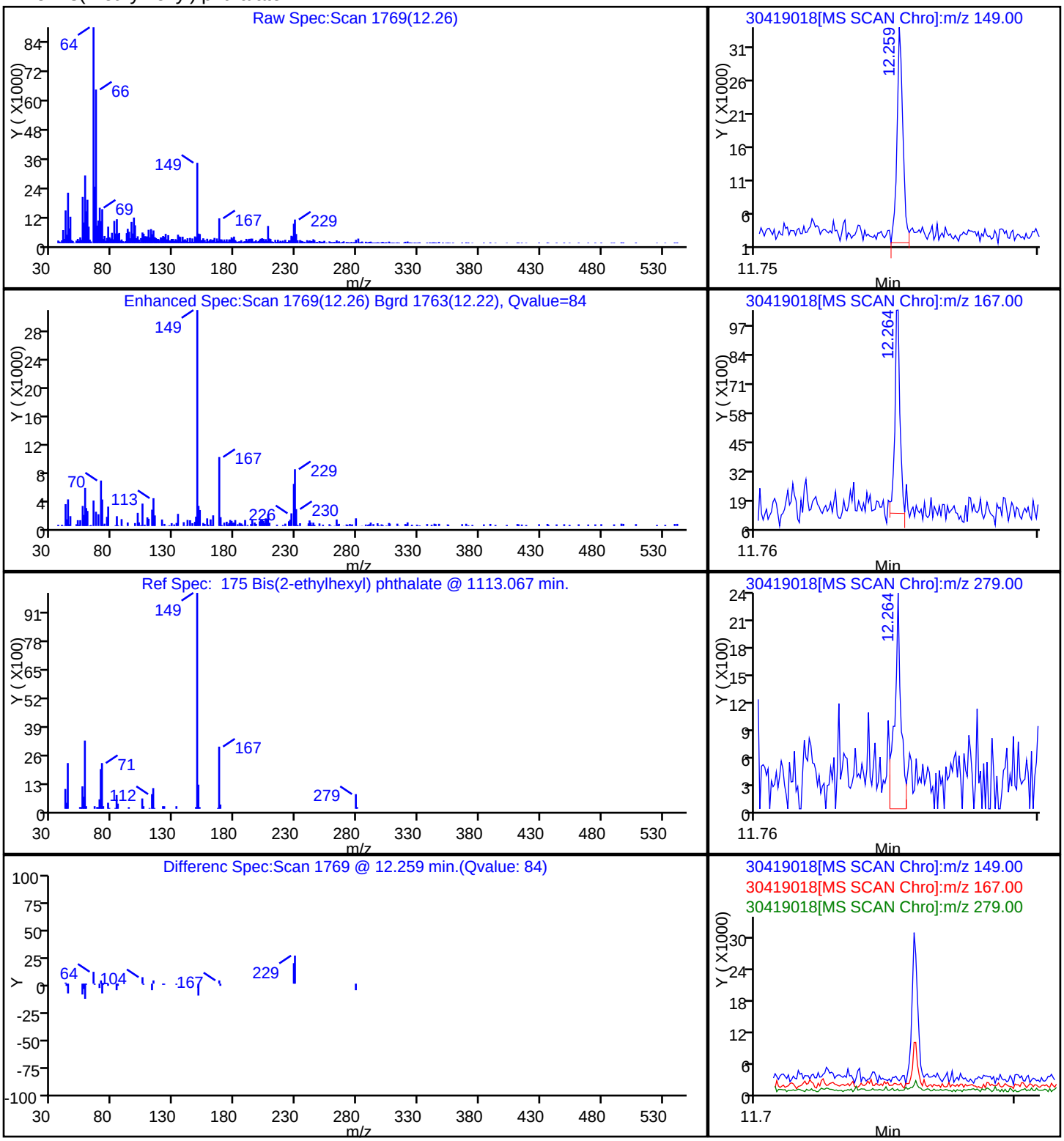
Report Date: 22-Apr-2013 13:55:28 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419018.D

Injection Date:	19-Apr-2013 16:58:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0021-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	18
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

175 Bis(2-ethylhexyl) phthalate



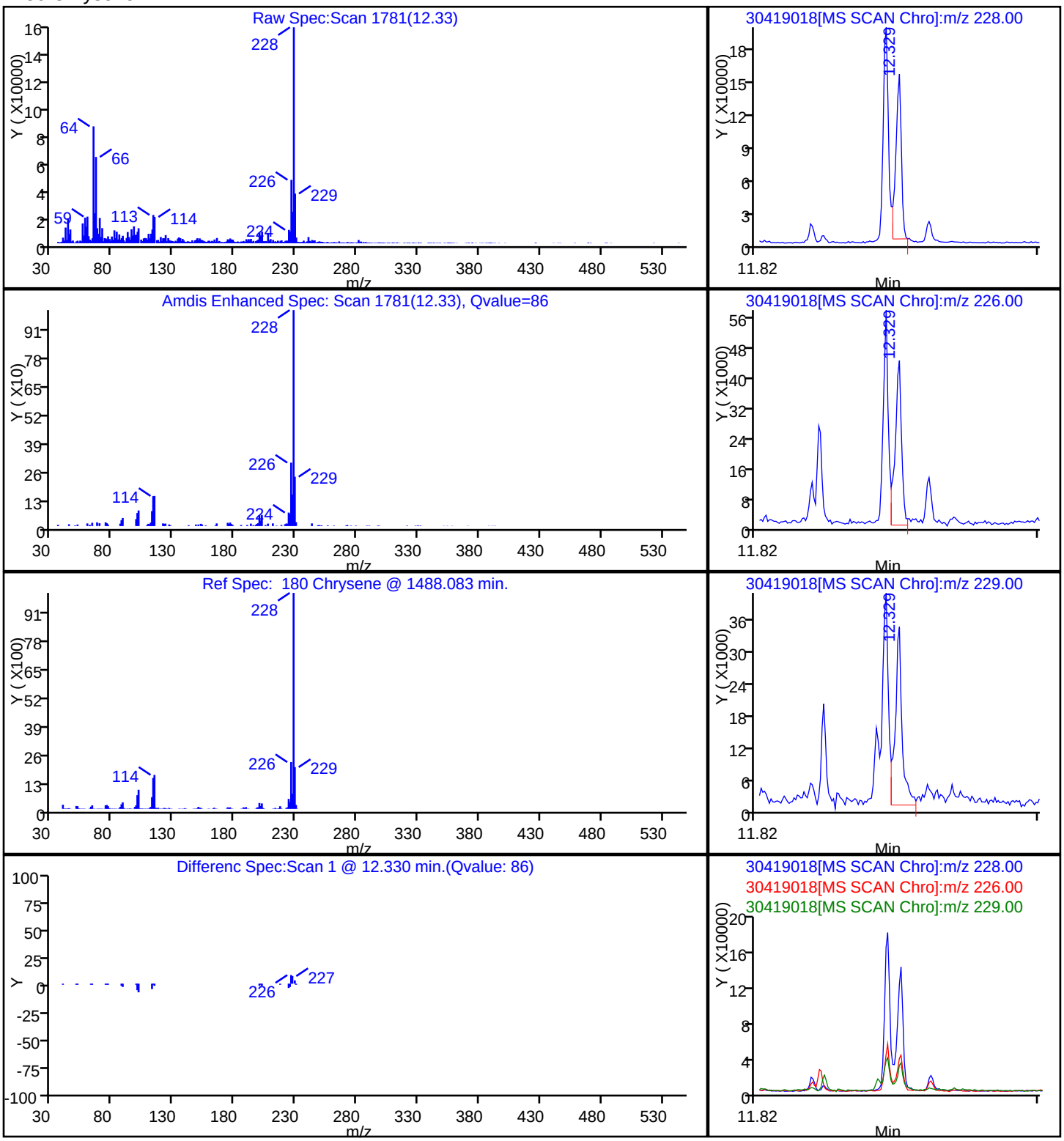
Report Date: 22-Apr-2013 13:55:28 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419018.D

Injection Date:	19-Apr-2013 16:58:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0021-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	18
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

180 Chrysene



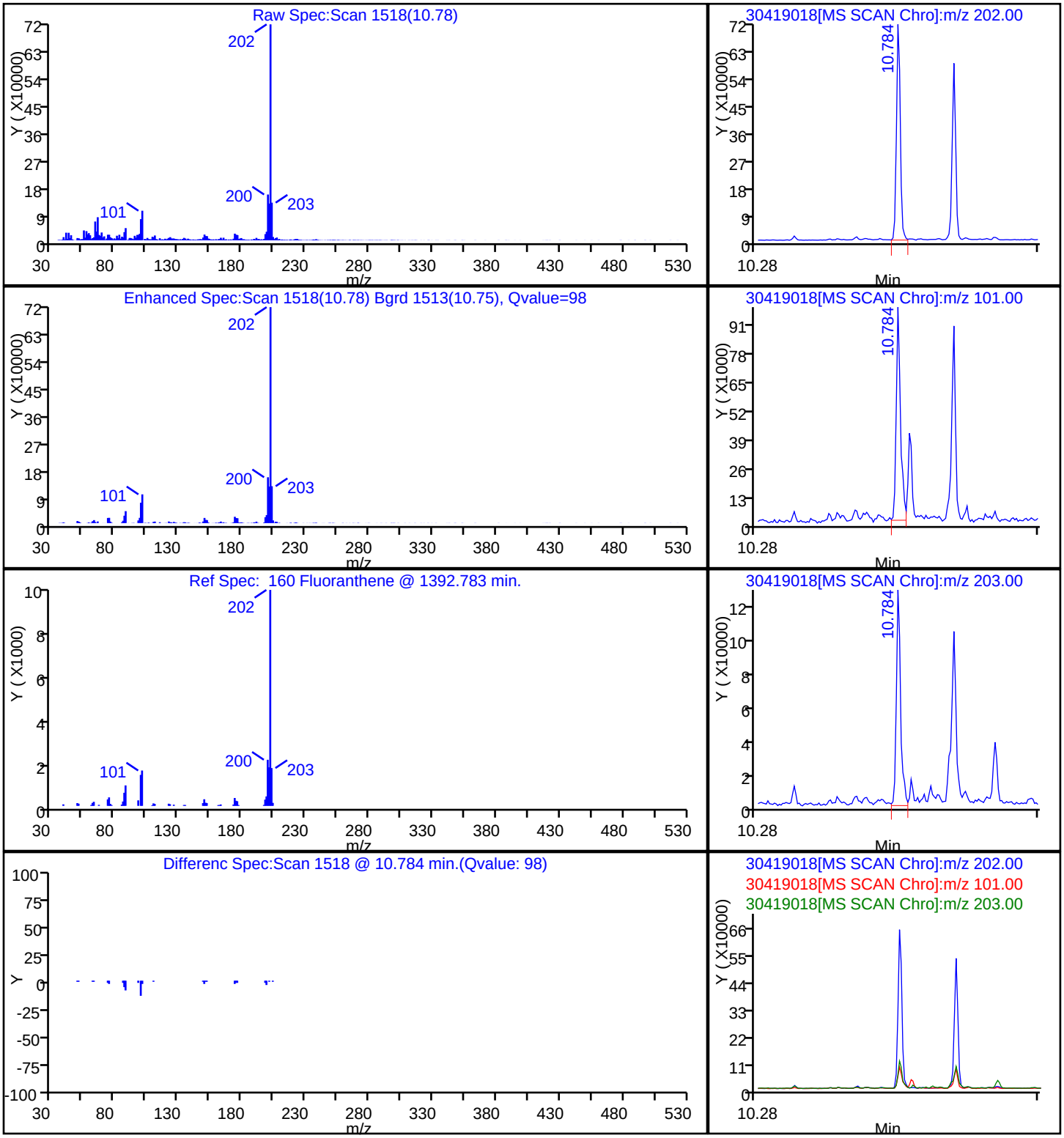
Report Date: 22-Apr-2013 13:55:28 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419018.D

Injection Date:	19-Apr-2013 16:58:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0021-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	18
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

160 Fluoranthene



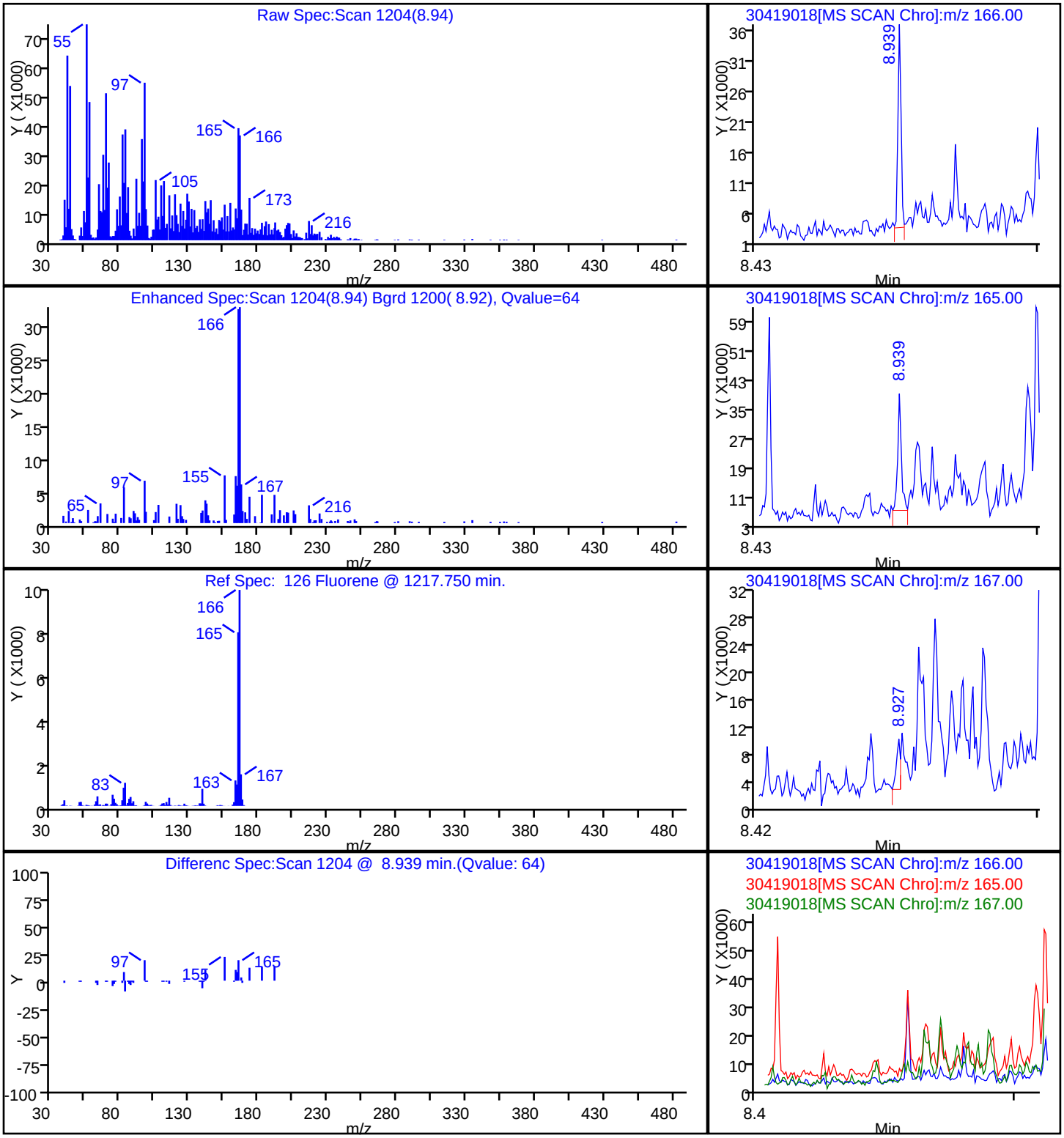
Report Date: 22-Apr-2013 13:55:28 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419018.D

Injection Date:	19-Apr-2013 16:58:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0021-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	18
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

126 Fluorene



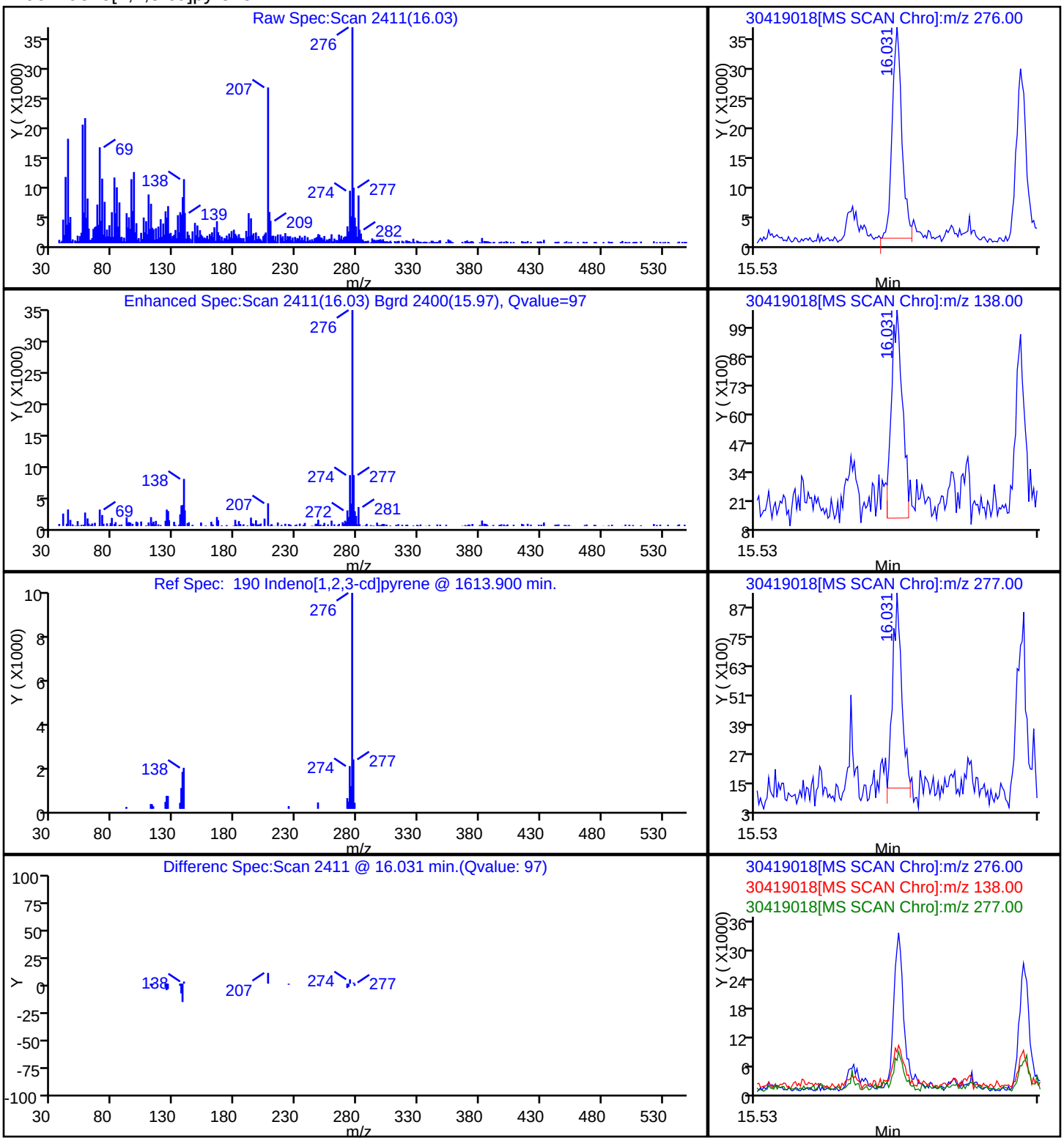
Report Date: 22-Apr-2013 13:55:28 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419018.D

Injection Date:	19-Apr-2013 16:58:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0021-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	18
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

190 Indeno[1,2,3-cd]pyrene



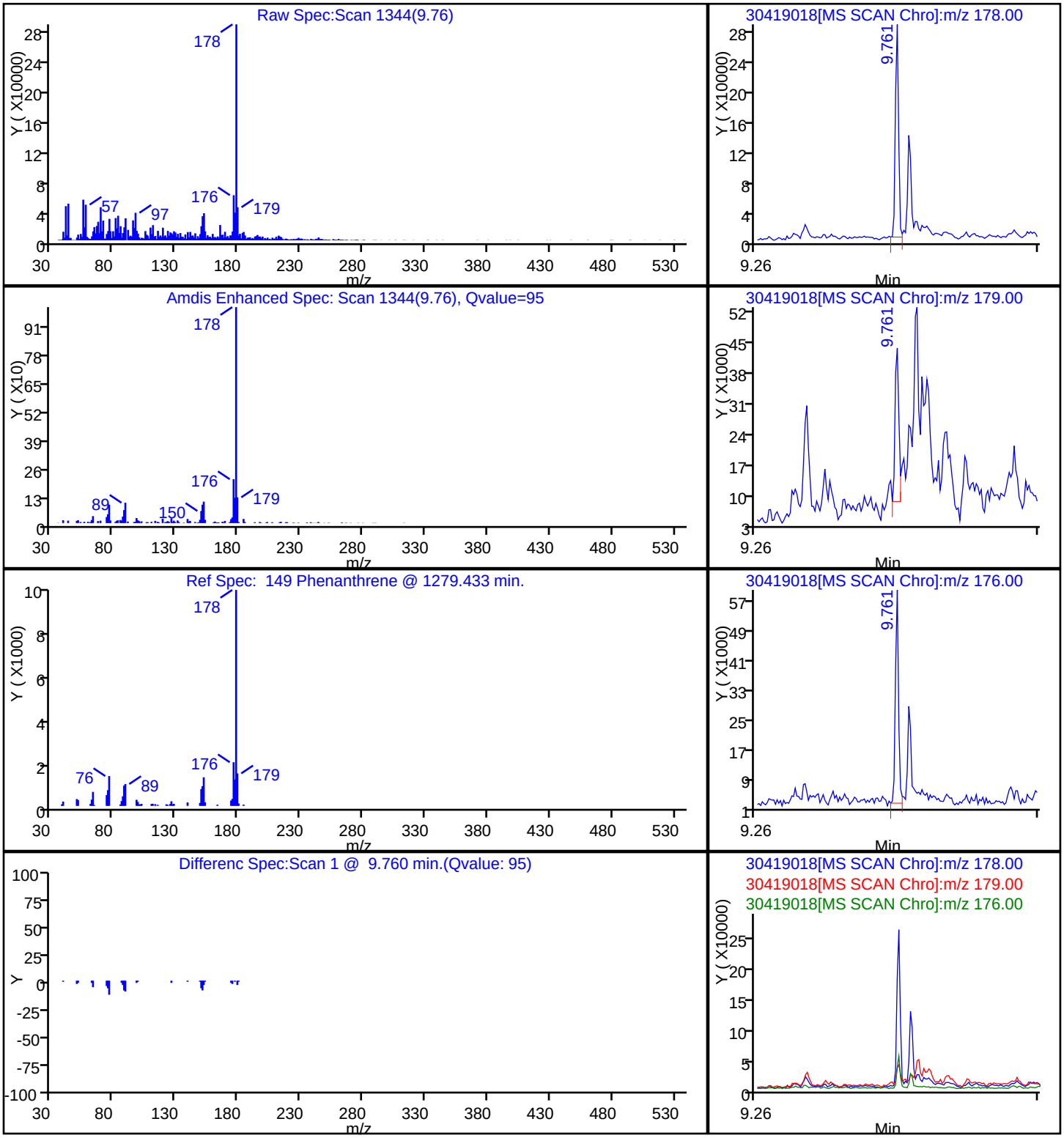
Report Date: 22-Apr-2013 13:55:28 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419018.D

Injection Date:	19-Apr-2013 16:58:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0021-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	18
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

149 Phenanthrene



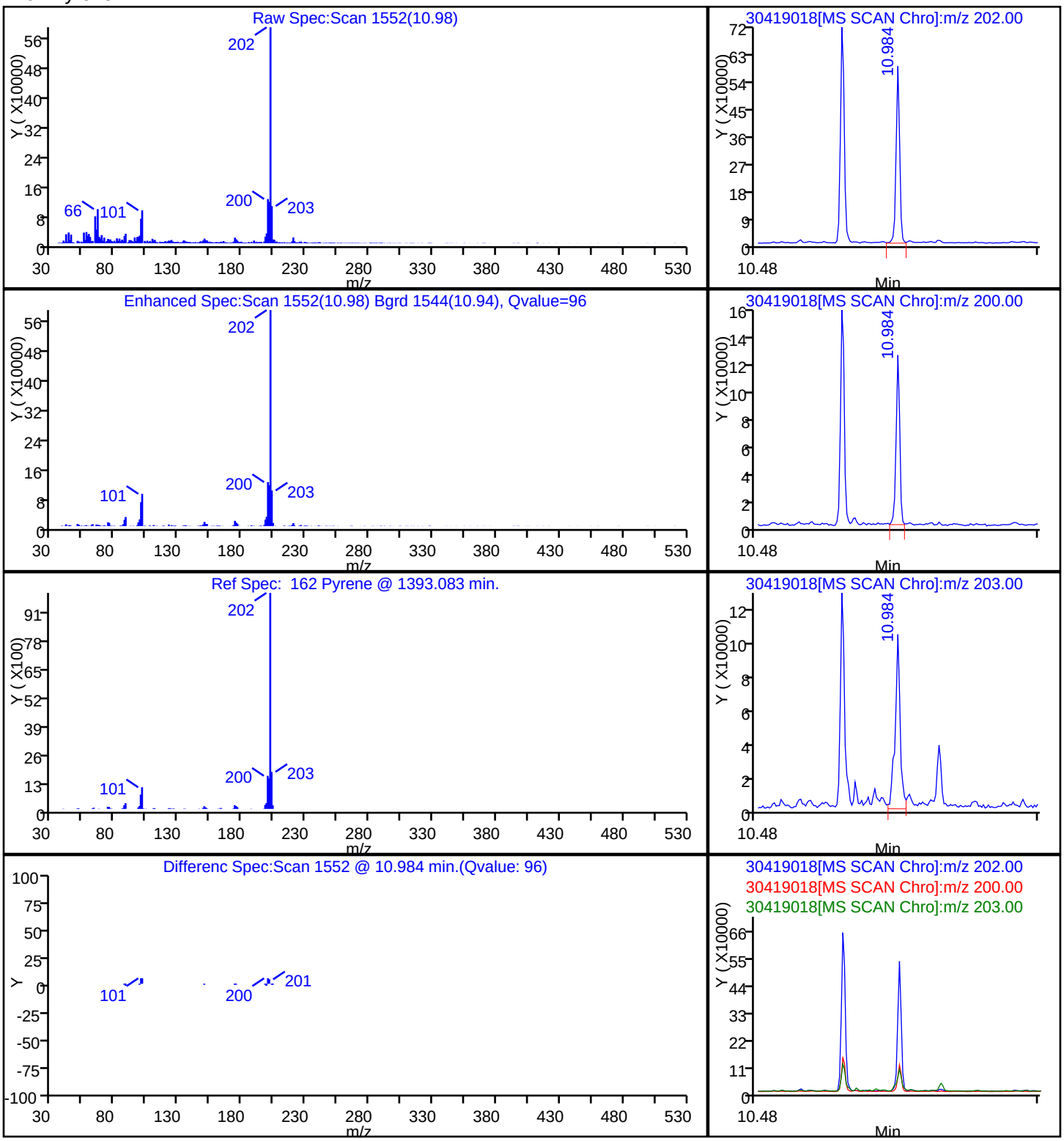
Report Date: 22-Apr-2013 13:55:28 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419018.D

Injection Date:	19-Apr-2013 16:58:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0021-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	18
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

162 Pyrene



Manual Integration/User Assign Peak Report

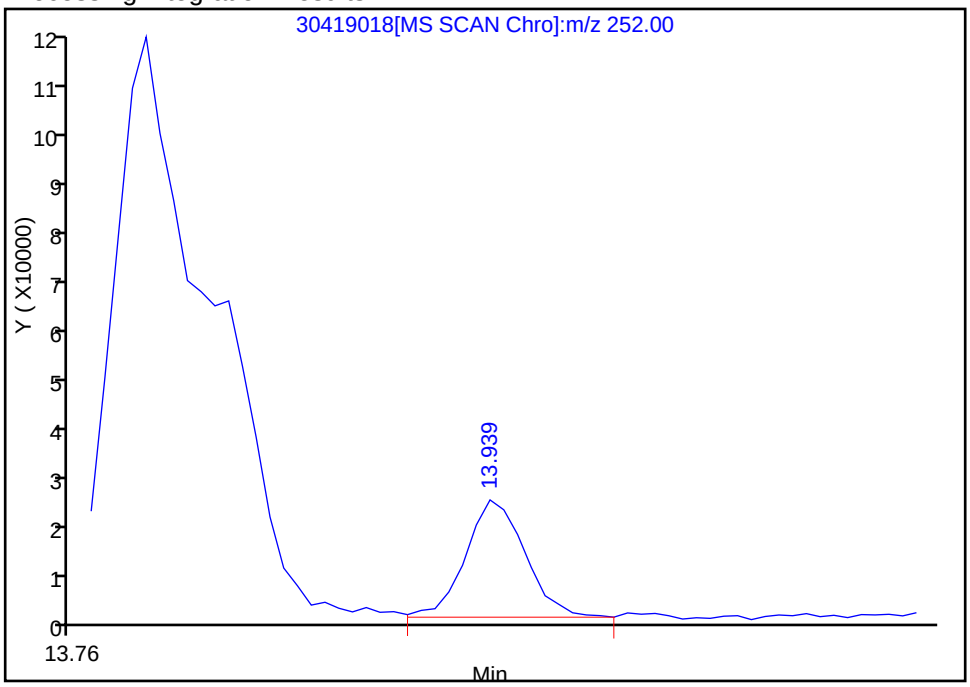
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419018.D		
Injection Date:	19-Apr-2013 16:58:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0021-0001-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	18
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

185 Benzo[k]fluoranthene, Signal: 1, m/z: 252.0 Type: quant, RT: 13.83

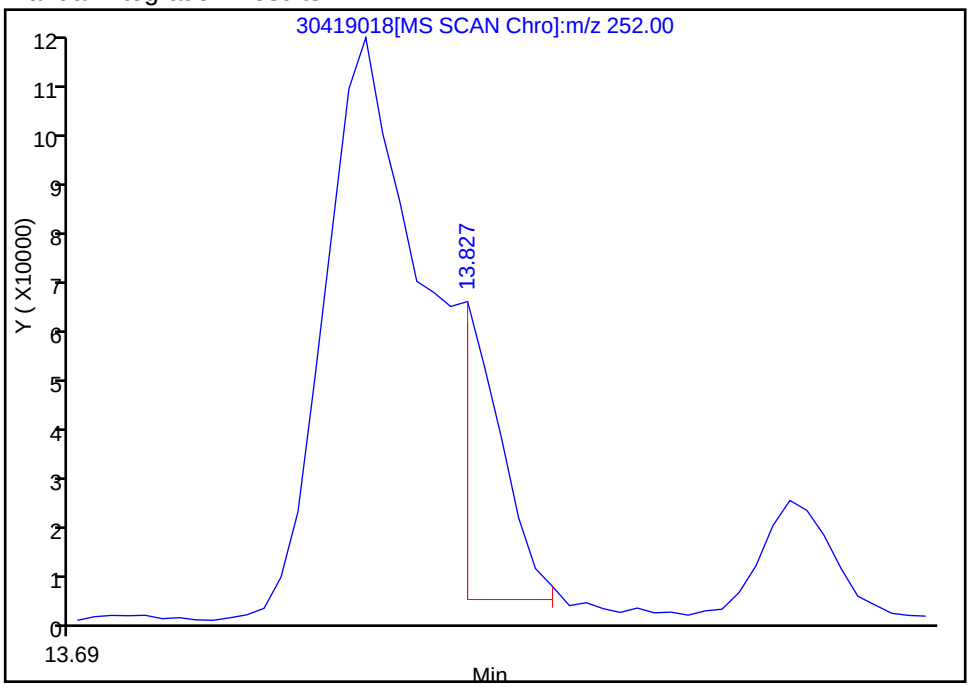
Processing Integration Results

RT: 13.94
Response: 40597
Amount: 0.296870



Manual Integration Results

RT: 13.83
Response: 56681
Amount: 0.414486



Reviewer: gruberj, 22-Apr-2013 11:31:57
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 81609

SDG No.:

Instrument ID: A4HP10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 18:04 Calibration End Date: 04/11/2013 21:19 Calibration ID: 14465

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-81609/6	30411006.D
Level 2	STD2 240-81609/5	30411005.D
Level 3	STD3 240-81609/4	30411004.D
Level 4	STD4 240-81609/3	30411003.D
Level 5	STD5 240-81609/2	30411002.D
Level 6	STD6 240-81609/10	30411010.D
Level 7	STD7 240-81609/9	30411009.D
Level 8	STD8 240-81609/8	30411008.D
Level 9	STD9 240-81609/7	30411007.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,4-Dioxane	0.5077	0.8345 0.5355	0.6096 0.5712	0.5723 0.5485	0.5484	Lin1	0.1048	0.5391			0.0500				0.9980		0.9950
N-Nitrosodimethylamine	0.6705	0.6142 0.7240	0.5757 0.7721	0.5872 0.7488	0.6419	Ave		0.6668			0.0500	11.0		15.0			
Pyridine	1.2317	1.1026 1.2779	1.1852 1.4178	1.1447 1.3639	1.1702	Ave		1.2367			0.0500	8.9		15.0			
Benzaldehyde	1.1249 1.0449	1.0583 1.0812	1.0682 1.1599	1.0922 1.0807	1.0839	Ave		1.0882			0.0500	3.2		15.0			
Phenol	1.4667	1.5399 1.5218	1.4167 1.6495	1.4394 1.6083	1.4943	Ave		1.5171			0.0500	5.3		15.0			
Aniline	1.8148	1.7784 1.9149	1.7438 2.0710	1.7565 2.0147	1.8540	Ave		1.8685			0.0500	6.5		15.0			
Bis(2-chloroethyl)ether	1.1033	1.2234 1.1759	1.1542 1.2689	1.1207 1.2266	1.1205	Ave		1.1742			0.0500	5.1		15.0			
2-Chlorophenol	1.1629	1.2275 1.2455	1.1526 1.3481	1.1518 1.2918	1.2072	Ave		1.2234			0.0500	5.8		15.0			
1,3-Dichlorobenzene	1.2781	1.2588 1.3219	1.2627 1.4607	1.2751 1.3977	1.3248	Ave		1.3225			0.0500	5.5		15.0			
1,4-Dichlorobenzene	1.3065	1.3310 1.3551	1.3000 1.4638	1.2381 1.4277	1.3723	Ave		1.3493			0.0500	5.4		15.0			
Benzyl alcohol	0.7618	0.7103 0.7799	0.7415 0.8771	0.7511 0.8324	0.7602	Ave		0.7768			0.0500	6.9		15.0			
1,2-Dichlorobenzene	1.2420	1.2455 1.2772	1.3006 1.3837	1.2478 1.3461	1.2559	Ave		1.2873			0.0500	4.1		15.0			
2-Methylphenol	1.0801	1.0155 1.1189	1.0441 1.2414	1.0430 1.1821	1.1117	Ave		1.1046			0.0500	6.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 81609

SDG No.:

Instrument ID: A4HP10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 18:04 Calibration End Date: 04/11/2013 21:19 Calibration ID: 14465

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
bis (2-chloroisopropyl) ether	1.7762	1.7526 1.7827	1.7706 1.9261	1.7716 1.8305	1.7485	Ave		1.7948			0.0500	3.3		15.0			
Indene	2.1892	2.2101 2.3103	2.1177 2.5233	2.2032 2.4546	2.2191	Ave		2.2784			0.0500	6.2		15.0			
3 & 4 Methylphenol	1.1463	0.9811 1.2044	1.0504 1.3031	1.1118 1.2655	1.1459	Ave		1.1511			0.0500	9.3		15.0			
N-Nitrosodi-n-propylamine	0.8163	0.7284 0.8309	0.8275 0.9342	0.7561 0.8767	0.8224	Ave		0.8241			0.0500	7.8		15.0			
Acetophenone	1.6837	1.6774 1.7441	1.6239 1.9230	1.5986 1.8236	1.6542	Ave		1.7161			0.0500	6.4		15.0			
Hexachloroethane	0.5024	0.4873 0.5185	0.5391 0.5799	0.4851 0.5583	0.5013	Ave		0.5215			0.0500	6.6		15.0			
Nitrobenzene	0.3393	0.2935 0.3397	0.3186 0.3686	0.3503 0.3739	0.3367	Ave		0.3401			0.0500	7.6		15.0			
Isophorone	0.6024	0.5382 0.6055	0.6003 0.6631	0.5893 0.6719	0.6114	Ave		0.6103			0.0500	6.9		15.0			
2-Nitrophenol	0.1688	0.1483 0.1670	0.1364 0.1821	0.1540 0.1824	0.1598	Ave		0.1624			0.0500	9.9		15.0			
2,4-Dimethylphenol	0.3088	0.3026 0.3127	0.2903 0.3293	0.3064 0.3322	0.3090	Ave		0.3114			0.0500	4.4		15.0			
Benzoic acid	0.1733	0.2118 0.1947	0.1207 0.2074	0.1332 0.2151	0.1529	Qua	-0.074	0.1579	0.0012		0.0500				0.9990		0.9950
Bis(2-chloroethoxy)methane	0.3578	0.3487 0.3609	0.3198 0.3926	0.3456 0.3911	0.3593	Ave		0.3595			0.0500	6.6		15.0			
2,4-Dichlorophenol	0.2592	0.2195 0.2599	0.2327 0.2892	0.2476 0.2809	0.2592	Ave		0.2560			0.0500	9.0		15.0			
1,2,4-Trichlorobenzene	0.2995	0.2868 0.2969	0.2893 0.3162	0.2946 0.3235	0.2918	Ave		0.2998			0.0500	4.4		15.0			
Naphthalene	0.9657 0.9168	0.8889 0.9018	0.8702 0.9805	0.9202 0.9845	0.9227	Ave		0.9279			0.0500	4.4		15.0			
4-Chloroaniline	0.3866	0.3451 0.3850	0.3615 0.4233	0.3894 0.4252	0.3775	Ave		0.3867			0.0500	7.1		15.0			
Hexachlorobutadiene	0.1829	0.1673 0.1847	0.1820 0.1945	0.1819 0.1972	0.1770	Ave		0.1834			0.0500	5.1		15.0			
Caprolactam	0.0866	0.0817 0.0836	0.0907 0.0919	0.0870 0.0878	0.0924	Ave		0.0877			0.0500	4.4		15.0			
4-Chloro-3-methylphenol	0.2777	0.2476 0.2755	0.2376 0.3075	0.2633 0.3071	0.2721	Ave		0.2736			0.0500	9.1		15.0			
2-Methylnaphthalene	0.6263 0.6202	0.5993 0.6159	0.5928 0.6767	0.6071 0.6784	0.6013	Ave		0.6242			0.0500	5.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 81609

SDG No.:

Instrument ID: A4HP10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 18:04 Calibration End Date: 04/11/2013 21:19 Calibration ID: 14465

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1-Methylnaphthalene	0.6328 0.5706	0.5272 0.5708	0.5726 0.6255	0.5674 0.6304	0.5711	Ave		0.5854			0.0500	6.2		15.0			
Hexachlorocyclopentadiene	0.3244	0.2458 0.3297	0.2857 0.3650	0.3036 0.3694	0.3168	Ave		0.3175			0.0500	13.0		15.0			
1,2,4,5-Tetrachlorobenzene	0.5296	0.4883 0.5279	0.5034 0.5791	0.5408 0.5648	0.5136	Ave		0.5309			0.0500	5.7		15.0			
2,4,6-Trichlorophenol	0.3362	0.2737 0.3312	0.3026 0.3733	0.3317 0.3699	0.3209	Ave		0.3299			0.0500	9.9		15.0			
2,4,5-Trichlorophenol	0.3490	0.2619 0.3582	0.3071 0.3906	0.3430 0.3868	0.3408	Ave		0.3422			0.0500	12.0		15.0			
1,1'-Biphenyl	1.4183 1.2888	1.2052 1.2646	1.1996 1.3914	1.2515 1.3602	1.2601	Ave		1.2933			0.0500	6.1		15.0			
2-Chloronaphthalene	1.0870 0.9665	0.8911 0.9648	0.9411 1.0574	0.9751 1.0424	0.9318	Ave		0.9841			0.0500	6.6		15.0			
2-Nitroaniline	0.3074	0.2641 0.3142	0.2773 0.3526	0.2742 0.3386	0.2927	Ave		0.3026			0.0500	10.0		15.0			
Dimethyl phthalate	1.1172	1.0846 1.1094	1.0775 1.2348	1.0545 1.2026	1.0662	Ave		1.1183			0.0500	5.9		15.0			
1,3-Dinitrobenzene	0.1862	0.1329 0.1901	0.1536 0.2183	0.1528 0.2170	0.1706	Qua	-0.030	0.1680	0.0021		0.0500				0.9980		0.9950
2,6-Dinitrotoluene	0.2553	0.1978 0.2525	0.2167 0.2807	0.2325 0.2829	0.2360	Ave		0.2443			0.0500	12.0		15.0			
Acenaphthylene	1.5800 1.5776	1.3588 1.5783	1.4670 1.7626	1.5518 1.7191	1.5090	Ave		1.5671			0.0500	7.8		15.0			
3-Nitroaniline	0.2749	0.2109 0.2839	0.2066 0.3187	0.2461 0.3064	0.2613	Lin1	-0.080	0.3031			0.0500				0.9960		0.9950
Acenaphthene	1.2630 1.0539	1.0224 1.0466	1.0199 1.1546	1.0598 1.1462	1.0353	Ave		1.0891			0.0500	7.5		15.0			
2,4-Dinitrophenol	0.1795	+++++ 0.1894	0.0973 0.2196	0.1260 0.2193	0.1543	Qua	-0.199	0.1674	0.0012		0.0500				0.9980		0.9950
4-Nitrophenol	0.1610	0.0978 0.1574	0.1282 0.1791	0.1442 0.1740	0.1493	Lin1	-0.093	0.1718			0.0500				0.9970		0.9950
2,4-Dinitrotoluene	0.3426	0.2407 0.3489	0.2497 0.3844	0.3036 0.3783	0.3175	Lin1	-0.104	0.3720			0.0500				0.9970		0.9950
Dibenzofuran	1.5111 1.4426	1.3728 1.4530	1.3994 1.5940	1.4588 1.5818	1.3965	Ave		1.4678			0.0500	5.4		15.0			
2,3,4,6-Tetrachlorophenol	0.3110	0.2471 0.3089	0.2793 0.3440	0.2794 0.3393	0.2821	Ave		0.2989			0.0500	11.0		15.0			
Diethyl phthalate	1.1246	1.1681 1.1197	1.1337 1.2355	1.1285 1.2237	1.1048	Ave		1.1548			0.0500	4.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 81609

SDG No.:

Instrument ID: A4HP10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 18:04 Calibration End Date: 04/11/2013 21:19 Calibration ID: 14465

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
4-Chlorophenyl phenyl ether	0.6262	0.5811 0.6191	0.6284 0.6858	0.6119 0.6730	0.5997	Ave		0.6282			0.0500	5.6		15.0			
4-Nitroaniline	0.2911	0.2107 0.2803	0.2421 0.3216	0.2520 0.3191	0.2726	Ave		0.2737			0.0500	14.0		15.0			
Fluorene	1.2068 1.1834	1.0566 1.1954	1.1679 1.3225	1.1615 1.2901	1.1557	Ave		1.1933			0.0500	6.5		15.0			
4,6-Dinitro-2-methylphenol	0.1289	0.0558 0.1298	0.0789 0.1464	0.0935 0.1440	0.1187	Lin1	-0.121	0.1418			0.0500				0.9960		0.9950
N-Nitrosodiphenylamine	0.4779	0.4226 0.4816	0.4399 0.5227	0.4584 0.5126	0.4667	Ave		0.4728			0.0500	7.2		15.0			
1,2-Diphenylhydrazine(as Azobenzene)	0.6336	0.5864 0.6369	0.6119 0.6928	0.6208 0.6699	0.6342	Ave		0.6357			0.0500	5.2		15.0			
Azobenzene	0.6300	0.5861 0.6367	0.6148 0.6928	0.6208 0.6699	0.6342	Ave		0.6357			0.0500	5.2		15.0			
4-Bromophenyl phenyl ether	0.1772	0.1512 0.1817	0.1713 0.1943	0.1799 0.1920	0.1797	Ave		0.1784			0.0500	7.5		15.0			
Hexachlorobenzene	0.1691 0.1781	0.1726 0.1763	0.1809 0.1922	0.1793 0.1925	0.1863	Ave		0.1808			0.0500	4.5		15.0			
Atrazine	0.1849	0.1560 0.1790	0.1710 0.1902	0.1834 0.1823	0.1882	Ave		0.1794			0.0500	6.2		15.0			
Pentachlorophenol	0.1241	0.0810 0.1209	0.1010 0.1378	0.1095 0.1363	0.1237	Lin1	-0.067	0.1333			0.0500				0.9970		0.9950
Phenanthrene	1.0188 0.9071	0.8521 0.9132	0.8991 0.9840	0.9034 0.9567	0.9132	Ave		0.9275			0.0500	5.4		15.0			
Anthracene	0.8866 0.9311	0.8129 0.9350	0.8807 1.0202	0.9153 0.9938	0.9240	Ave		0.9222			0.0500	6.6		15.0			
Carbazole	0.8333	0.7825 0.8346	0.8332 0.9127	0.8519 0.9019	0.8485	Ave		0.8498			0.0500	4.9		15.0			
Di-n-butyl phthalate	1.0417	0.9286 1.0511	1.0070 1.1526	0.9779 1.1240	1.0335	Ave		1.0396			0.0500	7.0		15.0			
Fluoranthene	1.2068 1.0921	0.9771 1.1054	0.9808 1.2065	1.0529 1.1632	1.0622	Ave		1.0941			0.0500	7.9		15.0			
Benzidine	0.4161	0.4013 0.4157	0.4486 0.4161	0.4405 0.3769	0.4112	Ave		0.4158			0.0500	5.3		15.0			
Pyrene	1.1083 1.0141	0.9348 1.0253	0.9799 1.1136	1.0313 1.0851	1.0047	Ave		1.0330			0.0500	5.8		15.0			
Butyl benzyl phthalate	0.4117	0.3030 0.4168	0.3398 0.4566	0.3721 0.4485	0.3999	Ave		0.3936			0.0500	13.0		15.0			
3,3'-Dichlorobenzidine	0.3376	0.2357 0.3430	0.2856 0.3836	0.3147 0.3787	0.3322	Ave		0.3264			0.0500	15.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 81609

SDG No.:

Instrument ID: A4HP10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 18:04 Calibration End Date: 04/11/2013 21:19 Calibration ID: 14465

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Bis(2-ethylhexyl) phthalate	0.5850	0.4275 0.5823	0.4824 0.6460	0.5244 0.6268	0.5552	Ave		0.5537			0.0500	13.0		15.0			
Benzo[a]anthracene	1.1431 0.9655	0.9030 0.9806	0.9516 1.0563	0.9662 1.0338	0.9569	Ave		0.9952			0.0500	7.2		15.0			
Chrysene	1.0360 0.9055	0.7835 0.9036	0.8447 0.9781	0.8976 0.9717	0.9006	Ave		0.9135			0.0500	8.2		15.0			
Di-n-octyl phthalate	1.1402	0.6157 1.1916	0.7191 1.3337	0.9151 1.3173	1.0931	Lin1	-0.503	1.2895			0.0500				0.9960		0.9950
Benzo[b]fluoranthene	0.9596 1.1087	0.8533 1.1495	0.9760 1.2207	1.0128 1.2714	1.1098	Ave		1.0735			0.0500	12.0		15.0			
Benzo[k]fluoranthene	0.9973 1.2058	1.0290 1.2586	1.0981 1.3653	1.1232 1.2605	1.1718	Ave		1.1677			0.0500	10.0		15.0			
Benzo[a]pyrene	0.7710 1.0493	0.8163 1.1001	0.9005 1.2052	0.9519 1.1607	1.0154	Ave		0.9967			0.0500	15.0		15.0			
Indeno[1,2,3-cd]pyrene	1.0612 1.1113	0.9120 1.1724	0.9325 1.2859	1.0117 1.2372	1.1157	Ave		1.0933			0.0500	12.0		15.0			
Dibenz(a,h)anthracene	0.8994 0.9219	0.7442 0.9816	0.7837 1.0774	0.8281 1.0500	0.9168	Ave		0.9115			0.0500	12.0		15.0			
Benzo[g,h,i]perylene	1.0643 0.9223	0.7994 0.9679	0.8200 1.0501	0.8306 1.0224	0.9211	Ave		0.9331			0.0500	11.0		15.0			
2-Fluorophenol (Surr)	1.1122	1.1195 1.1595	1.1312 1.2756	1.0965 1.2281	1.1353	Ave		1.1572			0.0500	5.4		15.0			
Phenol-d5 (Surr)	1.4695	1.6278 1.5416	1.5768 1.6570	1.3868 1.6105	1.4692	Ave		1.5424			0.0500	6.1		15.0			
Nitrobenzene-d5 (Surr)	0.4885 0.3570	0.3269 0.3625	0.3360 0.3934	0.3463 0.3939	0.3617	Ave		0.3740			0.0500	13.0		15.0			
2-Fluorobiphenyl (Surr)	1.6664 1.2044	1.1980 1.2195	1.2253 1.3427	1.2459 1.3189	1.1859	Ave		1.2897			0.0500	12.0		15.0			
2,4,6-Tribromophenol (Surr)	0.1455	0.1370 0.1470	0.1406 0.1633	0.1415 0.1593	0.1364	Ave		0.1463			0.0500	6.8		15.0			
Terphenyl-d14 (Surr)	1.0628 0.7324	0.8004 0.7342	0.7073 0.8019	0.7462 0.7796	0.7182	Ave		0.7870			0.0500	14.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 81609

SDG No.:

Instrument ID: A4HP10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 18:04 Calibration End Date: 04/11/2013 21:19 Calibration ID: 14465

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-81609/6	30411006.D
Level 2	STD2 240-81609/5	30411005.D
Level 3	STD3 240-81609/4	30411004.D
Level 4	STD4 240-81609/3	30411003.D
Level 5	STD5 240-81609/2	30411002.D
Level 6	STD6 240-81609/10	30411010.D
Level 7	STD7 240-81609/9	30411009.D
Level 8	STD8 240-81609/8	30411008.D
Level 9	STD9 240-81609/7	30411007.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,4-Dioxane	DCB	Lin1	236614	16216 318938	22470 456631	47473 613896	113217	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
N-Nitrosodimethylamine	DCB	Ave	312475	11935 431177	21220 617209	48714 838090	132532	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Pyridine	DCB	Ave	574011	21426 761099	43683 1133431	94956 1526421	241604	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzaldehyde	DCB	Ave	9652 973909	41129 1287806	78743 1854574	181212 2419130	447558	0.200 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Phenol	DCB	Ave	683517	29924 906309	52217 1318676	119402 1800015	308524	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Aniline	DCB	Ave	845753	34557 1140436	64273 1655621	145706 2254888	382787	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Bis(2-chloroethyl)ether	DCB	Ave	514179	23772 700352	42542 1014397	92963 1372859	231353	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Chlorophenol	DCB	Ave	541952	23853 741747	42482 1077716	95545 1445797	249252	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,3-Dichlorobenzene	DCB	Ave	595610	24460 787251	46541 1167765	105773 1564313	273536	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,4-Dichlorobenzene	DCB	Ave	608860	25863 807048	47915 1170215	102704 1597863	283326	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzyl alcohol	DCB	Ave	355010	13802 464490	27328 701146	62306 931573	156954	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2-Dichlorobenzene	DCB	Ave	578791	24202 760626	47938 1106213	103511 1506525	259307	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Methylphenol	DCB	Ave	503367	19733 666396	38481 992388	86519 1322999	229526	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
bis (2-chloroisopropyl) ether	DCB	Ave	827782	34056 1061693	65259 1539760	146959 2048685	361011	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 81609

SDG No.:

Instrument ID: A4HP10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 18:04 Calibration End Date: 04/11/2013 21:19 Calibration ID: 14465

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Indene	DCB	Ave	2040512	85891 2751804	156104 4034385	365529 5494399	916354	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
3 & 4 Methylphenol	DCB	Ave	534212	19065 717322	38715 1041736	92225 1416340	236586	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
N-Nitrosodi-n-propylamine	DCB	Ave	380422	14155 494855	30501 746863	62719 981255	169804	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Acetophenone	DCB	Ave	784632	32595 1038746	59854 1537279	132615 2040968	341535	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachloroethane	DCB	Ave	234155	9469 308811	19869 463611	40239 624884	103497	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Nitrobenzene	NPT	Ave	602745	22083 798340	45496 1174656	109090 1602028	266273	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Isophorone	NPT	Ave	1069946	40501 1422719	85728 2113040	183544 2878480	483451	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Nitrophenol	NPT	Ave	299767	11162 392319	19477 580438	47968 781408	126382	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dimethylphenol	NPT	Ave	548402	22771 734837	41451 1049259	95441 1423353	244364	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzoic acid	NPT	Qua	615619	31871 915153	34463 1321942	82973 1843013	241835	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Bis(2-chloroethoxy)methane	NPT	Ave	635518	26240 847988	45666 1251022	107632 1675745	284126	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dichlorophenol	NPT	Ave	460330	16521 610741	33229 921670	77111 1203520	204934	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2,4-Trichlorobenzene	NPT	Ave	532016	21585 697687	41318 1007617	91758 1386001	230746	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Naphthalene	NPT	Ave	15367 1628498	66890 2119044	124268 3124385	286602 4217741	729643	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Chloroaniline	NPT	Ave	686669	25968 904763	51618 1349033	121294 1821542	298492	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachlorobutadiene	NPT	Ave	324885	12593 434009	25988 619873	56648 844773	139989	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Caprolactam	NPT	Ave	307578	12290 393097	25916 585692	54163 752059	146197	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
4-Chloro-3-methylphenol	NPT	Ave	493306	18631 647307	33930 979841	82015 1315867	215149	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Methylnaphthalene	NPT	Ave	9966 1101656	45100 1447157	84651 2156428	189083 2906370	475473	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1-Methylnaphthalene	NPT	Ave	10070 1013523	39669 1341167	81772 1993146	176733 2701042	451635	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachlorocyclopentadiene	ANT	Ave	352302	11210 473002	24092 703575	56659 973410	154932	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 81609

SDG No.:

Instrument ID: A4HP10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 18:04 Calibration End Date: 04/11/2013 21:19 Calibration ID: 14465

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,2,4,5-Tetrachlorobenzene	ANT	Ave	575040	22274 757357	42448 1116276	100934 1488320	251173	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,6-Trichlorophenol	ANT	Ave	365061	12486 475201	25520 719538	61912 974731	156928	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,5-Trichlorophenol	ANT	Ave	378966	11947 513976	25900 752941	64027 1019196	166638	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,1'-Biphenyl	ANT	Ave	13819 1399472	54974 1814335	101163 2682254	233588 3584486	616231	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Chloronaphthalene	ANT	Ave	10591 1049493	40645 1384207	79364 2038401	181990 2746950	455687	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Nitroaniline	ANT	Ave	333811	12047 450748	23386 679648	51178 892305	143157	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dimethyl phthalate	ANT	Ave	1213193	49472 1591726	90860 2380318	196808 3169045	521385	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,3-Dinitrobenzene	ANT	Qua	202189	6063 272790	12949 420859	28524 571915	83408	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,6-Dinitrotoluene	ANT	Ave	277211	9021 362216	18273 541120	43396 745495	115405	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Acenaphthylene	ANT	Ave	15394 1713120	61980 2264456	123712 3397756	289640 4530188	737944	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
3-Nitroaniline	ANT	Lin1	298459	9622 407279	17426 614393	45929 807490	127765	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Acenaphthene	ANT	Ave	12306 1144426	46636 1501648	86005 2225735	197799 3020416	506282	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dinitrophenol	ANT	Qua	389816	+++++ 543421	16415 846839	47020 1155637	150881	20.0	+++++ 30.0	2.00 40.0	4.00 50.0	10.0
4-Nitrophenol	ANT	Lin1	349554	8926 451620	21620 690447	53838 916895	146003	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
2,4-Dinitrotoluene	ANT	Lin1	371972	10980 500634	21056 741070	56656 996826	155258	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dibenzofuran	ANT	Ave	14723 1566499	62615 2084699	118010 3072843	272285 4168388	682932	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,3,4,6-Tetrachlorophenol	ANT	Ave	337721	11272 443171	23549 663232	52142 894135	137950	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Diethyl phthalate	ANT	Ave	1221169	53280 1606486	95600 2381820	210620 3224659	540269	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Chlorophenyl phenyl ether	ANT	Ave	679997	26505 888302	52994 1322001	114212 1773518	293256	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Nitroaniline	ANT	Ave	316074	9611 402223	20418 619876	47031 840862	133302	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Fluorene	ANT	Ave	11758 1285001	48194 1715125	98484 2549442	216784 3399694	565180	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 81609

SDG No.:

Instrument ID: A4HP10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 18:04 Calibration End Date: 04/11/2013 21:19 Calibration ID: 14465

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
4,6-Dinitro-2-methylphenol	PHN	Lin1	521792	9577 687048	24885 1067240	64543 1444264	208660	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
N-Nitrosodiphenylamine	PHN	Ave	1935122	72547 2548336	138810 3811548	316413 5139794	820810	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
1,2-Diphenylhydrazine(as Azobenzene)	PHN	Ave	1282930	50341 1684936	96537 2525643	214273 3358653	557654	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Azobenzene	PHN	Ave	1275629	50309 1684573	96999 2525643	214273 3358700	557619	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Bromophenyl phenyl ether	PHN	Ave	358827	12979 480803	27021 708183	62072 962693	158021	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachlorobenzene	PHN	Ave	3107 360567	14818 466336	28543 700791	61873 965125	163849	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Atrazine	PHN	Ave	748683	26777 947131	53965 1386960	126618 1827685	331047	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Pentachlorophenol	PHN	Lin1	502665	13906 639454	31861 1004742	75597 1367227	217571	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Phenanthrene	PHN	Ave	18717 1836638	73146 2415849	141845 3587420	311780 4796788	802921	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Anthracene	PHN	Ave	16288 1885354	69781 2473597	138944 3719428	315893 4982659	812471	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Carbazole	PHN	Ave	1687265	67174 2208075	131456 3327408	294031 4521809	746052	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Di-n-butyl phthalate	PHN	Ave	2109283	79716 2780848	158879 4202076	337508 5635613	908739	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Fluoranthene	PHN	Ave	22172 2211161	83881 2924418	154743 4398503	363378 5831952	933990	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzidine	CRY	Ave	1838302	71149 2393102	146604 3323668	322117 4153761	789265	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Pyrene	CRY	Ave	20499 2239972	82865 2951426	160116 4447349	377058 5979420	964230	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Butyl benzyl phthalate	CRY	Ave	909395	26854 1199894	55525 1823367	136037 2471624	383811	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
3,3'-Dichlorobenzidine	CRY	Ave	1491428	41792 1974516	93330 3063990	230130 4172967	637656	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Bis(2-ethylhexyl) phthalate	CRY	Ave	1292173	37896 1676382	78819 2580079	191723 3454084	532849	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[a]anthracene	CRY	Ave	21142 2132546	80043 2822861	155494 4218541	353258 5696707	918310	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Chrysene	CRY	Ave	19161 1999965	69446 2601044	138022 3906119	328187 5354526	864351	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Di-n-octyl phthalate	PRY	Lin1	1981231	42479 2634916	93267 4175696	269976 5738584	828145	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 81609

SDG No.:

Instrument ID: A4HP10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 18:04 Calibration End Date: 04/11/2013 21:19 Calibration ID: 14465

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Benzo[b]fluoranthene	PRY	Ave	14443 1926505	58877 2541953	126589 3822093	298800 5538757	840758	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[k]fluoranthene	PRY	Ave	15010 2095142	70996 2783215	142426 4274606	331366 5491211	887719	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[a]pyrene	PRY	Ave	11605 1823222	56321 2432666	116802 3773468	280829 5056335	769294	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	15972 1931031	62924 2592538	120947 4025972	298487 5389622	845237	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dibenz(a,h)anthracene	PRY	Ave	13537 1601821	51347 2170597	101656 3373446	244309 4574297	694560	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[g,h,i]perylene	PRY	Ave	16019 1602658	55155 2140344	106360 3287841	245044 4453982	697853	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Fluorophenol (Surr)	DCB	Ave	 518302	21754 690564	41692 1019750	90958 1374472	234391	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Phenol-d5 (Surr)	DCB	Ave	 684817	31631 918111	58117 1324647	115038 1802479	303341	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Nitrobenzene-d5 (Surr)	NPT	Ave	7773 634034	24603 851694	47979 1253671	107870 1687586	285992	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Fluorobiphenyl (Surr)	ANT	Ave	16236 1307821	54644 1749682	103329 2588455	232548 3475644	579916	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,6-Tribromophenol (Surr)	ANT	Ave	 158023	6248 210950	11857 314870	26408 419685	66719	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Terphenyl-d14 (Surr)	CRY	Ave	19657 1617749	70948 2113488	115574 3202684	272821 4296101	689248	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411002.D		
Lims ID:	std5 lst1	Client ID:	
Inject. Date:	11-Apr-2013 18:04:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	240-0018790-002		
Misc. Info.:	STD5 LST1 =STD5 LST1		
Operator:	001710	Instrument ID:	A4HP10
Injection Vol:	1.0 ul	ALS Bottle#:	2
Lims Batch ID:	81609	Lims Sample ID:	2
Sublist:	chrom-8270_10*sub27		
Detector:	MS SCAN		
Method:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\8270_10.m		
Last Update:	12-Apr-2013 09:42:30	Calib Date:	12-Apr-2013 00:58:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK010		
First Level Reviewer: gruberj		Date:	12-Apr-2013 08:29:48

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.948	5.948	0.0	99	165173	4.00	
* 2 Naphthalene-d8	136	7.064	7.064	0.0	100	632615	4.00	
* 3 Acenaphthene-d10	164	8.562	8.562	0.0	91	391217	4.00	
* 4 Phenanthrene-d10	188	9.832	9.832	0.0	98	703426	4.00	
* 5 Chrysene-d12	240	12.434	12.434	0.0	82	767759	4.00	
* 6 Perylene-d12	264	14.561	14.561	0.0	98	606079	4.00	
$ 7 2-Fluorophenol	112	4.708	4.708	0.0	93	234391	4.91	
$ 8 Phenol-d5	99	5.583	5.583	0.0	96	303341	4.76	
$ 9 Nitrobenzene-d5	82	6.430	6.430	0.0	89	285992	4.83	
$ 10 2-Fluorobiphenyl (Surr)	172	7.975	7.975	0.0	98	579916	4.60	
$ 11 2,4,6-Tribromophenol	330	9.232	9.232	0.0	88	66719	4.66	
$ 12 Terphenyl-d14	244	11.206	11.206	0.0	99	689248	4.56	
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
247 Hexadecane	57		0.000					
25 1,4-Dioxane	88	2.605	2.605	0.0	87	113217	4.89	M
26 N-Nitrosodimethylamine	74	3.080	3.080	0.0	84	132532	4.81	
27 Pyridine	79	3.127	3.127	0.0	93	241604	4.73	M
41 Benzaldehyde	77	5.554	5.554	0.0	90	447558	9.96	
43 Phenol	94	5.595	5.595	0.0	93	308524	4.92	
44 Aniline	93	5.648	5.648	0.0	95	382787	4.96	
45 Bis(2-chloroethyl)ether	93	5.701	5.701	0.0	94	231353	4.77	
47 2-Chlorophenol	128	5.754	5.754	0.0	97	249252	4.93	
48 1,3-Dichlorobenzene	146	5.901	5.901	0.0	96	273536	5.01	
49 1,4-Dichlorobenzene	146	5.965	5.965	0.0	92	283326	5.09	
50 Benzyl alcohol	108	6.054	6.054	0.0	87	156954	4.89	
51 1,2-Dichlorobenzene	146	6.101	6.101	0.0	94	259307	4.88	
52 2-Methylphenol	108	6.142	6.142	0.0	97	229526	5.03	
53 Indene	115	6.177	6.177	0.0	75	916354	9.74	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
54 2,2'-oxybis[1-chloropropane]	45	6.177	6.177	0.0	55	361011	4.87	
56 3 & 4 Methylphenol	108	6.271	6.271	0.0	95	236586	4.98	
57 N-Nitrosodi-n-propylamine	70	6.289	6.289	0.0	89	169804	4.99	
58 Acetophenone	105	6.294	6.294	0.0	88	341535	4.82	
61 Hexachloroethane	117	6.400	6.400	0.0	93	103497	4.81	
62 Nitrobenzene	77	6.447	6.447	0.0	89	266273	4.95	
64 Isophorone	82	6.653	6.653	0.0	97	483451	5.01	
66 2-Nitrophenol	139	6.723	6.723	0.0	94	126382	4.92	
65 2,4-Dimethylphenol	107	6.741	6.741	0.0	95	244364	4.96	
70 Benzoic acid	122	6.770	6.770	0.0	84	241835	9.47	M
69 Bis(2-chloroethoxy)methane	93	6.829	6.829	0.0	97	284126	5.00	
72 2,4-Dichlorophenol	162	6.923	6.923	0.0	95	204934	5.06	
73 1,2,4-Trichlorobenzene	180	7.005	7.005	0.0	93	230746	4.87	
74 Naphthalene	128	7.082	7.082	0.0	97	729643	4.97	
75 4-Chloroaniline	127	7.111	7.111	0.0	83	298492	4.88	
78 Hexachlorobutadiene	225	7.176	7.176	0.0	95	139989	4.83	
83 Caprolactam	113	7.393	7.393	0.0	72	146197	10.5	
85 4-Chloro-3-methylphenol	107	7.505	7.505	0.0	91	215149	4.97	
87 2-Methylnaphthalene	142	7.669	7.669	0.0	80	475473	4.82	
88 1-Methylnaphthalene	142	7.757	7.757	0.0	81	451635	4.88	
89 Hexachlorocyclopentadiene	237	7.799	7.799	0.0	91	154932	4.99	
92 1,2,4,5-Tetrachlorobenzene	216	7.810	7.810	0.0	93	251173	4.84	
93 2,4,6-Trichlorophenol	196	7.898	7.898	0.0	91	156928	4.86	
94 2,4,5-Trichlorophenol	196	7.928	7.928	0.0	95	166638	4.98	
98 1,1'-Biphenyl	154	8.063	8.063	0.0	96	616231	4.87	
100 2-Chloronaphthalene	162	8.086	8.086	0.0	97	455687	4.73	
102 2-Nitroaniline	65	8.163	8.163	0.0	83	143157	4.84	
105 Dimethyl phthalate	163	8.304	8.304	0.0	98	521385	4.77	
106 1,3-Dinitrobenzene	168	8.333	8.333	0.0	81	83408	4.95	
107 2,6-Dinitrotoluene	165	8.357	8.357	0.0	79	115405	4.83	
109 Acenaphthylene	152	8.445	8.445	0.0	95	737944	4.81	
110 3-Nitroaniline	138	8.510	8.510	0.0	92	127765	4.57	
112 Acenaphthene	153	8.592	8.592	0.0	89	506282	4.75	
111 2,4-Dinitrophenol	184	8.592	8.592	0.0	64	150881	9.73	
113 4-Nitrophenol	109	8.615	8.615	0.0	94	146003	9.23	
114 2,4-Dinitrotoluene	165	8.703	8.703	0.0	90	155258	4.55	
116 Dibenzofuran	168	8.739	8.739	0.0	86	682932	4.76	
119 2,3,4,6-Tetrachlorophenol	232	8.833	8.833	0.0	68	137950	4.72	
121 Diethyl phthalate	149	8.897	8.897	0.0	97	540269	4.78	
123 4-Chlorophenyl phenyl ether	204	9.015	9.015	0.0	91	293256	4.77	
126 Fluorene	166	9.032	9.032	0.0	83	565180	4.84	
125 4-Nitroaniline	138	9.027	9.027	0.0	78	133302	4.98	
128 4,6-Dinitro-2-methylphenol	198	9.050	9.050	0.0	85	208660	9.22	
129 N-Nitrosodiphenylamine	169	9.115	9.115	0.0	98	820810	9.87	
132 Azobenzene	77	9.150	9.150	0.0	99	557619	4.99	
131 1,2-Diphenylhydrazine	77	9.150	9.150	0.0	97	557654	4.99	
139 4-Bromophenyl phenyl ether	248	9.438	9.438	0.0	62	158021	5.04	
141 Hexachlorobenzene	284	9.497	9.497	0.0	92	163849	5.15	
142 Atrazine	200	9.549	9.549	0.0	94	331047	10.5	
144 Pentachlorophenol	266	9.655	9.655	0.0	88	217571	9.78	
149 Phenanthrene	178	9.855	9.855	0.0	97	802921	4.92	
150 Anthracene	178	9.896	9.896	0.0	98	812471	5.01	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
152 Carbazole	167	10.020	10.020	0.0	83	746052	4.99	
155 Di-n-butyl phthalate	149	10.284	10.284	0.0	100	908739	4.97	
160 Fluoranthene	202	10.871	10.871	0.0	98	933990	4.85	
161 Benzidine	184	10.971	10.971	0.0	98	789265	9.89	
162 Pyrene	202	11.089	11.089	0.0	97	964230	4.86	
170 Butyl benzyl phthalate	149	11.700	11.700	0.0	98	383811	5.08	
177 3,3'-Dichlorobenzidine	252	12.370	12.370	0.0	66	637656	10.2	
175 Bis(2-ethylhexyl) phthalate	149	12.399	12.399	0.0	96	532849	5.01	
179 Benzo[a]anthracene	228	12.423	12.423	0.0	86	918310	4.81	
180 Chrysene	228	12.470	12.470	0.0	93	864351	4.93	
182 Di-n-octyl phthalate	149	13.333	13.333	0.0	100	828145	4.63	
184 Benzo[b]fluoranthene	252	13.962	13.962	0.0	85	840758	5.17	
185 Benzo[k]fluoranthene	252	14.003	14.003	0.0	89	887719	5.02	
186 Benzo[a]pyrene	252	14.473	14.473	0.0	76	769294	5.09	
190 Indeno[1,2,3-cd]pyrene	276	16.259	16.259	0.0	83	845237	5.10	
191 Dibenz(a,h)anthracene	278	16.295	16.295	0.0	78	694560	5.03	
192 Benzo[g,h,i]perylene	276	16.729	16.729	0.0	81	697853	4.94	
S 193 Methyl Phenols,Total	100				0		10.0	

QC Flag Legend

Review Flags
M - Manually Integrated

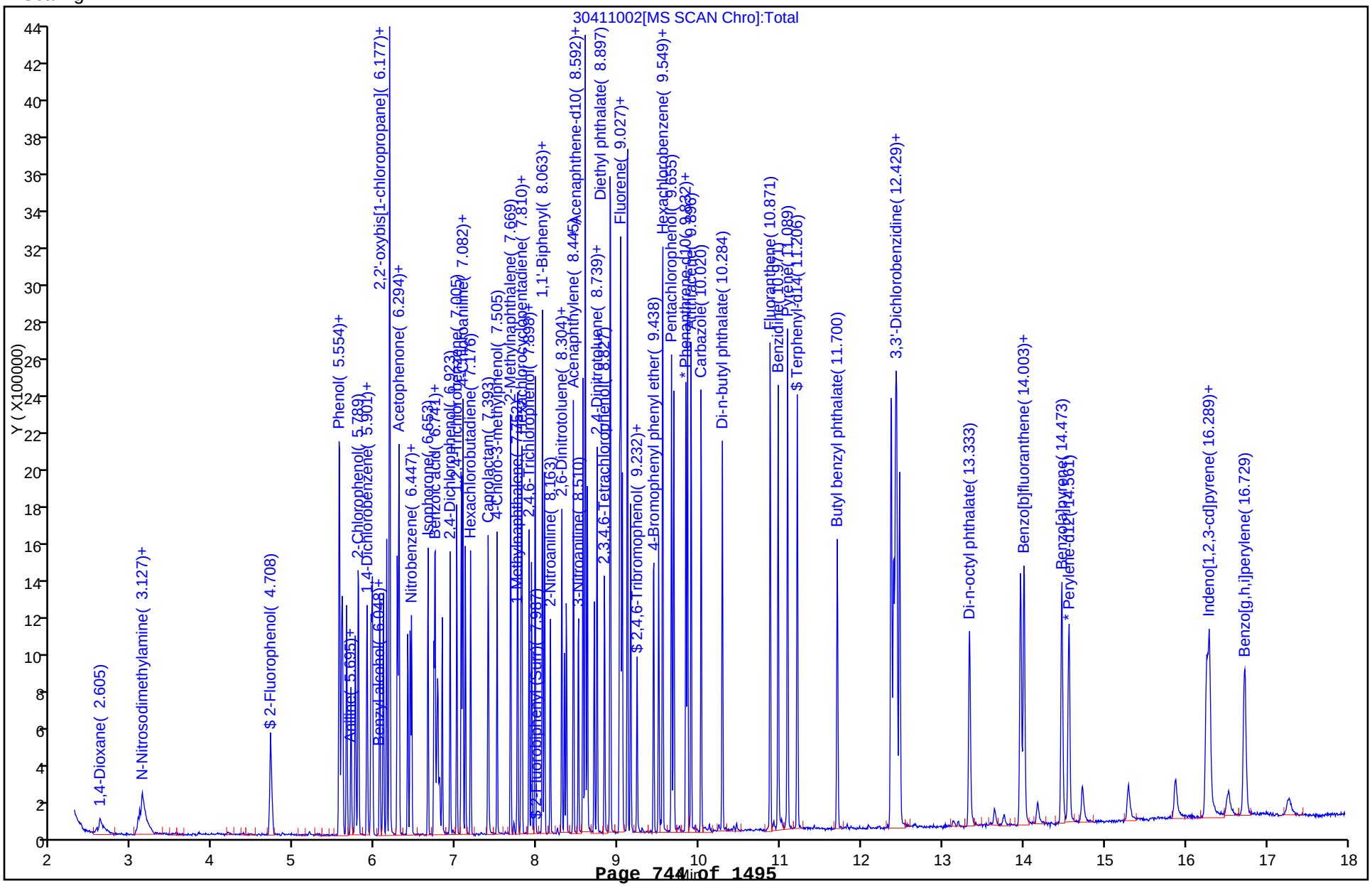
Report Date: 12-Apr-2013 09:42:30 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411002.D

Injection Date:	11-Apr-2013 18:04:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	2
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

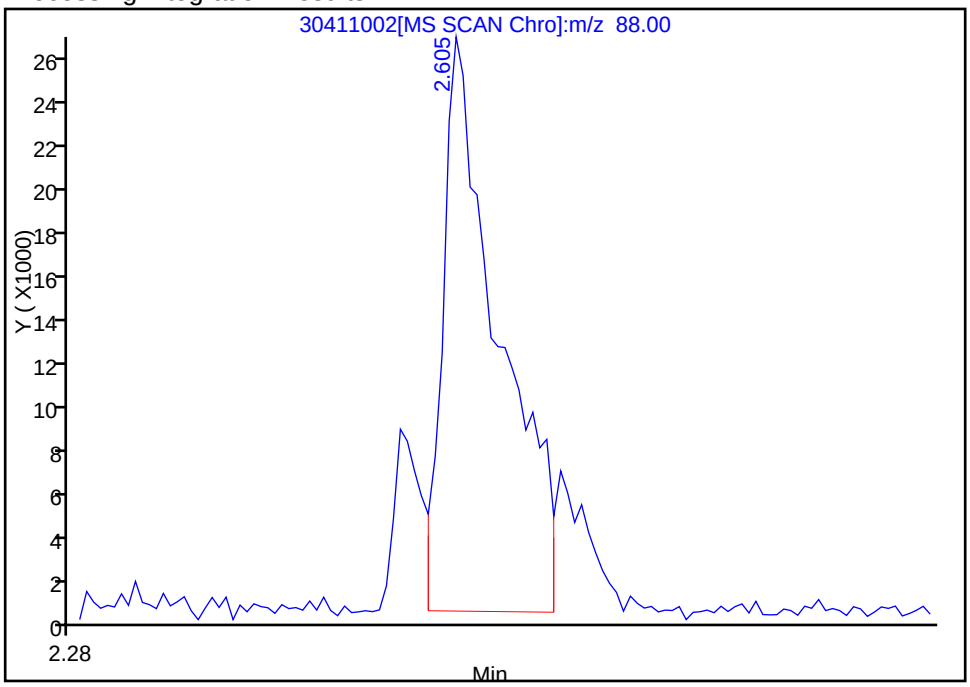
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411002.D		
Injection Date:	11-Apr-2013 18:04:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	2
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

25 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 2.60

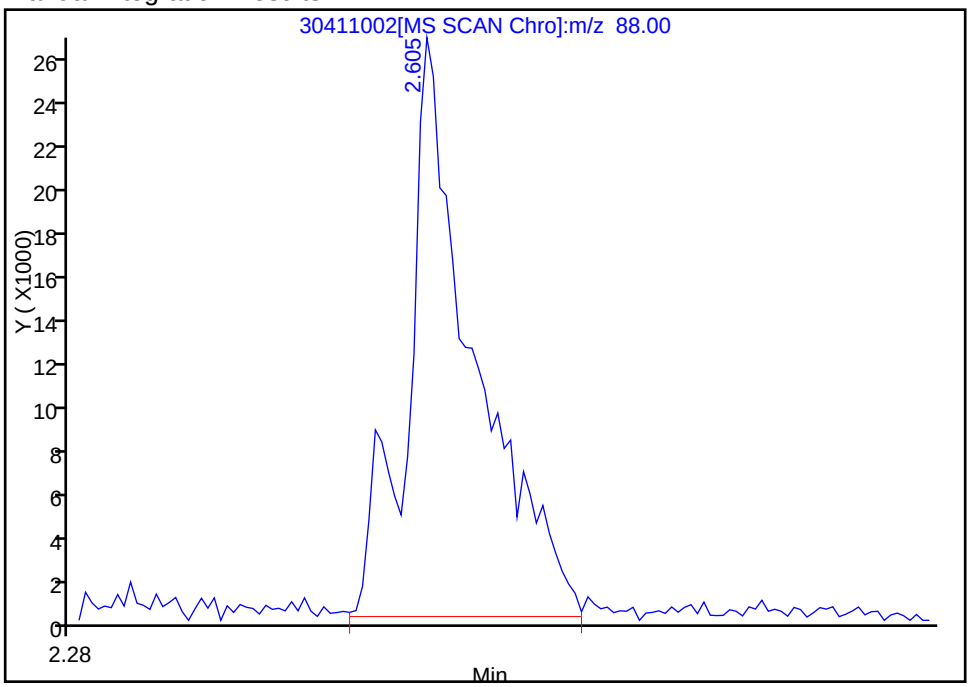
Processing Integration Results

RT: 2.60
Response: 87616
Amount: 4.753622



Manual Integration Results

RT: 2.60
Response: 113217
Amount: 4.891175



Reviewer: gruberj, 12-Apr-2013 08:39:53
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

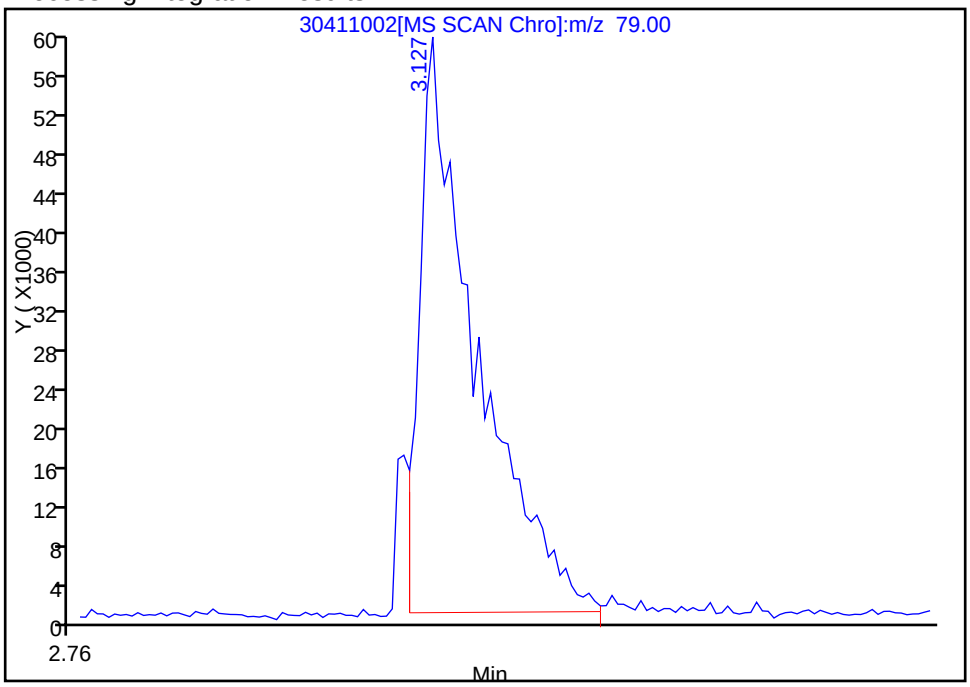
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411002.D		
Injection Date:	11-Apr-2013 18:04:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	2
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

27 Pyridine, Signal: 1, m/z: 79.0 Type: quant, RT: 3.13

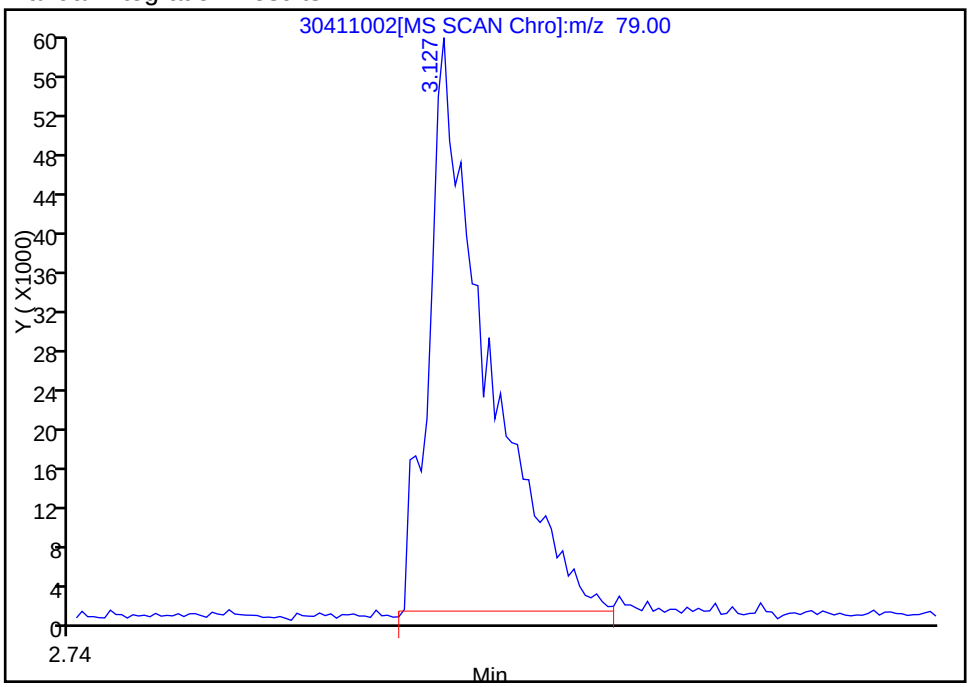
Processing Integration Results

RT: 3.13
Response: 232791
Amount: 4.693698



Manual Integration Results

RT: 3.13
Response: 241604
Amount: 4.730908



Reviewer: gruberj, 12-Apr-2013 08:39:53
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

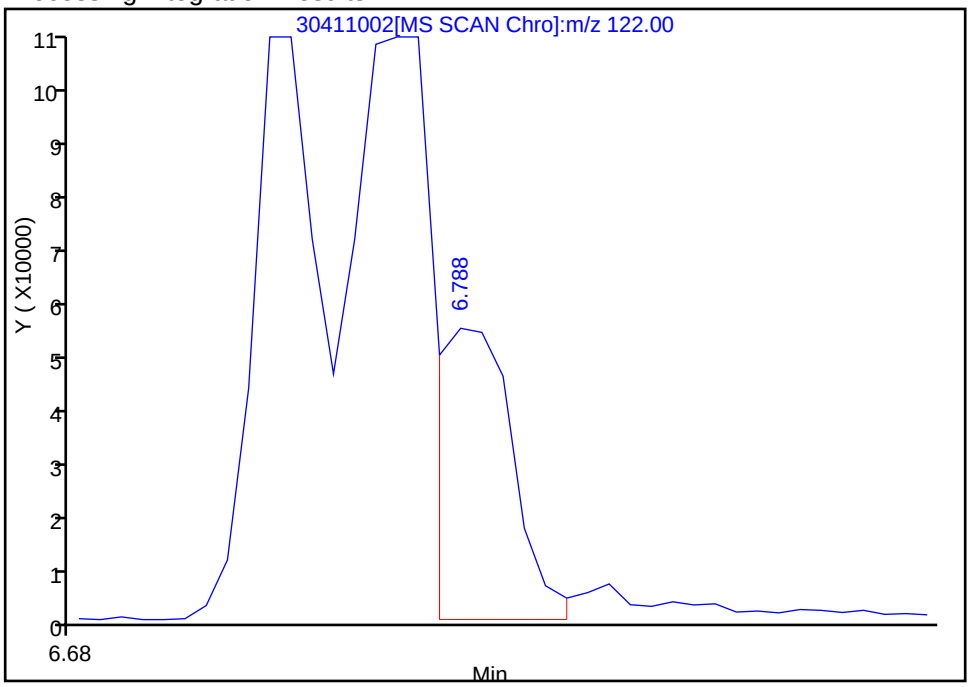
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411002.D		
Injection Date:	11-Apr-2013 18:04:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	2
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

70 Benzoic acid, Signal: 1, m/z: 122.0 Type: quant, RT: 6.77

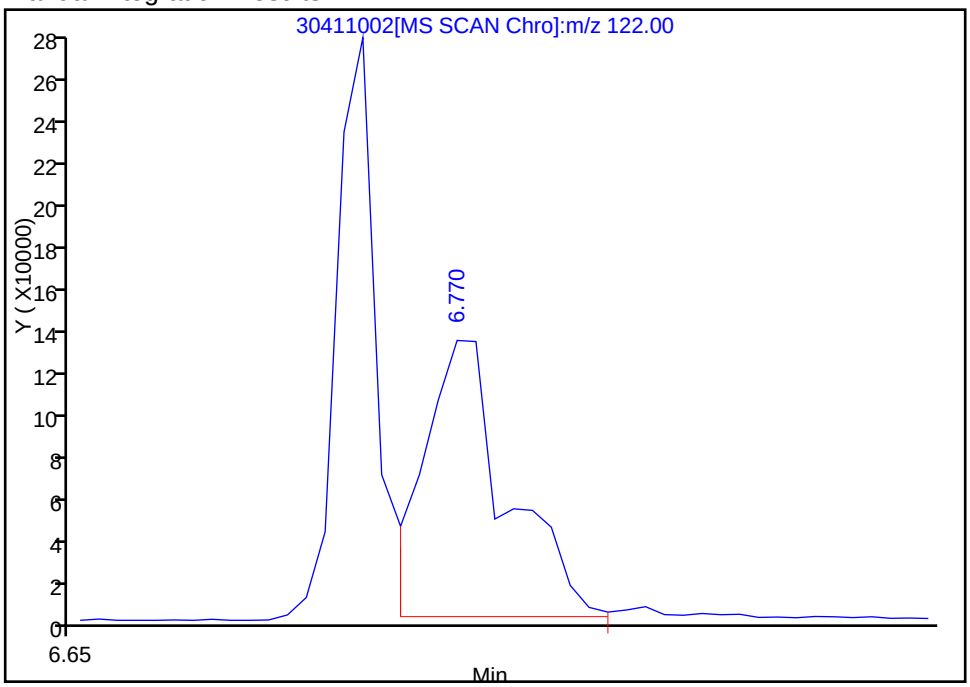
Processing Integration Results

RT: 6.79
Response: 78855
Amount: 4.560751



Manual Integration Results

RT: 6.77
Response: 241835
Amount: 9.465727



Reviewer: gruberj, 12-Apr-2013 08:39:53
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411003.D		
Lims ID:	std4 lst1	Client ID:	
Inject. Date:	11-Apr-2013 18:28:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	240-0018790-003		
Misc. Info.:	STD4 LST1 =CCV AP9		
Operator:	001710	Instrument ID:	A4HP10
Injection Vol:	1.0 ul	ALS Bottle#:	3
Lims Batch ID:	81609	Lims Sample ID:	3
Sublist:	chrom-8270_10*sub27		
Detector:	MS SCAN		
Method:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\8270_10.m		
Last Update:	12-Apr-2013 09:42:32	Calib Date:	12-Apr-2013 00:58:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK010		
First Level Reviewer: gruberj		Date:	12-Apr-2013 08:40:47

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.948	5.948	0.0	99	165909	4.00	
* 2 Naphthalene-d8	136	7.064	7.064	0.0	100	622921	4.00	
* 3 Acenaphthene-d10	164	8.562	8.562	0.0	91	373289	4.00	
* 4 Phenanthrene-d10	188	9.832	9.832	0.0	98	690264	4.00	
* 5 Chrysene-d12	240	12.434	12.434	0.0	80	731217	4.00	
* 6 Perylene-d12	264	14.561	14.561	0.0	83	590050	4.00	
$ 7 2-Fluorophenol	112	4.708	4.708	0.0	92	90958	1.90	
$ 8 Phenol-d5	99	5.584	5.583	0.001	95	115038	1.80	
$ 9 Nitrobenzene-d5	82	6.430	6.430	0.0	93	107870	1.85	
$ 10 2-Fluorobiphenyl (Surr)	172	7.975	7.975	0.0	99	232548	1.93	
$ 11 2,4,6-Tribromophenol	330	9.232	9.232	0.0	87	26408	1.93	
$ 12 Terphenyl-d14	244	11.206	11.206	0.0	98	272821	1.90	
247 Hexadecane	57		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
25 1,4-Dioxane	88	2.599	2.605	-0.006	57	47473	1.93	M
26 N-Nitrosodimethylamine	74	3.081	3.080	0.001	0	48714	1.76	M
27 Pyridine	79	3.139	3.127	0.012	85	94956	1.85	
41 Benzaldehyde	77	5.554	5.554	0.0	88	181212	4.01	
43 Phenol	94	5.595	5.595	0.0	92	119402	1.90	
44 Aniline	93	5.648	5.648	0.0	94	145706	1.88	
45 Bis(2-chloroethyl)ether	93	5.701	5.701	0.0	92	92963	1.91	
47 2-Chlorophenol	128	5.754	5.754	0.0	96	95545	1.88	
48 1,3-Dichlorobenzene	146	5.901	5.901	0.0	96	105773	1.93	
49 1,4-Dichlorobenzene	146	5.965	5.965	0.0	91	102704	1.84	
50 Benzyl alcohol	108	6.059	6.054	0.005	89	62306	1.93	
51 1,2-Dichlorobenzene	146	6.101	6.101	0.0	94	103511	1.94	
52 2-Methylphenol	108	6.142	6.142	0.0	97	86519	1.89	
53 Indene	115	6.177	6.177	0.0	74	365529	3.87	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
54 2,2'-oxybis[1-chloropropane]	45	6.177	6.177	0.0	55	146959	1.97	
56 3 & 4 Methylphenol	108	6.271	6.271	0.0	91	92225	1.93	
57 N-Nitrosodi-n-propylamine	70	6.289	6.289	0.0	88	62719	1.83	
58 Acetophenone	105	6.294	6.294	0.0	89	132615	1.86	
61 Hexachloroethane	117	6.400	6.400	0.0	97	40239	1.86	
62 Nitrobenzene	77	6.447	6.447	0.0	85	109090	2.06	
64 Isophorone	82	6.653	6.653	0.0	97	183544	1.93	
66 2-Nitrophenol	139	6.723	6.723	0.0	95	47968	1.90	
65 2,4-Dimethylphenol	107	6.741	6.741	0.0	93	95441	1.97	
70 Benzoic acid	122	6.765	6.770	-0.005	85	82973	3.74	
69 Bis(2-chloroethoxy)methane	93	6.829	6.829	0.0	95	107632	1.92	
72 2,4-Dichlorophenol	162	6.923	6.923	0.0	97	77111	1.93	
73 1,2,4-Trichlorobenzene	180	7.005	7.005	0.0	91	91758	1.97	
74 Naphthalene	128	7.082	7.082	0.0	92	286602	1.98	
75 4-Chloroaniline	127	7.111	7.111	0.0	90	121294	2.01	
78 Hexachlorobutadiene	225	7.182	7.176	0.006	88	56648	1.98	
83 Caprolactam	113	7.387	7.393	-0.006	71	54163	3.97	
85 4-Chloro-3-methylphenol	107	7.505	7.505	0.0	91	82015	1.93	
87 2-Methylnaphthalene	142	7.669	7.669	0.0	90	189083	1.95	
88 1-Methylnaphthalene	142	7.758	7.757	0.001	80	176733	1.94	
89 Hexachlorocyclopentadiene	237	7.799	7.799	0.0	96	56659	1.91	
92 1,2,4,5-Tetrachlorobenzene	216	7.810	7.810	0.0	94	100934	2.04	
93 2,4,6-Trichlorophenol	196	7.899	7.898	0.001	93	61912	2.01	
94 2,4,5-Trichlorophenol	196	7.928	7.928	0.0	96	64027	2.01	
98 1,1'-Biphenyl	154	8.063	8.063	0.0	96	233588	1.94	
100 2-Chloronaphthalene	162	8.092	8.086	0.006	95	181990	1.98	
102 2-Nitroaniline	65	8.163	8.163	0.0	78	51178	1.81	
105 Dimethyl phthalate	163	8.304	8.304	0.0	98	196808	1.89	
106 1,3-Dinitrobenzene	168	8.339	8.333	0.006	84	28524	1.95	
107 2,6-Dinitrotoluene	165	8.363	8.357	0.006	87	43396	1.90	
109 Acenaphthylene	152	8.445	8.445	0.0	93	289640	1.98	
110 3-Nitroaniline	138	8.510	8.510	0.0	90	45929	1.89	
112 Acenaphthene	153	8.592	8.592	0.0	92	197799	1.95	
111 2,4-Dinitrophenol	184	8.592	8.592	0.0	59	47020	4.08	
113 4-Nitrophenol	109	8.615	8.615	0.0	94	53838	3.90	
114 2,4-Dinitrotoluene	165	8.703	8.703	0.0	87	56656	1.91	
116 Dibenzofuran	168	8.739	8.739	0.0	88	272285	1.99	
119 2,3,4,6-Tetrachlorophenol	232	8.833	8.833	0.0	68	52142	1.87	
121 Diethyl phthalate	149	8.897	8.897	0.0	96	210620	1.95	
123 4-Chlorophenyl phenyl ether	204	9.015	9.015	0.0	91	114212	1.95	
126 Fluorene	166	9.033	9.032	0.0	91	216784	1.95	
125 4-Nitroaniline	138	9.027	9.027	0.0	82	47031	1.84	
128 4,6-Dinitro-2-methylphenol	198	9.050	9.050	0.0	82	64543	3.49	
129 N-Nitrosodiphenylamine	169	9.115	9.115	0.0	86	316413	3.88	
132 Azobenzene	77	9.150	9.150	0.0	99	214273	1.95	
131 1,2-Diphenylhydrazine	77	9.150	9.150	0.0	98	214273	1.95	
139 4-Bromophenyl phenyl ether	248	9.438	9.438	0.0	62	62072	2.02	
141 Hexachlorobenzene	284	9.497	9.497	0.0	88	61873	1.98	
142 Atrazine	200	9.550	9.549	0.001	92	126618	4.09	
144 Pentachlorophenol	266	9.655	9.655	0.0	87	75597	3.79	
149 Phenanthrene	178	9.855	9.855	0.0	96	311780	1.95	
150 Anthracene	178	9.896	9.896	0.0	98	315893	1.99	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
152 Carbazole	167	10.020	10.020	0.0	83	294031	2.00	
155 Di-n-butyl phthalate	149	10.284	10.284	0.0	100	337508	1.88	
160 Fluoranthene	202	10.872	10.871	0.001	98	363378	1.92	
161 Benzidine	184	10.971	10.971	0.0	97	322117	4.24	
162 Pyrene	202	11.089	11.089	0.0	95	377058	2.00	
170 Butyl benzyl phthalate	149	11.706	11.700	0.006	97	136037	1.89	
177 3,3'-Dichlorobenzidine	252	12.370	12.370	0.0	66	230130	3.86	
175 Bis(2-ethylhexyl) phthalate	149	12.399	12.399	0.0	96	191723	1.89	
179 Benzo[a]anthracene	228	12.423	12.423	0.0	95	353258	1.94	
180 Chrysene	228	12.476	12.470	0.006	92	328187	1.97	
182 Di-n-octyl phthalate	149	13.339	13.333	0.006	98	269976	1.81	
184 Benzo[b]fluoranthene	252	13.968	13.962	0.006	91	298800	1.89	
185 Benzo[k]fluoranthene	252	14.009	14.003	0.006	86	331366	1.92	
186 Benzo[a]pyrene	252	14.473	14.473	0.0	77	280829	1.91	
190 Indeno[1,2,3-cd]pyrene	276	16.259	16.259	0.0	99	298487	1.85	
191 Dibenz(a,h)anthracene	278	16.295	16.295	0.0	80	244309	1.82	
192 Benzo[g,h,i]perylene	276	16.730	16.729	0.001	90	245044	1.78	
S 193 Methyl Phenols,Total	100				0		3.82	

QC Flag Legend

Review Flags
M - Manually Integrated

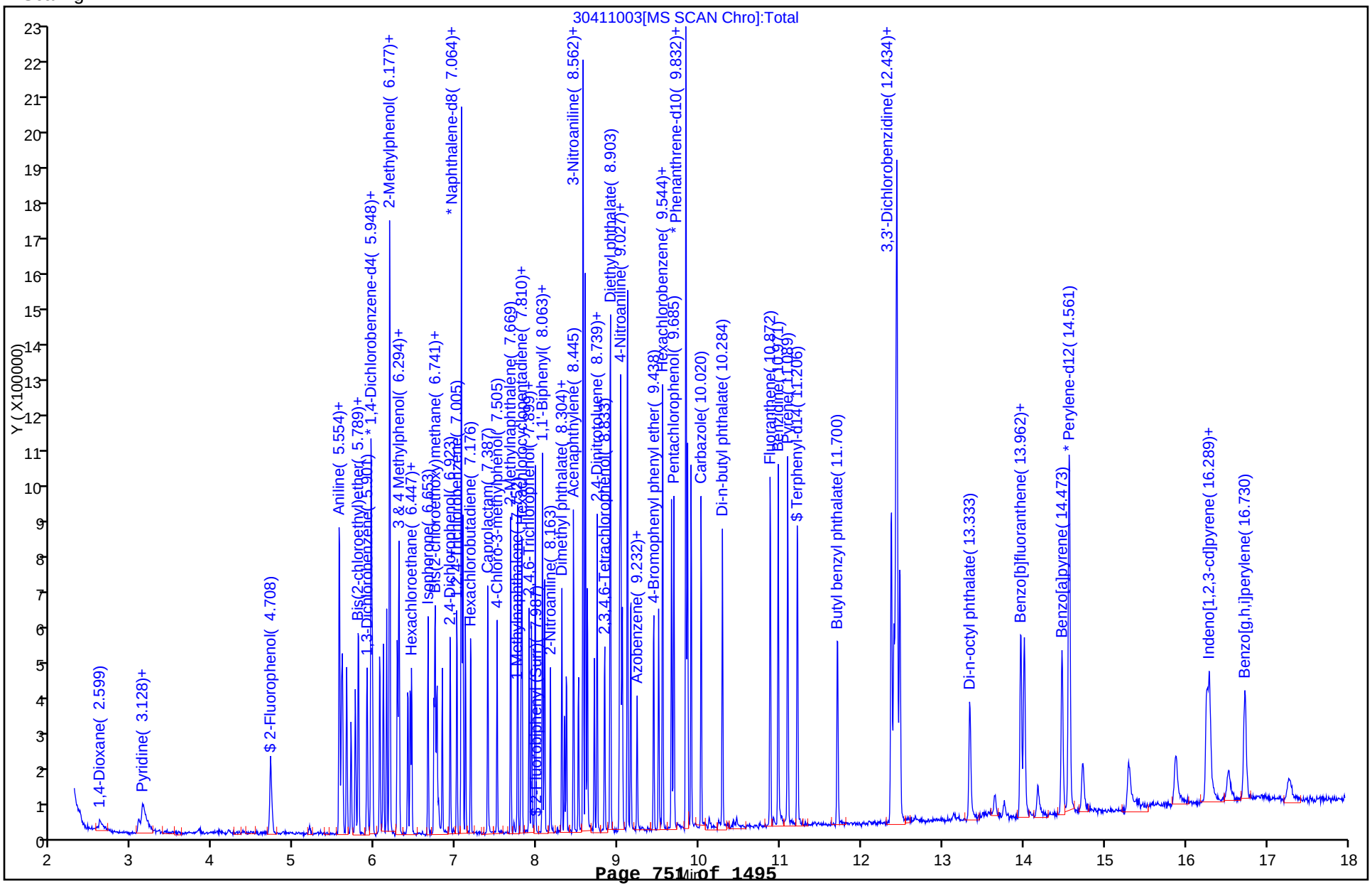
Report Date: 12-Apr-2013 09:42:32 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411003.D

Injection Date:	11-Apr-2013 18:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	3
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

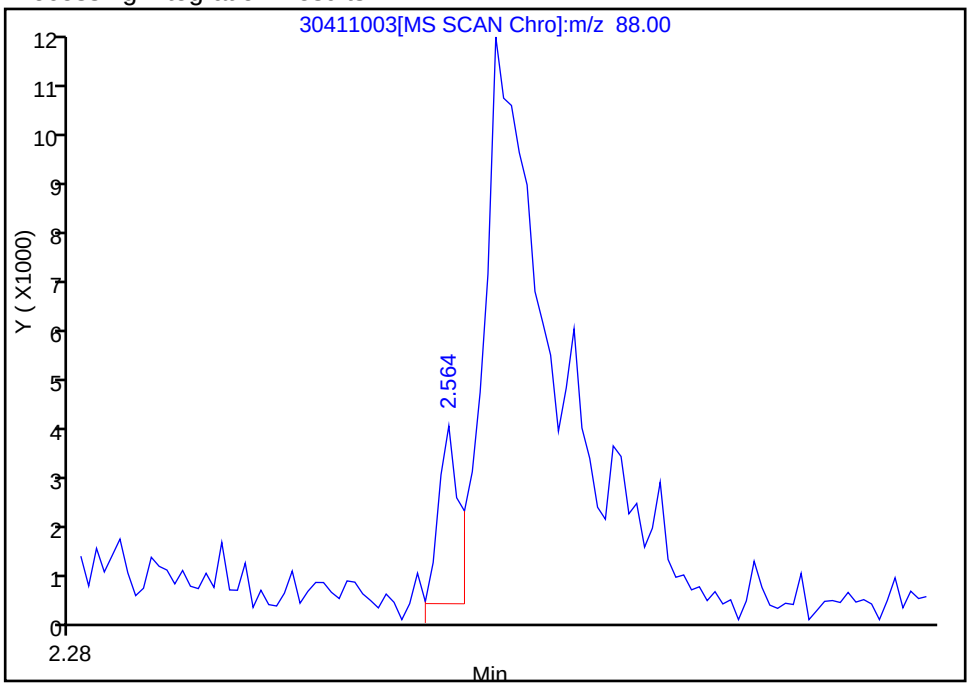
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411003.D		
Injection Date:	11-Apr-2013 18:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	3
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

25 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 2.60

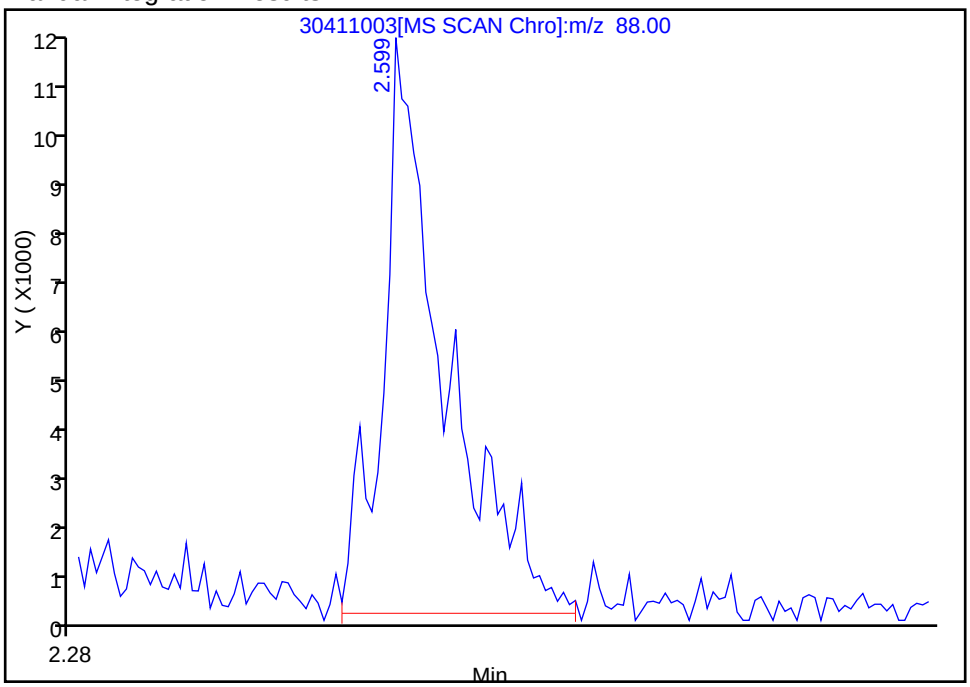
Processing Integration Results

RT: 2.56
Response: 3762
Amount: 0.410081



Manual Integration Results

RT: 2.60
Response: 47473
Amount: 1.928560



Reviewer: gruberj, 12-Apr-2013 08:40:47
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

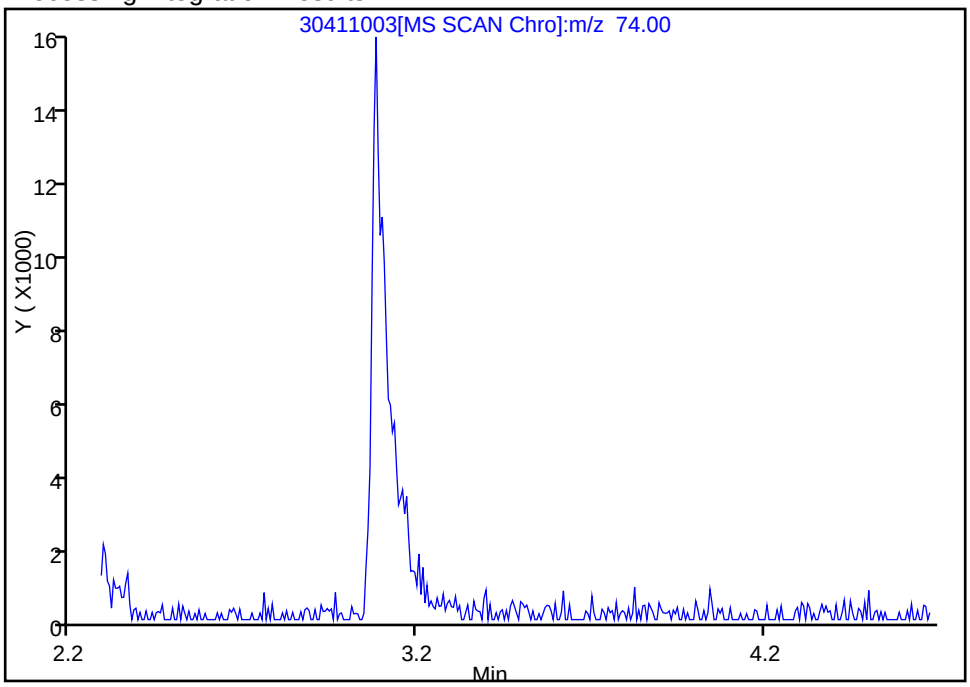
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411003.D		
Injection Date:	11-Apr-2013 18:28:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	3
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

26 N-Nitrosodimethylamine, Signal: 1, m/z: 74.0 Type: quant, RT: 3.08

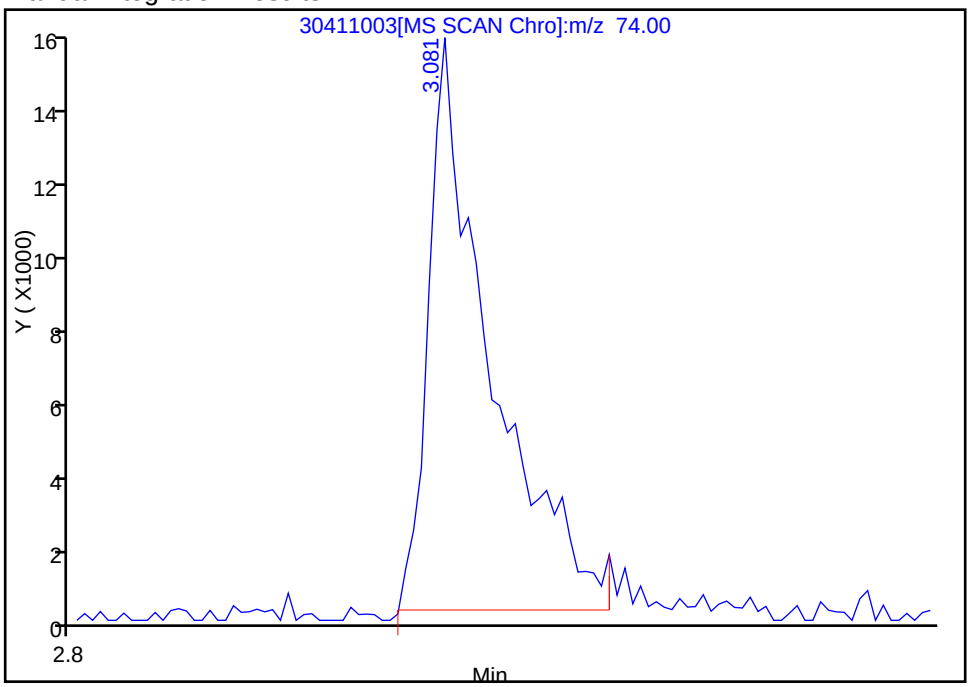
Not Detected
Expected RT: 3.08

Processing Integration Results



Manual Integration Results

RT: 3.08
Response: 48714
Amount: 1.761345



Reviewer: gruberj, 12-Apr-2013 08:40:47
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411004.D		
Lims ID:	std3 lst1	Client ID:	
Inject. Date:	11-Apr-2013 18:53:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	240-0018790-004		
Misc. Info.:	STD3 LST1 =MB 240-81332/8-A		
Operator:	001710	Instrument ID:	A4HP10
Injection Vol:	1.0 ul	ALS Bottle#:	4
Lims Batch ID:	81609	Lims Sample ID:	4
Sublist:	chrom-8270_10*sub27		
Detector:	MS SCAN		
Method:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\8270_10.m		
Last Update:	12-Apr-2013 09:42:33	Calib Date:	12-Apr-2013 00:58:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK010		
First Level Reviewer: gruberj		Date:	12-Apr-2013 08:41:55

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.948	5.948	0.0	99	147429	4.00	
* 2 Naphthalene-d8	136	7.064	7.064	0.0	99	571191	4.00	
* 3 Acenaphthene-d10	164	8.568	8.562	0.006	91	337311	4.00	
* 4 Phenanthrene-d10	188	9.837	9.832	0.005	98	631084	4.00	
* 5 Chrysene-d12	240	12.440	12.434	0.006	80	653616	4.00	
* 6 Perylene-d12	264	14.561	14.561	0.0	98	518830	4.00	
$ 7 2-Fluorophenol	112	4.708	4.708	0.0	89	41692	0.9775	
$ 8 Phenol-d5	99	5.584	5.583	0.001	83	58117	1.02	
$ 9 Nitrobenzene-d5	82	6.430	6.430	0.0	90	47979	0.8983	
$ 10 2-Fluorobiphenyl (Surr)	172	7.975	7.975	0.0	98	103329	0.9501	
$ 11 2,4,6-Tribromophenol	330	9.232	9.232	0.0	80	11857	0.9609	
$ 12 Terphenyl-d14	244	11.206	11.206	0.0	98	115574	0.8987	
243 n-Decane	57		0.000					
247 Hexadecane	57		0.000					
244 n-Octadecane	57		0.000					
25 1,4-Dioxane	88	2.605	2.605	0.0	66	22470	0.9364	M
26 N-Nitrosodimethylamine	74	3.092	3.080	0.012	90	21220	0.8634	M
27 Pyridine	79	3.145	3.127	0.018	94	43683	0.9583	
41 Benzaldehyde	77	5.554	5.554	0.0	89	78743	1.96	
43 Phenol	94	5.595	5.595	0.0	93	52217	0.9339	
44 Aniline	93	5.648	5.648	0.0	94	64273	0.9333	
45 Bis(2-chloroethyl)ether	93	5.701	5.701	0.0	90	42542	0.9830	
47 2-Chlorophenol	128	5.754	5.754	0.0	93	42482	0.9421	
48 1,3-Dichlorobenzene	146	5.901	5.901	0.0	95	46541	0.9548	
49 1,4-Dichlorobenzene	146	5.965	5.965	0.0	89	47915	0.9635	
50 Benzyl alcohol	108	6.059	6.054	0.005	90	27328	0.9545	
51 1,2-Dichlorobenzene	146	6.101	6.101	0.0	91	47938	1.01	
52 2-Methylphenol	108	6.142	6.142	0.0	98	38481	0.9452	
53 Indene	115	6.177	6.177	0.0	78	156104	1.86	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
54 2,2'-oxybis[1-chloropropane]	45	6.177	6.177	0.0	56	65259	0.9865	
56 3 & 4 Methylphenol	108	6.271	6.271	0.0	94	38715	0.9126	
57 N-Nitrosodi-n-propylamine	70	6.289	6.289	0.0	91	30501	1.00	
58 Acetophenone	105	6.295	6.294	0.001	89	59854	0.9463	
61 Hexachloroethane	117	6.400	6.400	0.0	94	19869	1.03	
62 Nitrobenzene	77	6.447	6.447	0.0	87	45496	0.9368	
64 Isophorone	82	6.653	6.653	0.0	96	85728	0.9838	
66 2-Nitrophenol	139	6.723	6.723	0.0	92	19477	0.8401	
65 2,4-Dimethylphenol	107	6.741	6.741	0.0	92	41451	0.9321	
70 Benzoic acid	122	6.753	6.770	-0.017	83	34463	1.97	
69 Bis(2-chloroethoxy)methane	93	6.829	6.829	0.0	94	45666	0.8896	
72 2,4-Dichlorophenol	162	6.923	6.923	0.0	96	33229	0.9089	
73 1,2,4-Trichlorobenzene	180	7.005	7.005	0.0	86	41318	0.9650	
74 Naphthalene	128	7.082	7.082	0.0	97	124268	0.9378	
75 4-Chloroaniline	127	7.111	7.111	0.0	84	51618	0.9348	
78 Hexachlorobutadiene	225	7.182	7.176	0.006	87	25988	0.99	
83 Caprolactam	113	7.387	7.393	-0.006	76	25916	2.07	
85 4-Chloro-3-methylphenol	107	7.505	7.505	0.0	86	33930	0.8686	
87 2-Methylnaphthalene	142	7.675	7.669	0.006	86	84651	0.9497	
88 1-Methylnaphthalene	142	7.758	7.757	0.001	79	81772	0.9782	
89 Hexachlorocyclopentadiene	237	7.805	7.799	0.006	92	24092	0.8997	
92 1,2,4,5-Tetrachlorobenzene	216	7.810	7.810	0.0	96	42448	0.9481	
93 2,4,6-Trichlorophenol	196	7.899	7.898	0.001	94	25520	0.9172	
94 2,4,5-Trichlorophenol	196	7.928	7.928	0.0	86	25900	0.8976	
98 1,1'-Biphenyl	154	8.063	8.063	0.0	97	101163	0.9276	
100 2-Chloronaphthalene	162	8.092	8.086	0.006	97	79364	0.9563	
102 2-Nitroaniline	65	8.163	8.163	0.0	71	23386	0.9163	
105 Dimethyl phthalate	163	8.304	8.304	0.0	98	90860	0.9634	
106 1,3-Dinitrobenzene	168	8.339	8.333	0.006	87	12949	1.08	
107 2,6-Dinitrotoluene	165	8.363	8.357	0.006	82	18273	0.8870	
109 Acenaphthylene	152	8.451	8.445	0.006	86	123712	0.9361	
110 3-Nitroaniline	138	8.510	8.510	0.0	90	17426	0.9451	
112 Acenaphthene	153	8.592	8.592	0.0	92	86005	0.9365	
111 2,4-Dinitrophenol	184	8.598	8.592	0.006	50	16415	2.31	
113 4-Nitrophenol	109	8.621	8.615	0.006	92	21620	2.03	
114 2,4-Dinitrotoluene	165	8.704	8.703	0.001	80	21056	0.9499	
116 Dibenzofuran	168	8.739	8.739	0.0	84	118010	0.9534	
119 2,3,4,6-Tetrachlorophenol	232	8.833	8.833	0.0	67	23549	0.9343	
121 Diethyl phthalate	149	8.897	8.897	0.0	95	95600	0.9817	
123 4-Chlorophenyl phenyl ether	204	9.015	9.015	0.0	92	52994	1.00	
125 4-Nitroaniline	138	9.027	9.027	0.0	82	20418	0.8847	
126 Fluorene	166	9.033	9.032	0.001	75	98484	0.9787	
128 4,6-Dinitro-2-methylphenol	198	9.050	9.050	0.0	82	24885	1.96	
129 N-Nitrosodiphenylamine	169	9.115	9.115	0.0	97	138810	1.86	
131 1,2-Diphenylhydrazine	77	9.156	9.150	0.006	95	96537	0.9626	
132 Azobenzene	77	9.156	9.150	0.006	99	96999	0.9672	
139 4-Bromophenyl phenyl ether	248	9.438	9.438	0.0	61	27021	0.9600	
141 Hexachlorobenzene	284	9.497	9.497	0.0	87	28543	1.00	
142 Atrazine	200	9.550	9.549	0.001	93	53965	1.91	
144 Pentachlorophenol	266	9.655	9.655	0.0	85	31861	2.02	
149 Phenanthrene	178	9.855	9.855	0.0	96	141845	0.9693	
150 Anthracene	178	9.896	9.896	0.0	98	138944	0.9550	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
152 Carbazole	167	10.020	10.020	0.0	83	131456	0.9804	
155 Di-n-butyl phthalate	149	10.284	10.284	0.0	99	158879	0.9687	
160 Fluoranthene	202	10.872	10.871	0.001	99	154743	0.8964	
161 Benzidine	184	10.971	10.971	0.0	94	146604	2.16	
162 Pyrene	202	11.089	11.089	0.0	95	160116	0.9486	
170 Butyl benzyl phthalate	149	11.706	11.700	0.006	97	55525	0.8634	
177 3,3'-Dichlorobenzidine	252	12.370	12.370	0.0	71	93330	1.75	
175 Bis(2-ethylhexyl) phthalate	149	12.399	12.399	0.0	96	78819	0.8711	
179 Benzo[a]anthracene	228	12.423	12.423	0.0	97	155494	0.9562	
180 Chrysene	228	12.470	12.470	0.0	88	138022	0.9247	
182 Di-n-octyl phthalate	149	13.333	13.333	0.0	98	93267	0.9478	
184 Benzo[b]fluoranthene	252	13.968	13.962	0.006	82	126589	0.9091	
185 Benzo[k]fluoranthene	252	14.009	14.003	0.006	83	142426	0.9404	
186 Benzo[a]pyrene	252	14.473	14.473	0.0	75	116802	0.9035	
190 Indeno[1,2,3-cd]pyrene	276	16.259	16.259	0.0	85	120947	0.8529	
191 Dibenz(a,h)anthracene	278	16.295	16.295	0.0	76	101656	0.8599	
192 Benzo[g,h,i]perylene	276	16.730	16.729	0.001	76	106360	0.8788	
S 193 Methyl Phenols,Total	100				0		1.86	

QC Flag Legend

Review Flags
M - Manually Integrated

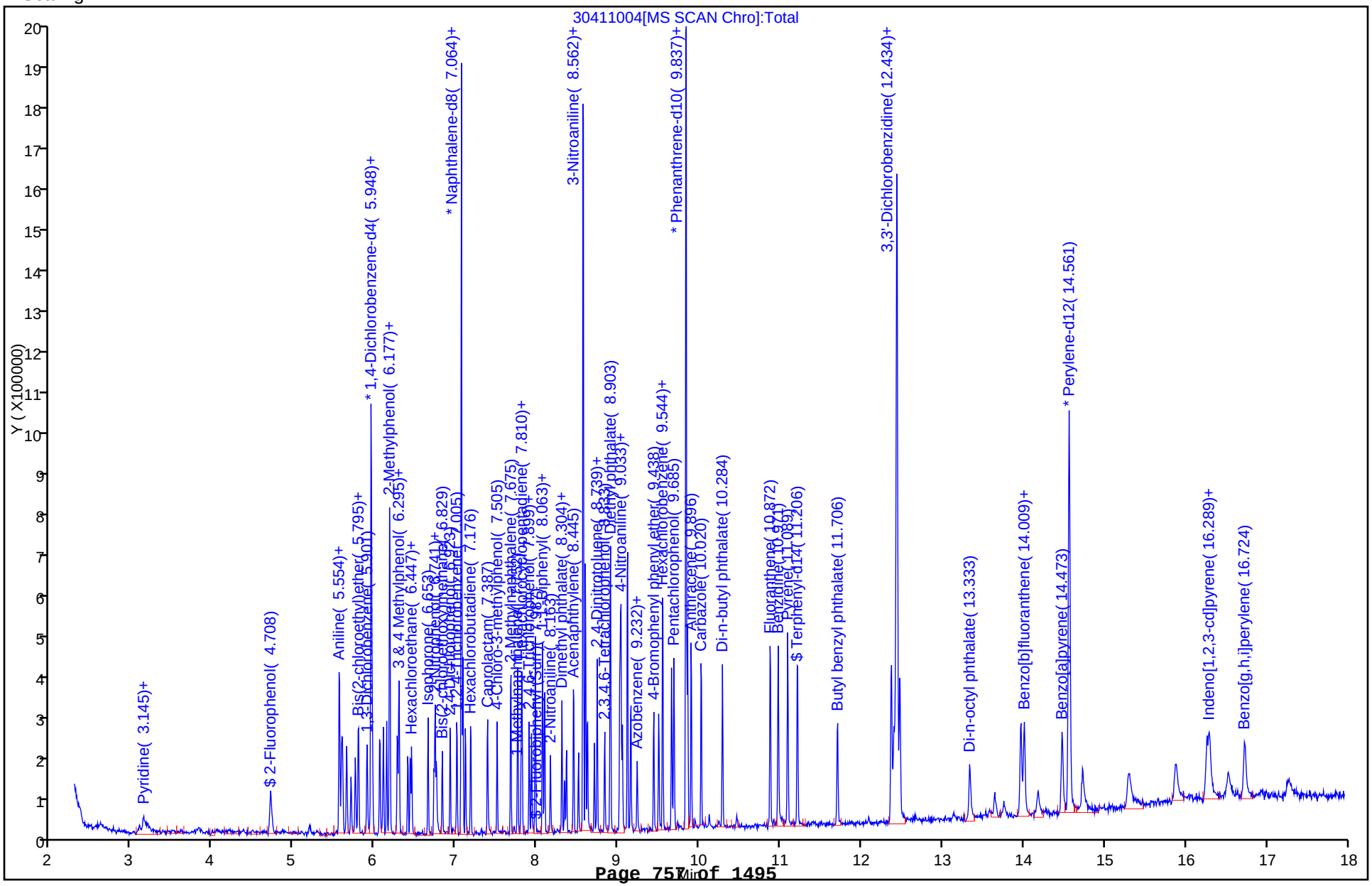
Report Date: 12-Apr-2013 09:42:33 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411004.D

Injection Date:	11-Apr-2013 18:53:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	4
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

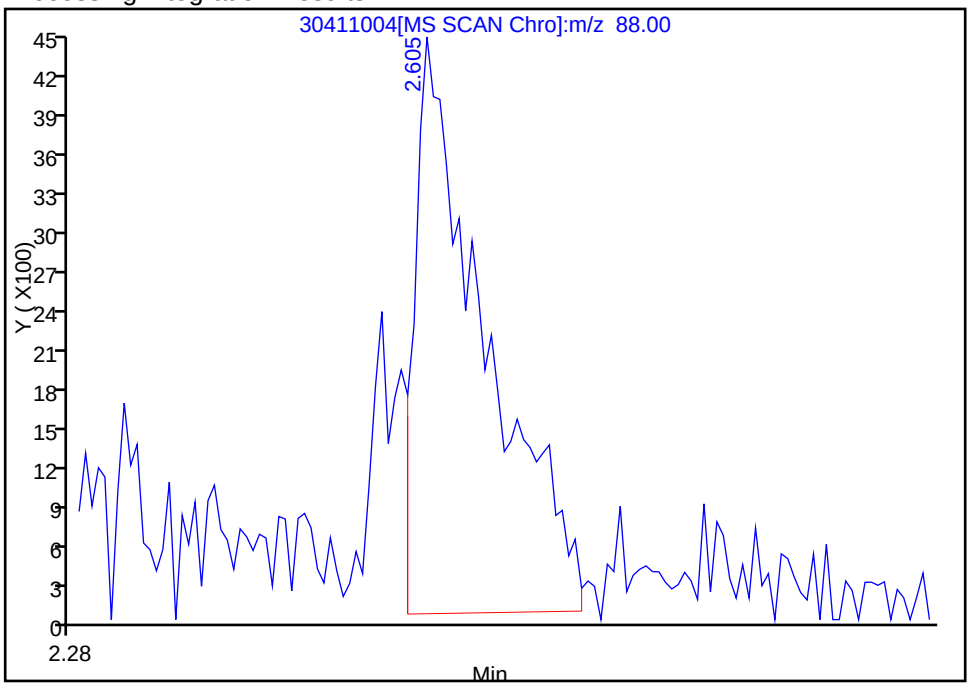
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411004.D		
Injection Date:	11-Apr-2013 18:53:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	4
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

25 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 2.60

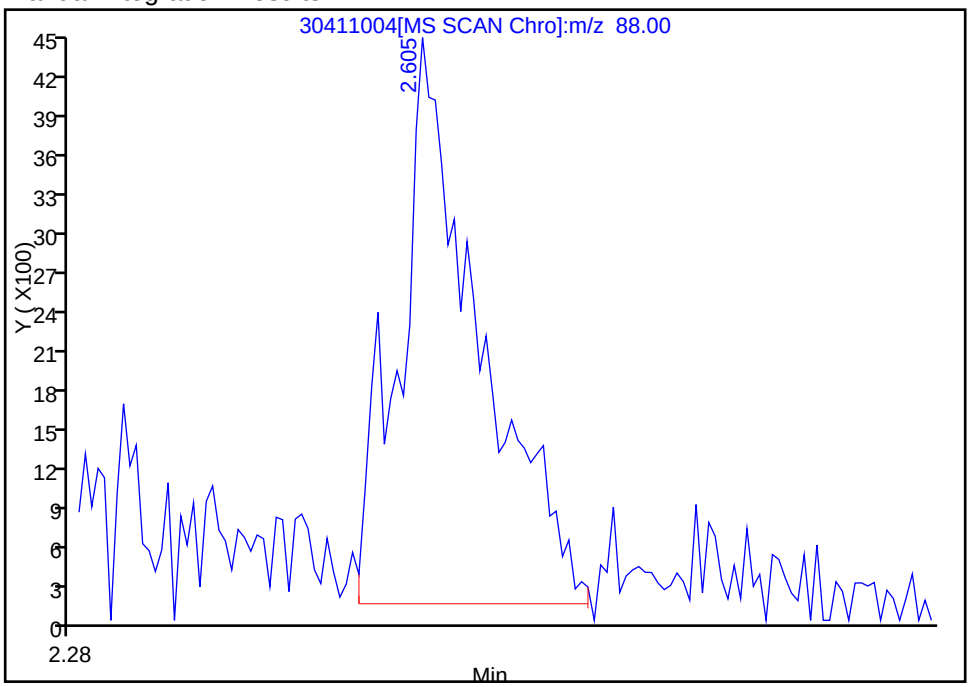
Processing Integration Results

RT: 2.60
Response: 19682
Amount: 1.024443



Manual Integration Results

RT: 2.60
Response: 22470
Amount: 0.936389



Reviewer: gruberj, 12-Apr-2013 08:41:55
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

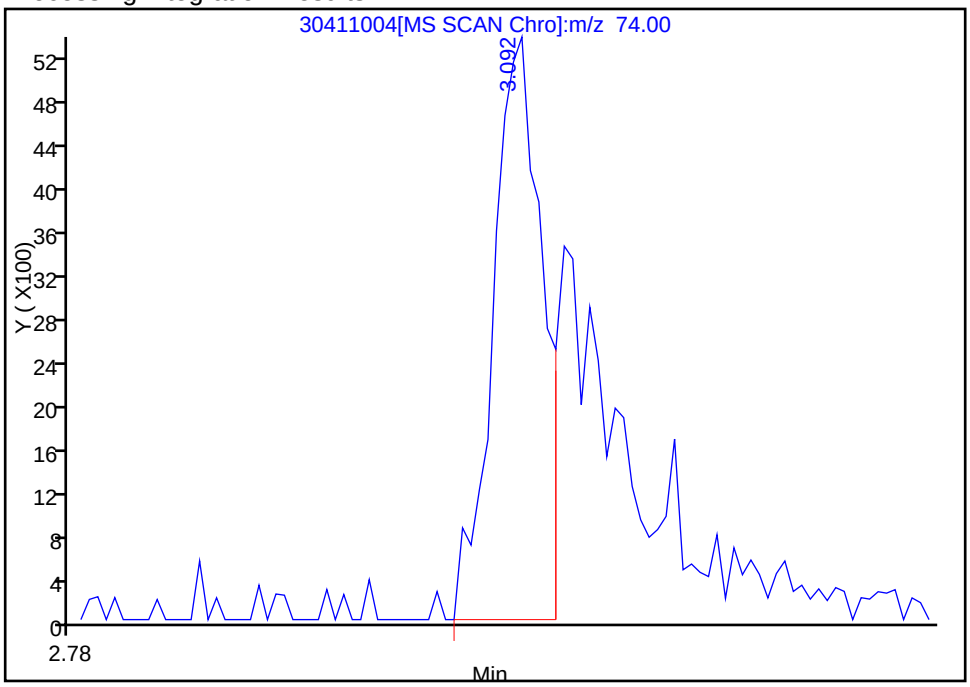
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411004.D		
Injection Date:	11-Apr-2013 18:53:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	4
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

26 N-Nitrosodimethylamine, Signal: 1, m/z: 74.0 Type: quant, RT: 3.08

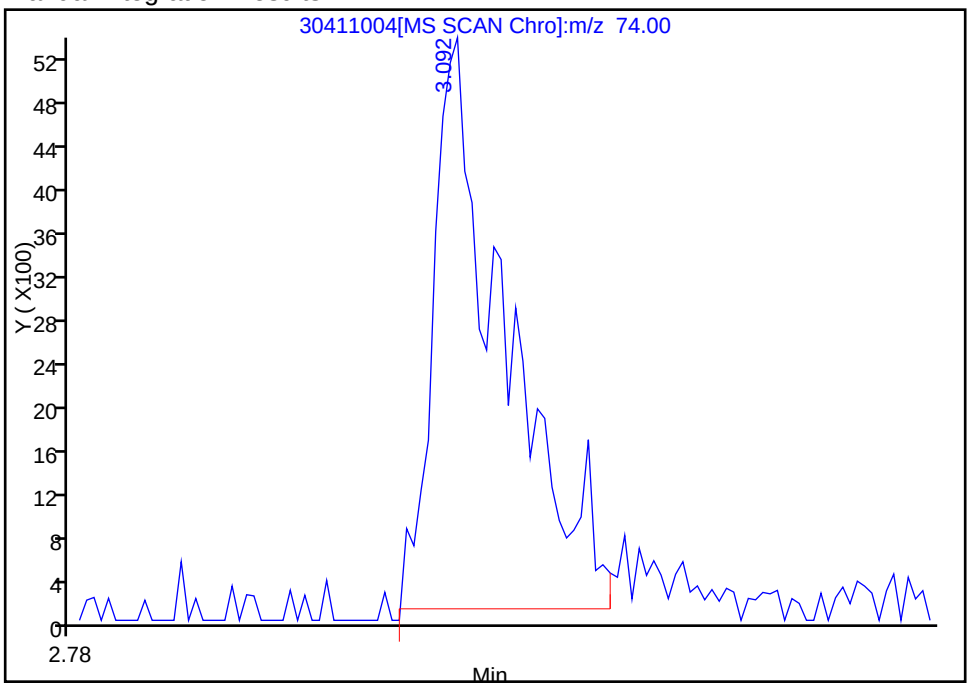
Processing Integration Results

RT: 3.09
Response: 12794
Amount: 0.833243



Manual Integration Results

RT: 3.09
Response: 21220
Amount: 0.863422



Reviewer: gruberj, 12-Apr-2013 08:41:55
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411005.D		
Lims ID:	std2 lst1	Client ID:	
Inject. Date:	11-Apr-2013 19:17:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	240-0018790-005		
Misc. Info.:	STD2 LST1 =LCS 240-81332/9-A		
Operator:	001710	Instrument ID:	A4HP10
Injection Vol:	1.0 ul	ALS Bottle#:	5
Lims Batch ID:	81609	Lims Sample ID:	5
Sublist:	chrom-8270_10*sub27		
Detector:	MS SCAN		
Method:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\8270_10.m		
Last Update:	12-Apr-2013 09:42:35	Calib Date:	12-Apr-2013 00:58:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK010		
First Level Reviewer: gruberj		Date:	12-Apr-2013 08:43:28

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.948	5.948	0.0	99	155455	4.00	
* 2 Naphthalene-d8	136	7.064	7.064	0.0	100	602005	4.00	
* 3 Acenaphthene-d10	164	8.568	8.562	0.006	93	364902	4.00	
* 4 Phenanthrene-d10	188	9.837	9.832	0.005	98	686745	4.00	
* 5 Chrysene-d12	240	12.440	12.434	0.006	81	709120	4.00	
* 6 Perylene-d12	264	14.561	14.561	0.0	94	551986	4.00	
$ 7 2-Fluorophenol	112	4.714	4.708	0.006	85	21754	0.4837	
$ 8 Phenol-d5	99	5.583	5.583	0.0	91	31631	0.5277	
$ 9 Nitrobenzene-d5	82	6.429	6.430	-0.001	87	24603	0.4371	
$ 10 2-Fluorobiphenyl (Surr)	172	7.975	7.975	0.0	98	54644	0.4645	
$ 11 2,4,6-Tribromophenol	330	9.232	9.232	0.0	69	6248	0.4680	
$ 12 Terphenyl-d14	244	11.212	11.206	0.006	97	70948	0.5085	
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
247 Hexadecane	57		0.000					
25 1,4-Dioxane	88	2.610	2.605	0.005	59	16216	0.5795	M
26 N-Nitrosodimethylamine	74	3.098	3.080	0.018	72	11935	0.4606	M
27 Pyridine	79	3.151	3.127	0.024	83	21426	0.4458	M
41 Benzaldehyde	77	5.554	5.554	0.0	88	41129	0.9725	
43 Phenol	94	5.595	5.595	0.0	89	29924	0.5075	
44 Aniline	93	5.648	5.648	0.0	91	34557	0.4759	
45 Bis(2-chloroethyl)ether	93	5.701	5.701	0.0	83	23772	0.5209	
47 2-Chlorophenol	128	5.754	5.754	0.0	92	23853	0.5017	
48 1,3-Dichlorobenzene	146	5.901	5.901	0.0	92	24460	0.4759	
49 1,4-Dichlorobenzene	146	5.965	5.965	0.0	75	25863	0.4932	
50 Benzyl alcohol	108	6.059	6.054	0.005	90	13802	0.4572	
51 1,2-Dichlorobenzene	146	6.100	6.101	-0.001	94	24202	0.4837	
52 2-Methylphenol	108	6.142	6.142	0.0	94	19733	0.4597	
53 Indene	115	6.177	6.177	0.0	81	85891	0.9700	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
54 2,2'-oxybis[1-chloropropane]	45	6.177	6.177	0.0	48	34056	0.4882	
56 3 & 4 Methylphenol	108	6.271	6.271	0.0	93	19065	0.4262	
57 N-Nitrosodi-n-propylamine	70	6.288	6.289	-0.001	81	14155	0.4420	
58 Acetophenone	105	6.294	6.294	0.0	91	32595	0.4887	
61 Hexachloroethane	117	6.400	6.400	0.0	87	9469	0.4672	
62 Nitrobenzene	77	6.447	6.447	0.0	85	22083	0.4314	
64 Isophorone	82	6.653	6.653	0.0	93	40501	0.4410	
66 2-Nitrophenol	139	6.723	6.723	0.0	94	11162	0.4568	
65 2,4-Dimethylphenol	107	6.741	6.741	0.0	93	22771	0.4859	
70 Benzoic acid	122	6.741	6.770	-0.029	67	31871	1.79	
69 Bis(2-chloroethoxy)methane	93	6.829	6.829	0.0	96	26240	0.4850	
72 2,4-Dichlorophenol	162	6.929	6.923	0.006	90	16521	0.4288	
73 1,2,4-Trichlorobenzene	180	7.005	7.005	0.0	87	21585	0.4783	
74 Naphthalene	128	7.082	7.082	0.0	94	66890	0.4790	
75 4-Chloroaniline	127	7.117	7.111	0.006	93	25968	0.4462	
78 Hexachlorobutadiene	225	7.182	7.176	0.006	87	12593	0.4561	
83 Caprolactam	113	7.387	7.393	-0.006	73	12290	0.9310	
85 4-Chloro-3-methylphenol	107	7.505	7.505	0.0	91	18631	0.4525	
87 2-Methylnaphthalene	142	7.675	7.669	0.006	85	45100	0.4801	
88 1-Methylnaphthalene	142	7.757	7.757	0.0	89	39669	0.4503	
89 Hexachlorocyclopentadiene	237	7.798	7.799	-0.001	90	11210	0.3870	
92 1,2,4,5-Tetrachlorobenzene	216	7.810	7.810	0.0	95	22274	0.4599	
93 2,4,6-Trichlorophenol	196	7.898	7.898	0.0	85	12486	0.4148	
94 2,4,5-Trichlorophenol	196	7.928	7.928	0.0	87	11947	0.3827	
98 1,1'-Biphenyl	154	8.063	8.063	0.0	97	54974	0.4659	
100 2-Chloronaphthalene	162	8.092	8.086	0.006	92	40645	0.4527	
102 2-Nitroaniline	65	8.163	8.163	0.0	73	12047	0.4363	
105 Dimethyl phthalate	163	8.304	8.304	0.0	98	49472	0.4849	
106 1,3-Dinitrobenzene	168	8.339	8.333	0.006	78	6063	0.5730	
107 2,6-Dinitrotoluene	165	8.363	8.357	0.006	65	9021	0.4048	
109 Acenaphthylene	152	8.451	8.445	0.006	94	61980	0.4335	
110 3-Nitroaniline	138	8.509	8.510	-0.001	85	9622	0.6113	
112 Acenaphthene	153	8.592	8.592	0.0	94	46636	0.4694	
111 2,4-Dinitrophenol	184		8.592					9
113 4-Nitrophenol	109	8.621	8.615	0.006	77	8926	1.11	
114 2,4-Dinitrotoluene	165	8.703	8.703	0.0	70	10980	0.6022	
116 Dibenzofuran	168	8.739	8.739	0.0	89	62615	0.4676	
119 2,3,4,6-Tetrachlorophenol	232	8.833	8.833	0.0	65	11272	0.4134	
121 Diethyl phthalate	149	8.897	8.897	0.0	95	53280	0.5057	
123 4-Chlorophenyl phenyl ether	204	9.021	9.015	0.006	87	26505	0.4625	
125 4-Nitroaniline	138	9.026	9.027	-0.001	77	9611	0.3849	
126 Fluorene	166	9.032	9.032	0.0	74	48194	0.4427	
128 4,6-Dinitro-2-methylphenol	198	9.050	9.050	0.0	71	9577	1.24	
129 N-Nitrosodiphenylamine	169	9.115	9.115	0.0	95	72547	0.8937	
131 1,2-Diphenylhydrazine	77	9.156	9.150	0.006	97	50341	0.4613	
132 Azobenzene	77	9.156	9.150	0.006	97	50309	0.4610	
139 4-Bromophenyl phenyl ether	248	9.438	9.438	0.0	67	12979	0.4237	
141 Hexachlorobenzene	284	9.502	9.497	0.005	90	14818	0.4773	
142 Atrazine	200	9.549	9.549	0.0	90	26777	0.8695	
144 Pentachlorophenol	266	9.661	9.655	0.006	82	13906	1.11	
149 Phenanthrene	178	9.855	9.855	0.0	96	73146	0.4594	
150 Anthracene	178	9.896	9.896	0.0	82	69781	0.4407	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
152 Carbazole	167	10.025	10.020	0.005	82	67174	0.4604	
155 Di-n-butyl phthalate	149	10.284	10.284	0.0	100	79716	0.4466	
160 Fluoranthene	202	10.871	10.871	0.0	98	83881	0.4465	
161 Benzidine	184	10.971	10.971	0.0	96	71149	0.9652	
162 Pyrene	202	11.089	11.089	0.0	96	82865	0.4525	
170 Butyl benzyl phthalate	149	11.706	11.700	0.006	89	26854	0.3849	
177 3,3'-Dichlorobenzidine	252	12.370	12.370	0.0	59	41792	0.7223	
175 Bis(2-ethylhexyl) phthalate	149	12.399	12.399	0.0	87	37896	0.3861	
179 Benzo[a]anthracene	228	12.423	12.423	0.0	89	80043	0.4537	
180 Chrysene	228	12.470	12.470	0.0	79	69446	0.4288	
182 Di-n-octyl phthalate	149	13.333	13.333	0.0	91	42479	0.6289	
184 Benzo[b]fluoranthene	252	13.968	13.962	0.006	88	58877	0.3974	
185 Benzo[k]fluoranthene	252	14.009	14.003	0.006	94	70996	0.4406	
186 Benzo[a]pyrene	252	14.479	14.473	0.006	69	56321	0.4095	
190 Indeno[1,2,3-cd]pyrene	276	16.259	16.259	0.0	85	62924	0.4171	M
191 Dibenz(a,h)anthracene	278	16.295	16.295	0.0	61	51347	0.4082	M
192 Benzo[g,h,i]perylene	276	16.729	16.729	0.0	86	55155	0.4283	
S 193 Methyl Phenols,Total	100				0		0.8859	

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

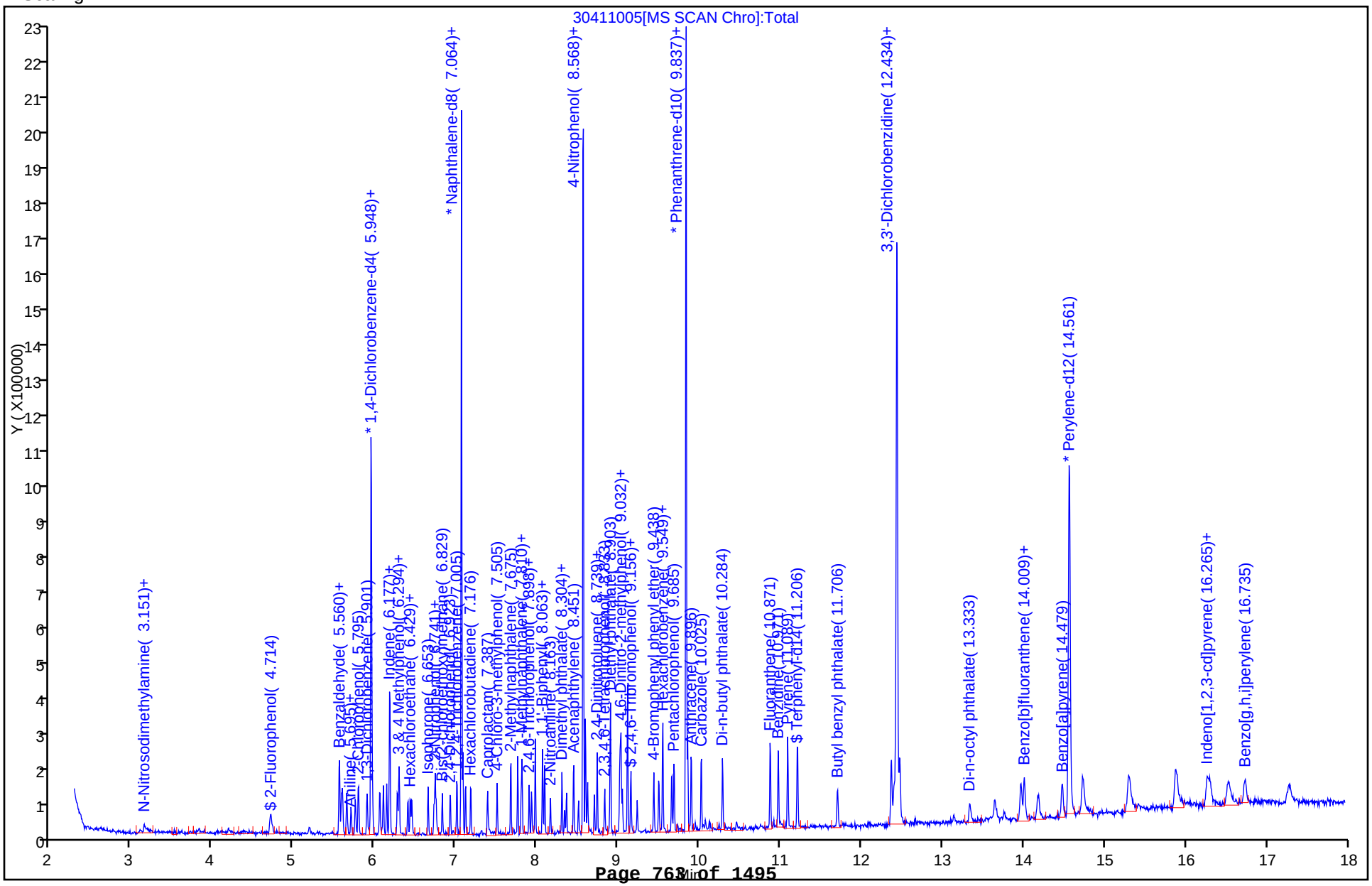
Report Date: 12-Apr-2013 09:42:35 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411005.D

Injection Date:	11-Apr-2013 19:17:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	5
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

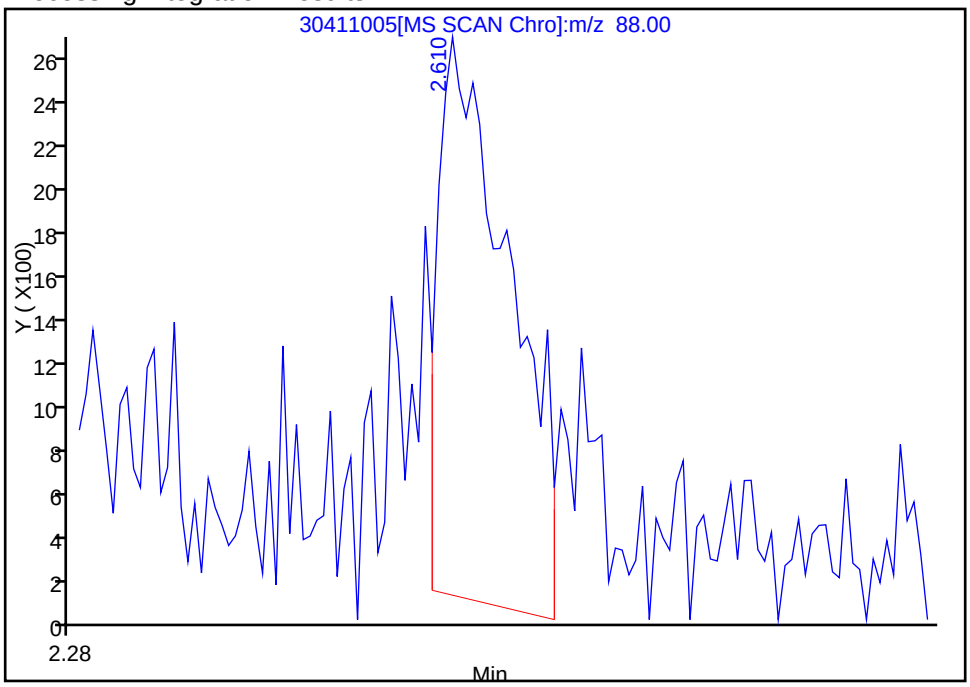
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411005.D		
Injection Date:	11-Apr-2013 19:17:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	5
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

25 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 2.60

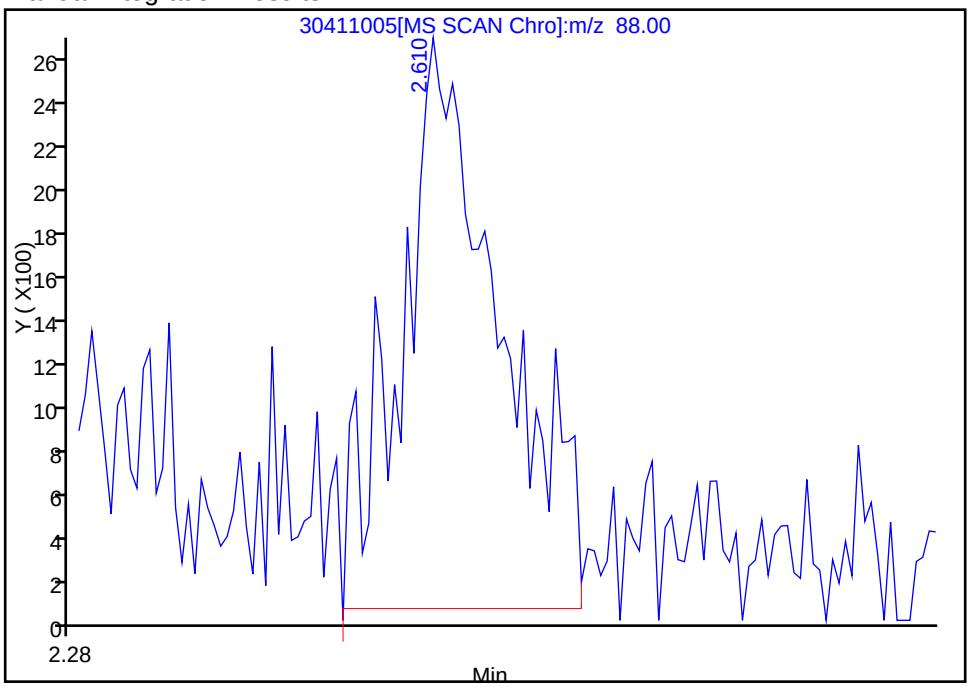
Processing Integration Results

RT: 2.61
Response: 10975
Amount: 0.532101



Manual Integration Results

RT: 2.61
Response: 16216
Amount: 0.579522



Reviewer: gruberj, 12-Apr-2013 08:43:28
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

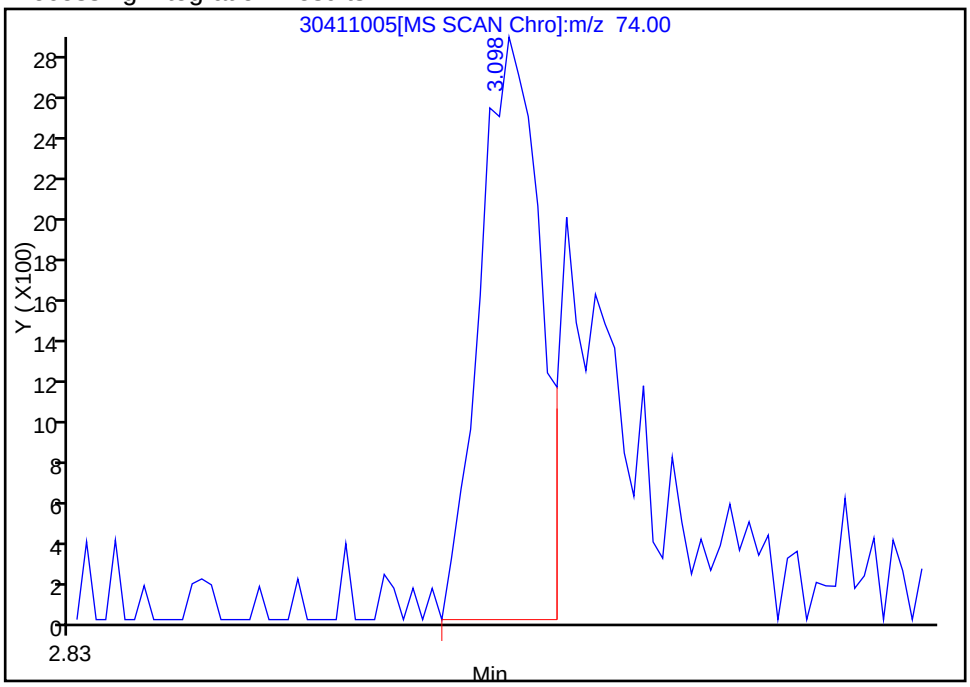
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411005.D		
Injection Date:	11-Apr-2013 19:17:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	5
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

26 N-Nitrosodimethylamine, Signal: 1, m/z: 74.0 Type: quant, RT: 3.08

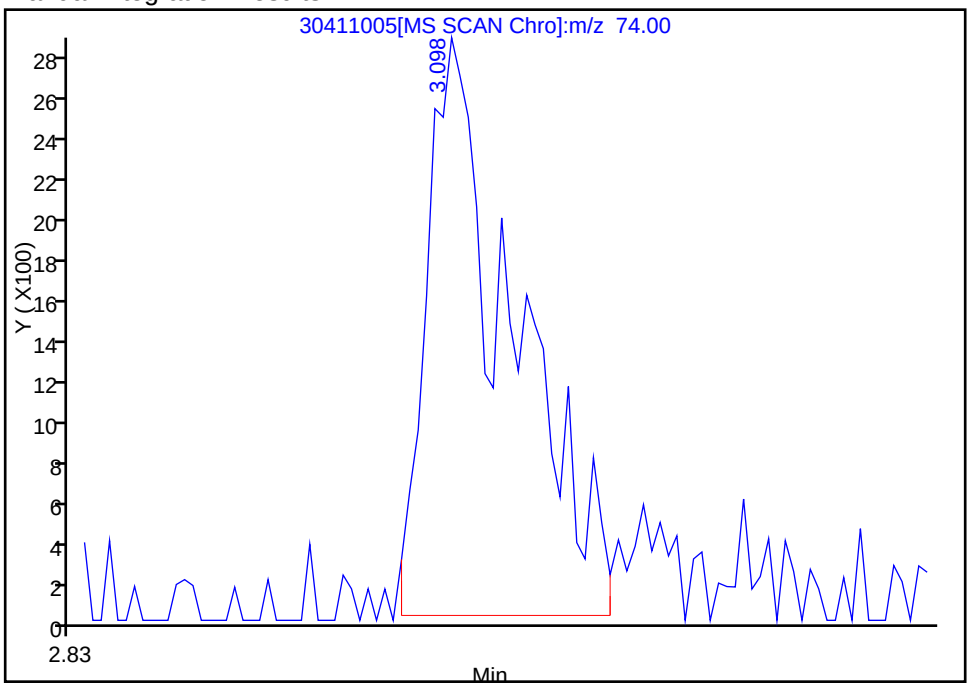
Processing Integration Results

RT: 3.10
Response: 7312
Amount: 0.529559



Manual Integration Results

RT: 3.10
Response: 11935
Amount: 0.460552



Reviewer: gruberj, 12-Apr-2013 08:43:28
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

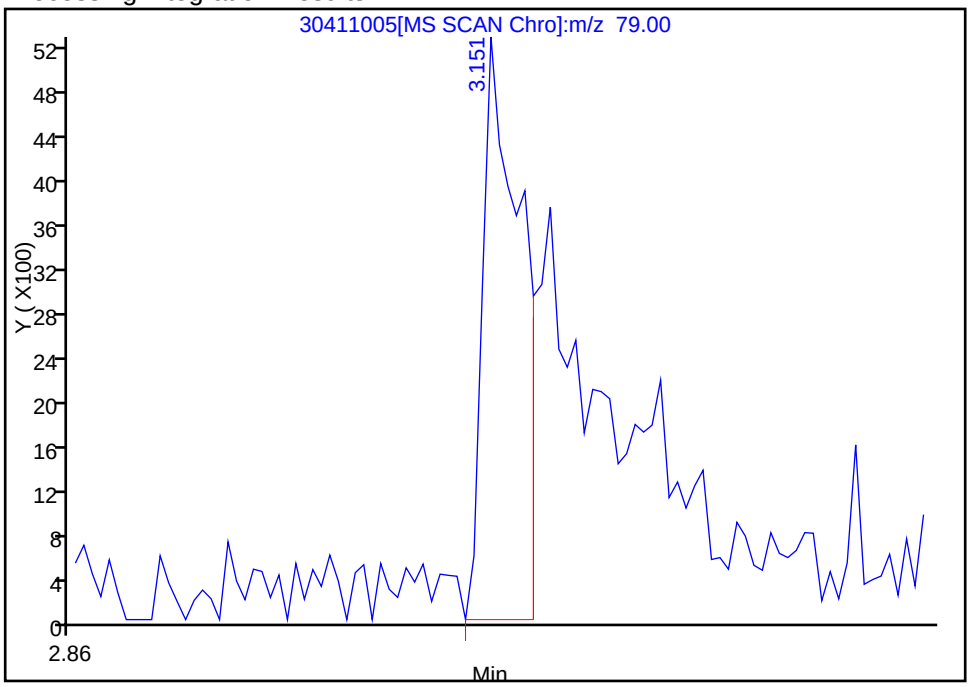
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411005.D		
Injection Date:	11-Apr-2013 19:17:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	5
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

27 Pyridine, Signal: 1, m/z: 79.0 Type: quant, RT: 3.13

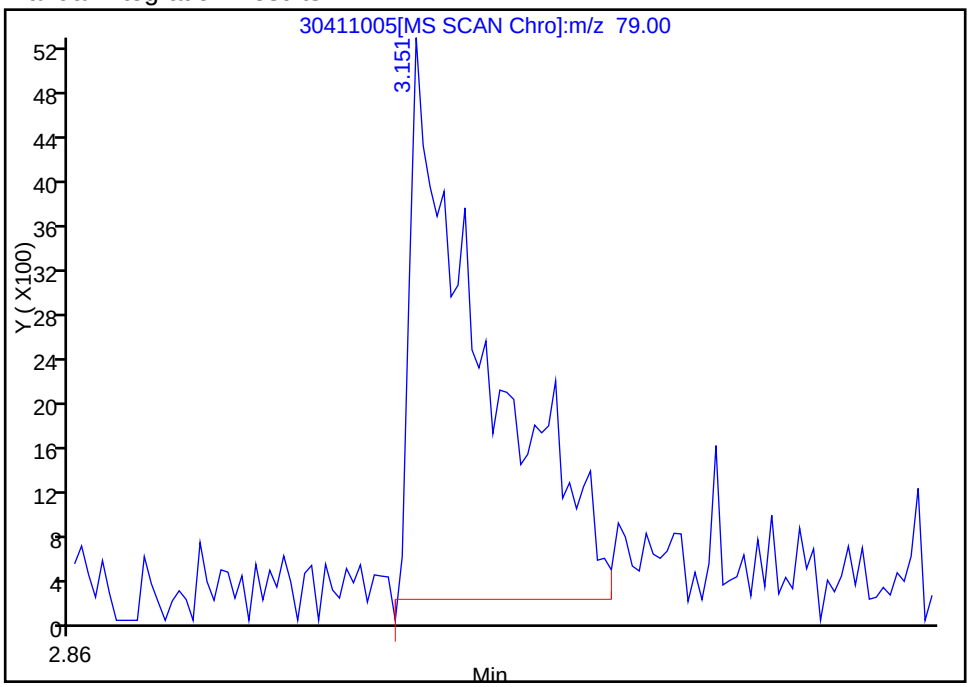
Processing Integration Results

RT: 3.15
Response: 9663
Amount: 0.427769



Manual Integration Results

RT: 3.15
Response: 21426
Amount: 0.445775



Reviewer: gruberj, 12-Apr-2013 08:43:28
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

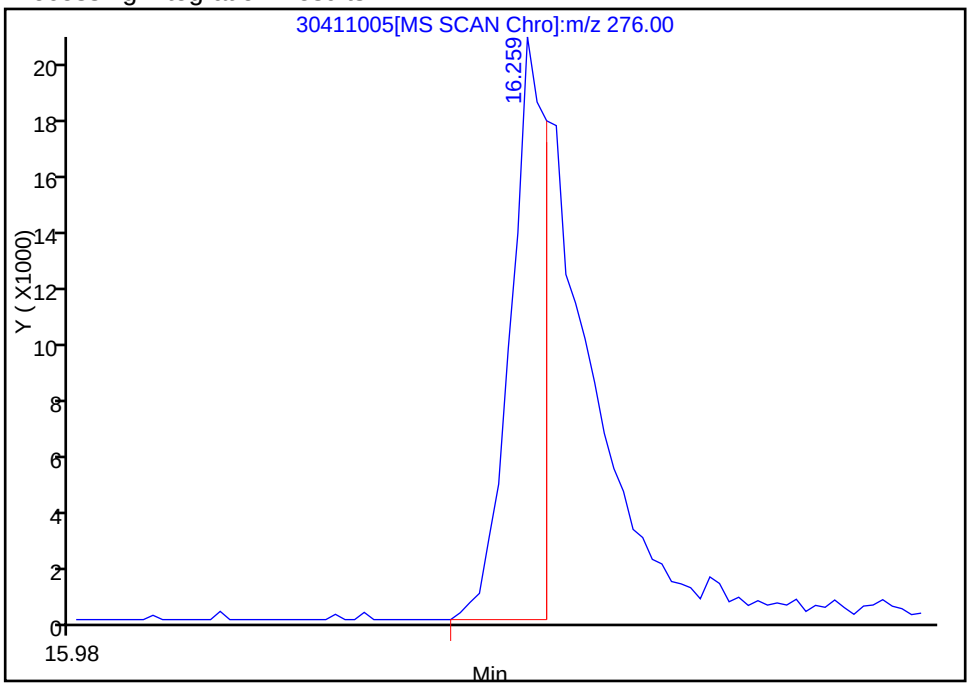
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411005.D		
Injection Date:	11-Apr-2013 19:17:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	5
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

190 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 16.26

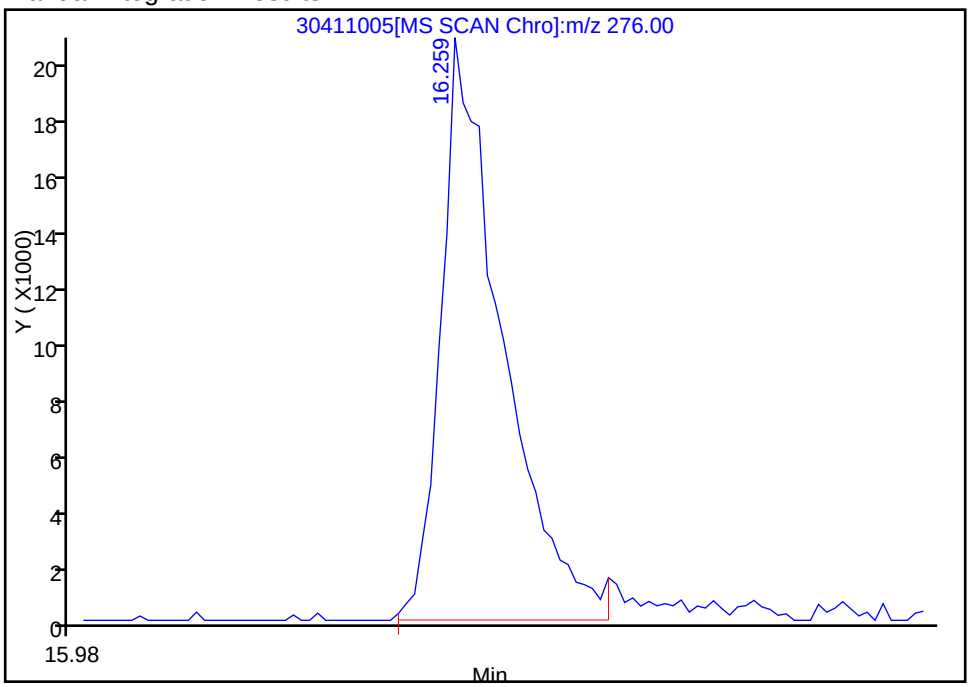
Processing Integration Results

RT: 16.26
Response: 31068
Amount: 0.319132



Manual Integration Results

RT: 16.26
Response: 62924
Amount: 0.417067



Reviewer: gruberj, 12-Apr-2013 08:43:28
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

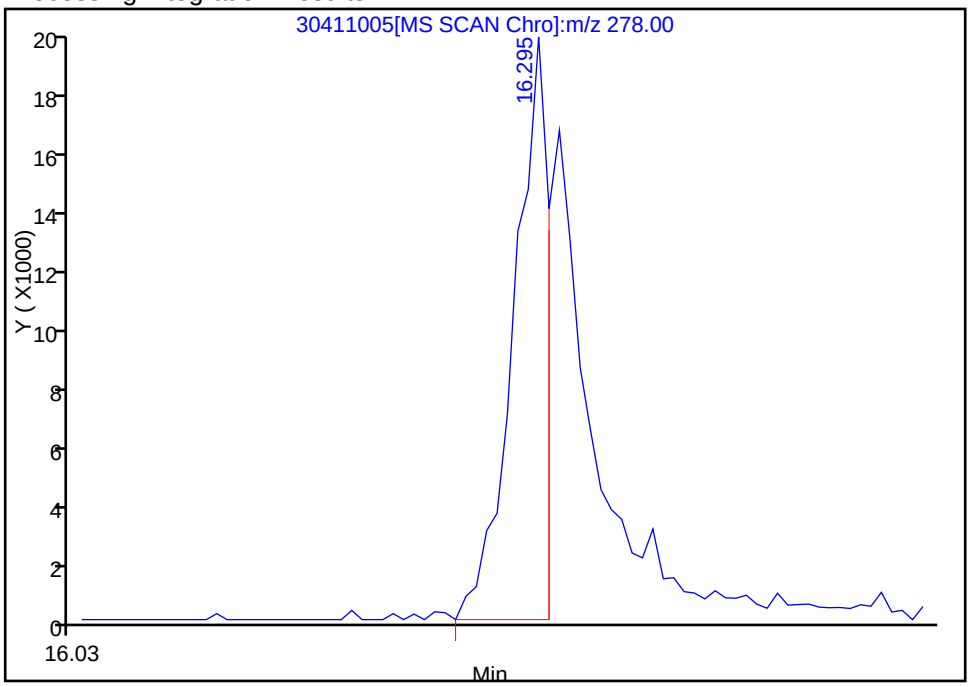
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411005.D		
Injection Date:	11-Apr-2013 19:17:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	5
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

191 Dibenz(a,h)anthracene, Signal: 1, m/z: 278.0 Type: quant, RT: 16.29

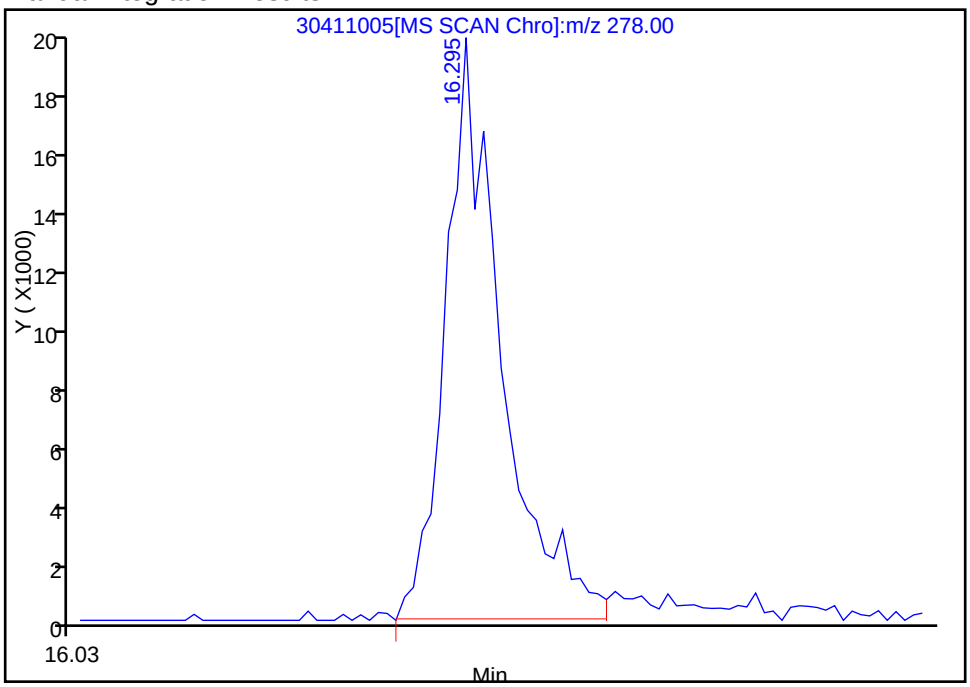
Processing Integration Results

RT: 16.29
Response: 27344
Amount: 0.523938



Manual Integration Results

RT: 16.29
Response: 51347
Amount: 0.408236



Reviewer: gruberj, 12-Apr-2013 08:43:28
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411006.D		
Lims ID:	std1 lst1	Client ID:	
Inject. Date:	11-Apr-2013 19:41:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	240-0018790-006		
Misc. Info.:	STD1 LST1		
Operator:	001710	Instrument ID:	A4HP10
Injection Vol:	1.0 ul	ALS Bottle#:	6
Lims Batch ID:	81609	Lims Sample ID:	6
Sublist:	chrom-8270_10*sub27		
Detector:	MS SCAN		
Method:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\8270_10.m		
Last Update:	12-Apr-2013 09:42:37	Calib Date:	12-Apr-2013 00:58:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK010		
First Level Reviewer: gruberj		Date:	12-Apr-2013 08:44:09

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.948	5.948	0.0	99	171608	4.00	
* 2 Naphthalene-d8	136	7.064	7.064	0.0	100	636503	4.00	
* 3 Acenaphthene-d10	164	8.568	8.562	0.006	89	389730	4.00	
* 4 Phenanthrene-d10	188	9.837	9.832	0.005	98	734875	4.00	
* 5 Chrysene-d12	240	12.440	12.434	0.006	84	739811	4.00	
* 6 Perylene-d12	264	14.567	14.561	0.006	89	602038	4.00	
$ 9 Nitrobenzene-d5	82	6.430	6.430	0.0	89	7773	0.1306	
$ 10 2-Fluorobiphenyl (Surr)	172	7.975	7.975	0.0	90	16236	0.1292	
$ 12 Terphenyl-d14	244	11.212	11.206	0.006	71	19657	0.1350	
41 Benzaldehyde	77	5.554	5.554	0.0	78	9652	0.2067	
74 Naphthalene	128	7.082	7.082	0.0	54	15367	0.1041	
87 2-Methylnaphthalene	142	7.675	7.669	0.006	83	9966	0.1003	
88 1-Methylnaphthalene	142	7.758	7.757	0.001	79	10070	0.1081	
98 1,1'-Biphenyl	154	8.063	8.063	0.0	88	13819	0.1097	
100 2-Chloronaphthalene	162	8.092	8.086	0.006	84	10591	0.1105	
109 Acenaphthylene	152	8.445	8.445	0.0	82	15394	0.1008	
112 Acenaphthene	153	8.592	8.592	0.0	88	12306	0.1160	
116 Dibenzofuran	168	8.739	8.739	0.0	88	14723	0.1030	
126 Fluorene	166	9.033	9.032	0.0	75	11758	0.1011	
141 Hexachlorobenzene	284	9.503	9.497	0.006	52	3107	0.0935	
149 Phenanthrene	178	9.855	9.855	0.0	83	18717	0.1098	
150 Anthracene	178	9.902	9.896	0.006	81	16288	0.0961	
160 Fluoranthene	202	10.872	10.871	0.001	94	22172	0.1103	
162 Pyrene	202	11.089	11.089	0.0	94	20499	0.1073	
179 Benzo[a]anthracene	228	12.429	12.423	0.006	66	21142	0.1149	
180 Chrysene	228	12.470	12.470	0.0	67	19161	0.1134	
184 Benzo[b]fluoranthene	252	13.968	13.962	0.006	78	14443	0.0894	
185 Benzo[k]fluoranthene	252	14.009	14.003	0.006	67	15010	0.0854	
186 Benzo[a]pyrene	252	14.473	14.473	0.0	53	11605	0.0774	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
190 Indeno[1,2,3-cd]pyrene	276	16.259	16.259	0.0	72	15972	0.0971	M
191 Dibenz(a,h)anthracene	278	16.306	16.295	0.011	0	13537	0.0987	M
192 Benzo[g,h,i]perylene	276	16.741	16.729	0.012	75	16019	0.1141	M

QC Flag Legend

Review Flags
M - Manually Integrated

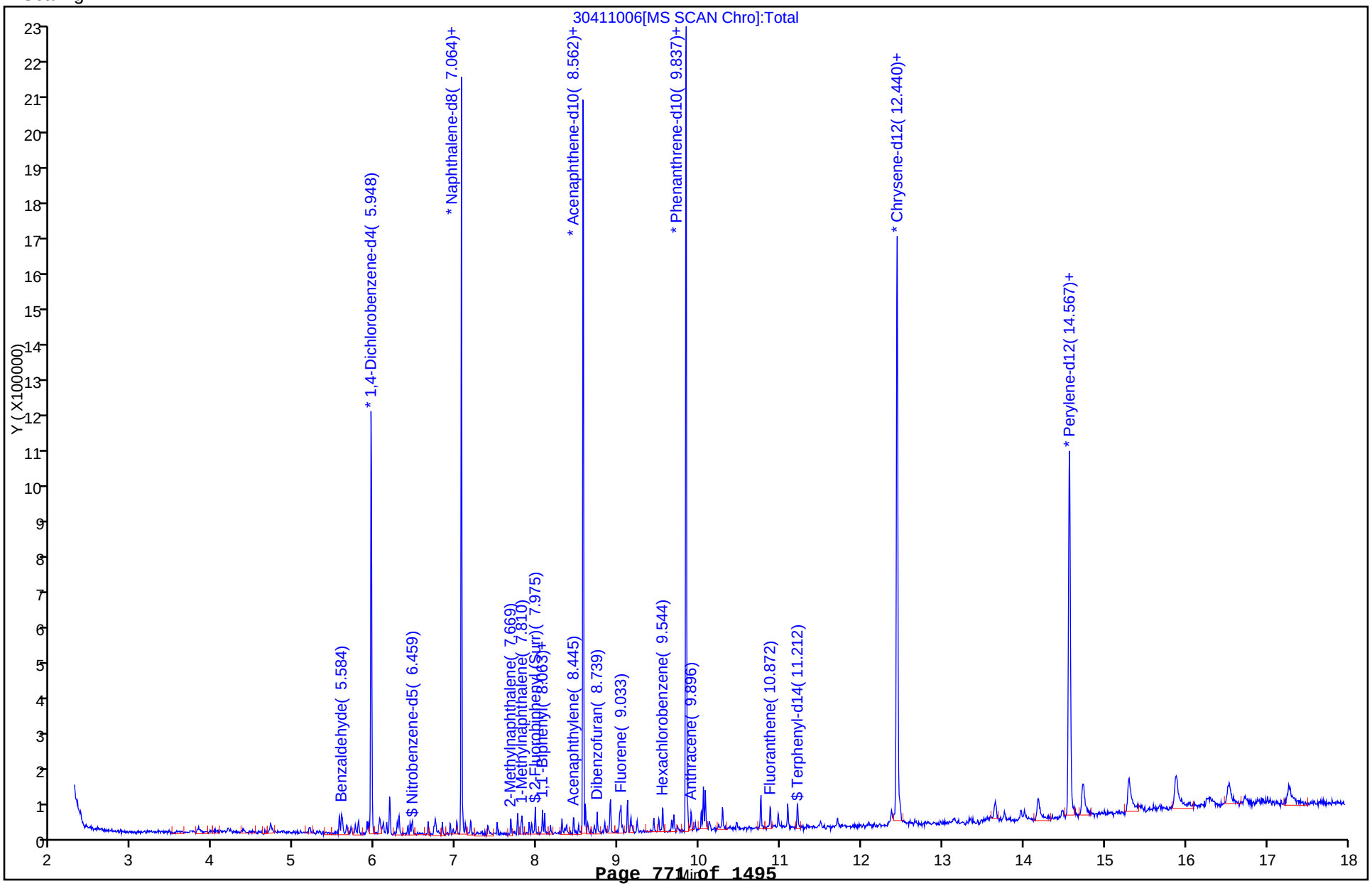
Report Date: 12-Apr-2013 09:42:37 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411006.D

Injection Date:	11-Apr-2013 19:41:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	6
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

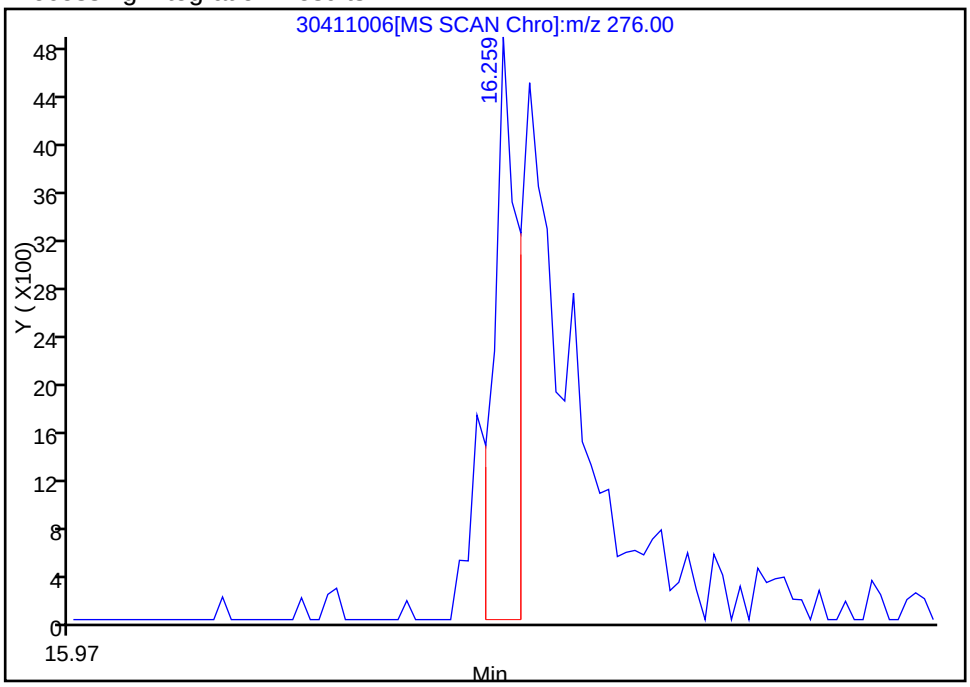
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411006.D		
Injection Date:	11-Apr-2013 19:41:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	6
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

190 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 16.26

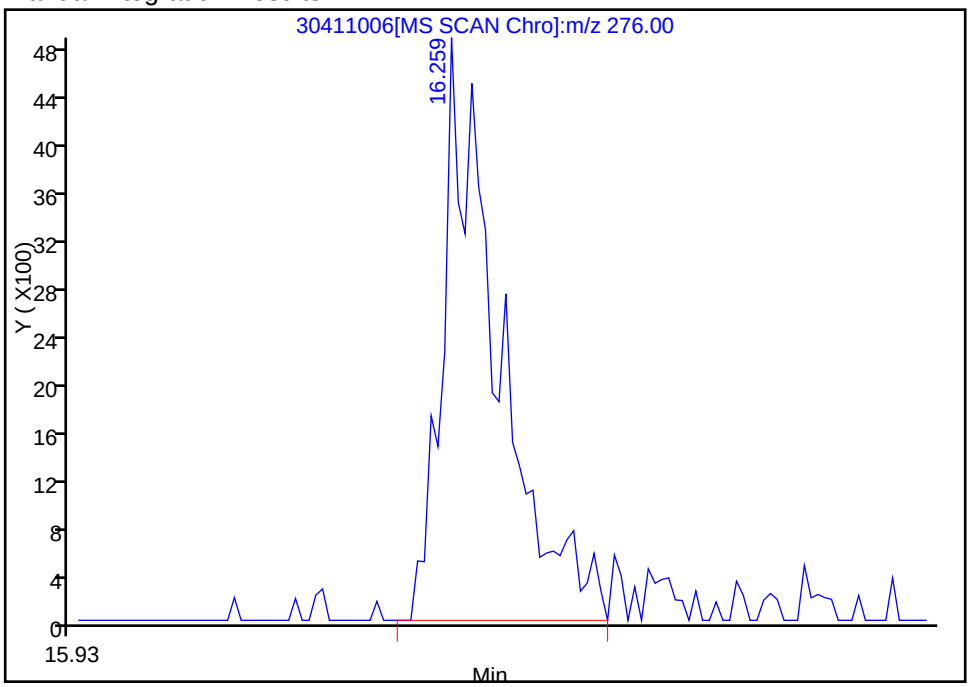
Processing Integration Results

RT: 16.26
Response: 5342
Amount: 0.135644



Manual Integration Results

RT: 16.26
Response: 15972
Amount: 0.097063



Reviewer: gruberj, 12-Apr-2013 08:44:09
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

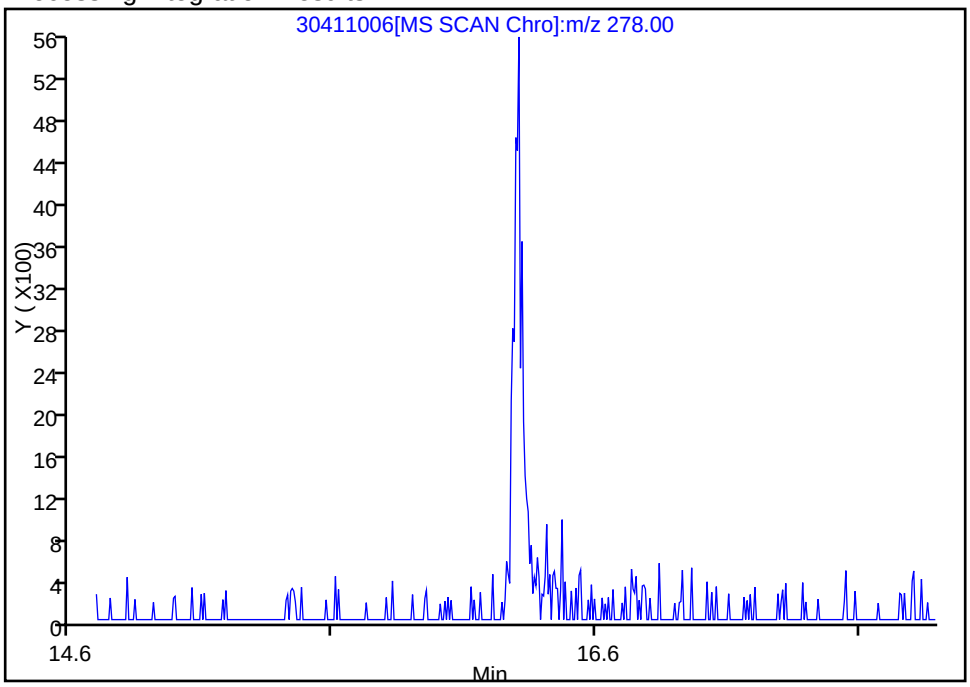
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411006.D		
Injection Date:	11-Apr-2013 19:41:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	6
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

191 Dibenz(a,h)anthracene, Signal: 1, m/z: 278.0 Type: quant, RT: 16.29

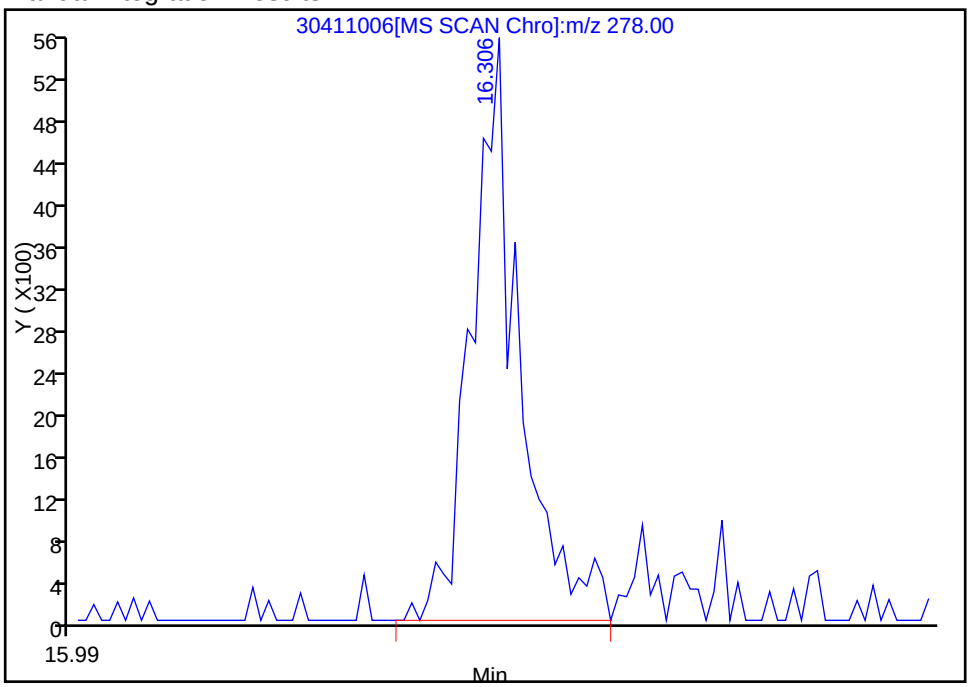
Processing Integration Results

Not Detected
Expected RT: 16.29



Manual Integration Results

RT: 16.31
Response: 13537
Amount: 0.098679



Reviewer: gruberj, 12-Apr-2013 08:44:09
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

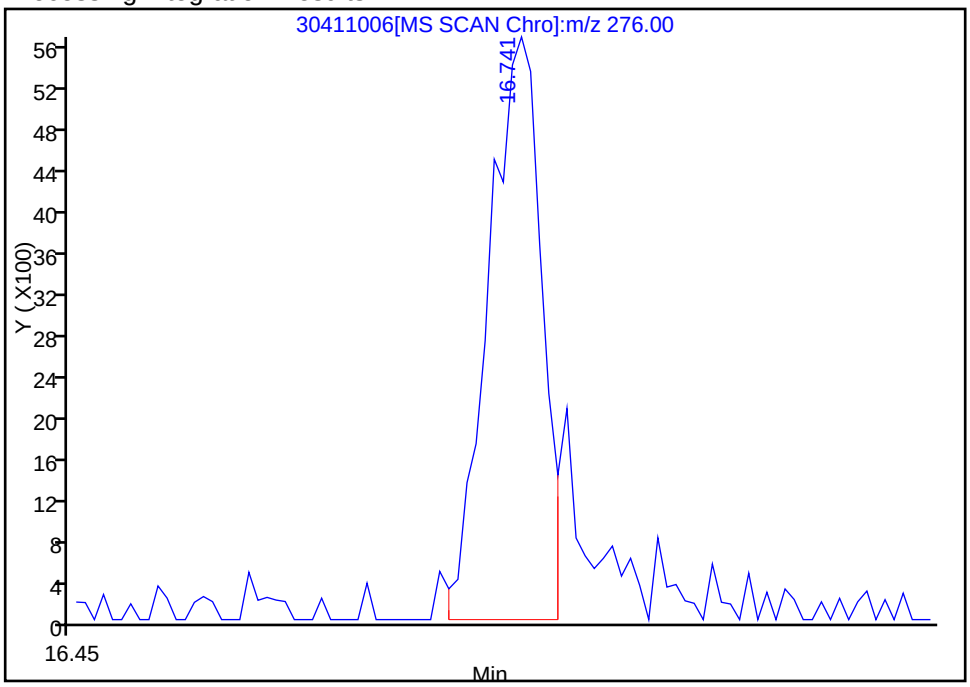
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411006.D		
Injection Date:	11-Apr-2013 19:41:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	6
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

192 Benzo[g,h,i]perylene, Signal: 1, m/z: 276.0 Type: quant, RT: 16.73

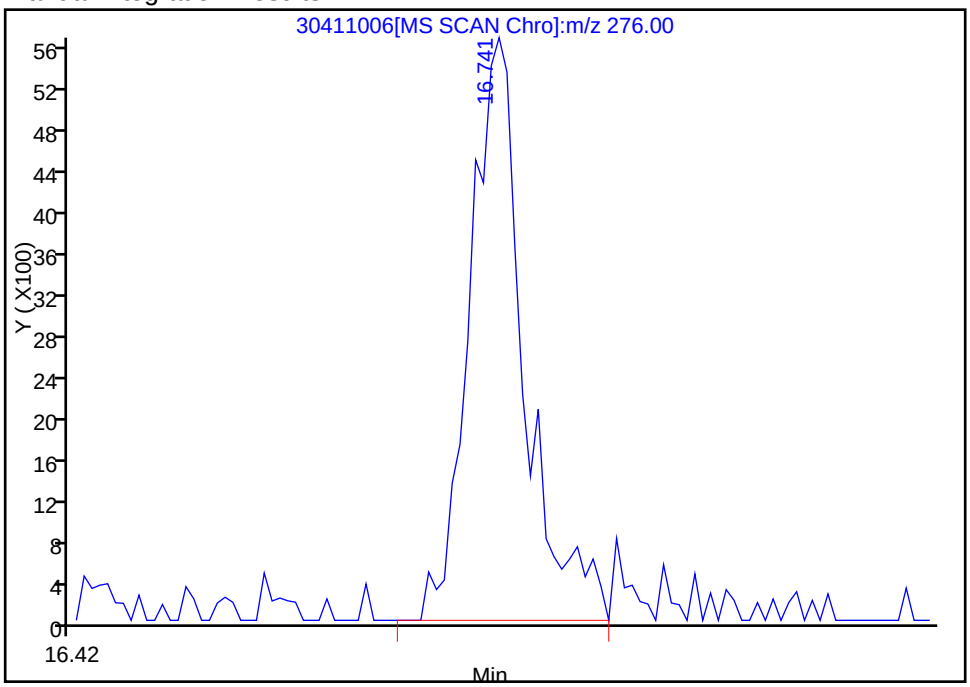
Processing Integration Results

RT: 16.74
Response: 13541
Amount: 0.098343



Manual Integration Results

RT: 16.74
Response: 16019
Amount: 0.114059



Reviewer: gruberj, 12-Apr-2013 08:44:09
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411007.D		
Lims ID:	std9 lst1	Client ID:	
Inject. Date:	11-Apr-2013 20:06:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	9
Sample ID:	240-0018790-007		
Misc. Info.:	STD9 LST1		
Operator:	001710	Instrument ID:	A4HP10
Injection Vol:	1.0 ul	ALS Bottle#:	7
Lims Batch ID:	81609	Lims Sample ID:	7
Sublist:	chrom-8270_10*sub27		
Detector:	MS SCAN		
Method:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\8270_10.m		
Last Update:	12-Apr-2013 09:42:39	Calib Date:	12-Apr-2013 00:58:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK010		
First Level Reviewer: gruberj		Date:	12-Apr-2013 08:45:49

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.954	5.948	0.006	99	179072	4.00	
* 2 Naphthalene-d8	136	7.064	7.064	0.0	100	685495	4.00	
* 3 Acenaphthene-d10	164	8.568	8.562	0.006	95	421629	4.00	
* 4 Phenanthrene-d10	188	9.837	9.832	0.005	98	802221	4.00	
* 5 Chrysene-d12	240	12.446	12.434	0.012	74	881651	4.00	
* 6 Perylene-d12	264	14.567	14.561	0.006	86	697032	4.00	
$ 7 2-Fluorophenol	112	4.708	4.708	0.0	94	1374472	26.5	
$ 8 Phenol-d5	99	5.589	5.583	0.006	91	1802479	26.1	
$ 9 Nitrobenzene-d5	82	6.435	6.430	0.005	90	1687586	26.3	
$ 10 2-Fluorobiphenyl (Surr)	172	7.975	7.975	0.0	99	3475644	25.6	
$ 11 2,4,6-Tribromophenol	330	9.238	9.232	0.006	91	419685	27.2	
$ 12 Terphenyl-d14	244	11.212	11.206	0.006	99	4296101	24.8	
243 n-Decane	57		0.000					
247 Hexadecane	57		0.000					
244 n-Octadecane	57		0.000					
25 1,4-Dioxane	88	2.605	2.605	0.0	98	613896	25.2	M
26 N-Nitrosodimethylamine	74	3.075	3.080	-0.005	81	838090	28.1	M
27 Pyridine	79	3.122	3.127	-0.005	86	1526421	27.6	M
41 Benzaldehyde	77	5.560	5.554	0.006	90	2419130	49.7	
43 Phenol	94	5.601	5.595	0.006	98	1800015	26.5	
44 Aniline	93	5.654	5.648	0.006	95	2254888	27.0	
45 Bis(2-chloroethyl)ether	93	5.707	5.701	0.006	95	1372859	26.1	
47 2-Chlorophenol	128	5.760	5.754	0.006	97	1445797	26.4	
48 1,3-Dichlorobenzene	146	5.901	5.901	0.0	96	1564313	26.4	
49 1,4-Dichlorobenzene	146	5.965	5.965	0.0	92	1597863	26.5	
50 Benzyl alcohol	108	6.059	6.054	0.005	88	931573	26.8	
51 1,2-Dichlorobenzene	146	6.101	6.101	0.0	95	1506525	26.1	
52 2-Methylphenol	108	6.148	6.142	0.006	97	1322999	26.8	
53 Indene	115	6.183	6.177	0.006	74	5494399	53.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
54 2,2'-oxybis[1-chloropropane]	45	6.183	6.177	0.006	54	2048685	25.5	
56 3 & 4 Methylphenol	108	6.277	6.271	0.006	95	1416340	27.5	
57 N-Nitrosodi-n-propylamine	70	6.294	6.289	0.005	91	981255	26.6	
58 Acetophenone	105	6.300	6.294	0.006	93	2040968	26.6	
61 Hexachloroethane	117	6.406	6.400	0.006	95	624884	26.8	
62 Nitrobenzene	77	6.453	6.447	0.006	83	1602028	27.5	
64 Isophorone	82	6.659	6.653	0.006	97	2878480	27.5	
66 2-Nitrophenol	139	6.729	6.723	0.006	97	781408	28.1	
65 2,4-Dimethylphenol	107	6.741	6.741	0.0	96	1423353	26.7	
70 Benzoic acid	122	6.829	6.770	0.059	72	1843013	49.7	
69 Bis(2-chloroethoxy)methane	93	6.829	6.829	0.0	97	1675745	27.2	
72 2,4-Dichlorophenol	162	6.929	6.923	0.006	95	1203520	27.4	
73 1,2,4-Trichlorobenzene	180	7.011	7.005	0.006	93	1386001	27.0	
74 Naphthalene	128	7.088	7.082	0.006	98	4217741	26.5	
75 4-Chloroaniline	127	7.117	7.111	0.006	92	1821542	27.5	
78 Hexachlorobutadiene	225	7.182	7.176	0.006	94	844773	26.9	
83 Caprolactam	113	7.428	7.393	0.035	74	752059	50.0	
85 4-Chloro-3-methylphenol	107	7.511	7.505	0.006	94	1315867	28.1	
87 2-Methylnaphthalene	142	7.675	7.669	0.006	87	2906370	27.2	
88 1-Methylnaphthalene	142	7.763	7.757	0.006	81	2701042	26.9	
89 Hexachlorocyclopentadiene	237	7.805	7.799	0.005	96	973410	29.1	
92 1,2,4,5-Tetrachlorobenzene	216	7.816	7.810	0.006	96	1488320	26.6	
93 2,4,6-Trichlorophenol	196	7.904	7.898	0.006	93	974731	28.0	
94 2,4,5-Trichlorophenol	196	7.934	7.928	0.006	95	1019196	28.3	
98 1,1'-Biphenyl	154	8.069	8.063	0.006	96	3584486	26.3	
100 2-Chloronaphthalene	162	8.092	8.086	0.006	96	2746950	26.5	
102 2-Nitroaniline	65	8.169	8.163	0.006	84	892305	28.0	
105 Dimethyl phthalate	163	8.310	8.304	0.006	98	3169045	26.9	
106 1,3-Dinitrobenzene	168	8.345	8.333	0.012	87	571915	24.7	
107 2,6-Dinitrotoluene	165	8.369	8.357	0.012	90	745495	29.0	
109 Acenaphthylene	152	8.451	8.445	0.006	91	4530188	27.4	
110 3-Nitroaniline	138	8.515	8.510	0.005	92	807490	25.5	
112 Acenaphthene	153	8.598	8.592	0.006	93	3020416	26.3	
111 2,4-Dinitrophenol	184	8.604	8.592	0.012	86	1155637	49.4	
113 4-Nitrophenol	109	8.633	8.615	0.018	94	916895	51.2	
114 2,4-Dinitrotoluene	165	8.709	8.703	0.006	89	996826	25.7	
116 Dibenzofuran	168	8.745	8.739	0.006	85	4168388	26.9	
119 2,3,4,6-Tetrachlorophenol	232	8.839	8.833	0.006	69	894135	28.4	
121 Diethyl phthalate	149	8.909	8.897	0.012	98	3224659	26.5	
123 4-Chlorophenyl phenyl ether	204	9.021	9.015	0.006	89	1773518	26.8	
125 4-Nitroaniline	138	9.038	9.027	0.011	80	840862	29.1	
126 Fluorene	166	9.038	9.032	0.006	83	3399694	27.0	
128 4,6-Dinitro-2-methylphenol	198	9.062	9.050	0.012	75	1444264	51.6	
129 N-Nitrosodiphenylamine	169	9.121	9.115	0.006	95	5139794	54.2	
131 1,2-Diphenylhydrazine	77	9.156	9.150	0.006	96	3358653	26.3	
132 Azobenzene	77	9.156	9.150	0.006	100	3358700	26.3	
139 4-Bromophenyl phenyl ether	248	9.438	9.438	0.0	65	962693	26.9	
141 Hexachlorobenzene	284	9.503	9.497	0.006	93	965125	26.6	
142 Atrazine	200	9.561	9.549	0.012	95	1827685	50.8	
144 Pentachlorophenol	266	9.661	9.655	0.006	88	1367227	51.6	
149 Phenanthrene	178	9.861	9.855	0.006	97	4796788	25.8	
150 Anthracene	178	9.902	9.896	0.006	98	4982659	26.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
152 Carbazole	167	10.025	10.020	0.005	83	4521809	26.5	
155 Di-n-butyl phthalate	149	10.290	10.284	0.006	100	5635613	27.0	
160 Fluoranthene	202	10.877	10.871	0.006	98	5831952	26.6	
161 Benzidine	184	10.977	10.971	0.006	99	4153761	45.3	
162 Pyrene	202	11.095	11.089	0.006	97	5979420	26.3	
170 Butyl benzyl phthalate	149	11.706	11.700	0.006	97	2471624	28.5	
177 3,3'-Dichlorobenzidine	252	12.382	12.370	0.012	68	4172967	58.0	
175 Bis(2-ethylhexyl) phthalate	149	12.405	12.399	0.006	96	3454084	28.3	
179 Benzo[a]anthracene	228	12.434	12.423	0.011	94	5696707	26.0	
180 Chrysene	228	12.481	12.470	0.011	93	5354526	26.6	
182 Di-n-octyl phthalate	149	13.339	13.333	0.006	100	5738584	25.9	
184 Benzo[b]fluoranthene	252	13.980	13.962	0.018	95	5538757	29.6	
185 Benzo[k]fluoranthene	252	14.021	14.003	0.018	90	5491211	27.0	
186 Benzo[a]pyrene	252	14.491	14.473	0.018	73	5056335	29.1	
190 Indeno[1,2,3-cd]pyrene	276	16.289	16.259	0.030	97	5389622	28.3	
191 Dibenz(a,h)anthracene	278	16.318	16.295	0.023	75	4574297	28.8	
192 Benzo[g,h,i]perylene	276	16.759	16.729	0.030	93	4453982	27.4	
S 193 Methyl Phenols,Total	100				0		54.2	

QC Flag Legend

Review Flags
M - Manually Integrated

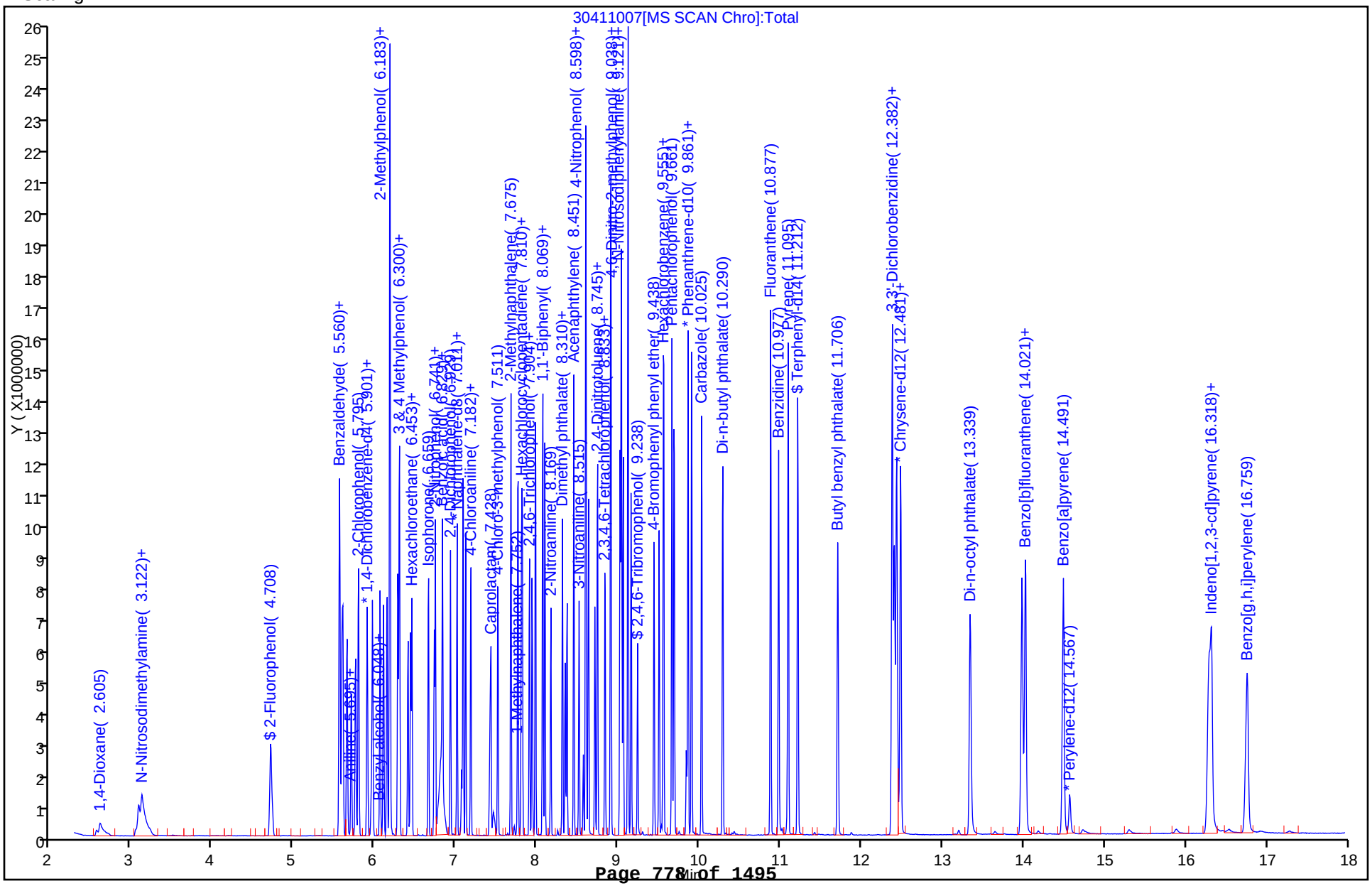
Report Date: 12-Apr-2013 09:42:40 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411007.D

Injection Date:	11-Apr-2013 20:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	7
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

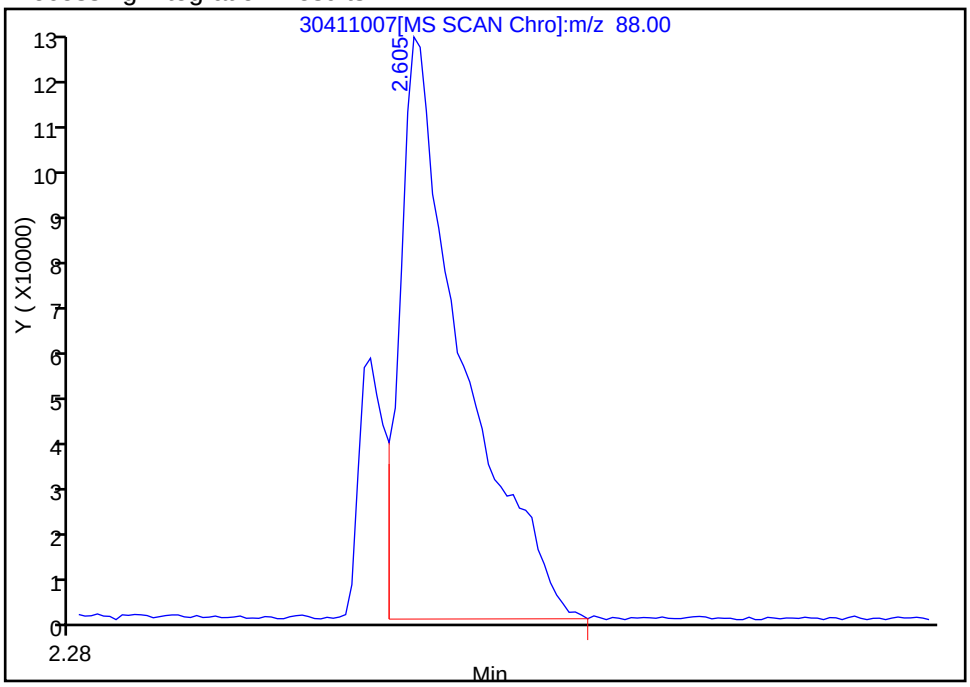
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411007.D		
Injection Date:	11-Apr-2013 20:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	7
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

25 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 2.60

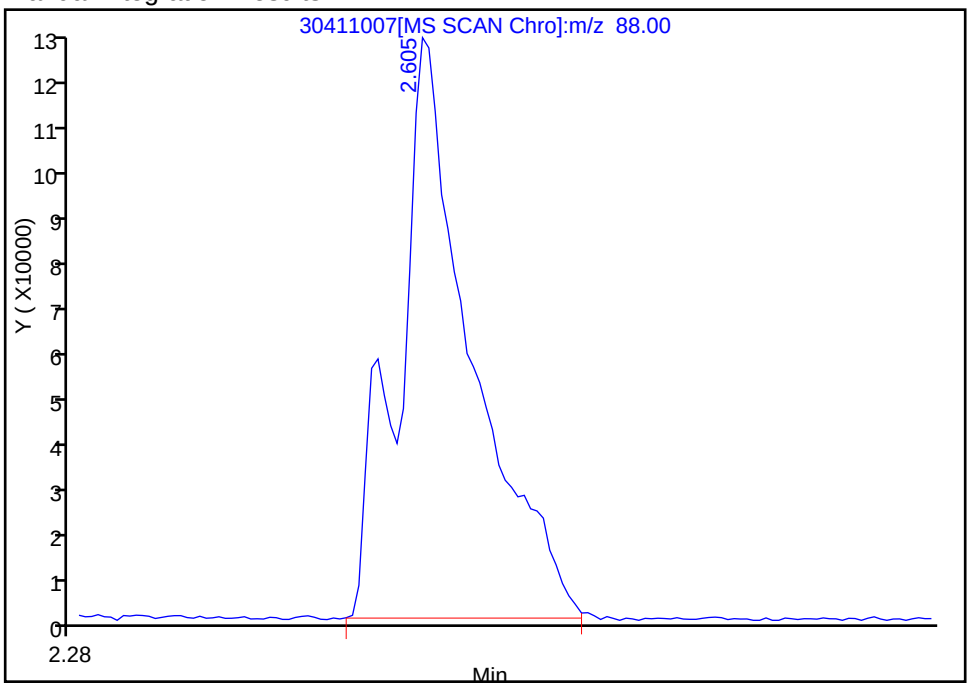
Processing Integration Results

RT: 2.60
Response: 531502
Amount: 24.462134



Manual Integration Results

RT: 2.60
Response: 613896
Amount: 25.240846



Reviewer: gruberj, 12-Apr-2013 08:45:49
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

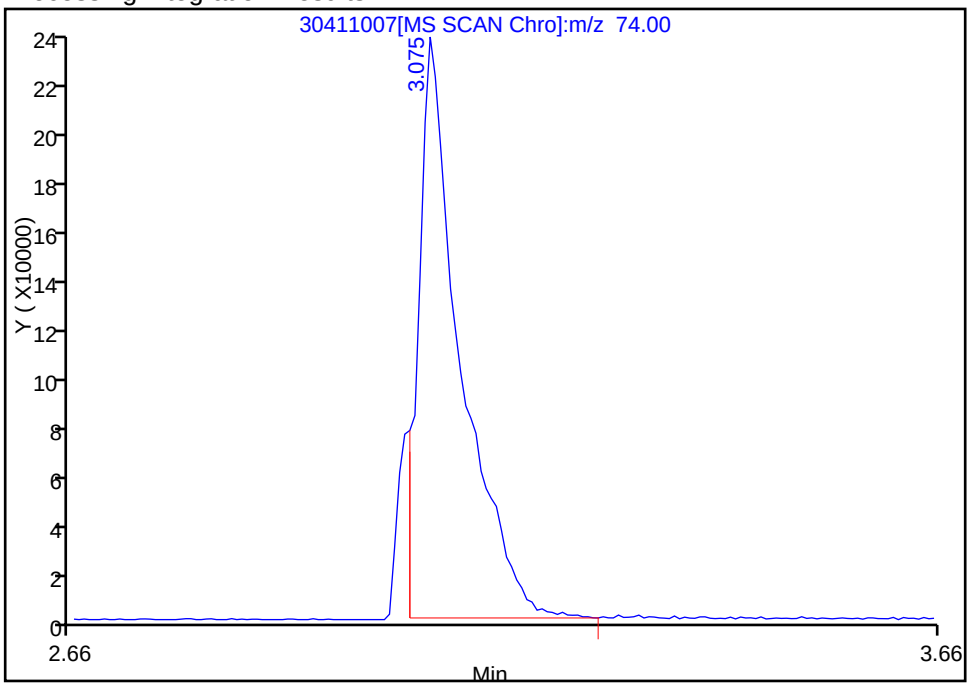
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411007.D		
Injection Date:	11-Apr-2013 20:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	7
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

26 N-Nitrosodimethylamine, Signal: 1, m/z: 74.0 Type: quant, RT: 3.08

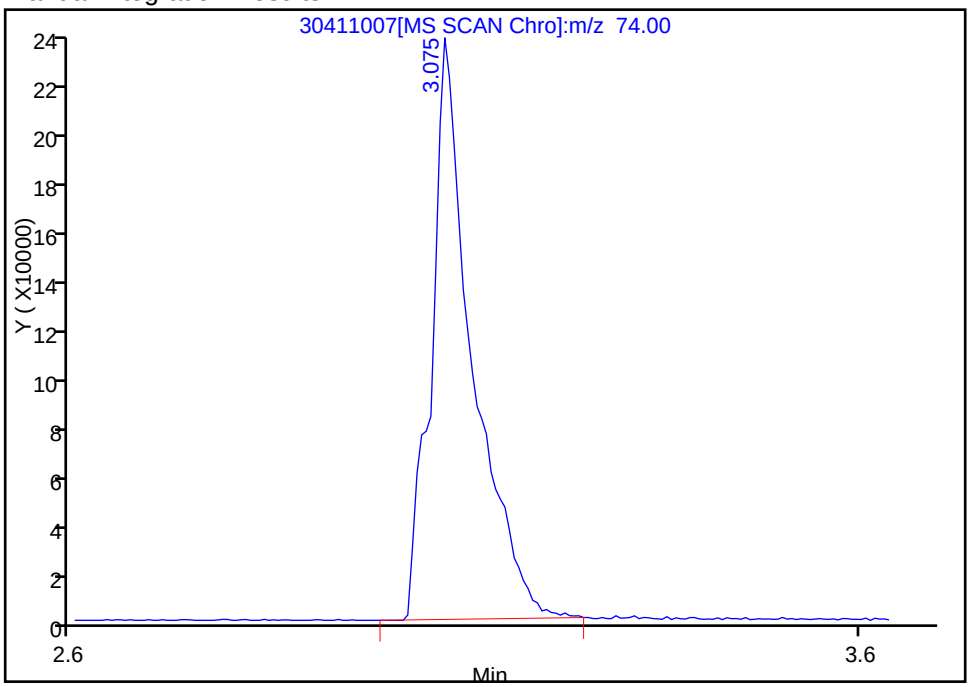
Processing Integration Results

RT: 3.07
Response: 781076
Amount: 26.417605



Manual Integration Results

RT: 3.07
Response: 838090
Amount: 28.075244



Reviewer: gruberj, 12-Apr-2013 08:45:49
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

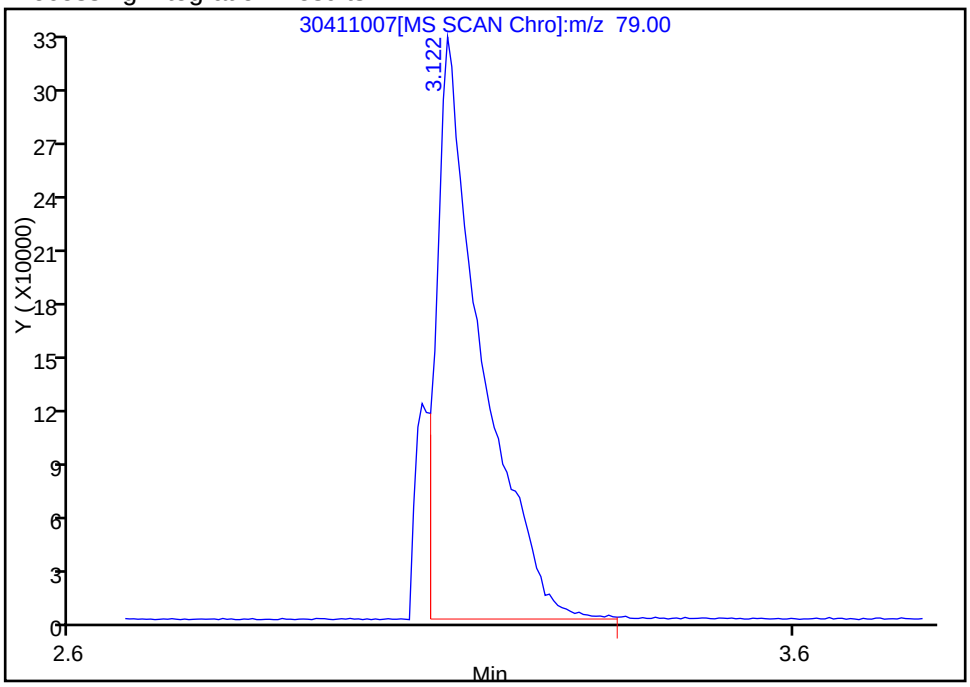
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411007.D		
Injection Date:	11-Apr-2013 20:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	7
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

27 Pyridine, Signal: 1, m/z: 79.0 Type: quant, RT: 3.13

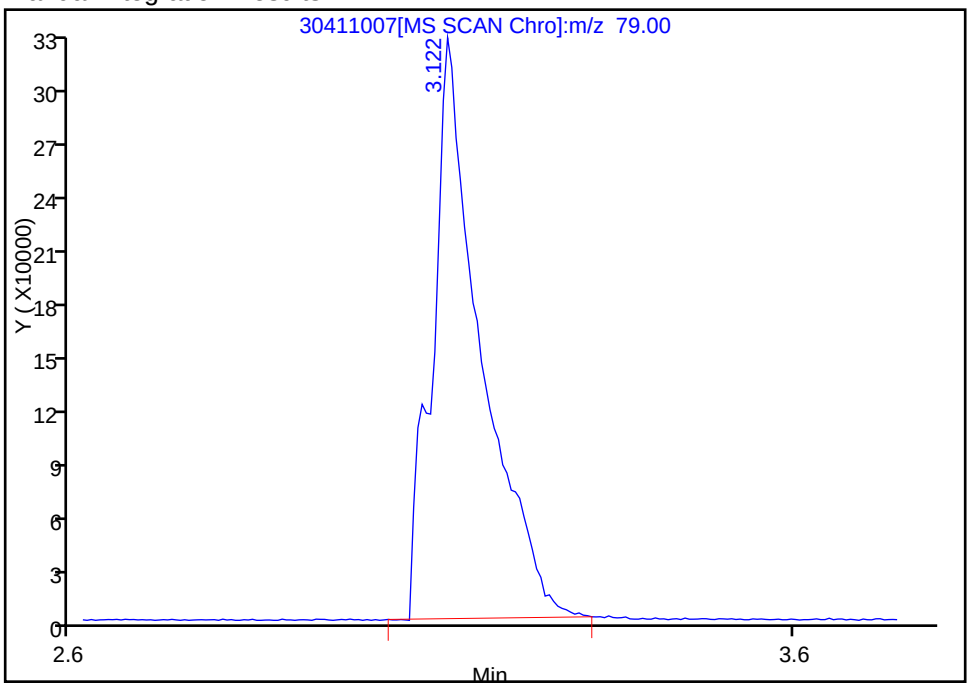
Processing Integration Results

RT: 3.12
Response: 1401349
Amount: 26.137300



Manual Integration Results

RT: 3.12
Response: 1526421
Amount: 27.569322



Reviewer: gruberj, 12-Apr-2013 08:45:49
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411008.D		
Lims ID:	std8 lst1	Client ID:	
Inject. Date:	11-Apr-2013 20:30:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	8
Sample ID:	240-0018790-008		
Misc. Info.:	STD8 LST1		
Operator:	001710	Instrument ID:	A4HP10
Injection Vol:	1.0 ul	ALS Bottle#:	8
Lims Batch ID:	81609	Lims Sample ID:	8
Sublist:	chrom-8270_10*sub27		
Detector:	MS SCAN		
Method:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\8270_10.m		
Last Update:	12-Apr-2013 09:42:41	Calib Date:	12-Apr-2013 00:58:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK010		
First Level Reviewer: gruberj		Date:	12-Apr-2013 08:46:12

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.954	5.948	0.006	99	159887	4.00	
* 2 Naphthalene-d8	136	7.064	7.064	0.0	100	637323	4.00	
* 3 Acenaphthene-d10	164	8.568	8.562	0.006	94	385550	4.00	
* 4 Phenanthrene-d10	188	9.837	9.832	0.005	97	729140	4.00	
* 5 Chrysene-d12	240	12.446	12.434	0.012	73	798751	4.00	
* 6 Perylene-d12	264	14.567	14.561	0.006	97	626193	4.00	
$ 7 2-Fluorophenol	112	4.708	4.708	0.0	94	1019750	22.0	
$ 8 Phenol-d5	99	5.589	5.583	0.006	84	1324647	21.5	
$ 9 Nitrobenzene-d5	82	6.435	6.430	0.005	89	1253671	21.0	
$ 10 2-Fluorobiphenyl (Surr)	172	7.975	7.975	0.0	99	2588455	20.8	
$ 11 2,4,6-Tribromophenol	330	9.238	9.232	0.006	92	314870	22.3	
$ 12 Terphenyl-d14	244	11.212	11.206	0.006	99	3202684	20.4	
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
247 Hexadecane	57		0.000					
25 1,4-Dioxane	88	2.599	2.605	-0.006	94	456631	21.0	M
26 N-Nitrosodimethylamine	74	3.075	3.080	-0.005	86	617209	23.2	
27 Pyridine	79	3.122	3.127	-0.005	86	1133431	22.9	M
41 Benzaldehyde	77	5.560	5.554	0.006	90	1854574	42.6	
43 Phenol	94	5.601	5.595	0.006	95	1318676	21.7	
44 Aniline	93	5.648	5.648	0.0	94	1655621	22.2	
45 Bis(2-chloroethyl)ether	93	5.701	5.701	0.0	95	1014397	21.6	
47 2-Chlorophenol	128	5.760	5.754	0.006	97	1077716	22.0	
48 1,3-Dichlorobenzene	146	5.901	5.901	0.0	96	1167765	22.1	
49 1,4-Dichlorobenzene	146	5.965	5.965	0.0	91	1170215	21.7	
50 Benzyl alcohol	108	6.059	6.054	0.005	88	701146	22.6	
51 1,2-Dichlorobenzene	146	6.101	6.101	0.0	94	1106213	21.5	
52 2-Methylphenol	108	6.142	6.142	0.0	99	992388	22.5	
53 Indene	115	6.183	6.177	0.006	74	4034385	44.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
54 2,2'-oxybis[1-chloropropane]	45	6.183	6.177	0.006	54	1539760	21.5	
56 3 & 4 Methylphenol	108	6.277	6.271	0.006	94	1041736	22.6	
57 N-Nitrosodi-n-propylamine	70	6.294	6.289	0.005	86	746863	22.7	
58 Acetophenone	105	6.300	6.294	0.006	94	1537279	22.4	
61 Hexachloroethane	117	6.406	6.400	0.006	95	463611	22.2	
62 Nitrobenzene	77	6.453	6.447	0.006	90	1174656	21.7	
64 Isophorone	82	6.653	6.653	0.0	97	2113040	21.7	
66 2-Nitrophenol	139	6.729	6.723	0.006	97	580438	22.4	
65 2,4-Dimethylphenol	107	6.741	6.741	0.0	95	1049259	21.1	
70 Benzoic acid	122	6.817	6.770	0.047	86	1321942	40.5	
69 Bis(2-chloroethoxy)methane	93	6.829	6.829	0.0	92	1251022	21.8	
72 2,4-Dichlorophenol	162	6.929	6.923	0.006	94	921670	22.6	
73 1,2,4-Trichlorobenzene	180	7.011	7.005	0.006	94	1007617	21.1	
74 Naphthalene	128	7.082	7.082	0.0	99	3124385	21.1	
75 4-Chloroaniline	127	7.117	7.111	0.006	92	1349033	21.9	
78 Hexachlorobutadiene	225	7.182	7.176	0.006	93	619873	21.2	
83 Caprolactam	113	7.417	7.393	0.024	77	585692	41.9	
85 4-Chloro-3-methylphenol	107	7.511	7.505	0.006	96	979841	22.5	
87 2-Methylnaphthalene	142	7.675	7.669	0.006	86	2156428	21.7	
88 1-Methylnaphthalene	142	7.763	7.757	0.006	84	1993146	21.4	
89 Hexachlorocyclopentadiene	237	7.804	7.799	0.005	97	703575	23.0	
92 1,2,4,5-Tetrachlorobenzene	216	7.816	7.810	0.006	96	1116276	21.8	
93 2,4,6-Trichlorophenol	196	7.904	7.898	0.006	92	719538	22.6	
94 2,4,5-Trichlorophenol	196	7.934	7.928	0.006	95	752941	22.8	
98 1,1'-Biphenyl	154	8.069	8.063	0.006	96	2682254	21.5	
100 2-Chloronaphthalene	162	8.092	8.086	0.006	97	2038401	21.5	
102 2-Nitroaniline	65	8.169	8.163	0.006	84	679648	23.3	
105 Dimethyl phthalate	163	8.310	8.304	0.006	99	2380318	22.1	
106 1,3-Dinitrobenzene	168	8.345	8.333	0.012	89	420859	20.7	
107 2,6-Dinitrotoluene	165	8.369	8.357	0.011	73	541120	23.0	
109 Acenaphthylene	152	8.451	8.445	0.006	92	3397756	22.5	
110 3-Nitroaniline	138	8.515	8.510	0.005	92	614393	21.3	
112 Acenaphthene	153	8.598	8.592	0.006	93	2225735	21.2	
111 2,4-Dinitrophenol	184	8.604	8.592	0.012	84	846839	41.5	
113 4-Nitrophenol	109	8.627	8.615	0.012	94	690447	42.2	
114 2,4-Dinitrotoluene	165	8.709	8.703	0.006	87	741070	20.9	
116 Dibenzofuran	168	8.745	8.739	0.006	87	3072843	21.7	
119 2,3,4,6-Tetrachlorophenol	232	8.833	8.833	0.0	72	663232	23.0	
121 Diethyl phthalate	149	8.903	8.897	0.006	96	2381820	21.4	
123 4-Chlorophenyl phenyl ether	204	9.021	9.015	0.006	89	1322001	21.8	
125 4-Nitroaniline	138	9.038	9.027	0.011	81	619876	23.5	
126 Fluorene	166	9.032	9.032	0.0	82	2549442	22.2	
128 4,6-Dinitro-2-methylphenol	198	9.062	9.050	0.012	80	1067240	42.1	
129 N-Nitrosodiphenylamine	169	9.121	9.115	0.006	85	3811548	44.2	
131 1,2-Diphenylhydrazine	77	9.156	9.150	0.006	96	2525643	21.8	
132 Azobenzene	77	9.156	9.150	0.006	100	2525643	21.8	
139 4-Bromophenyl phenyl ether	248	9.438	9.438	0.0	66	708183	21.8	
141 Hexachlorobenzene	284	9.502	9.497	0.005	92	700791	21.3	
142 Atrazine	200	9.555	9.549	0.006	93	1386960	42.4	
144 Pentachlorophenol	266	9.661	9.655	0.006	89	1004742	41.8	
149 Phenanthrene	178	9.861	9.855	0.006	97	3587420	21.2	
150 Anthracene	178	9.902	9.896	0.006	98	3719428	22.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
152 Carbazole	167	10.025	10.020	0.005	83	3327408	21.5	
155 Di-n-butyl phthalate	149	10.290	10.284	0.006	100	4202076	22.2	
160 Fluoranthene	202	10.877	10.871	0.006	98	4398503	22.1	
161 Benzidine	184	10.977	10.971	0.006	99	3323668	40.0	
162 Pyrene	202	11.095	11.089	0.006	97	4447349	21.6	
170 Butyl benzyl phthalate	149	11.706	11.700	0.006	97	1823367	23.2	
177 3,3'-Dichlorobenzidine	252	12.382	12.370	0.012	66	3063990	47.0	
175 Bis(2-ethylhexyl) phthalate	149	12.405	12.399	0.006	96	2580079	23.3	
179 Benzo[a]anthracene	228	12.434	12.423	0.011	94	4218541	21.2	
180 Chrysene	228	12.481	12.470	0.011	94	3906119	21.4	
182 Di-n-octyl phthalate	149	13.339	13.333	0.006	100	4175696	21.1	
184 Benzo[b]fluoranthene	252	13.980	13.962	0.018	85	3822093	22.7	
185 Benzo[k]fluoranthene	252	14.021	14.003	0.018	86	4274606	23.4	
186 Benzo[a]pyrene	252	14.485	14.473	0.012	75	3773468	24.2	
190 Indeno[1,2,3-cd]pyrene	276	16.283	16.259	0.024	97	4025972	23.5	
191 Dibenz(a,h)anthracene	278	16.312	16.295	0.017	88	3373446	23.6	
192 Benzo[g,h,i]perylene	276	16.759	16.729	0.030	96	3287841	22.5	
S 193 Methyl Phenols,Total	100				0		45.1	

QC Flag Legend

Review Flags
M - Manually Integrated

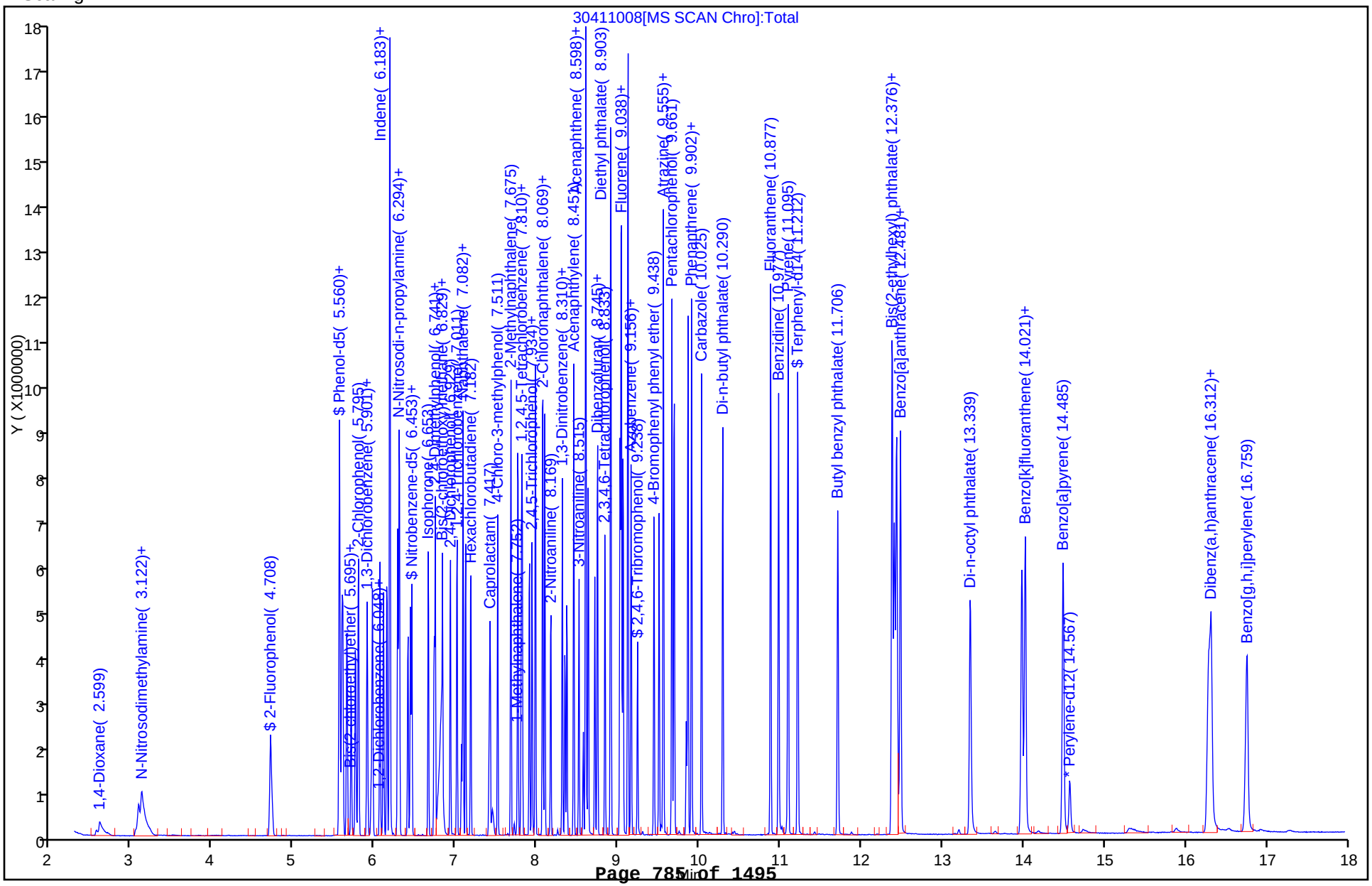
Report Date: 12-Apr-2013 09:42:41 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411008.D

Injection Date:	11-Apr-2013 20:30:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	8
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

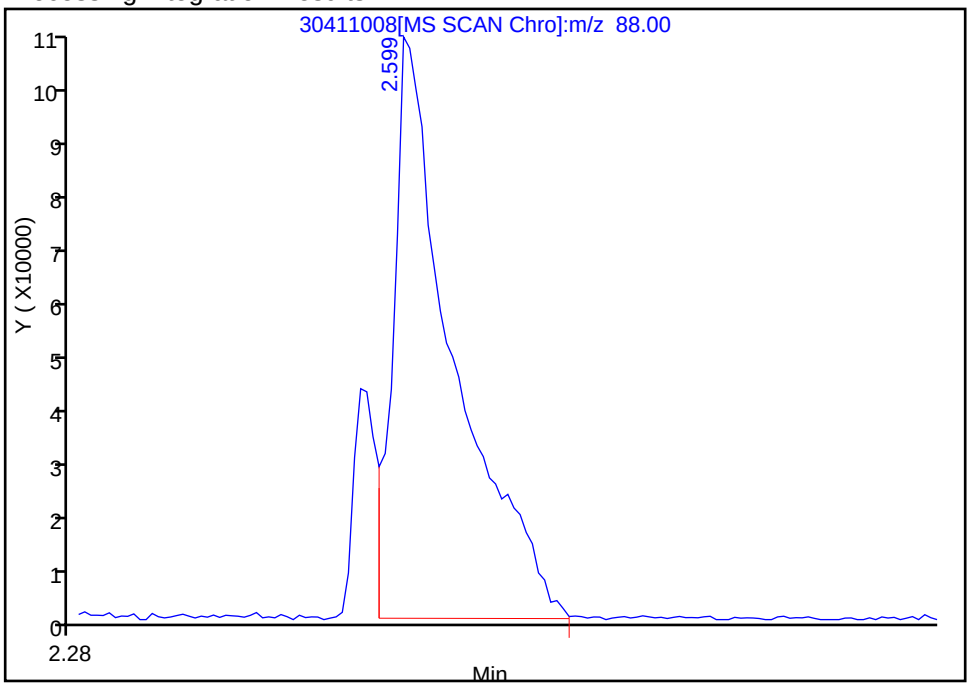
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411008.D		
Injection Date:	11-Apr-2013 20:30:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	8
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

25 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 2.60

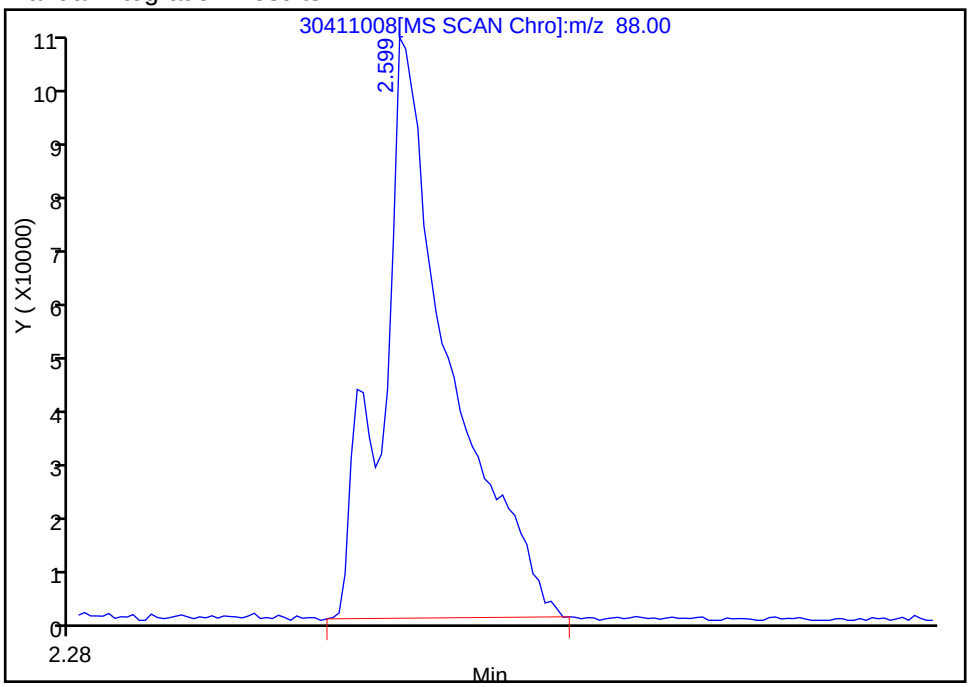
Processing Integration Results

RT: 2.60
Response: 407760
Amount: 19.913147



Manual Integration Results

RT: 2.60
Response: 456631
Amount: 20.995114



Reviewer: gruberj, 12-Apr-2013 08:47:03
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

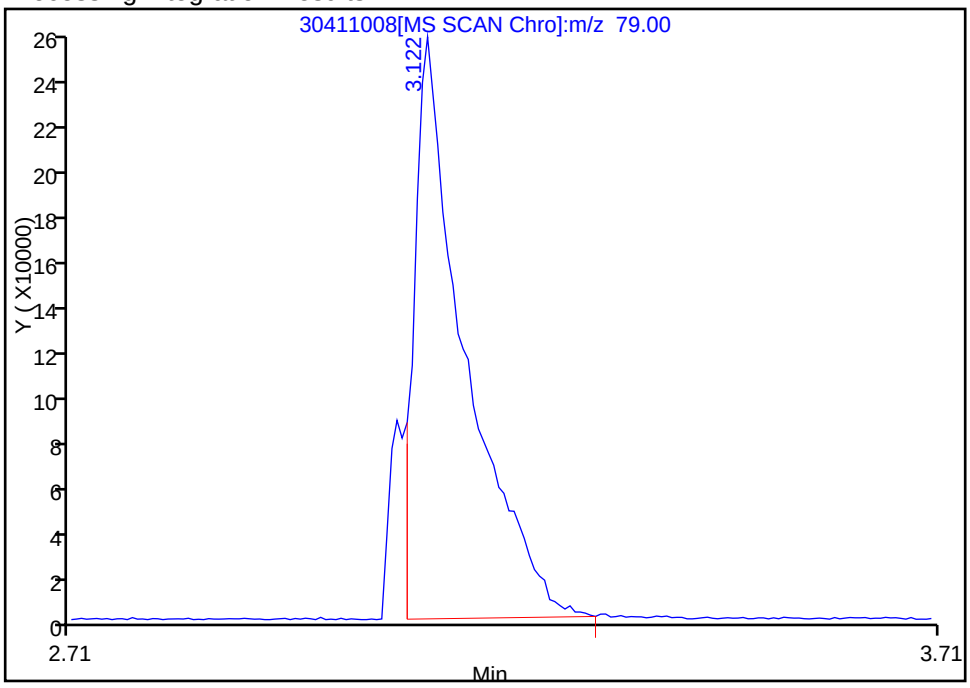
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411008.D		
Injection Date:	11-Apr-2013 20:30:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	8
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

27 Pyridine, Signal: 1, m/z: 79.0 Type: quant, RT: 3.13

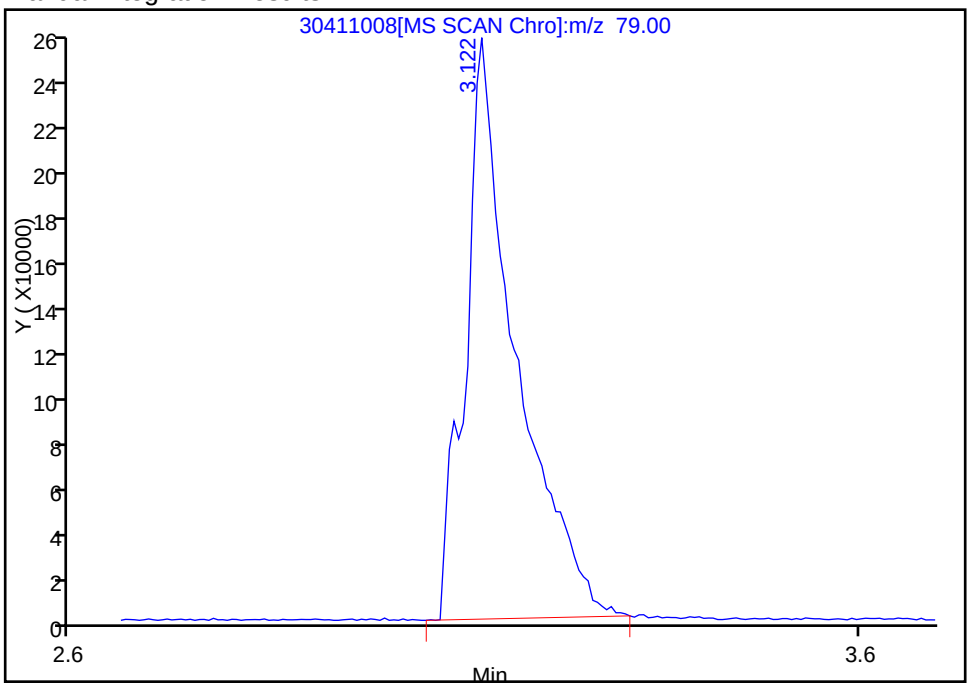
Processing Integration Results

RT: 3.12
Response: 1040124
Amount: 21.477207



Manual Integration Results

RT: 3.12
Response: 1133431
Amount: 22.927746



Reviewer: gruberj, 12-Apr-2013 08:47:03
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411009.D		
Lims ID:	std7 lst1	Client ID:	
Inject. Date:	11-Apr-2013 20:54:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	240-0018790-009		
Misc. Info.:	STD7 LST1		
Operator:	001710	Instrument ID:	A4HP10
Injection Vol:	1.0 ul	ALS Bottle#:	9
Lims Batch ID:	81609	Lims Sample ID:	9
Sublist:	chrom-8270_10*sub27		
Detector:	MS SCAN		
Method:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\8270_10.m		
Last Update:	12-Apr-2013 09:42:42	Calib Date:	12-Apr-2013 00:58:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK010		
First Level Reviewer: gruberj		Date:	12-Apr-2013 09:18:46

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.948	5.948	0.0	99	158817	4.00	
* 2 Naphthalene-d8	136	7.064	7.064	0.0	100	626619	4.00	
* 3 Acenaphthene-d10	164	8.568	8.562	0.006	93	382593	4.00	
* 4 Phenanthrene-d10	188	9.837	9.832	0.005	97	705492	4.00	
* 5 Chrysene-d12	240	12.446	12.434	0.012	84	767648	4.00	
* 6 Perylene-d12	264	14.567	14.561	0.006	94	589681	4.00	
$ 7 2-Fluorophenol	112	4.708	4.708	0.0	94	690564	15.0	
$ 8 Phenol-d5	99	5.589	5.583	0.006	85	918111	15.0	
$ 9 Nitrobenzene-d5	82	6.435	6.430	0.005	88	851694	14.5	
$ 10 2-Fluorobiphenyl (Surr)	172	7.975	7.975	0.0	99	1749682	14.2	
$ 11 2,4,6-Tribromophenol	330	9.238	9.232	0.006	94	210950	15.1	
$ 12 Terphenyl-d14	244	11.212	11.206	0.006	99	2113488	14.0	
247 Hexadecane	57		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
25 1,4-Dioxane	88	2.604	2.605	-0.001	97	318938	14.7	M
26 N-Nitrosodimethylamine	74	3.074	3.080	-0.006	86	431177	16.3	
27 Pyridine	79	3.127	3.127	0.0	87	761099	15.5	M
41 Benzaldehyde	77	5.560	5.554	0.006	89	1287806	29.8	
43 Phenol	94	5.601	5.595	0.006	93	906309	15.0	
44 Aniline	93	5.648	5.648	0.0	96	1140436	15.4	
45 Bis(2-chloroethyl)ether	93	5.701	5.701	0.0	95	700352	15.0	
47 2-Chlorophenol	128	5.754	5.754	0.0	97	741747	15.3	
48 1,3-Dichlorobenzene	146	5.901	5.901	0.0	96	787251	15.0	
49 1,4-Dichlorobenzene	146	5.965	5.965	0.0	90	807048	15.1	
50 Benzyl alcohol	108	6.059	6.054	0.005	90	464490	15.1	
51 1,2-Dichlorobenzene	146	6.100	6.101	-0.001	94	760626	14.9	
52 2-Methylphenol	108	6.142	6.142	0.0	98	666396	15.2	
53 Indene	115	6.183	6.177	0.006	74	2751804	30.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
54 2,2'-oxybis[1-chloropropane]	45	6.177	6.177	0.0	55	1061693	14.9	
56 3 & 4 Methylphenol	108	6.277	6.271	0.006	94	717322	15.7	
57 N-Nitrosodi-n-propylamine	70	6.288	6.289	-0.001	92	494855	15.1	
58 Acetophenone	105	6.300	6.294	0.006	87	1038746	15.2	
61 Hexachloroethane	117	6.406	6.400	0.006	94	308811	14.9	
62 Nitrobenzene	77	6.453	6.447	0.006	87	798340	15.0	
64 Isophorone	82	6.653	6.653	0.0	97	1422719	14.9	
66 2-Nitrophenol	139	6.729	6.723	0.006	96	392319	15.4	
65 2,4-Dimethylphenol	107	6.741	6.741	0.0	95	734837	15.1	
70 Benzoic acid	122	6.805	6.770	0.035	84	915153	30.4	
69 Bis(2-chloroethoxy)methane	93	6.829	6.829	0.0	98	847988	15.1	
72 2,4-Dichlorophenol	162	6.929	6.923	0.006	95	610741	15.2	
73 1,2,4-Trichlorobenzene	180	7.011	7.005	0.006	93	697687	14.9	
74 Naphthalene	128	7.082	7.082	0.0	99	2119044	14.6	
75 4-Chloroaniline	127	7.117	7.111	0.006	82	904763	14.9	
78 Hexachlorobutadiene	225	7.182	7.176	0.006	93	434009	15.1	
83 Caprolactam	113	7.411	7.393	0.018	76	393097	28.6	
85 4-Chloro-3-methylphenol	107	7.511	7.505	0.006	97	647307	15.1	
87 2-Methylnaphthalene	142	7.675	7.669	0.006	86	1447157	14.8	
88 1-Methylnaphthalene	142	7.763	7.757	0.006	80	1341167	14.6	
89 Hexachlorocyclopentadiene	237	7.804	7.799	0.005	95	473002	15.6	
92 1,2,4,5-Tetrachlorobenzene	216	7.816	7.810	0.006	95	757357	14.9	
93 2,4,6-Trichlorophenol	196	7.904	7.898	0.006	91	475201	15.1	
94 2,4,5-Trichlorophenol	196	7.934	7.928	0.006	96	513976	15.7	
98 1,1'-Biphenyl	154	8.069	8.063	0.006	96	1814335	14.7	
100 2-Chloronaphthalene	162	8.092	8.086	0.006	97	1384207	14.7	
102 2-Nitroaniline	65	8.163	8.163	0.0	78	450748	15.6	
105 Dimethyl phthalate	163	8.310	8.304	0.006	99	1591726	14.9	
106 1,3-Dinitrobenzene	168	8.339	8.333	0.006	81	272790	14.5	
107 2,6-Dinitrotoluene	165	8.363	8.357	0.005	81	362216	15.5	
109 Acenaphthylene	152	8.451	8.445	0.006	91	2264456	15.1	
110 3-Nitroaniline	138	8.515	8.510	0.005	93	407279	14.3	
112 Acenaphthene	153	8.598	8.592	0.006	93	1501648	14.4	
111 2,4-Dinitrophenol	184	8.598	8.592	0.006	76	543421	29.1	
113 4-Nitrophenol	109	8.627	8.615	0.012	95	451620	28.0	
114 2,4-Dinitrotoluene	165	8.709	8.703	0.006	85	500634	14.4	
116 Dibenzofuran	168	8.744	8.739	0.005	88	2084699	14.8	
119 2,3,4,6-Tetrachlorophenol	232	8.833	8.833	0.0	72	443171	15.5	
121 Diethyl phthalate	149	8.903	8.897	0.006	97	1606486	14.5	
123 4-Chlorophenyl phenyl ether	204	9.021	9.015	0.006	89	888302	14.8	
125 4-Nitroaniline	138	9.032	9.027	0.005	59	402223	15.4	
126 Fluorene	166	9.032	9.032	0.0	81	1715125	15.0	
128 4,6-Dinitro-2-methylphenol	198	9.056	9.050	0.006	84	687048	28.3	
129 N-Nitrosodiphenylamine	169	9.120	9.115	0.005	92	2548336	30.6	
131 1,2-Diphenylhydrazine	77	9.156	9.150	0.006	97	1684936	15.0	
132 Azobenzene	77	9.156	9.150	0.006	100	1684573	15.0	
139 4-Bromophenyl phenyl ether	248	9.438	9.438	0.0	64	480803	15.3	
141 Hexachlorobenzene	284	9.502	9.497	0.005	88	466336	14.6	
142 Atrazine	200	9.555	9.549	0.006	94	947131	29.9	
144 Pentachlorophenol	266	9.661	9.655	0.006	89	639454	27.7	
149 Phenanthrene	178	9.861	9.855	0.006	97	2415849	14.8	
150 Anthracene	178	9.902	9.896	0.006	98	2473597	15.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
152 Carbazole	167	10.025	10.020	0.005	83	2208075	14.7	
155 Di-n-butyl phthalate	149	10.290	10.284	0.006	100	2780848	15.2	
160 Fluoranthene	202	10.877	10.871	0.006	98	2924418	15.2	
161 Benzidine	184	10.977	10.971	0.006	99	2393102	30.0	
162 Pyrene	202	11.095	11.089	0.006	97	2951426	14.9	
170 Butyl benzyl phthalate	149	11.706	11.700	0.006	97	1199894	15.9	
177 3,3'-Dichlorobenzidine	252	12.376	12.370	0.006	68	1974516	31.5	
175 Bis(2-ethylhexyl) phthalate	149	12.405	12.399	0.006	96	1676382	15.8	
179 Benzo[a]anthracene	228	12.428	12.423	0.005	96	2822861	14.8	
180 Chrysene	228	12.481	12.470	0.011	93	2601044	14.8	
182 Di-n-octyl phthalate	149	13.345	13.333	0.012	100	2634916	14.3	
184 Benzo[b]fluoranthene	252	13.980	13.962	0.018	86	2541953	16.1	
185 Benzo[k]fluoranthene	252	14.021	14.003	0.018	86	2783215	16.2	
186 Benzo[a]pyrene	252	14.485	14.473	0.012	75	2432666	16.6	
190 Indeno[1,2,3-cd]pyrene	276	16.277	16.259	0.018	90	2592538	16.1	
191 Dibenz(a,h)anthracene	278	16.312	16.295	0.017	85	2170597	16.2	
192 Benzo[g,h,i]perylene	276	16.747	16.729	0.018	89	2140344	15.6	
S 193 Methyl Phenols,Total	100				0		30.9	

QC Flag Legend

Review Flags
M - Manually Integrated

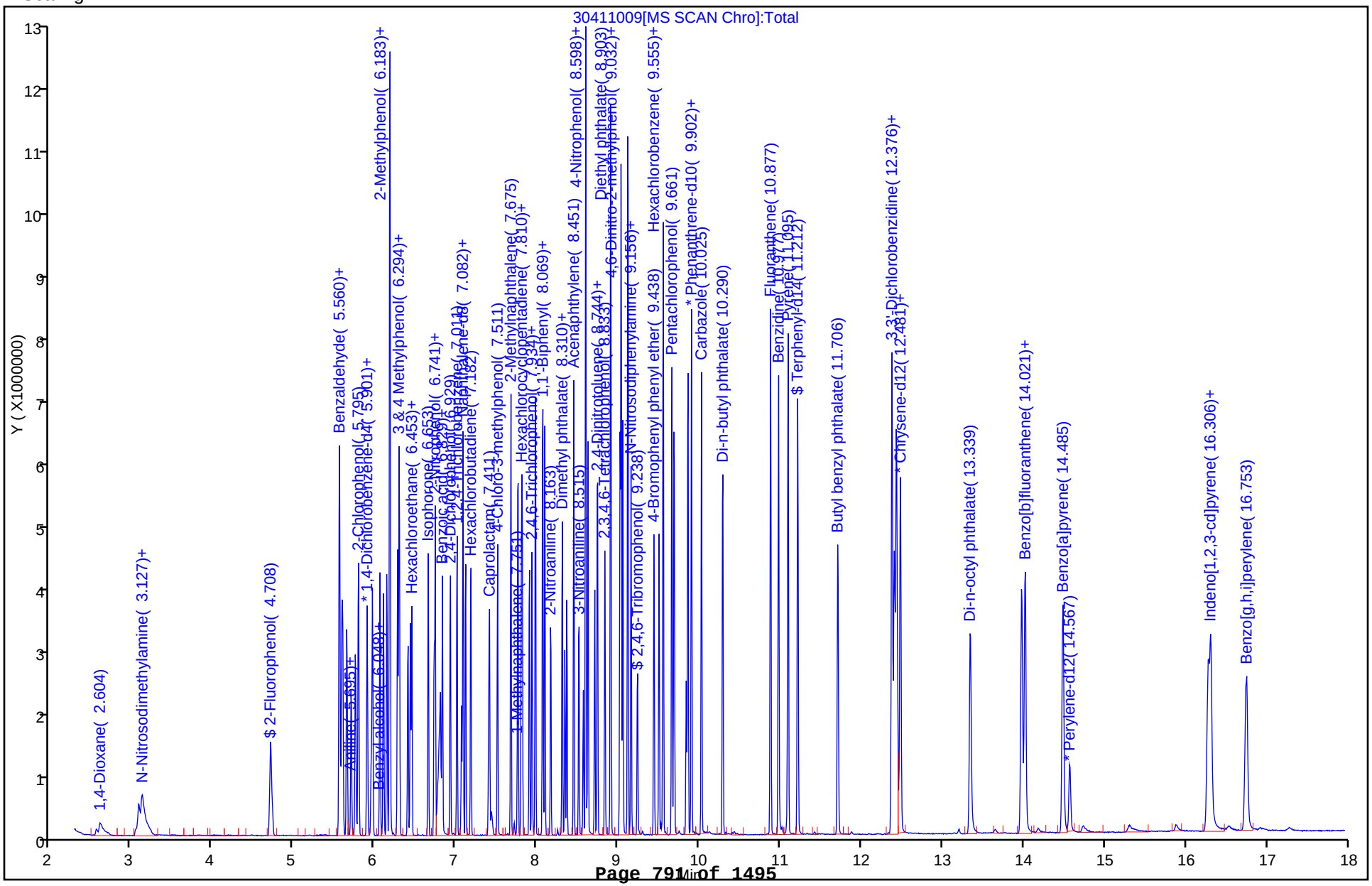
Report Date: 12-Apr-2013 09:42:42 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411009.D

Injection Date:	11-Apr-2013 20:54:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	9
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

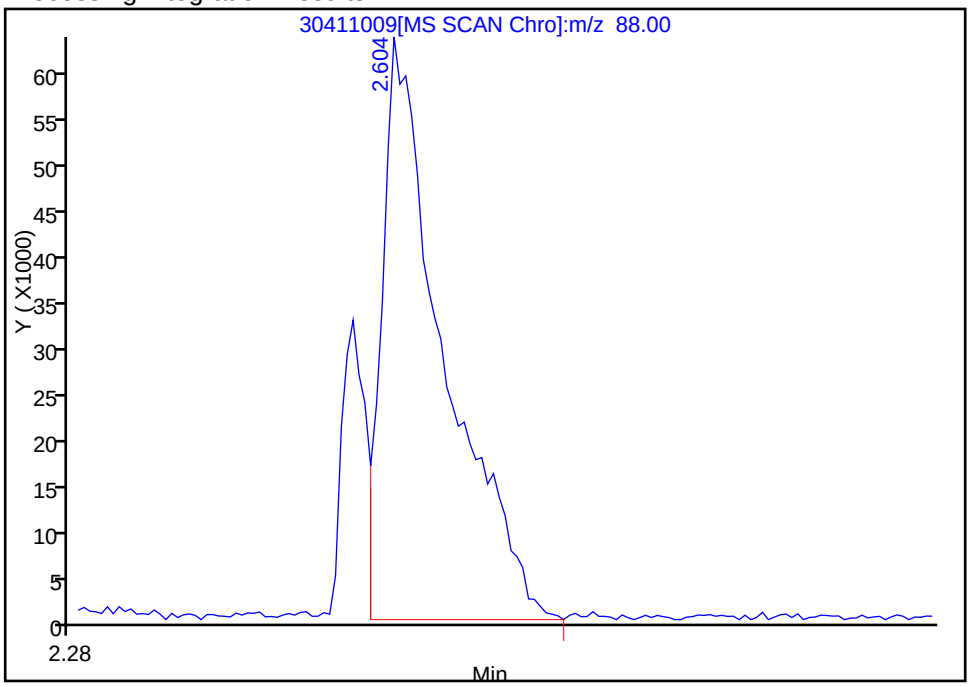
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411009.D		
Injection Date:	11-Apr-2013 20:54:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	9
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

25 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 2.60

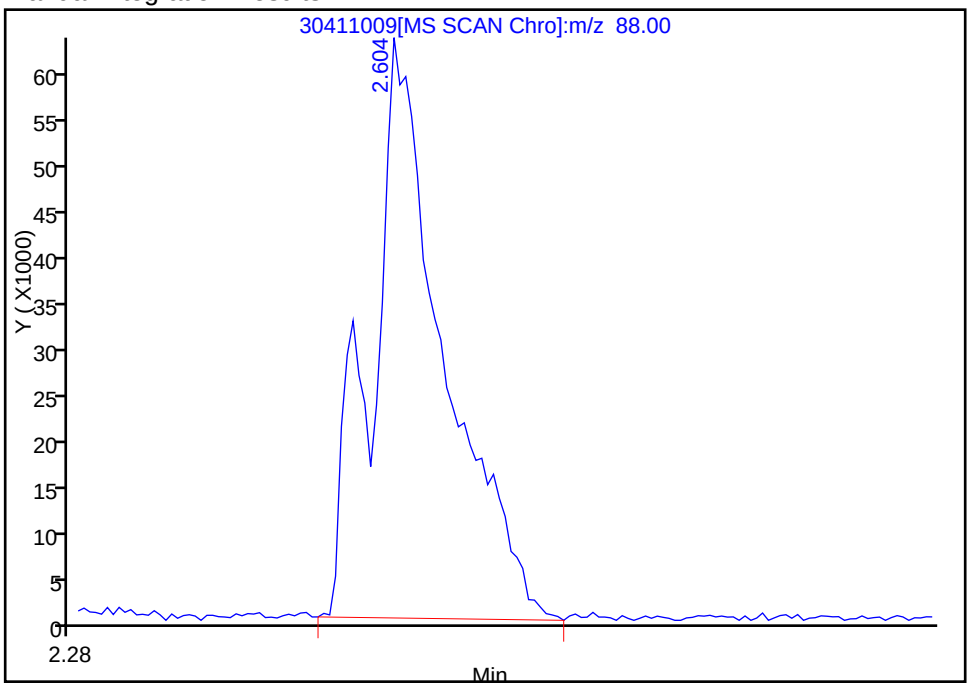
Processing Integration Results

RT: 2.60
Response: 272773
Amount: 12.910987



Manual Integration Results

RT: 2.60
Response: 318938
Amount: 14.705312



Reviewer: gruberj, 12-Apr-2013 09:18:46
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

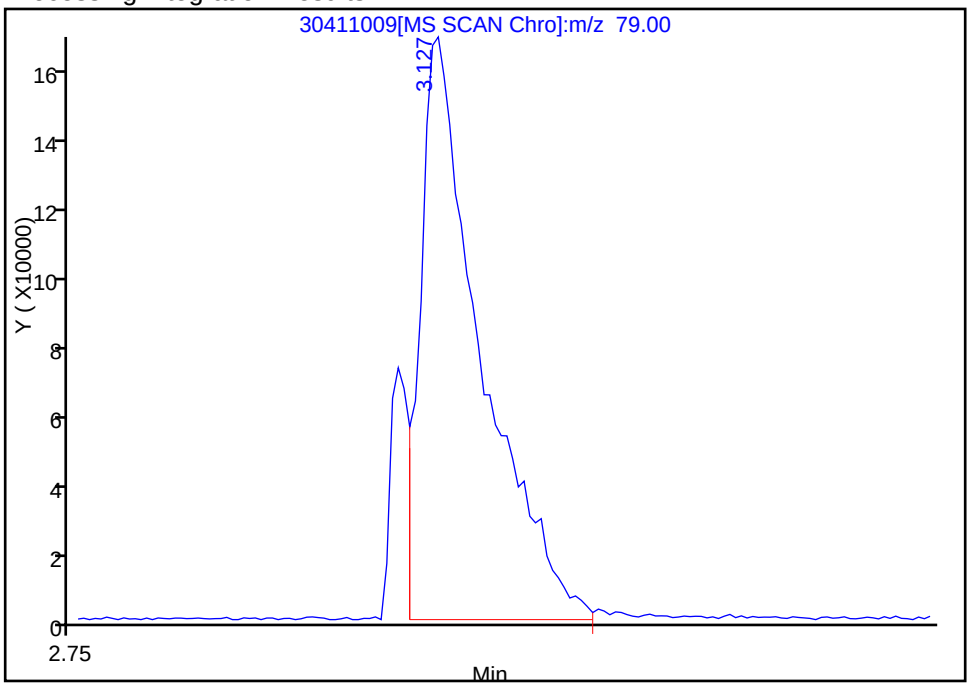
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411009.D		
Injection Date:	11-Apr-2013 20:54:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	9
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

27 Pyridine, Signal: 1, m/z: 79.0 Type: quant, RT: 3.13

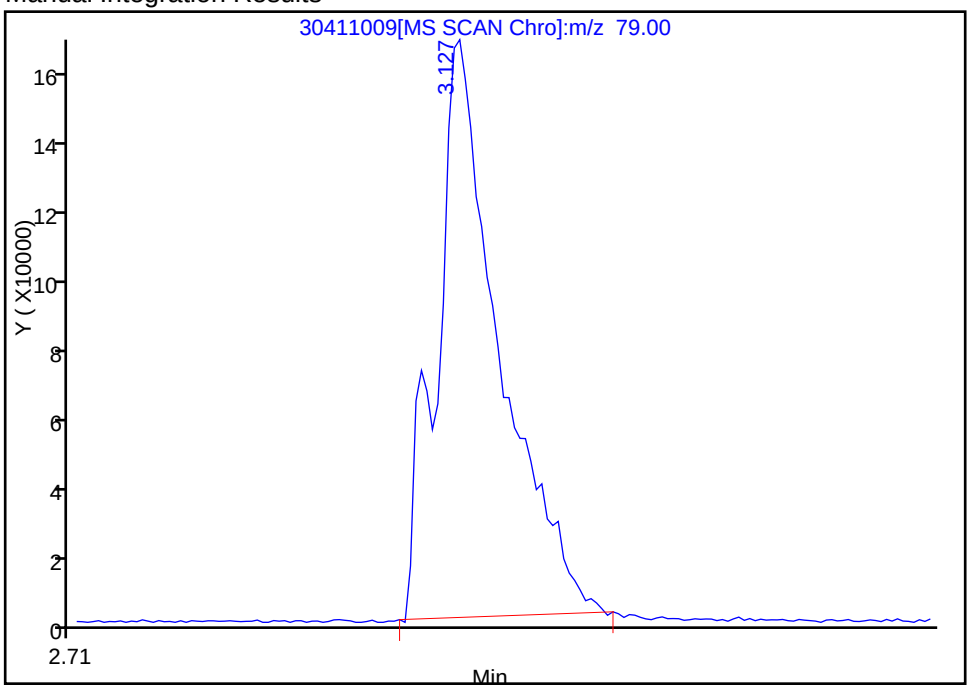
Processing Integration Results

RT: 3.13
Response: 710734
Amount: 14.598813



Manual Integration Results

RT: 3.13
Response: 761099
Amount: 15.499711



Reviewer: gruberj, 12-Apr-2013 09:18:46
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411010.D		
Lims ID:	std6 lst1	Client ID:	
Inject. Date:	11-Apr-2013 21:19:30	Dil. Factor:	1.0000
Sample Type:	ICIS	Calib Level:	6
Sample ID:	240-0018790-010		
Misc. Info.:	STD6 LST1		
Operator:	001710	Instrument ID:	A4HP10
Injection Vol:	1.0 ul	ALS Bottle#:	10
Lims Batch ID:	81609	Lims Sample ID:	10
Sublist:	chrom-8270_10*sub27		
Detector:	MS SCAN		
Method:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\8270_10.m		
Last Update:	12-Apr-2013 09:42:43	Calib Date:	12-Apr-2013 00:58:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK010		
First Level Reviewer: hulat		Date:	12-Apr-2013 05:54:50

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.954	5.954	0.0	98	186412	4.00	
* 2 Naphthalene-d8	136	7.064	7.064	0.0	100	710480	4.00	
* 3 Acenaphthene-d10	164	8.568	8.568	0.0	94	434356	4.00	
* 4 Phenanthrene-d10	188	9.837	9.837	0.0	94	809912	4.00	
* 5 Chrysene-d12	240	12.446	12.446	0.0	72	883495	4.00	
* 6 Perylene-d12	264	14.567	14.567	0.0	78	695044	4.00	
$ 7 2-Fluorophenol	112	4.708	4.708	0.0	95	518302	9.61	
$ 8 Phenol-d5	99	5.589	5.589	0.0	85	684817	9.53	
$ 9 Nitrobenzene-d5	82	6.436	6.436	0.0	90	634034	9.54	
$ 10 2-Fluorobiphenyl (Surr)	172	7.975	7.975	0.0	99	1307821	9.34	
$ 11 2,4,6-Tribromophenol	330	9.238	9.238	0.0	91	158023	9.94	
$ 12 Terphenyl-d14	244	11.212	11.212	0.0	99	1617749	9.31	
243 n-Decane	57		0.000					
247 Hexadecane	57		0.000					
244 n-Octadecane	57		0.000					
25 1,4-Dioxane	88	2.611	2.611	0.0	94	236614	9.22	M
26 N-Nitrosodimethylamine	74	3.075	3.075	0.0	84	312475	10.1	
27 Pyridine	79	3.128	3.128	0.0	88	574011	9.96	M
41 Benzaldehyde	77	5.560	5.560	0.0	89	973909	19.2	
43 Phenol	94	5.601	5.601	0.0	95	683517	9.67	
44 Aniline	93	5.648	5.648	0.0	94	845753	9.71	
45 Bis(2-chloroethyl)ether	93	5.701	5.701	0.0	94	514179	9.40	
47 2-Chlorophenol	128	5.754	5.754	0.0	97	541952	9.51	
48 1,3-Dichlorobenzene	146	5.901	5.901	0.0	96	595610	9.66	
49 1,4-Dichlorobenzene	146	5.965	5.965	0.0	91	608860	9.68	
50 Benzyl alcohol	108	6.059	6.059	0.0	90	355010	9.81	
51 1,2-Dichlorobenzene	146	6.101	6.101	0.0	95	578791	9.65	
52 2-Methylphenol	108	6.142	6.142	0.0	99	503367	9.78	
53 Indene	115	6.183	6.183	0.0	75	2040512	19.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
54 2,2'-oxybis[1-chloropropane]	45	6.183	6.183	0.0	56	827782	9.90	
56 3 & 4 Methylphenol	108	6.277	6.277	0.0	93	534212	9.96	
57 N-Nitrosodi-n-propylamine	70	6.289	6.289	0.0	88	380422	9.91	
58 Acetophenone	105	6.300	6.300	0.0	86	784632	9.81	
61 Hexachloroethane	117	6.406	6.406	0.0	95	234155	9.63	
62 Nitrobenzene	77	6.453	6.453	0.0	89	602745	9.98	
64 Isophorone	82	6.653	6.653	0.0	96	1069946	9.87	
66 2-Nitrophenol	139	6.729	6.729	0.0	96	299767	10.4	
65 2,4-Dimethylphenol	107	6.741	6.741	0.0	94	548402	9.91	
70 Benzoic acid	122	6.794	6.794	0.0	85	615619	19.5	M
69 Bis(2-chloroethoxy)methane	93	6.829	6.829	0.0	94	635518	9.95	
72 2,4-Dichlorophenol	162	6.929	6.929	0.0	95	460330	10.1	
73 1,2,4-Trichlorobenzene	180	7.011	7.011	0.0	94	532016	9.99	
74 Naphthalene	128	7.082	7.082	0.0	99	1628498	9.88	
75 4-Chloroaniline	127	7.117	7.117	0.0	85	686669	10.0	
78 Hexachlorobutadiene	225	7.182	7.182	0.0	91	324885	9.97	
83 Caprolactam	113	7.405	7.405	0.0	74	307578	19.7	
85 4-Chloro-3-methylphenol	107	7.511	7.511	0.0	93	493306	10.2	
87 2-Methylnaphthalene	142	7.675	7.675	0.0	85	1101656	9.94	
88 1-Methylnaphthalene	142	7.758	7.758	0.0	82	1013523	9.75	
89 Hexachlorocyclopentadiene	237	7.805	7.805	0.0	95	352302	10.2	
92 1,2,4,5-Tetrachlorobenzene	216	7.816	7.816	0.0	93	575040	9.97	
93 2,4,6-Trichlorophenol	196	7.904	7.904	0.0	93	365061	10.2	
94 2,4,5-Trichlorophenol	196	7.934	7.934	0.0	95	378966	10.2	
98 1,1'-Biphenyl	154	8.069	8.069	0.0	95	1399472	9.96	
100 2-Chloronaphthalene	162	8.092	8.092	0.0	96	1049493	9.82	
102 2-Nitroaniline	65	8.163	8.163	0.0	80	333811	10.2	
105 Dimethyl phthalate	163	8.310	8.310	0.0	99	1213193	10.0	
106 1,3-Dinitrobenzene	168	8.339	8.339	0.0	82	202189	10.0	
107 2,6-Dinitrotoluene	165	8.363	8.363	0.0	87	277211	10.5	
109 Acenaphthylene	152	8.451	8.451	0.0	91	1713120	10.1	
110 3-Nitroaniline	138	8.510	8.510	0.0	92	298459	9.33	
112 Acenaphthene	153	8.598	8.598	0.0	92	1144426	9.68	
111 2,4-Dinitrophenol	184	8.598	8.598	0.0	73	389816	19.8	
113 4-Nitrophenol	109	8.627	8.627	0.0	93	349554	19.3	
114 2,4-Dinitrotoluene	165	8.709	8.709	0.0	89	371972	9.49	
116 Dibenzofuran	168	8.745	8.745	0.0	88	1566499	9.83	
119 2,3,4,6-Tetrachlorophenol	232	8.833	8.833	0.0	70	337721	10.4	
121 Diethyl phthalate	149	8.903	8.903	0.0	96	1221169	9.74	
123 4-Chlorophenyl phenyl ether	204	9.021	9.021	0.0	90	679997	9.97	
125 4-Nitroaniline	138	9.033	9.033	0.0	63	316074	10.6	
126 Fluorene	166	9.033	9.033	0.0	81	1285001	9.92	
128 4,6-Dinitro-2-methylphenol	198	9.056	9.056	0.0	86	521792	19.0	
129 N-Nitrosodiphenylamine	169	9.115	9.115	0.0	96	1935122	20.2	
131 1,2-Diphenylhydrazine	77	9.156	9.156	0.0	96	1282930	9.97	
132 Azobenzene	77	9.156	9.156	0.0	100	1275629	9.91	
139 4-Bromophenyl phenyl ether	248	9.438	9.438	0.0	65	358827	9.93	
141 Hexachlorobenzene	284	9.503	9.503	0.0	92	360567	9.85	
142 Atrazine	200	9.555	9.555	0.0	94	748683	20.6	
144 Pentachlorophenol	266	9.661	9.661	0.0	86	502665	19.1	
149 Phenanthrene	178	9.861	9.861	0.0	97	1836638	9.78	
150 Anthracene	178	9.902	9.902	0.0	98	1885354	10.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
152 Carbazole	167	10.026	10.026	0.0	83	1687265	9.81	
155 Di-n-butyl phthalate	149	10.290	10.290	0.0	100	2109283	10.0	
160 Fluoranthene	202	10.877	10.877	0.0	98	2211161	9.98	
161 Benzidine	184	10.977	10.977	0.0	99	1838302	20.0	
162 Pyrene	202	11.095	11.095	0.0	95	2239972	9.82	
170 Butyl benzyl phthalate	149	11.712	11.712	0.0	96	909395	10.5	
177 3,3'-Dichlorobenzidine	252	12.376	12.376	0.0	70	1491428	20.7	
175 Bis(2-ethylhexyl) phthalate	149	12.405	12.405	0.0	96	1292173	10.6	
179 Benzo[a]anthracene	228	12.429	12.429	0.0	93	2132546	9.70	
180 Chrysene	228	12.481	12.481	0.0	94	1999965	9.91	
182 Di-n-octyl phthalate	149	13.345	13.345	0.0	100	1981231	9.23	
184 Benzo[b]fluoranthene	252	13.974	13.974	0.0	93	1926505	10.3	
185 Benzo[k]fluoranthene	252	14.015	14.015	0.0	99	2095142	10.3	
186 Benzo[a]pyrene	252	14.485	14.485	0.0	75	1823222	10.5	
190 Indeno[1,2,3-cd]pyrene	276	16.277	16.277	0.0	98	1931031	10.2	
191 Dibenz(a,h)anthracene	278	16.306	16.306	0.0	86	1601821	10.1	
192 Benzo[g,h,i]perylene	276	16.747	16.747	0.0	89	1602658	9.88	
S 193 Methyl Phenols,Total	100				0		19.7	

QC Flag Legend

Review Flags
M - Manually Integrated

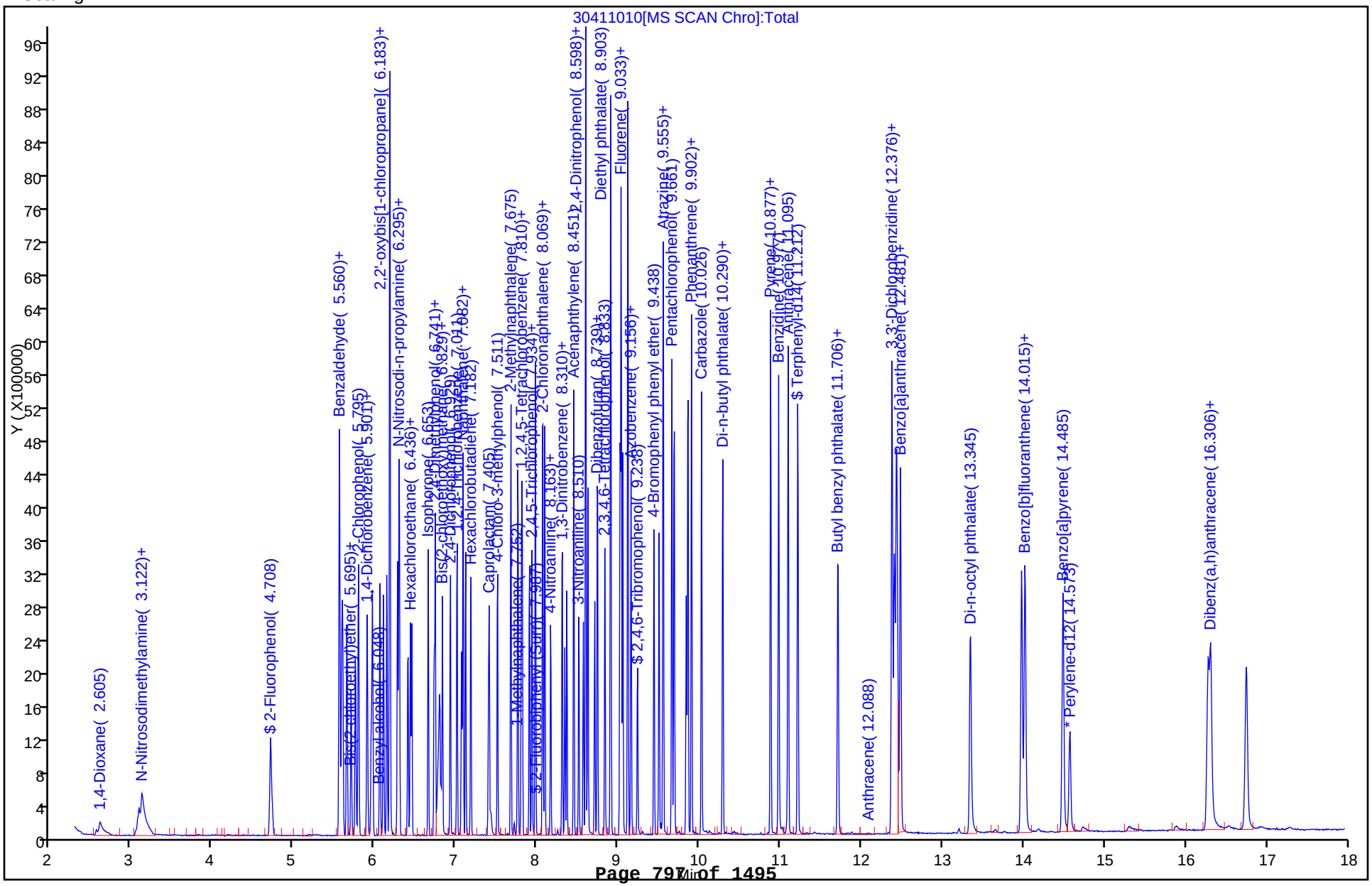
Report Date: 12-Apr-2013 09:42:44 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411010.D

Injection Date:	11-Apr-2013 21:19:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

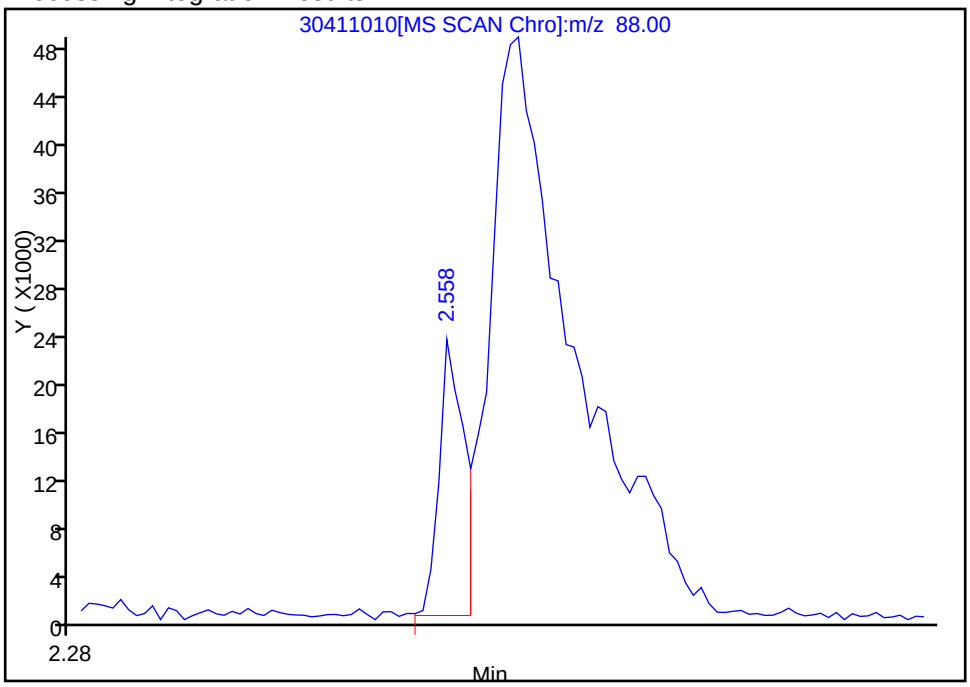
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411010.D		
Injection Date:	11-Apr-2013 21:19:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

25 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 2.61

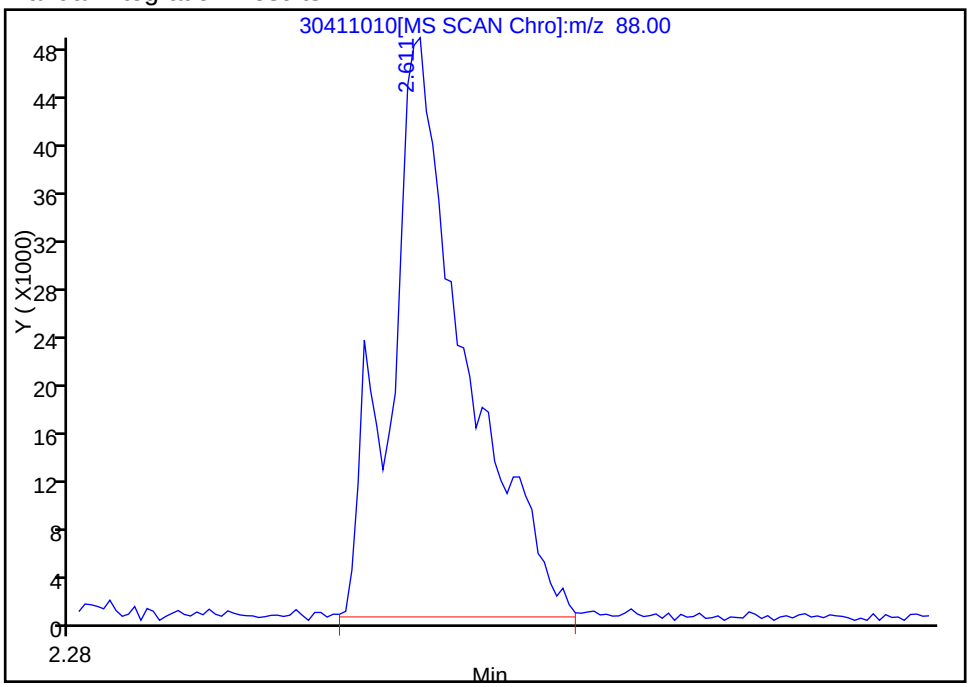
Processing Integration Results

RT: 2.56
Response: 29961
Amount: 10.000000



Manual Integration Results

RT: 2.61
Response: 236614
Amount: 9.223082



Reviewer: gruberj, 12-Apr-2013 08:22:26
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

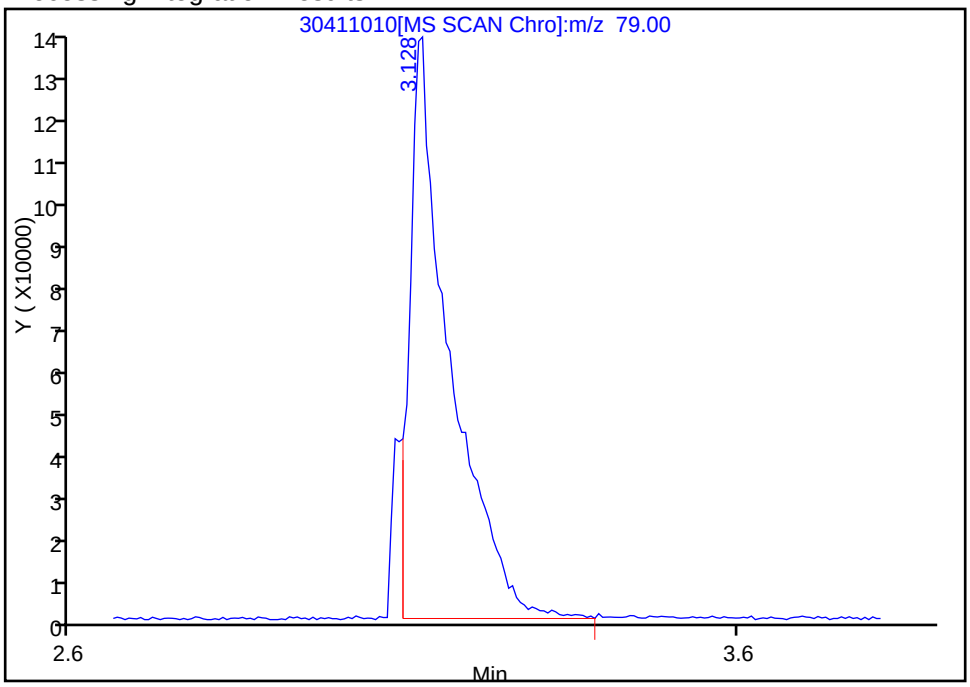
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411010.D		
Injection Date:	11-Apr-2013 21:19:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

27 Pyridine, Signal: 1, m/z: 79.0 Type: quant, RT: 3.13

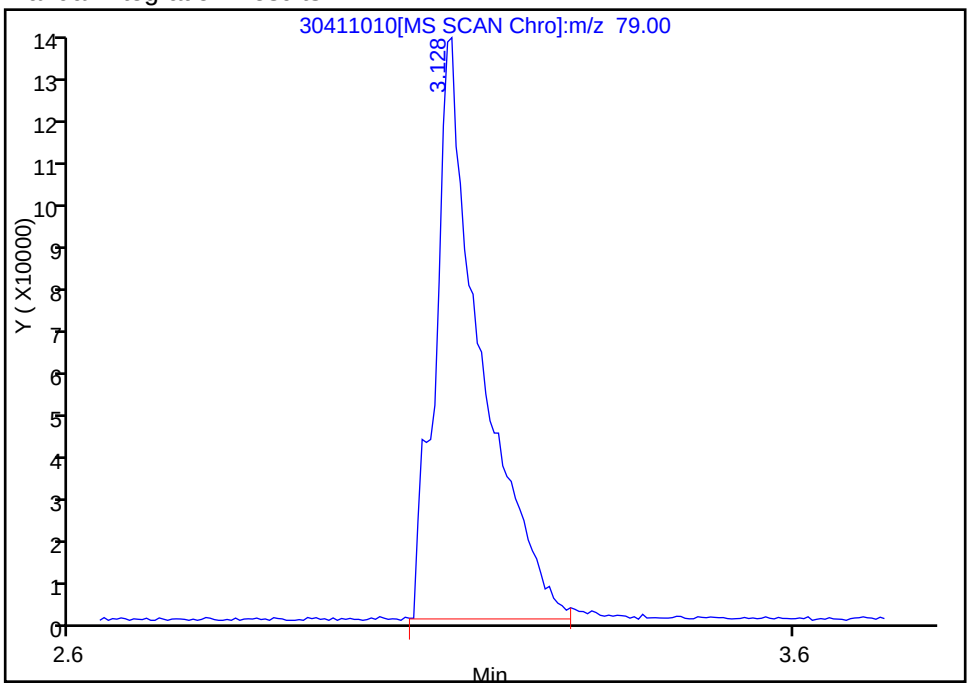
Processing Integration Results

RT: 3.13
Response: 544539
Amount: 10.000000



Manual Integration Results

RT: 3.13
Response: 574011
Amount: 9.959231



Reviewer: gruberj, 12-Apr-2013 08:22:26
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

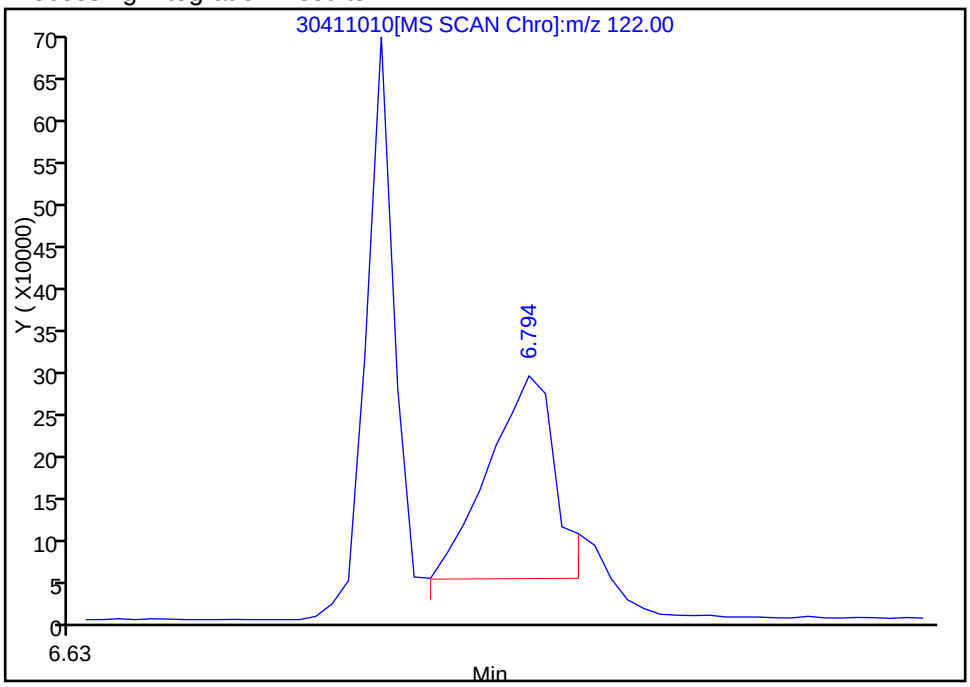
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411010.D		
Injection Date:	11-Apr-2013 21:19:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

70 Benzoic acid, Signal: 1, m/z: 122.0 Type: quant, RT: 6.79

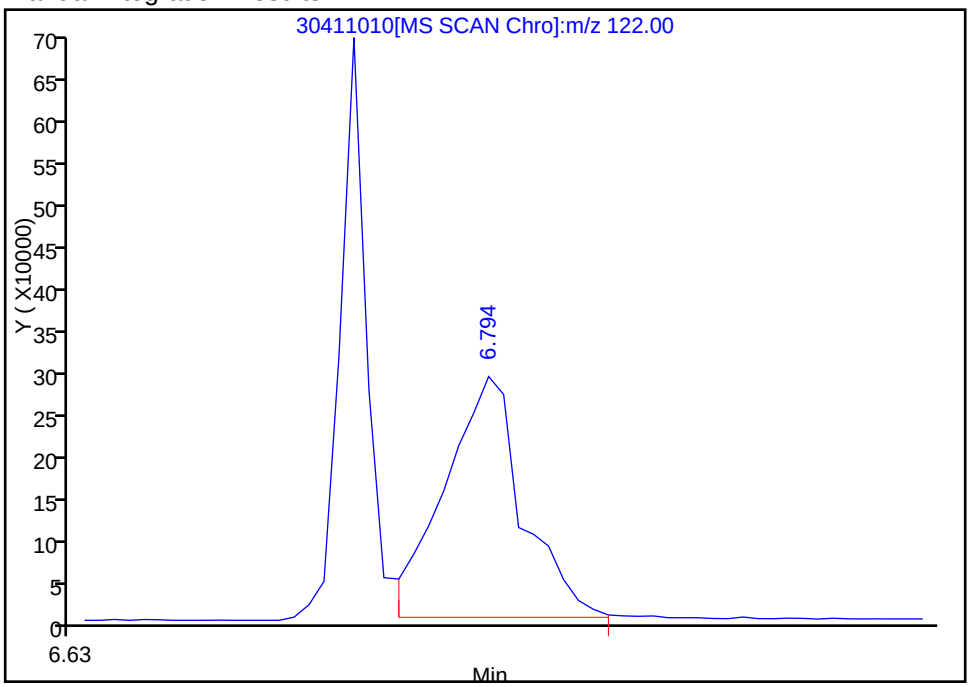
Processing Integration Results

RT: 6.79
Response: 399820
Amount: 20.000000



Manual Integration Results

RT: 6.79
Response: 615619
Amount: 19.504272



Reviewer: gruberj, 12-Apr-2013 08:22:26
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 82668

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2013 10:42 Calibration End Date: 04/19/2013 14:12 Calibration ID: 14643

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-82668/6	30419106.D
Level 2	STD2 240-82668/5	30419105.D
Level 3	STD3 240-82668/4	30419104.D
Level 4	STD4 240-82668/3	30419103.D
Level 5	STD5 240-82668/2	30419102.D
Level 6	STD6 240-82668/10	30419110.D
Level 7	STD7 240-82668/9	30419109.D
Level 8	STD8 240-82668/8	30419108.D
Level 9	STD9 240-82668/7	30419107.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,4-Dioxane	0.7889	0.7028 0.7952	0.8273 0.8811	0.8562 0.8409	0.8329	Ave		0.8157			0.0500	6.7		15.0			
N-Nitrosodimethylamine	1.3424	1.2284 1.3242	1.2749 1.4765	1.3405 1.4072	1.3855	Ave		1.3475			0.0500	5.7		15.0			
Pyridine	2.1614	2.2581 2.1611	2.1996 2.3892	2.2667 2.2623	2.2945	Ave		2.2491			0.0500	3.4		15.0			
Benzaldehyde	1.9036 1.6848	1.7454 1.6293	1.7689 1.7481	1.8039 1.5765	1.8015	Ave		1.7402			0.0500	5.7		15.0			
Phenol	2.1793	2.3106 2.1287	2.2720 2.3488	2.2338 2.2204	2.2824	Ave		2.2470			0.0500	3.2		15.0			
Aniline	2.7826	2.6518 2.7891	2.9364 3.1310	2.9838 3.0064	2.9272	Ave		2.9010			0.0500	5.2		15.0			
Bis(2-chloroethyl)ether	1.9837	2.0082 1.9166	2.0776 2.0937	1.9442 1.9814	2.0941	Ave		2.0124			0.0500	3.4		15.0			
2-Chlorophenol	1.2548	1.2331 1.2433	1.2655 1.3544	1.3573 1.2735	1.3493	Ave		1.2914			0.0500	4.1		15.0			
1,3-Dichlorobenzene	1.3289	1.2974 1.2990	1.3495 1.4393	1.3730 1.3492	1.3953	Ave		1.3539			0.0500	3.6		15.0			
1,4-Dichlorobenzene	1.3507	1.4385 1.3181	1.4105 1.4573	1.3787 1.3782	1.4162	Ave		1.3935			0.0500	3.3		15.0			
Benzyl alcohol	1.0051	0.9464 0.9972	0.9498 1.0935	0.9828 1.0338	1.0511	Ave		1.0075			0.0500	5.0		15.0			
1,2-Dichlorobenzene	1.2564	1.2381 1.2221	1.3538 1.3549	1.2953 1.2907	1.3440	Ave		1.2944			0.0500	4.1		15.0			
2-Methylphenol	1.4035	1.3918 1.3534	1.4284 1.5139	1.4448 1.4134	1.4730	Ave		1.4278			0.0500	3.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 82668

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2013 10:42 Calibration End Date: 04/19/2013 14:12 Calibration ID: 14643

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
bis (2-chloroisopropyl) ether	1.8155	1.8870 1.8056	1.8712 1.9808	1.9154 1.8682	1.9267	Ave		1.8838			0.0500	3.1		15.0			
Indene	2.5848	2.5852 2.5216	2.6980 2.7869	2.7108 2.6225	2.6919	Ave		2.6502			0.0500	3.3		15.0			
3 & 4 Methylphenol	1.4835	1.3787 1.4559	1.4652 1.5964	1.4544 1.4997	1.5508	Ave		1.4856			0.0500	4.4		15.0			
N-Nitrosodi-n-propylamine	1.5206	1.3391 1.5197	1.4398 1.6343	1.5372 1.5822	1.5788	Ave		1.5190			0.0500	6.1		15.0			
Acetophenone	2.3192	2.2704 2.2894	2.4006 2.5087	2.4135 2.3839	2.4007	Ave		2.3733			0.0500	3.3		15.0			
Hexachloroethane	0.6340	0.6468 0.6317	0.6645 0.7045	0.6706 0.6539	0.6811	Ave		0.6609			0.0500	3.7		15.0			
Nitrobenzene	0.5212	0.5176 0.5411	0.5123 0.5721	0.5178 0.5592	0.5323	Ave		0.5342			0.0500	4.1		15.0			
Isophorone	0.8807	0.7891 0.9045	0.8400 0.9662	0.8567 0.9451	0.8907	Ave		0.8841			0.0500	6.4		15.0			
2,4-Dimethylphenol	0.3637	0.3743 0.3645	0.3822 0.3768	0.3945 0.3735	0.3699	Ave		0.3749			0.0500	2.7		15.0			
2-Nitrophenol	0.1594	0.1354 0.1651	0.1501 0.1699	0.1594 0.1653	0.1648	Ave		0.1587			0.0500	7.0		15.0			
Benzoic acid	0.1888	+++++ 0.2019	0.0901 0.2141	0.1195 0.2073	0.1735	Lin1	-0.305	0.2134			0.0500				0.9980		0.9950
Bis(2-chloroethoxy)methane	0.5076	0.4864 0.5122	0.4998 0.5304	0.5188 0.5133	0.5252	Ave		0.5117			0.0500	2.7		15.0			
2,4-Dichlorophenol	0.2411	0.2370 0.2459	0.2335 0.2597	0.2428 0.2521	0.2517	Ave		0.2455			0.0500	3.5		15.0			
1,2,4-Trichlorobenzene	0.2685	0.2890 0.2781	0.2806 0.2918	0.2736 0.2801	0.2880	Ave		0.2812			0.0500	2.8		15.0			
Naphthalene	1.0014 0.9360	0.9562 0.9506	0.9875 0.9923	0.9663 0.9678	0.9494	Ave		0.9675			0.0500	2.3		15.0			
4-Chloroaniline	0.5001	0.4755 0.5045	0.5142 0.5345	0.5060 0.5142	0.5197	Ave		0.5086			0.0500	3.4		15.0			
Hexachlorobutadiene	0.1621	0.1424 0.1653	0.1798 0.1763	0.1662 0.1698	0.1702	Ave		0.1665			0.0500	6.8		15.0			
Caprolactam	0.1056	0.1064 0.1077	0.1021 0.1154	0.1108 0.1126	0.1107	Ave		0.1089			0.0500	3.9		15.0			
4-Chloro-3-methylphenol	0.3318	0.3194 0.3357	0.3131 0.3589	0.3312 0.3473	0.3370	Ave		0.3343			0.0500	4.3		15.0			
2-Methylnaphthalene	0.6441 0.5895	0.5921 0.5968	0.6059 0.6295	0.6151 0.6058	0.6103	Ave		0.6099			0.0500	2.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 82668

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2013 10:42 Calibration End Date: 04/19/2013 14:12 Calibration ID: 14643

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1-Methylnaphthalene	0.6127 0.5509	0.5803 0.5583	0.5505 0.5844	0.5619 0.5692	0.5627	Ave		0.5701			0.0500	3.5		15.0			
Hexachlorocyclopentadiene	0.3241	0.2645 0.3290	0.2662 0.3621	0.3172 0.3525	0.3400	Ave		0.3194			0.0500	11.0		15.0			
1,2,4,5-Tetrachlorobenzene	0.4434	0.4538 0.4437	0.4672 0.4847	0.4691 0.4664	0.4481	Ave		0.4596			0.0500	3.2		15.0			
2,4,6-Trichlorophenol	0.2956	0.2344 0.3029	0.2637 0.3310	0.2868 0.3194	0.2960	Ave		0.2912			0.0500	11.0		15.0			
2,4,5-Trichlorophenol	0.2991	0.2401 0.3082	0.2546 0.3388	0.3020 0.3262	0.3084	Ave		0.2972			0.0500	11.0		15.0			
1,1'-Biphenyl	1.4684 1.2783	1.2789 1.3001	1.3001 1.4097	1.3247 1.3675	1.2772	Ave		1.3339			0.0500	5.1		15.0			
2-Chloronaphthalene	1.1043 0.9460	0.9607 0.9686	0.9506 1.0479	0.9905 1.0160	0.9582	Ave		0.9937			0.0500	5.4		15.0			
2-Nitroaniline	0.4615	0.3569 0.4560	0.3767 0.4875	0.4370 0.4687	0.4590	Ave		0.4379			0.0500	11.0		15.0			
Dimethyl phthalate	1.0040	1.0427 0.9860	1.0362 1.0502	1.0958 1.0057	1.1103	Ave		1.0414			0.0500	4.2		15.0			
1,3-Dinitrobenzene	0.1753	0.1198 0.1773	0.1473 0.1955	0.1686 0.1893	0.1807	Ave		0.1692			0.0500	15.0		15.0			
2,6-Dinitrotoluene	0.2406	0.2072 0.2332	0.2374 0.2566	0.2505 0.2406	0.2543	Ave		0.2401			0.0500	6.5		15.0			
Acenaphthylene	1.5682 1.5009	1.4181 1.5172	1.4403 1.6948	1.5448 1.6387	1.5145	Ave		1.5375			0.0500	5.7		15.0			
3-Nitroaniline	0.2345	0.2184 0.2546	0.2406 0.2890	0.2708 0.2861	0.2710	Ave		0.2581			0.0500	9.8		15.0			
2,4-Dinitrophenol	0.1417	+++++ 0.1607	0.0847 0.1871	0.1162 0.1847	0.1397	Qua	-0.125	0.1359	0.0011		0.0500				0.9960		0.9950
4-Nitrophenol	0.2228	0.1746 0.2333	0.1908 0.2561	0.1778 0.2442	0.2086	Ave		0.2135			0.0500	14.0		15.0			
Acenaphthene	1.0269 0.9614	0.9815 0.9341	0.9507 0.9842	0.9893 0.9359	0.9652	Ave		0.9699			0.0500	3.0		15.0			
2,4-Dinitrotoluene	0.2899	0.2300 0.3163	0.2862 0.3570	0.3132 0.3500	0.3011	Ave		0.3054			0.0500	13.0		15.0			
Dibenzofuran	1.4834 1.3623	1.3649 1.3638	1.3606 1.4719	1.3980 1.4052	1.3799	Ave		1.3989			0.0500	3.4		15.0			
2,3,4,6-Tetrachlorophenol	0.2197	0.1914 0.2227	0.2171 0.2588	0.2433 0.2532	0.2434	Ave		0.2312			0.0500	9.7		15.0			
Diethyl phthalate	0.8363	1.0291 0.8859	1.0198 1.0159	1.0399 1.0171	0.9140	Ave		0.9697			0.0500	8.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 82668

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2013 10:42 Calibration End Date: 04/19/2013 14:12 Calibration ID: 14643

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
4-Chlorophenyl phenyl ether	0.5382	0.5361 0.5340	0.5484 0.5687	0.5722 0.5191	0.5674	Ave		0.5480			0.0500	3.6		15.0			
4-Nitroaniline	0.2668	0.2071 0.2951	0.2210 0.3278	0.2068 0.3122	0.2426	Lin	-0.240	0.3226			0.0500				0.9950		0.9950
Fluorene	1.2006 1.0560	1.1469 1.0276	1.1010 1.0457	1.1765 0.9945	1.1233	Ave		1.0969			0.0500	6.4		15.0			
4,6-Dinitro-2-methylphenol	0.1476	+++++ 0.1454	0.0827 0.1467	0.0931 0.1441	0.1353	Lin1	-0.158	0.1499			0.0500				0.9990		0.9950
N-Nitrosodiphenylamine	0.4703	0.4624 0.4316	0.4881 0.4449	0.4976 0.4365	0.5376	Ave		0.4711			0.0500	7.6		15.0			
1,2-Diphenylhydrazine(as Azobenzene)	1.2848	1.0447 1.1421	1.1003 1.1212	1.1625 1.0709	1.3704	Ave		1.1618			0.0500	9.5		15.0			
Azobenzene	1.2852	1.0447 1.1422	1.1003 1.1212	1.1625 1.0710	1.3672	Ave		1.1618			0.0500	9.5		15.0			
4-Bromophenyl phenyl ether	0.1865	0.1645 0.1630	0.1898 0.1632	0.1892 0.1552	0.2092	Ave		0.1776			0.0500	11.0		15.0			
Atrazine	0.2120	0.1319 0.1917	0.1438 0.1869	0.1669 0.1757	0.2189	Qua	-0.153	0.2373	-0.001		0.0500				0.9990		0.9950
Hexachlorobenzene	0.1850 0.1935	0.1750 0.1711	0.1764 0.1667	0.1848 0.1578	0.2194	Ave		0.1811			0.0500	9.9		15.0			
Pentachlorophenol	0.1265	+++++ 0.1247	0.0763 0.1279	0.0880 0.1241	0.1132	Lin1	-0.124	0.1288			0.0500				0.9990		0.9950
Phenanthrene	1.1817 0.9512	0.9258 0.9553	0.9635 1.0113	0.9435 1.0018	0.9487	Ave		0.9870			0.0500	7.9		15.0			
Anthracene	0.9503 0.9726	0.8852 0.9959	0.9351 1.0591	0.9575 1.0376	0.9911	Ave		0.9760			0.0500	5.4		15.0			
Carbazole	1.0216	0.7342 0.9803	0.7480 1.0069	0.6592 0.9565	0.9788	Lin1	-0.220	0.9943			0.0500				0.9970		0.9950
Di-n-butyl phthalate	1.2939	0.6422 1.2210	0.6742 1.2311	0.8542 1.1892	1.2911	Lin1	-0.401	1.2481			0.0500				0.9970		0.9950
Fluoranthene	0.9736 1.3020	0.7437 1.2005	0.7948 1.2213	0.8466 1.1653	1.2896	Lin	-0.040	1.2004			0.0500				0.9970		0.9950
Benzidine	0.4181	0.3068 0.4160	0.3706 0.4271	0.3908 0.3840	0.4140	Ave		0.3909			0.0500	10.0		15.0			
Pyrene	0.9268 0.9449	0.6913 0.9675	0.7078 1.0055	0.7687 0.9841	0.9491	Ave		0.8829			0.0500	14.0		15.0			
Butyl benzyl phthalate	0.4102	0.3277 0.4183	0.3584 0.4503	0.3843 0.4488	0.4209	Ave		0.4024			0.0500	11.0		15.0			
Bis(2-ethylhexyl) phthalate	0.5560	0.3794 0.5845	0.4744 0.6268	0.4992 0.6129	0.5779	Ave		0.5389			0.0500	15.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 82668

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2013 10:42 Calibration End Date: 04/19/2013 14:12 Calibration ID: 14643

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
3,3'-Dichlorobenzidine	0.3263	0.2196 0.3318	0.2650 0.3527	0.2780 0.3426	0.3209	Ave		0.3046			0.0500	15.0		15.0			
Benzo[a]anthracene	1.0308 0.9234	0.8578 0.9520	0.8899 1.0307	0.8912 1.0059	0.9285	Ave		0.9456			0.0500	6.8		15.0			
Chrysene	0.9282 0.8858	0.8912 0.9056	0.8824 0.9784	0.8781 0.9665	0.8749	Ave		0.9101			0.0500	4.3		15.0			
Di-n-octyl phthalate	1.2383	0.6966 1.2881	0.9755 1.4407	1.0464 1.4128	1.2534	Lin1	-0.446	1.3897			0.0500				0.9970		0.9950
Benzo[b]fluoranthene	0.9932 1.0640	0.8236 1.0963	0.9156 1.2007	0.9835 1.1570	1.0705	Ave		1.0338			0.0500	11.0		15.0			
Benzo[k]fluoranthene	1.0891 1.1675	1.0550 1.1914	1.1915 1.3474	1.0974 1.2704	1.1423	Ave		1.1724			0.0500	7.9		15.0			
Benzo[a]pyrene	0.9587 1.0310	0.8249 1.0674	0.9118 1.1810	0.9809 1.1227	1.0417	Ave		1.0133			0.0500	11.0		15.0			
Indeno[1,2,3-cd]pyrene	0.8325 1.0244	0.8892 1.0610	1.0056 1.1775	1.0752 1.1216	1.0671	Ave		1.0282			0.0500	11.0		15.0			
Dibenz(a,h)anthracene	0.6630 0.8439	0.6588 0.8855	0.8103 0.9908	0.8400 0.9551	0.8857	Ave		0.8370			0.0500	14.0		15.0			
Benzo[g,h,i]perylene	0.7052 0.8358	0.7729 0.8646	0.8552 0.9351	0.8955 0.9035	0.8734	Ave		0.8490			0.0500	8.3		15.0			
2-Fluorophenol (Surr)	1.5767	1.5944 1.5687	1.6208 1.7216	1.6273 1.6319	1.6612	Ave		1.6253			0.0500	3.0		15.0			
Phenol-d5 (Surr)	2.0809	2.3427 2.0415	2.2107 2.2639	2.2005 2.0982	2.2293	Ave		2.1835			0.0500	4.7		15.0			
Nitrobenzene-d5 (Surr)	0.7006 0.5632	0.5548 0.5793	0.5536 0.6068	0.5662 0.5995	0.5844	Ave		0.5898			0.0500	7.7		15.0			
2-Fluorobiphenyl (Surr)	1.4306 1.1231	1.1170 1.1328	1.1726 1.2328	1.1639 1.1971	1.1455	Ave		1.1906			0.0500	8.2		15.0			
2,4,6-Tribromophenol (Surr)	0.1101	0.1430 0.1193	0.1205 0.1394	0.1381 0.1420	0.1217	Ave		0.1293			0.0500	9.8		15.0			
Terphenyl-d14 (Surr)	0.8724 0.6941	0.6535 0.6984	0.6830 0.7334	0.6921 0.7176	0.7069	Ave		0.7168			0.0500	8.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 82668

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2013 10:42 Calibration End Date: 04/19/2013 14:12 Calibration ID: 14643

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-82668/6	30419106.D
Level 2	STD2 240-82668/5	30419105.D
Level 3	STD3 240-82668/4	30419104.D
Level 4	STD4 240-82668/3	30419103.D
Level 5	STD5 240-82668/2	30419102.D
Level 6	STD6 240-82668/10	30419110.D
Level 7	STD7 240-82668/9	30419109.D
Level 8	STD8 240-82668/8	30419108.D
Level 9	STD9 240-82668/7	30419107.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,4-Dioxane	DCB	Ave	387348	16262 590252	37094 812444	71941 988590	194296	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
N-Nitrosodimethylamine	DCB	Ave	659093	28424 982936	57162 1361415	112630 1654390	323206	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Pyridine	DCB	Ave	1061197	52250 1604091	98624 2202993	190449 2659677	535258	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzaldehyde	DCB	Ave	18469 1654465	80773 2418692	158621 3223684	303136 3706882	840491	0.200 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Phenol	DCB	Ave	1070027	53465 1580038	101870 2165715	187688 2610447	532416	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Aniline	DCB	Ave	1366211	61358 2070261	131658 2886981	250699 3534522	682843	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Bis(2-chloroethyl)ether	DCB	Ave	973949	46466 1422616	93151 1930519	163349 2329404	488512	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Chlorophenol	DCB	Ave	616075	28533 922872	56740 1248867	114045 1497152	314756	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,3-Dichlorobenzene	DCB	Ave	652448	30019 964211	60505 1327133	115364 1586179	325494	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,4-Dichlorobenzene	DCB	Ave	663158	33284 978336	63242 1343698	115840 1620336	330374	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzyl alcohol	DCB	Ave	493469	21898 740168	42586 1008236	82575 1215382	245203	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2-Dichlorobenzene	DCB	Ave	616890	28647 907094	60699 1249273	108834 1517434	313524	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Methylphenol	DCB	Ave	689087	32205 1004570	64044 1395947	121390 1661637	343621	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
bis (2-chloroisopropyl) ether	DCB	Ave	891371	43662 1340211	83898 1826443	160936 2196377	449449	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 82668

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2013 10:42 Calibration End Date: 04/19/2013 14:12 Calibration ID: 14643

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Indene	DCB	Ave	2538226	119635 3743409	241934 5139306	455520 6166202	1255890	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
3 & 4 Methylphenol	DCB	Ave	728377	31901 1080655	65695 1471948	122200 1763098	361769	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
N-Nitrosodi-n-propylamine	DCB	Ave	746600	30984 1128001	64556 1506915	129155 1860091	368298	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Acetophenone	DCB	Ave	1138693	52535 1699365	107636 2313199	202785 2802627	560028	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachloroethane	DCB	Ave	311292	14967 468915	29794 649632	56346 768790	158883	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Nitrobenzene	NPT	Ave	1066428	48686 1624294	96087 2227392	181471 2691173	523896	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Isophorone	NPT	Ave	1802001	74230 2715261	157540 3761811	300217 4548857	876679	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dimethylphenol	NPT	Ave	744112	35206 1094395	71682 1466994	138257 1797738	364057	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Nitrophenol	NPT	Ave	326117	12740 495629	28159 661368	55869 795770	162236	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzoic acid	NPT	Lin1	772555	+++++ 1212344	33814 1667453	83745 1995184	341558	20.0	+++++ 30.0	2.00 40.0	4.00 50.0	10.0
Bis(2-chloroethoxy)methane	NPT	Ave	1038549	45755 1537645	93730 2065153	181811 2470640	516989	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dichlorophenol	NPT	Ave	493259	22295 738102	43796 1011187	85086 1213176	247737	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2,4-Trichlorobenzene	NPT	Ave	549471	27180 834772	52629 1136145	95873 1348150	283468	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Naphthalene	NPT	Ave	19752 1915072	89948 2853867	185196 3863702	338658 4658064	934475	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Chloroaniline	NPT	Ave	1023280	44723 1514662	96444 2081119	177337 2474616	511553	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachlorobutadiene	NPT	Ave	331570	13396 496305	33727 686578	58237 817410	167482	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Caprolactam	NPT	Ave	432187	20024 646723	38308 898521	77654 1083786	217875	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
4-Chloro-3-methylphenol	NPT	Ave	678910	30046 1007734	58712 1397525	116074 1671310	331734	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Methylnaphthalene	NPT	Ave	12705 1206220	55693 1791630	113637 2450838	215574 2915876	600733	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1-Methylnaphthalene	NPT	Ave	12084 1127236	54590 1676016	103248 2275231	196911 2739417	553851	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachlorocyclopentadiene	ANT	Ave	385123	14643 579269	29422 796140	64053 967015	198587	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 82668

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2013 10:42 Calibration End Date: 04/19/2013 14:12 Calibration ID: 14643

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,2,4,5-Tetrachlorobenzene	ANT	Ave	526923	25126 781232	51641 1065751	94710 1279687	261725	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,6-Trichlorophenol	ANT	Ave	351312	12980 533354	29143 727774	57911 876426	172849	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,5-Trichlorophenol	ANT	Ave	355474	13293 542576	28144 744934	60972 894995	180108	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,1'-Biphenyl	ANT	Ave	16838 1519274	70815 2288941	143692 3099638	267465 3751997	745919	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Chloronaphthalene	ANT	Ave	12663 1124296	53197 1705271	105070 2304134	199989 2787567	559617	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Nitroaniline	ANT	Ave	548472	19764 802771	41638 1071831	88236 1286061	268093	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dimethyl phthalate	ANT	Ave	1193184	57737 1735965	114531 2309208	221252 2759410	648455	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,3-Dinitrobenzene	ANT	Ave	208369	6631 312145	16277 429965	34047 519250	105543	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,6-Dinitrotoluene	ANT	Ave	285986	11472 410597	26243 564221	50578 660203	148545	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Acenaphthylene	ANT	Ave	17982 1783720	78522 2671134	159192 3726458	311903 4496065	884481	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
3-Nitroaniline	ANT	Ave	278753	12094 448191	26590 635564	54680 784911	158269	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dinitrophenol	ANT	Qua	336730	+++++ 565951	18721 822967	46911 1013327	163155	20.0	+++++ 30.0	2.00 40.0	4.00 50.0	10.0
4-Nitrophenol	ANT	Ave	529661	19338 821487	42171 1126365	71786 1340191	243624	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Acenaphthene	ANT	Ave	11775 1142574	54348 1644598	105082 2164078	199756 2567810	563679	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dinitrotoluene	ANT	Ave	344477	12733 556842	31632 785033	63236 960227	175843	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dibenzofuran	ANT	Ave	17010 1619051	75576 2401088	150379 3236409	282269 3855502	805893	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,3,4,6-Tetrachlorophenol	ANT	Ave	261156	10599 392032	23998 568952	49117 694735	142156	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Diethyl phthalate	ANT	Ave	993873	56980 1559614	112714 2233871	209973 2790662	533797	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Chlorophenyl phenyl ether	ANT	Ave	639607	29683 940212	60614 1250534	115536 1424113	331381	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Nitroaniline	ANT	Lin	317127	11465 519515	24431 720865	41760 856483	141685	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Fluorene	ANT	Ave	13767 1255075	63504 1809132	121691 2299363	237538 2728562	656039	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 82668

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2013 10:42 Calibration End Date: 04/19/2013 14:12 Calibration ID: 14643

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
4,6-Dinitro-2-methylphenol	PHN	Lin1	490327	+++++ 784484	30074 1069548	60865 1320383	216079	20.0	+++++ 30.0	2.00 40.0	4.00 50.0	10.0
N-Nitrosodiphenylamine	PHN	Ave	1561939	87670 2328546	177410 3243346	325388 3999799	858420	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
1,2-Diphenylhydrazine(as Azobenzene)	PHN	Ave	2133513	99034 3080858	199971 4086649	380059 4907228	1094101	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Azobenzene	PHN	Ave	2134224	99034 3081209	199971 4086731	380059 4907597	1091495	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Bromophenyl phenyl ether	PHN	Ave	309660	15596 439656	34500 594929	61844 711337	167049	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Atrazine	PHN	Qua	704063	25004 1034035	52260 1362144	109099 1610541	349522	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Hexachlorobenzene	PHN	Ave	3668 321362	16590 461461	32057 607689	60415 722944	175139	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Pentachlorophenol	PHN	Lin1	420206	+++++ 672581	27746 932518	57573 1137172	180749	20.0	+++++ 30.0	2.00 40.0	4.00 50.0	10.0
Phenanthrene	PHN	Ave	23428 1579555	87765 2577032	175110 3685938	308476 4590420	757433	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Anthracene	PHN	Ave	18840 1615072	83921 2686405	169938 3860287	313042 4754357	791266	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Carbazole	PHN	Lin1	1696404	69606 2644490	135936 3670033	215522 4382626	781475	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Di-n-butyl phthalate	PHN	Lin1	2148552	60881 3293727	122524 4486958	279275 5448935	1030759	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Fluoranthene	PHN	Lin	19302 2162136	70505 3238363	144439 4451266	276781 5339471	1029570	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzidine	CRY	Ave	1948580	63350 2891335	151287 3871055	305616 4307655	943524	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Pyrene	CRY	Ave	19455 2201819	71362 3362426	144462 4557161	300557 5519777	1081453	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Butyl benzyl phthalate	CRY	Ave	955943	33830 1453791	73148 2040840	150251 2517161	479549	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Bis(2-ethylhexyl) phthalate	CRY	Ave	1295685	39168 2031399	96825 2840962	195198 3437753	658518	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
3,3'-Dichlorobenzidine	CRY	Ave	1520756	45331 2305932	108153 3197040	217414 3843001	731175	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Benzo[a]anthracene	CRY	Ave	21637 2151624	88558 3308538	181615 4671400	348474 5642433	1057910	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Chrysene	CRY	Ave	19483 2064001	92004 3147091	180096 4434155	343353 5421401	996846	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Di-n-octyl phthalate	PRY	Lin1	2294885	58531 3542740	157277 5025851	319542 6233895	1165903	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 82668

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2013 10:42 Calibration End Date: 04/19/2013 14:12 Calibration ID: 14643

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Benzo[b]fluoranthene	PRY	Ave	16652 1971824	69210 3015223	147613 4188587	300350 5105522	995767	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[k]fluoranthene	PRY	Ave	18261 2163727	88649 3276799	192101 4700490	335113 5605660	1062594	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[a]pyrene	PRY	Ave	16074 1910774	69316 2935701	147012 4120044	299537 4954138	968987	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	13958 1898488	74718 2918202	162130 4107625	328346 4949381	992591	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dibenz(a,h)anthracene	PRY	Ave	11116 1564082	55359 2435344	130647 3456338	256535 4214255	823868	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[g,h,i]perylene	PRY	Ave	11824 1548912	64944 2377859	137884 3262037	273467 3986748	812483	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Fluorophenol (Surr)	DCB	Ave	774150	36893 1164383	72671 1587421	136727 1918556	387528	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Phenol-d5 (Surr)	DCB	Ave	1021709	54207 1515351	99118 2087423	184885 2466708	520040	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Nitrobenzene-d5 (Surr)	NPT	Ave	13819 1152344	52183 1738998	103817 2362564	198409 2885488	575197	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Fluorobiphenyl (Surr)	ANT	Ave	16404 1334806	61852 1994393	129610 2710703	234992 3284523	668983	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,6-Tribromophenol (Surr)	ANT	Ave	130851	7916 210053	13319 306580	27890 389531	71048	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Terphenyl-d14 (Surr)	CRY	Ave	18313 1617452	67466 2426922	139382 3323820	270637 4024960	805473	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419102.D		
Lims ID:	std5 lst1	Client ID:	
Inject. Date:	19-Apr-2013 10:42:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	240-0019052-002		
Misc. Info.:	STD5 LST1 =STD5 LST1		
Operator:	001574	Instrument ID:	A4HP9
Injection Vol:	1.0 ul	ALS Bottle#:	2
Lims Batch ID:	82668	Lims Sample ID:	2
Sublist:	chrom-8270 _9*sub23		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\8270 _9.m		
Last Update:	19-Apr-2013 15:20:10	Calib Date:	19-Apr-2013 14:12:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419110.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK006		
First Level Reviewer: ulmanm		Date:	19-Apr-2013 11:09:28

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.752	6.752	0.0	94	186620	4.00	
* 2 Naphthalene-d8	136	7.863	7.863	0.0	99	787422	4.00	
* 3 Acenaphthene-d10	164	9.369	9.369	0.0	80	467220	4.00	
* 4 Phenanthrene-d10	188	10.646	10.646	0.0	97	638696	4.00	
* 5 Chrysene-d12	240	13.029	13.029	0.0	76	911534	4.00	
* 6 Perylene-d12	264	15.107	15.107	0.0	93	744171	4.00	
$ 7 2-Fluorophenol	112	5.550	5.550	0.0	94	387528	5.11	
$ 8 Phenol-d5	99	6.373	6.373	0.0	95	520040	5.10	
$ 9 Nitrobenzene-d5	82	7.222	7.222	0.0	86	575197	4.95	
$ 10 2-Fluorobiphenyl (Surr)	172	8.755	8.755	0.0	99	668983	4.81	
$ 11 2,4,6-Tribromophenol	330	10.043	10.043	0.0	87	71048	4.71	
$ 12 Terphenyl-d14	244	11.960	11.960	0.0	96	805473	4.93	
247 Hexadecane	57		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
25 1,4-Dioxane	88	3.579	3.579	0.0	91	194296	5.11	M
26 N-Nitrosodimethylamine	74	4.027	4.027	0.0	81	323206	5.14	
27 Pyridine	79	4.086	4.086	0.0	93	535258	5.10	M
41 Benzaldehyde	77	6.362	6.362	0.0	87	840491	10.4	
43 Phenol	94	6.383	6.383	0.0	77	532416	5.08	
44 Aniline	93	6.447	6.447	0.0	96	682843	5.05	
69 Bis(2-chloroethyl)ether	93	6.479	6.479	0.0	95	488512	5.20	
46 2-Chlorophenol	128	6.570	6.570	0.0	90	314756	5.22	
47 1,3-Dichlorobenzene	146	6.709	6.709	0.0	88	325494	5.15	
48 1,4-Dichlorobenzene	146	6.768	6.768	0.0	84	330374	5.08	
49 Benzyl alcohol	108	6.837	6.837	0.0	85	245203	5.22	
50 1,2-Dichlorobenzene	146	6.907	6.907	0.0	76	313524	5.19	
51 2-Methylphenol	108	6.917	6.917	0.0	95	343621	5.16	
53 2,2'-oxybis[1-chloropropane]	45	6.955	6.955	0.0	94	449449	5.11	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
52 Indene	115	6.982	6.982	0.0	71	1255890	10.2	
21 3 & 4 Methylphenol	108	7.046	7.046	0.0	91	361769	5.22	
57 N-Nitrosodi-n-propylamine	70	7.062	7.062	0.0	73	368298	5.20	
58 Acetophenone	105	7.078	7.078	0.0	84	560028	5.06	
61 Hexachloroethane	117	7.211	7.211	0.0	83	158883	5.15	
62 Nitrobenzene	77	7.238	7.238	0.0	75	523896	4.98	
64 Isophorone	82	7.430	7.430	0.0	96	876679	5.04	
65 2,4-Dimethylphenol	107	7.505	7.505	0.0	96	364057	4.93	
66 2-Nitrophenol	139	7.516	7.516	0.0	80	162236	5.19	
71 Benzoic acid	122	7.542	7.542	0.0	74	341558	9.56	
70 Bis(2-chloroethoxy)methane	93	7.585	7.585	0.0	97	516989	5.13	
73 2,4-Dichlorophenol	162	7.719	7.719	0.0	95	247737	5.13	
74 1,2,4-Trichlorobenzene	180	7.804	7.804	0.0	86	283468	5.12	
75 Naphthalene	128	7.879	7.879	0.0	97	934475	4.91	
76 4-Chloroaniline	127	7.890	7.890	0.0	74	511553	5.11	
79 Hexachlorobutadiene	225	7.975	7.975	0.0	91	167482	5.11	
84 Caprolactam	113	8.167	8.167	0.0	79	217875	10.2	
86 4-Chloro-3-methylphenol	107	8.274	8.274	0.0	81	331734	5.04	
87 2-Methylnaphthalene	142	8.467	8.467	0.0	84	600733	5.00	
88 1-Methylnaphthalene	142	8.557	8.557	0.0	80	553851	4.94	
89 Hexachlorocyclopentadiene	237	8.606	8.606	0.0	95	198587	5.32	
91 1,2,4,5-Tetrachlorobenzene	216	8.611	8.611	0.0	91	261725	4.88	
92 2,4,6-Trichlorophenol	196	8.691	8.691	0.0	89	172849	5.08	
93 2,4,5-Trichlorophenol	196	8.728	8.728	0.0	87	180108	5.19	
98 1,1'-Biphenyl	154	8.851	8.851	0.0	96	745919	4.79	
100 2-Chloronaphthalene	162	8.889	8.889	0.0	99	559617	4.82	
102 2-Nitroaniline	65	8.947	8.947	0.0	72	268093	5.24	
105 Dimethyl phthalate	163	9.065	9.065	0.0	94	648455	5.33	
106 1,3-Dinitrobenzene	168	9.108	9.108	0.0	79	105543	5.34	
107 2,6-Dinitrotoluene	165	9.129	9.129	0.0	67	148545	5.30	
109 Acenaphthylene	152	9.252	9.252	0.0	91	884481	4.93	
110 3-Nitroaniline	138	9.289	9.289	0.0	83	158269	5.25	
111 2,4-Dinitrophenol	184	9.375	9.375	0.0	74	163155	10.3	
113 4-Nitrophenol	109	9.385	9.385	0.0	87	243624	9.77	
112 Acenaphthene	153	9.396	9.396	0.0	91	563679	4.98	
114 2,4-Dinitrotoluene	165	9.482	9.482	0.0	78	175843	4.93	
116 Dibenzofuran	168	9.540	9.540	0.0	84	805893	4.93	
119 2,3,4,6-Tetrachlorophenol	232	9.631	9.631	0.0	77	142156	5.26	
121 Diethyl phthalate	149	9.658	9.658	0.0	94	533797	4.71	
123 4-Chlorophenyl phenyl ether	204	9.802	9.802	0.0	94	331381	5.18	
125 4-Nitroaniline	138	9.813	9.813	0.0	76	141685	4.50	
126 Fluorene	166	9.834	9.834	0.0	80	656039	5.12	
128 4,6-Dinitro-2-methylphenol	198	9.840	9.840	0.0	80	216079	10.1	
131 N-Nitrosodiphenylamine	169	9.893	9.893	0.0	99	858420	11.4	
132 1,2-Diphenylhydrazine	77	9.936	9.936	0.0	99	1094101	5.90	
133 Azobenzene	77	9.936	9.936	0.0	95	1091495	5.88	
139 4-Bromophenyl phenyl ether	248	10.224	10.224	0.0	70	167049	5.89	
142 Atrazine	200	10.304	10.304	0.0	83	349522	10.4	
141 Hexachlorobenzene	284	10.326	10.326	0.0	81	175139	6.06	
143 Pentachlorophenol	266	10.470	10.470	0.0	79	180749	9.75	
148 Phenanthrene	178	10.668	10.668	0.0	98	757433	4.81	
149 Anthracene	178	10.710	10.710	0.0	99	791266	5.08	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
151 Carbazole	167	10.823	10.823	0.0	83	781475	5.14	
154 Di-n-butyl phthalate	149	11.036	11.036	0.0	99	1030759	5.49	
159 Fluoranthene	202	11.688	11.688	0.0	99	1029570	5.41	
160 Benzidine	184	11.747	11.747	0.0	98	943524	10.6	
161 Pyrene	202	11.896	11.896	0.0	96	1081453	5.38	
168 Butyl benzyl phthalate	149	12.334	12.334	0.0	89	479549	5.23	
173 Bis(2-ethylhexyl) phthalate	149	12.863	12.863	0.0	95	658518	5.36	
175 3,3'-Dichlorobenzidine	252	12.927	12.927	0.0	66	731175	10.5	
177 Benzo[a]anthracene	228	13.018	13.018	0.0	99	1057910	4.91	
178 Chrysene	228	13.061	13.061	0.0	92	996846	4.81	
180 Di-n-octyl phthalate	149	13.616	13.616	0.0	99	1165903	4.83	
182 Benzo[b]fluoranthene	252	14.450	14.450	0.0	87	995767	5.18	
183 Benzo[k]fluoranthene	252	14.493	14.493	0.0	94	1062594	4.87	
184 Benzo[a]pyrene	252	15.016	15.016	0.0	75	968987	5.14	
188 Indeno[1,2,3-cd]pyrene	276	17.425	17.425	0.0	94	992591	5.19	M
189 Dibenz(a,h)anthracene	278	17.431	17.431	0.0	65	823868	5.29	
190 Benzo[g,h,i]perylene	276	18.152	18.152	0.0	89	812483	5.14	
S 245 Total Cresols	100				0		10.4	
S 191 Methyl Phenols,Total	100				0		10.4	

QC Flag Legend

Review Flags
M - Manually Integrated

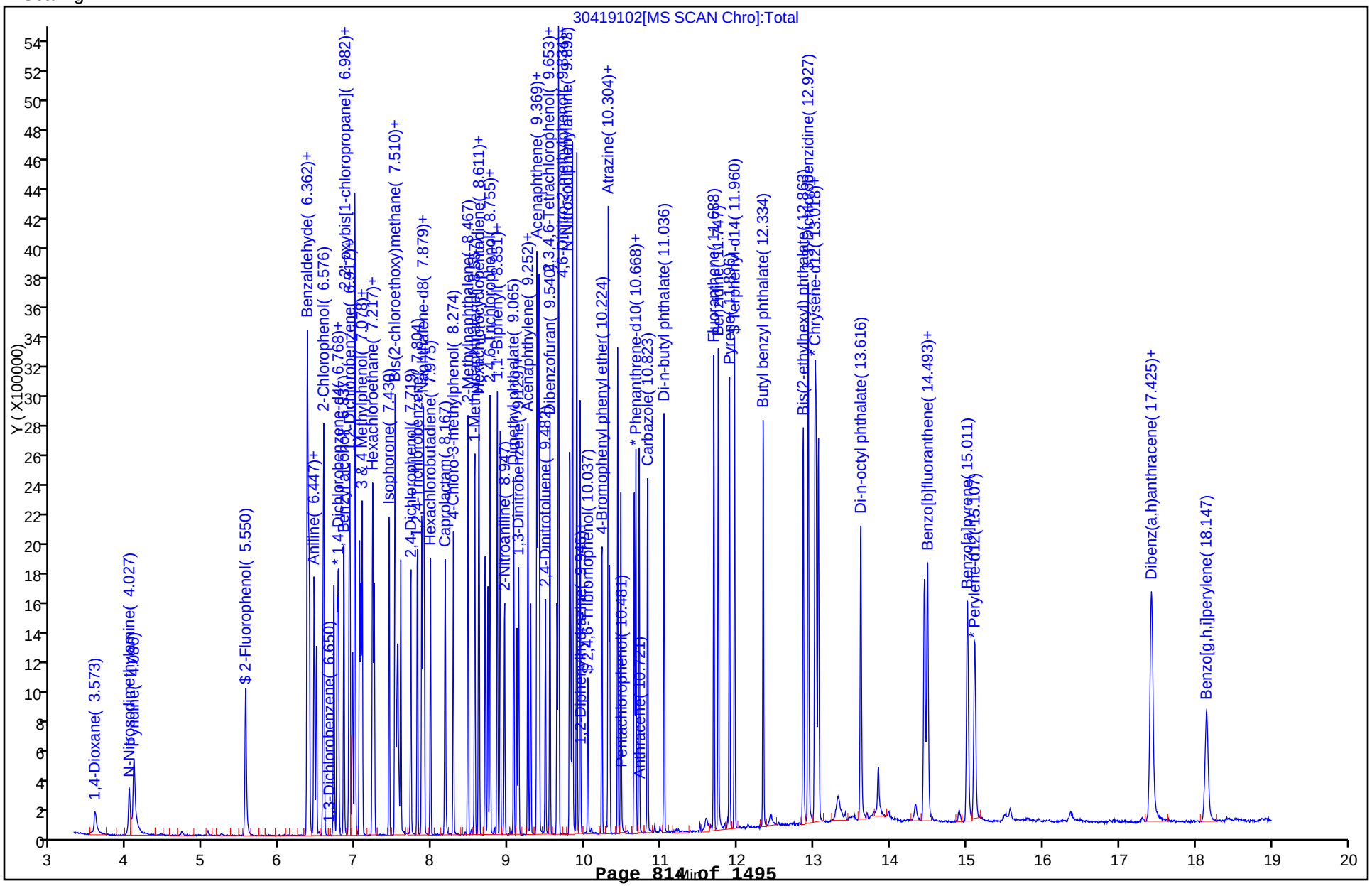
Report Date: 19-Apr-2013 15:20:10 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419102.D

Injection Date:	19-Apr-2013 10:42:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	2
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

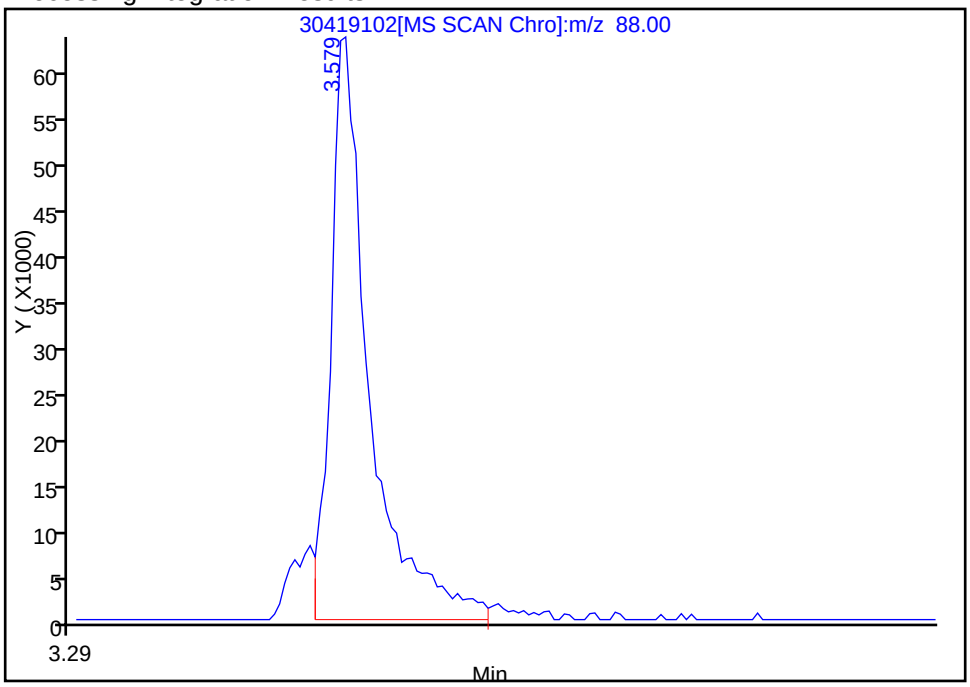
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419102.D		
Injection Date:	19-Apr-2013 10:42:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	2
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

25 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 3.58

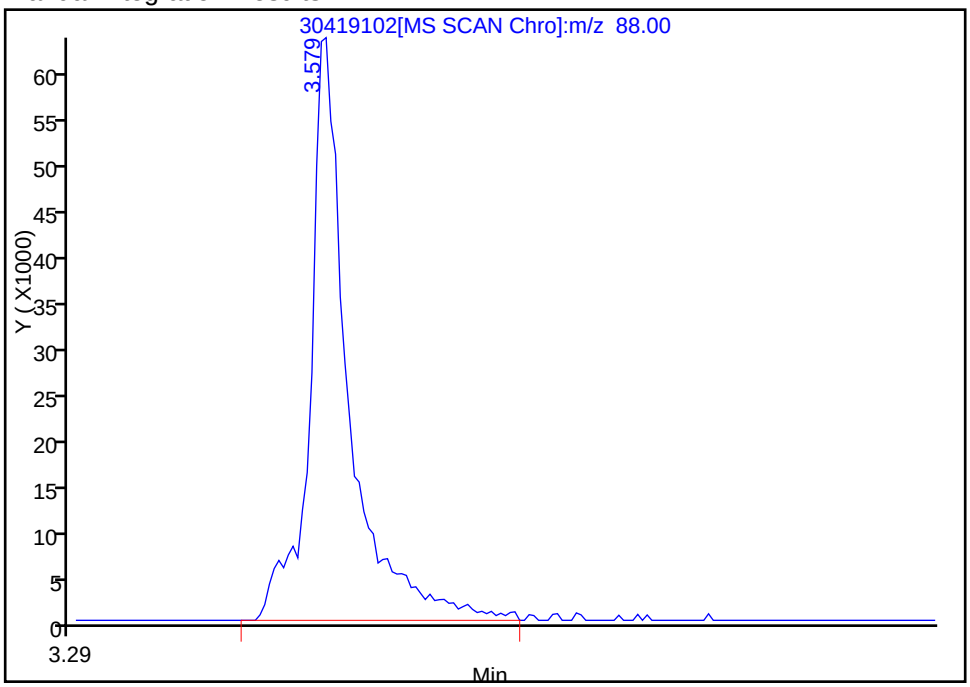
Processing Integration Results

RT: 3.58
Response: 178041
Amount: 5.000000



Manual Integration Results

RT: 3.58
Response: 194296
Amount: 5.105622



Reviewer: ulmanm, 19-Apr-2013 11:09:28
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

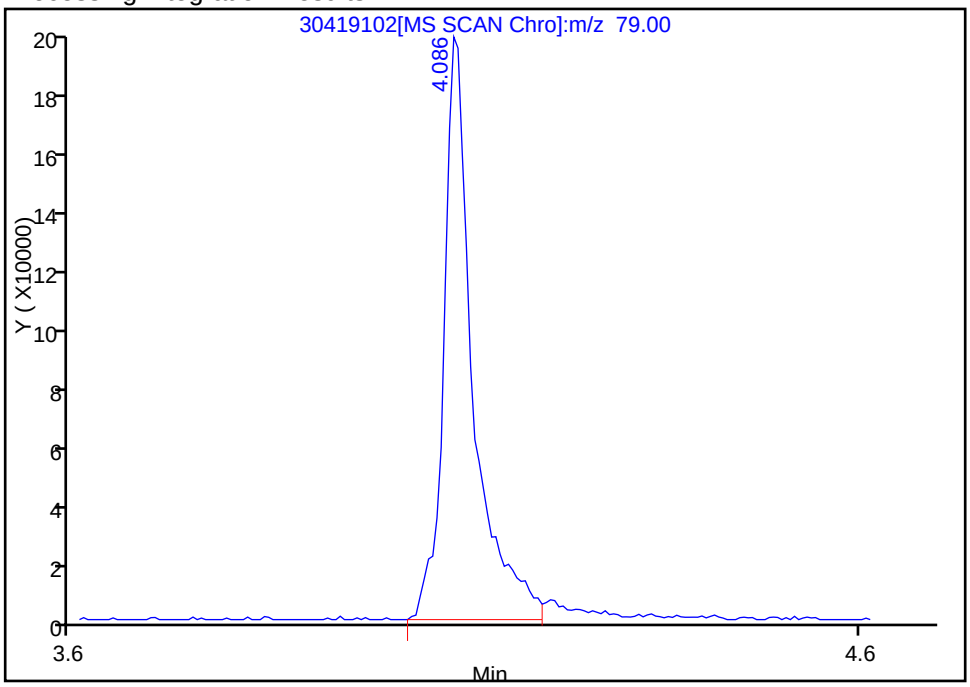
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419102.D		
Injection Date:	19-Apr-2013 10:42:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	2
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

27 Pyridine, Signal: 1, m/z: 79.0 Type: quant, RT: 4.09

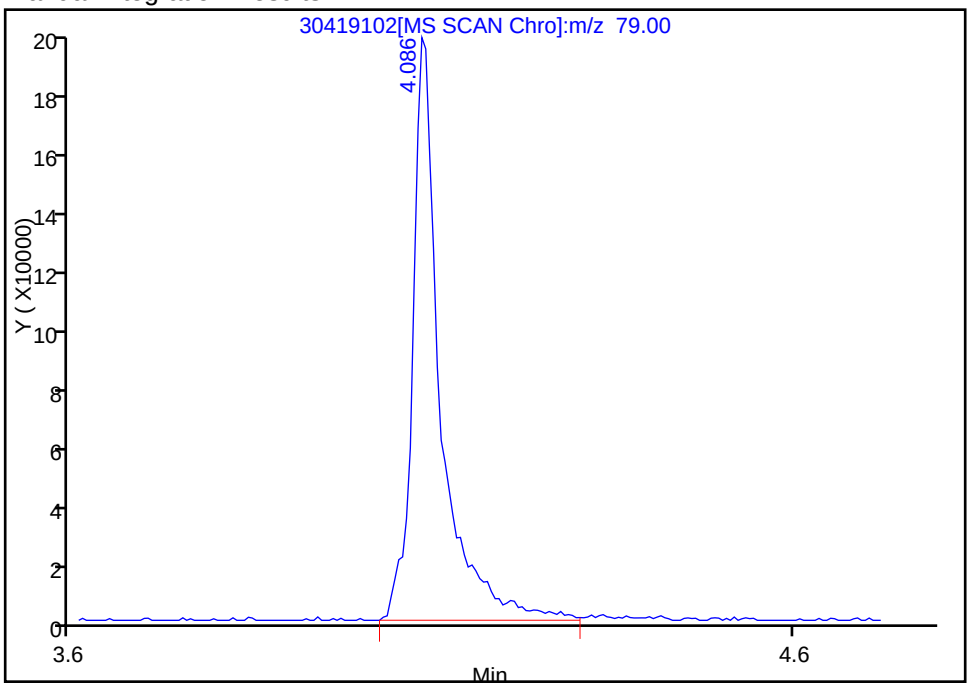
Processing Integration Results

RT: 4.09
Response: 515092
Amount: 5.000000



Manual Integration Results

RT: 4.09
Response: 535258
Amount: 5.100964



Reviewer: ulmanm, 19-Apr-2013 11:09:28
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

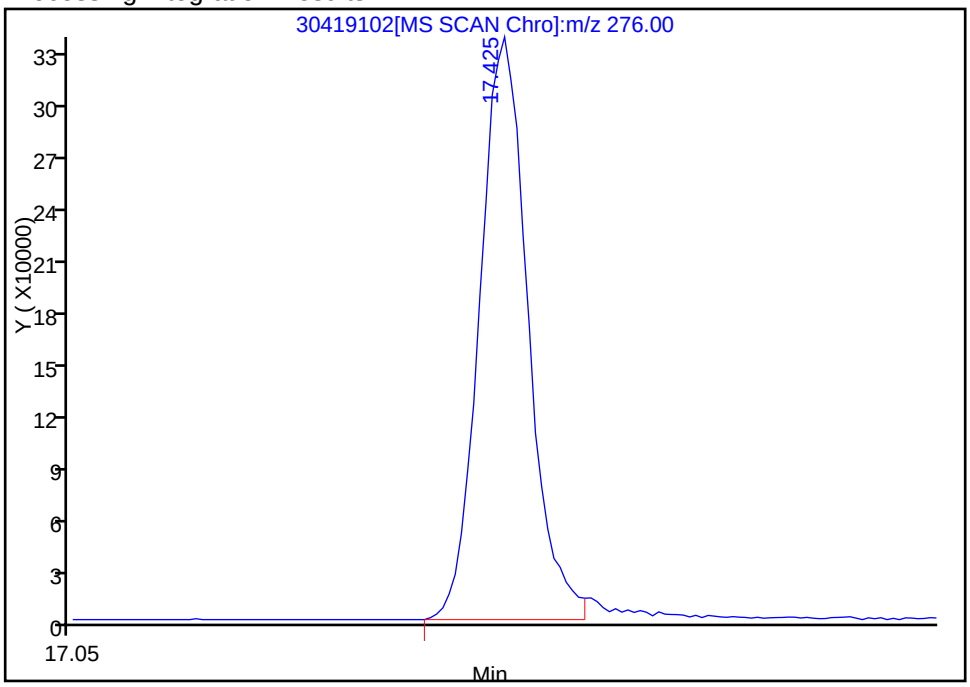
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419102.D		
Injection Date:	19-Apr-2013 10:42:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	2
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

188 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 17.43

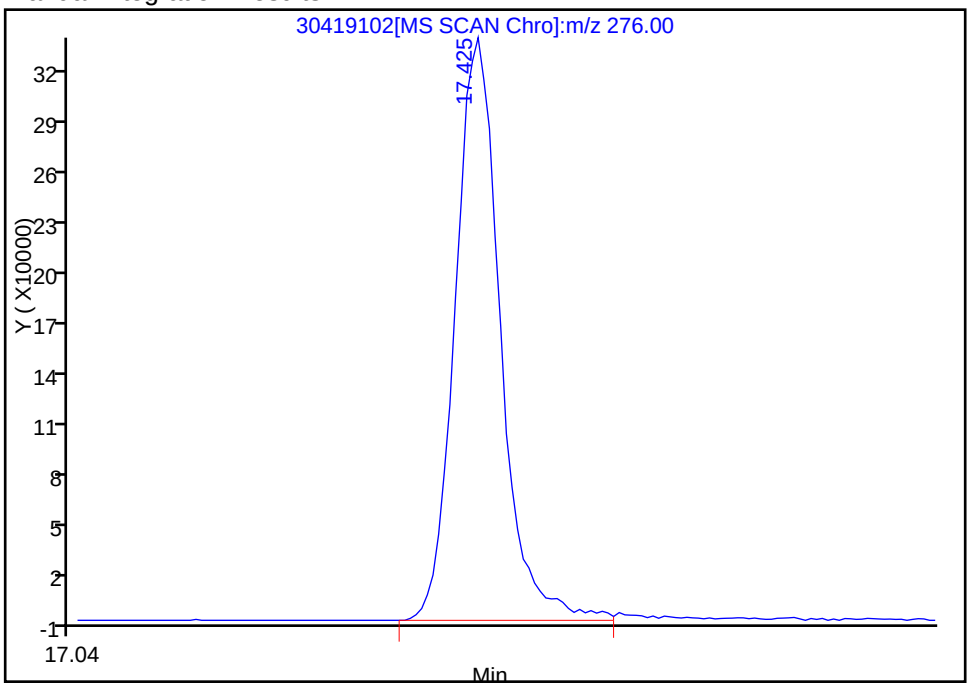
Processing Integration Results

RT: 17.43
Response: 971417
Amount: 5.000000



Manual Integration Results

RT: 17.43
Response: 992591
Amount: 5.188816



Reviewer: ulmanm, 19-Apr-2013 11:09:28
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419103.D		
Lims ID:	std4 lst1	Client ID:	
Inject. Date:	19-Apr-2013 11:08:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	240-0019052-003		
Misc. Info.:	STD4 LST1 =STD4 LST1		
Operator:	001574	Instrument ID:	A4HP9
Injection Vol:	1.0 ul	ALS Bottle#:	3
Lims Batch ID:	82668	Lims Sample ID:	3
Sublist:	chrom-8270 _9*sub23		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\8270 _9.m		
Last Update:	19-Apr-2013 15:20:12	Calib Date:	19-Apr-2013 14:12:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419110.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK006		
First Level Reviewer: ulmanm		Date:	19-Apr-2013 11:35:06

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.751	6.752	-0.001	88	168041	4.00	
* 2 Naphthalene-d8	136	7.862	7.863	-0.001	99	700902	4.00	
* 3 Acenaphthene-d10	164	9.368	9.369	-0.001	76	403816	4.00	
* 4 Phenanthrene-d10	188	10.645	10.646	-0.001	93	653870	4.00	
* 5 Chrysene-d12	240	13.028	13.029	-0.001	79	782030	4.00	
* 6 Perylene-d12	264	15.111	15.107	0.004	93	610765	4.00	
$ 7 2-Fluorophenol	112	5.554	5.550	0.004	89	136727	2.00	
$ 8 Phenol-d5	99	6.371	6.373	-0.002	95	184885	2.02	
$ 9 Nitrobenzene-d5	82	7.221	7.222	-0.001	84	198409	1.92	
$ 10 2-Fluorobiphenyl (Surr)	172	8.754	8.755	-0.001	98	234992	1.96	
$ 11 2,4,6-Tribromophenol	330	10.041	10.043	-0.002	81	27890	2.14	
$ 12 Terphenyl-d14	244	11.959	11.960	-0.001	97	270637	1.93	
244 n-Octadecane	57		0.000					
247 Hexadecane	57		0.000					
243 n-Decane	57		0.000					
25 1,4-Dioxane	88	3.583	3.579	0.004	78	71941	2.10	M
26 N-Nitrosodimethylamine	74	4.026	4.027	-0.001	80	112630	1.99	
27 Pyridine	79	4.090	4.086	0.004	92	190449	2.02	
41 Benzaldehyde	77	6.361	6.362	-0.001	85	303136	4.15	
43 Phenol	94	6.387	6.383	0.004	77	187688	1.99	
44 Aniline	93	6.451	6.447	0.004	96	250699	2.06	
69 Bis(2-chloroethyl)ether	93	6.478	6.479	-0.001	94	163349	1.93	
46 2-Chlorophenol	128	6.569	6.570	-0.001	93	114045	2.10	
47 1,3-Dichlorobenzene	146	6.708	6.709	-0.001	86	115364	2.03	
48 1,4-Dichlorobenzene	146	6.767	6.768	-0.001	68	115840	1.98	
49 Benzyl alcohol	108	6.841	6.837	0.004	84	82575	1.95	
50 1,2-Dichlorobenzene	146	6.911	6.907	0.004	79	108834	2.00	
51 2-Methylphenol	108	6.921	6.917	0.004	93	121390	2.02	
53 2,2'-oxybis[1-chloropropane]	45	6.954	6.955	-0.001	94	160936	2.03	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
52 Indene	115	6.986	6.982	0.004	70	455520	4.09	
21 3 & 4 Methylphenol	108	7.044	7.046	-0.002	85	122200	1.96	
57 N-Nitrosodi-n-propylamine	70	7.060	7.062	-0.002	67	129155	2.02	
58 Acetophenone	105	7.076	7.078	-0.002	84	202785	2.03	
61 Hexachloroethane	117	7.210	7.211	-0.001	87	56346	2.03	
62 Nitrobenzene	77	7.237	7.238	-0.001	80	181471	1.94	
64 Isophorone	82	7.434	7.430	0.004	96	300217	1.94	
65 2,4-Dimethylphenol	107	7.509	7.505	0.004	94	138257	2.10	
66 2-Nitrophenol	139	7.514	7.516	-0.002	84	55869	2.01	
71 Benzoic acid	122	7.530	7.542	-0.012	78	83745	3.67	M
70 Bis(2-chloroethoxy)methane	93	7.584	7.585	-0.001	99	181811	2.03	
73 2,4-Dichlorophenol	162	7.717	7.719	-0.002	93	85086	1.98	
74 1,2,4-Trichlorobenzene	180	7.803	7.804	-0.001	86	95873	1.95	
75 Naphthalene	128	7.878	7.879	-0.001	97	338658	2.00	
76 4-Chloroaniline	127	7.894	7.890	0.004	65	177337	1.99	
79 Hexachlorobutadiene	225	7.974	7.975	-0.001	88	58237	2.00	
84 Caprolactam	113	8.161	8.167	-0.006	79	77654	4.07	
86 4-Chloro-3-methylphenol	107	8.273	8.274	-0.001	78	116074	1.98	
87 2-Methylnaphthalene	142	8.465	8.467	-0.002	85	215574	2.02	
88 1-Methylnaphthalene	142	8.556	8.557	-0.001	78	196911	1.97	
89 Hexachlorocyclopentadiene	237	8.604	8.606	-0.002	84	64053	1.99	
91 1,2,4,5-Tetrachlorobenzene	216	8.615	8.611	0.004	92	94710	2.04	
92 2,4,6-Trichlorophenol	196	8.690	8.691	-0.001	84	57911	1.97	
93 2,4,5-Trichlorophenol	196	8.727	8.728	-0.001	85	60972	2.03	
98 1,1'-Biphenyl	154	8.850	8.851	-0.001	96	267465	1.99	
100 2-Chloronaphthalene	162	8.887	8.889	-0.002	98	199989	1.99	
102 2-Nitroaniline	65	8.946	8.947	-0.001	58	88236	2.00	
105 Dimethyl phthalate	163	9.064	9.065	-0.001	93	221252	2.10	
106 1,3-Dinitrobenzene	168	9.106	9.108	-0.002	78	34047	1.99	
107 2,6-Dinitrotoluene	165	9.128	9.129	-0.001	61	50578	2.09	
109 Acenaphthylene	152	9.251	9.252	-0.001	85	311903	2.01	
110 3-Nitroaniline	138	9.288	9.289	-0.001	86	54680	2.10	
111 2,4-Dinitrophenol	184	9.374	9.375	-0.001	54	46911	4.20	M
113 4-Nitrophenol	109	9.384	9.385	-0.001	87	71786	3.33	
112 Acenaphthene	153	9.395	9.396	-0.001	89	199756	2.04	
114 2,4-Dinitrotoluene	165	9.480	9.482	-0.002	73	63236	2.05	
116 Dibenzofuran	168	9.539	9.540	-0.001	83	282269	2.00	
119 2,3,4,6-Tetrachlorophenol	232	9.635	9.631	0.004	70	49117	2.10	
121 Diethyl phthalate	149	9.657	9.658	-0.001	94	209973	2.14	
123 4-Chlorophenyl phenyl ether	204	9.801	9.802	-0.001	93	115536	2.09	
125 4-Nitroaniline	138	9.812	9.813	-0.001	79	41760	2.03	
126 Fluorene	166	9.833	9.834	-0.001	82	237538	2.15	
128 4,6-Dinitro-2-methylphenol	198	9.838	9.840	-0.002	74	60865	3.54	
131 N-Nitrosodiphenylamine	169	9.892	9.893	-0.001	99	325388	4.23	
132 1,2-Diphenylhydrazine	77	9.934	9.936	-0.002	99	380059	2.00	
133 Azobenzene	77	9.934	9.936	-0.002	95	380059	2.00	
139 4-Bromophenyl phenyl ether	248	10.223	10.224	-0.001	69	61844	2.13	
142 Atrazine	200	10.303	10.304	-0.001	83	109099	3.52	
141 Hexachlorobenzene	284	10.324	10.326	-0.002	81	60415	2.04	
143 Pentachlorophenol	266	10.469	10.470	-0.001	78	57573	3.69	
148 Phenanthrene	178	10.666	10.668	-0.002	98	308476	1.91	
149 Anthracene	178	10.709	10.710	-0.001	88	313042	1.96	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
151 Carbazole	167	10.821	10.823	-0.002	83	215522	1.55	
154 Di-n-butyl phthalate	149	11.035	11.036	-0.001	99	279275	1.69	
159 Fluoranthene	202	11.687	11.688	-0.001	99	276781	1.44	
160 Benzidine	184	11.745	11.747	-0.002	98	305616	4.00	
161 Pyrene	202	11.890	11.896	-0.006	94	300557	1.74	
168 Butyl benzyl phthalate	149	12.338	12.334	0.004	92	150251	1.91	
173 Bis(2-ethylhexyl) phthalate	149	12.862	12.863	-0.001	94	195198	1.85	
175 3,3'-Dichlorobenzidine	252	12.926	12.927	-0.001	68	217414	3.65	
177 Benzo[a]anthracene	228	13.012	13.018	-0.006	90	348474	1.88	
178 Chrysene	228	13.060	13.061	-0.001	93	343353	1.93	
180 Di-n-octyl phthalate	149	13.615	13.616	-0.001	99	319542	1.83	
182 Benzo[b]fluoranthene	252	14.449	14.450	-0.001	92	300350	1.90	
183 Benzo[k]fluoranthene	252	14.486	14.493	-0.007	96	335113	1.87	
184 Benzo[a]pyrene	252	15.009	15.016	-0.007	64	299537	1.94	
188 Indeno[1,2,3-cd]pyrene	276	17.419	17.425	-0.006	94	328346	2.09	
189 Dibenz(a,h)anthracene	278	17.424	17.431	-0.007	50	256535	2.01	
190 Benzo[g,h,i]perylene	276	18.140	18.152	-0.012	88	273467	2.11	
S 245 Total Cresols	100				0		3.98	
S 191 Methyl Phenols,Total	100				0		3.98	

QC Flag Legend

Review Flags
M - Manually Integrated

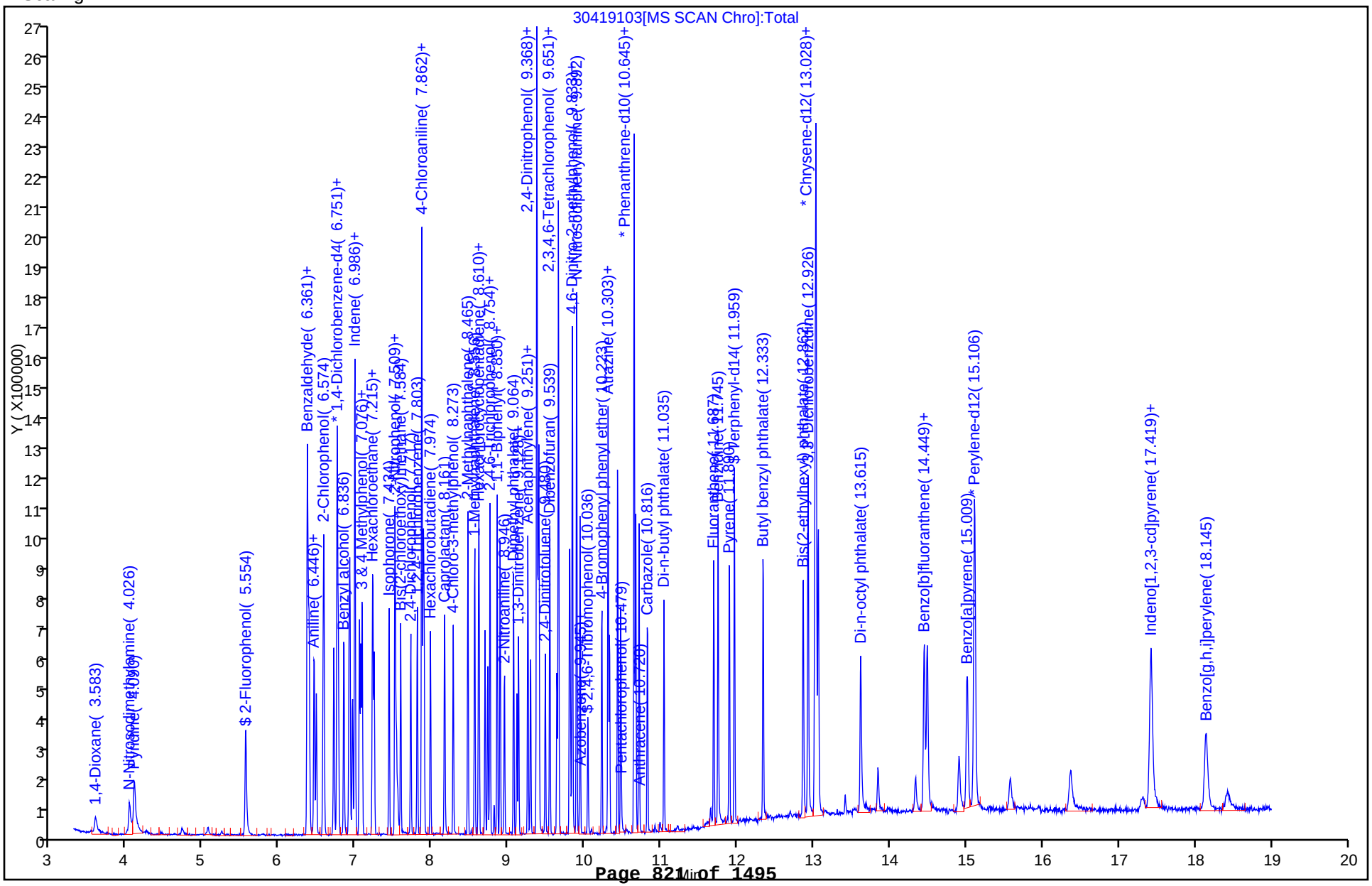
Report Date: 19-Apr-2013 15:20:12 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419103.D

Injection Date:	19-Apr-2013 11:08:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	3
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

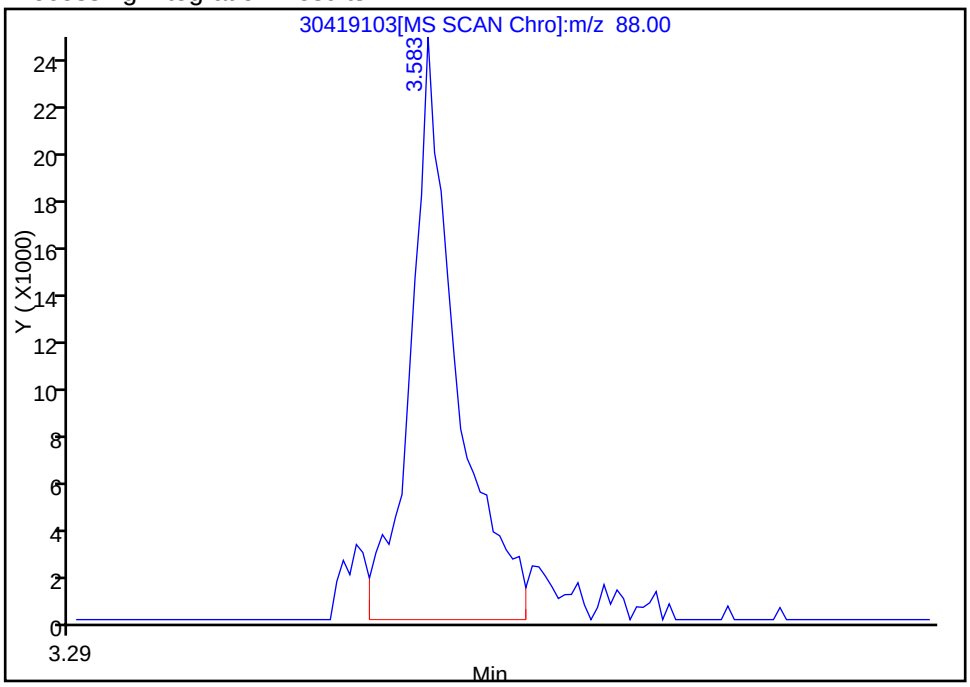
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419103.D		
Injection Date:	19-Apr-2013 11:08:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	3
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

25 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 3.58

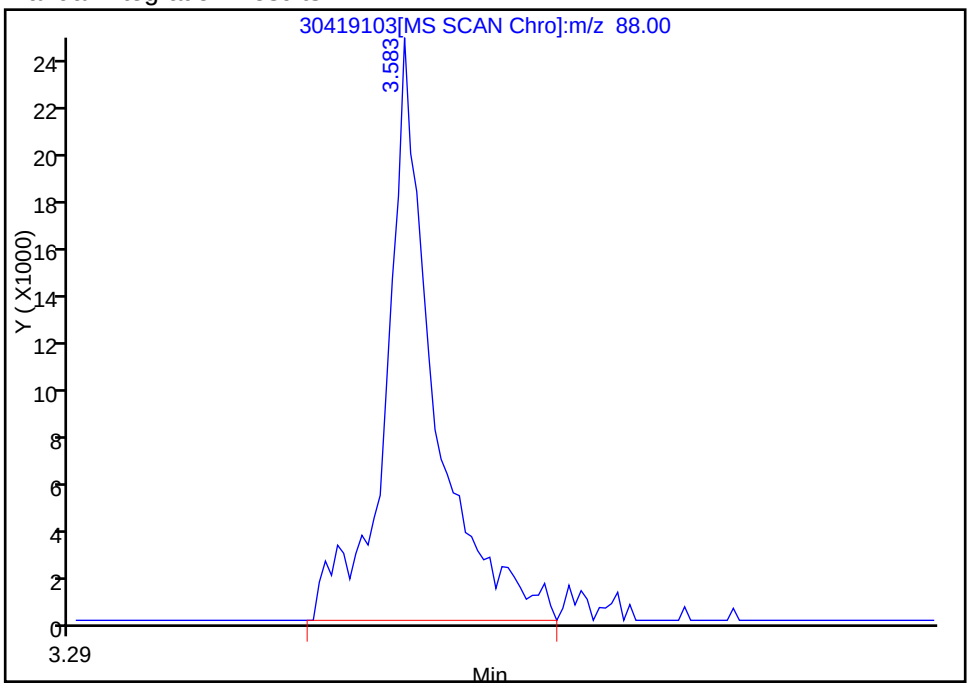
Processing Integration Results

RT: 3.58
Response: 63953
Amount: 1.909984



Manual Integration Results

RT: 3.58
Response: 71941
Amount: 2.099444



Reviewer: ulmanm, 19-Apr-2013 11:35:06
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

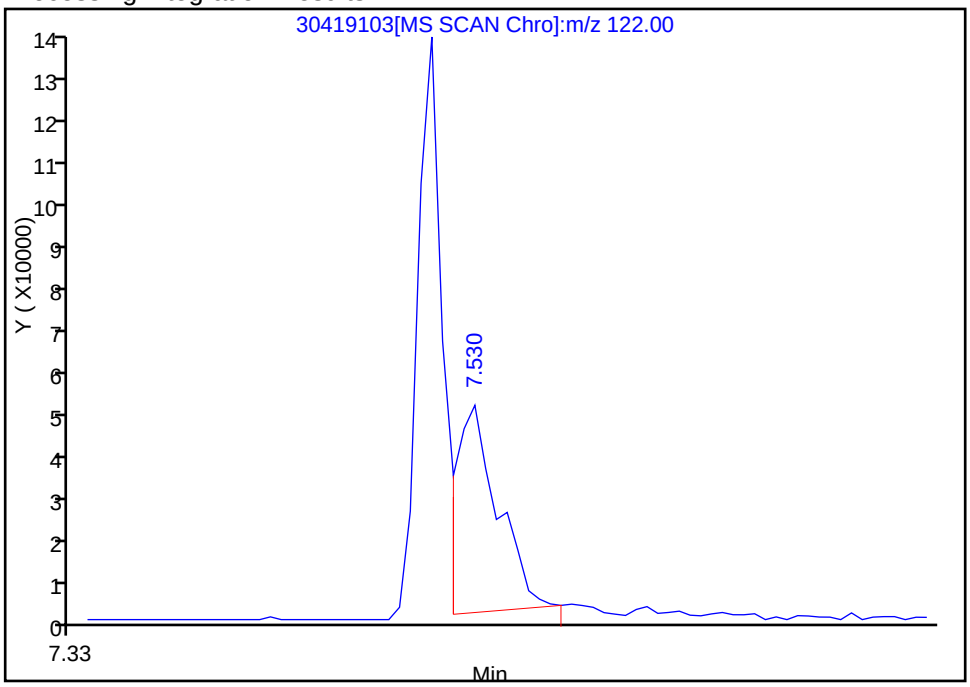
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419103.D		
Injection Date:	19-Apr-2013 11:08:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	3
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

71 Benzoic acid, Signal: 1, m/z: 122.0 Type: quant, RT: 7.54

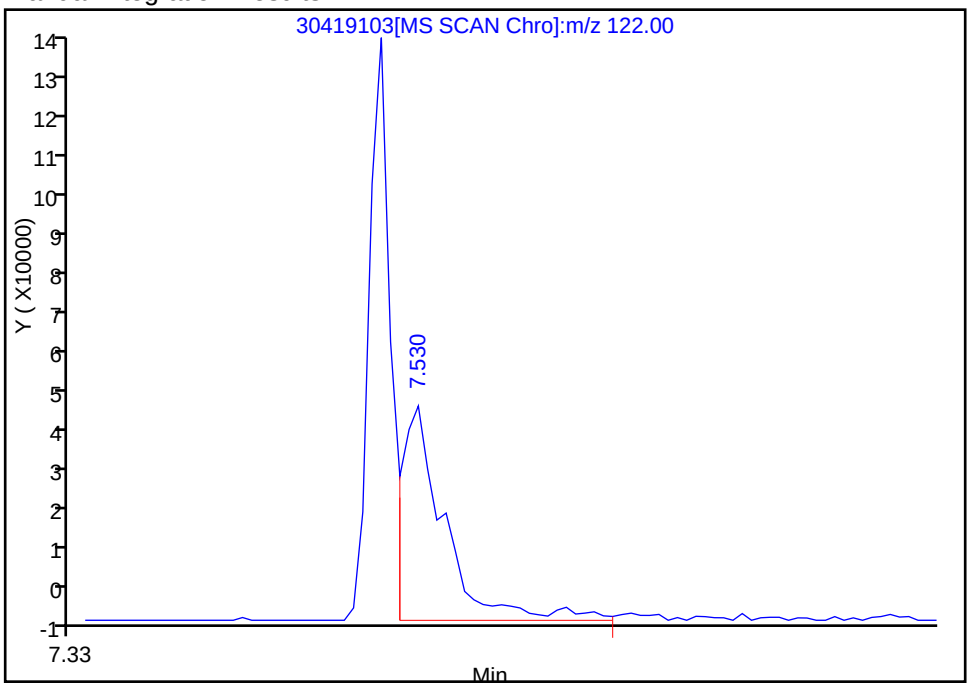
Processing Integration Results

RT: 7.53
Response: 67942
Amount: 2.867456



Manual Integration Results

RT: 7.53
Response: 83745
Amount: 3.669784



Reviewer: ulmanm, 19-Apr-2013 11:35:06
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

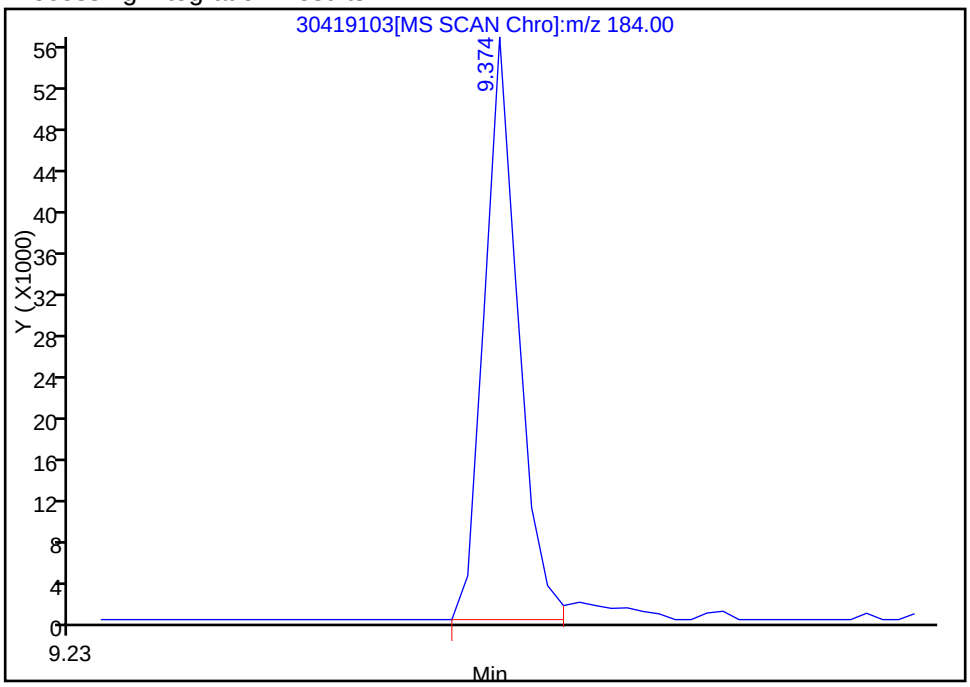
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419103.D		
Injection Date:	19-Apr-2013 11:08:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	3
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

111 2,4-Dinitrophenol, Signal: 1, m/z: 184.0 Type: quant, RT: 9.37

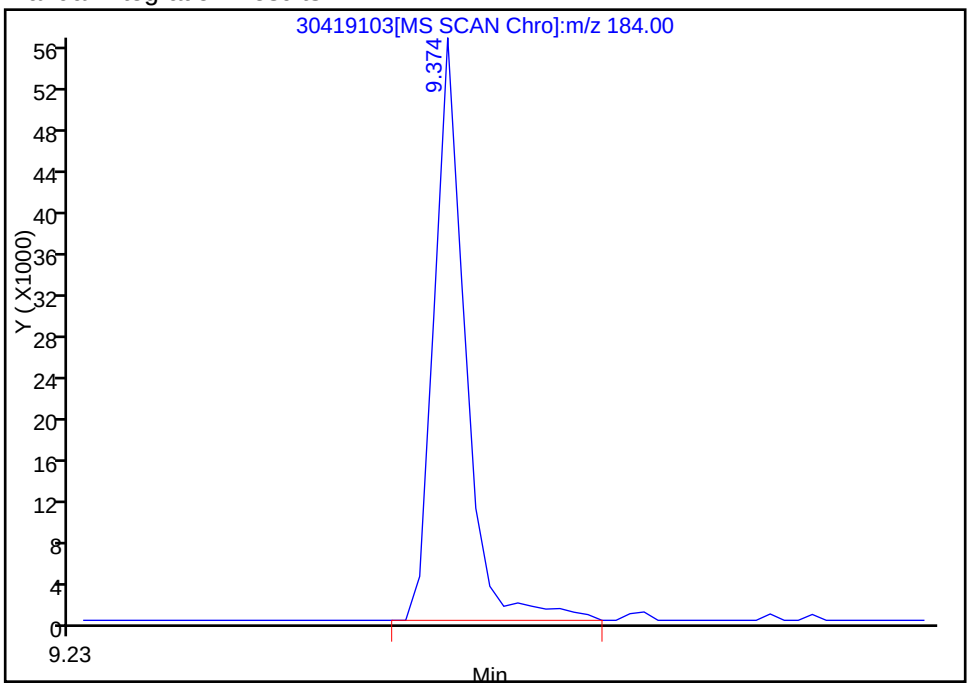
Processing Integration Results

RT: 9.37
Response: 44754
Amount: 3.539277



Manual Integration Results

RT: 9.37
Response: 46911
Amount: 4.197810



Reviewer: ulmanm, 19-Apr-2013 11:35:06
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419104.D		
Lims ID:	std3 lst1	Client ID:	
Inject. Date:	19-Apr-2013 11:34:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	240-0019052-004		
Misc. Info.:	STD3 LST1 =STD3 LST1		
Operator:	001574	Instrument ID:	A4HP9
Injection Vol:	1.0 ul	ALS Bottle#:	4
Lims Batch ID:	82668	Lims Sample ID:	4
Sublist:	chrom-8270 _9*sub23		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\8270 _9.m		
Last Update:	19-Apr-2013 15:20:13	Calib Date:	19-Apr-2013 14:12:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419110.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK006		
First Level Reviewer: ulmanm		Date:	19-Apr-2013 12:40:04

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.750	6.752	-0.002	92	179345	4.00	
* 2 Naphthalene-d8	136	7.861	7.863	-0.002	98	750181	4.00	
* 3 Acenaphthene-d10	164	9.367	9.369	-0.002	77	442110	4.00	
* 4 Phenanthrene-d10	188	10.644	10.646	-0.002	97	726954	4.00	
* 5 Chrysene-d12	240	13.027	13.029	-0.002	80	816346	4.00	
* 6 Perylene-d12	264	15.110	15.107	0.003	97	644898	4.00	
$ 7 2-Fluorophenol	112	5.553	5.550	0.003	89	72671	1.00	
$ 8 Phenol-d5	99	6.376	6.373	0.003	92	99118	1.01	
$ 9 Nitrobenzene-d5	82	7.220	7.222	-0.002	85	103817	0.9385	
$ 10 2-Fluorobiphenyl (Surr)	172	8.753	8.755	-0.002	99	129610	0.9849	
$ 11 2,4,6-Tribromophenol	330	10.040	10.043	-0.003	71	13319	0.9323	
$ 12 Terphenyl-d14	244	11.958	11.960	-0.002	96	139382	0.9528	
247 Hexadecane	57		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
25 1,4-Dioxane	88	3.582	3.579	0.003	88	37094	1.01	M
26 N-Nitrosodimethylamine	74	4.030	4.027	0.003	77	57162	0.9462	
27 Pyridine	79	4.094	4.086	0.008	91	98624	0.9780	M
41 Benzaldehyde	77	6.360	6.362	-0.002	88	158621	2.03	
43 Phenol	94	6.386	6.383	0.003	71	101870	1.01	
44 Aniline	93	6.450	6.447	0.003	97	131658	1.01	
69 Bis(2-chloroethyl)ether	93	6.477	6.479	-0.002	90	93151	1.03	
46 2-Chlorophenol	128	6.568	6.570	-0.002	92	56740	0.9799	
47 1,3-Dichlorobenzene	146	6.707	6.709	-0.002	85	60505	1.00	
48 1,4-Dichlorobenzene	146	6.766	6.768	-0.002	75	63242	1.01	
49 Benzyl alcohol	108	6.840	6.837	0.003	84	42586	0.9428	
50 1,2-Dichlorobenzene	146	6.910	6.907	0.003	75	60699	1.05	
51 2-Methylphenol	108	6.920	6.917	0.003	94	64044	1.00	
53 2,2'-oxybis[1-chloropropane]	45	6.953	6.955	-0.003	93	83898	0.99	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
52 Indene	115	6.985	6.982	0.003	69	241934	2.04	
21 3 & 4 Methylphenol	108	7.043	7.046	-0.003	85	65695	0.9863	
57 N-Nitrosodi-n-propylamine	70	7.059	7.062	-0.003	71	64556	0.9479	
58 Acetophenone	105	7.081	7.078	0.003	80	107636	1.01	
61 Hexachloroethane	117	7.214	7.211	0.003	79	29794	1.01	
62 Nitrobenzene	77	7.236	7.238	-0.002	81	96087	0.9591	
64 Isophorone	82	7.433	7.430	0.003	96	157540	0.9501	
65 2,4-Dimethylphenol	107	7.508	7.505	0.003	95	71682	1.02	
66 2-Nitrophenol	139	7.513	7.516	-0.003	80	28159	0.9462	
71 Benzoic acid	122	7.519	7.542	-0.023	0	33814	2.28	M
70 Bis(2-chloroethoxy)methane	93	7.583	7.585	-0.002	98	93730	0.9767	
73 2,4-Dichlorophenol	162	7.716	7.719	-0.003	93	43796	0.9513	
74 1,2,4-Trichlorobenzene	180	7.802	7.804	-0.002	90	52629	1.00	
75 Naphthalene	128	7.882	7.879	0.003	78	185196	1.02	
76 4-Chloroaniline	127	7.893	7.890	0.003	65	96444	1.01	
79 Hexachlorobutadiene	225	7.973	7.975	-0.002	90	33727	1.08	
84 Caprolactam	113	8.160	8.167	-0.007	75	38308	1.88	
86 4-Chloro-3-methylphenol	107	8.272	8.274	-0.002	84	58712	0.9365	
87 2-Methylnaphthalene	142	8.464	8.467	-0.003	86	113637	0.99	
88 1-Methylnaphthalene	142	8.555	8.557	-0.002	76	103248	0.9657	
89 Hexachlorocyclopentadiene	237	8.603	8.606	-0.003	85	29422	0.8333	
91 1,2,4,5-Tetrachlorobenzene	216	8.609	8.611	-0.002	91	51641	1.02	
92 2,4,6-Trichlorophenol	196	8.689	8.691	-0.002	87	29143	0.9054	
93 2,4,5-Trichlorophenol	196	8.726	8.728	-0.002	82	28144	0.8569	
98 1,1'-Biphenyl	154	8.849	8.851	-0.002	95	143692	0.9746	
100 2-Chloronaphthalene	162	8.886	8.889	-0.003	98	105070	0.9567	
102 2-Nitroaniline	65	8.945	8.947	-0.002	66	41638	0.8602	
105 Dimethyl phthalate	163	9.063	9.065	-0.002	93	114531	1.00	
106 1,3-Dinitrobenzene	168	9.105	9.108	-0.003	77	16277	0.8702	
107 2,6-Dinitrotoluene	165	9.127	9.129	-0.002	69	26243	0.9890	
109 Acenaphthylene	152	9.250	9.252	-0.002	91	159192	0.9368	
110 3-Nitroaniline	138	9.287	9.289	-0.002	85	26590	0.9320	
111 2,4-Dinitrophenol	184	9.373	9.375	-0.003	41	18721	2.13	
113 4-Nitrophenol	109	9.389	9.385	0.004	85	42171	1.79	
112 Acenaphthene	153	9.394	9.396	-0.002	86	105082	0.9802	
114 2,4-Dinitrotoluene	165	9.479	9.482	-0.003	72	31632	0.9370	
116 Dibenzofuran	168	9.538	9.540	-0.002	86	150379	0.9726	
119 2,3,4,6-Tetrachlorophenol	232	9.634	9.631	0.003	66	23998	0.9391	
121 Diethyl phthalate	149	9.656	9.658	-0.002	92	112714	1.05	
123 4-Chlorophenyl phenyl ether	204	9.800	9.802	-0.002	93	60614	1.00	
125 4-Nitroaniline	138	9.811	9.813	-0.002	73	24431	1.43	
126 Fluorene	166	9.832	9.834	-0.002	80	121691	1.00	
128 4,6-Dinitro-2-methylphenol	198	9.837	9.840	-0.003	71	30074	2.16	
131 N-Nitrosodiphenylamine	169	9.891	9.893	-0.002	99	177410	2.07	
132 1,2-Diphenylhydrazine	77	9.933	9.936	-0.003	99	199971	0.9471	
133 Azobenzene	77	9.933	9.936	-0.003	95	199971	0.9471	
139 4-Bromophenyl phenyl ether	248	10.222	10.224	-0.002	70	34500	1.07	
142 Atrazine	200	10.302	10.304	-0.002	84	52260	1.87	
141 Hexachlorobenzene	284	10.323	10.326	-0.003	76	32057	0.9741	
143 Pentachlorophenol	266	10.473	10.470	0.003	76	27746	2.14	M
148 Phenanthrene	178	10.665	10.668	-0.003	90	175110	0.9762	
149 Anthracene	178	10.708	10.710	-0.002	98	169938	0.9580	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
151 Carbazole	167	10.820	10.823	-0.003	83	135936	0.9732	
154 Di-n-butyl phthalate	149	11.034	11.036	-0.002	99	122524	0.8617	
159 Fluoranthene	202	11.686	11.688	-0.002	98	144439	0.6958	
160 Benzidine	184	11.744	11.747	-0.003	97	151287	1.90	
161 Pyrene	202	11.894	11.896	-0.002	96	144462	0.8018	
168 Butyl benzyl phthalate	149	12.337	12.334	0.003	87	73148	0.8908	
173 Bis(2-ethylhexyl) phthalate	149	12.861	12.863	-0.002	94	96825	0.8803	
175 3,3'-Dichlorobenzidine	252	12.925	12.927	-0.002	71	108153	1.74	
177 Benzo[a]anthracene	228	13.016	13.018	-0.002	99	181615	0.9411	
178 Chrysene	228	13.059	13.061	-0.002	91	180096	0.9696	
180 Di-n-octyl phthalate	149	13.614	13.616	-0.002	97	157277	1.02	
182 Benzo[b]fluoranthene	252	14.448	14.450	-0.002	85	147613	0.8856	
183 Benzo[k]fluoranthene	252	14.485	14.493	-0.008	98	192101	1.02	
184 Benzo[a]pyrene	252	15.008	15.016	-0.008	73	147012	0.8998	
188 Indeno[1,2,3-cd]pyrene	276	17.412	17.425	-0.013	92	162130	0.9780	M
189 Dibenz(a,h)anthracene	278	17.423	17.431	-0.008	45	130647	0.9681	M
190 Benzo[g,h,i]perylene	276	18.139	18.152	-0.013	1	137884	1.01	M
S 245 Total Cresols	100				0		1.99	
S 191 Methyl Phenols,Total	100				0		1.99	

QC Flag Legend

Review Flags
M - Manually Integrated

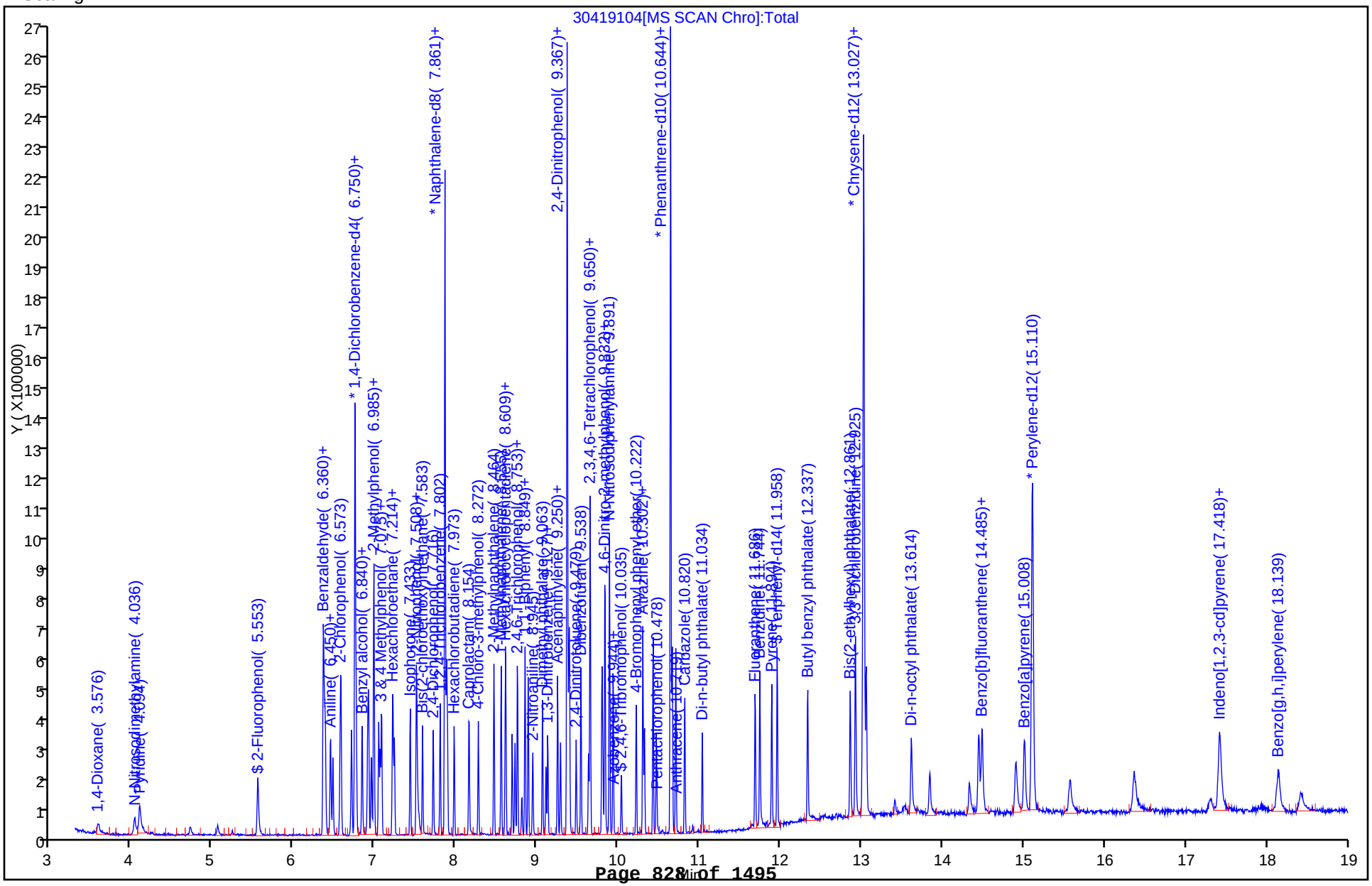
Report Date: 19-Apr-2013 15:20:13 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419104.D

Injection Date:	19-Apr-2013 11:34:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	4
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

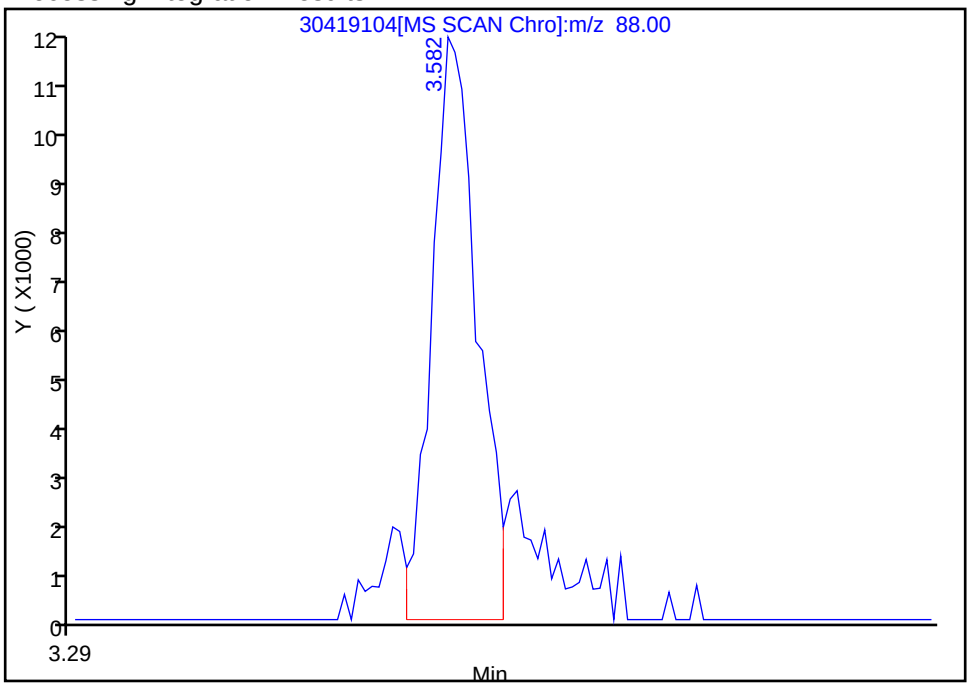
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419104.D		
Injection Date:	19-Apr-2013 11:34:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	4
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

25 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 3.58

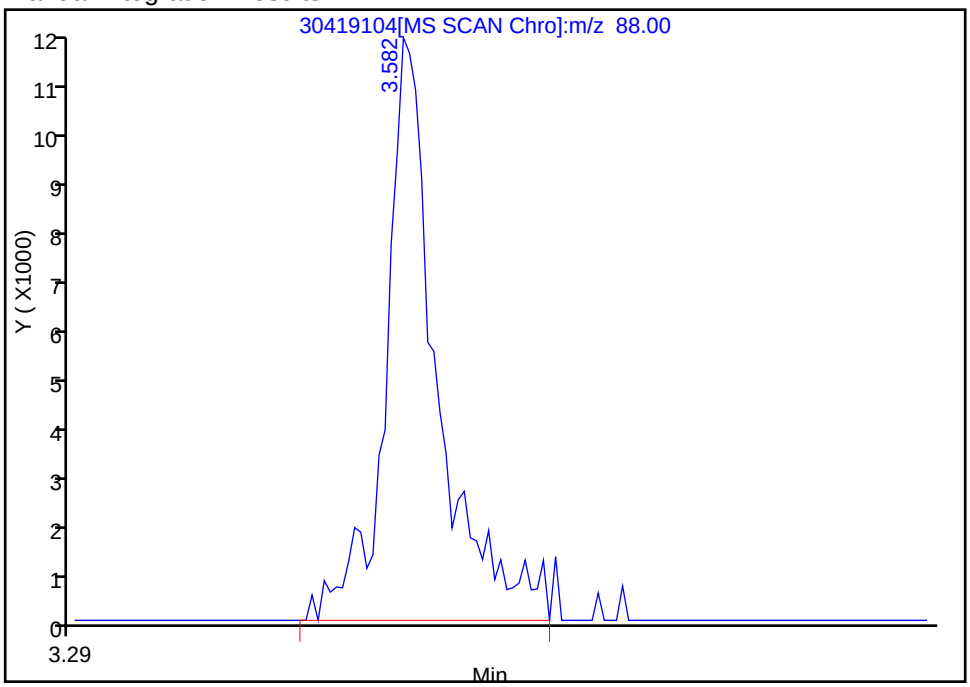
Processing Integration Results

RT: 3.58
Response: 28493
Amount: 0.857952



Manual Integration Results

RT: 3.58
Response: 37094
Amount: 1.014279



Reviewer: ulmanm, 19-Apr-2013 12:40:04
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

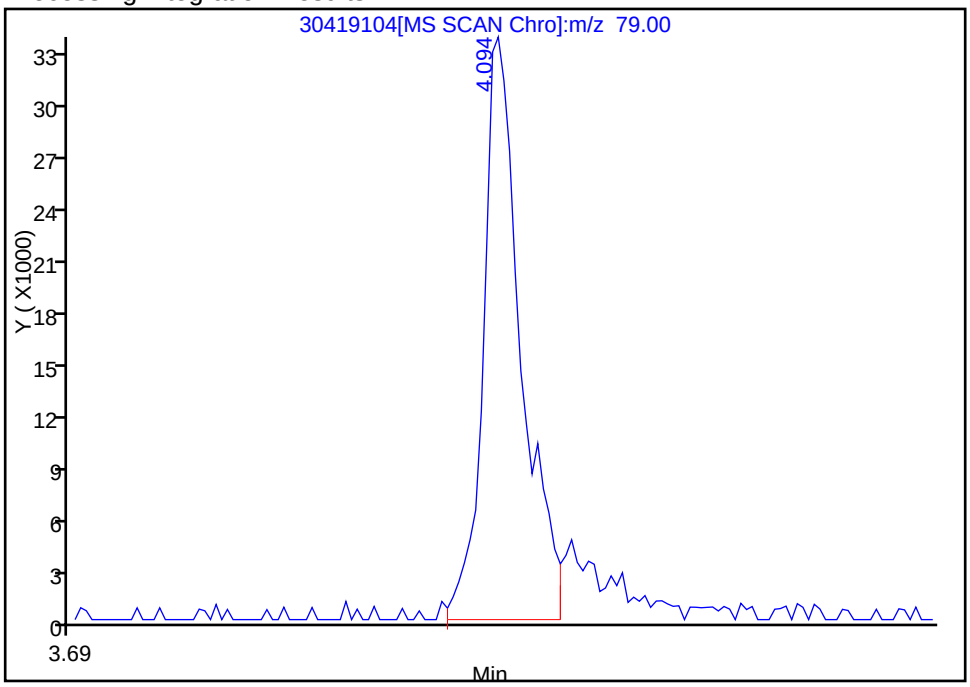
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419104.D		
Injection Date:	19-Apr-2013 11:34:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	4
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

27 Pyridine, Signal: 1, m/z: 79.0 Type: quant, RT: 4.09

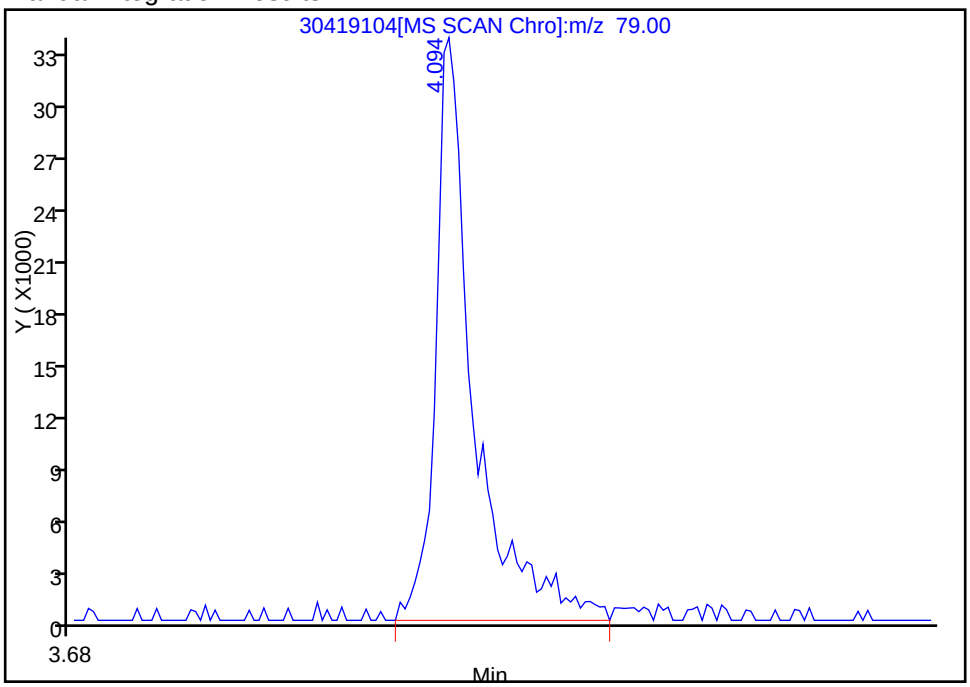
Processing Integration Results

RT: 4.09
Response: 84789
Amount: 0.885457



Manual Integration Results

RT: 4.09
Response: 98624
Amount: 0.978004



Reviewer: ulmanm, 19-Apr-2013 12:40:04
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

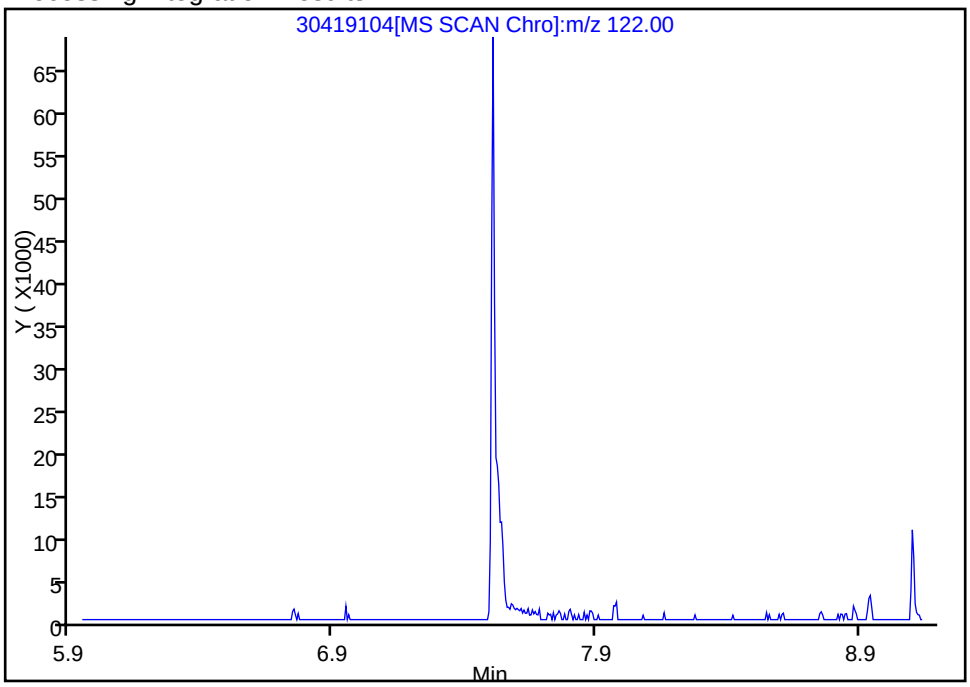
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419104.D		
Injection Date:	19-Apr-2013 11:34:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	4
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

71 Benzoic acid, Signal: 1, m/z: 122.0 Type: quant, RT: 7.54

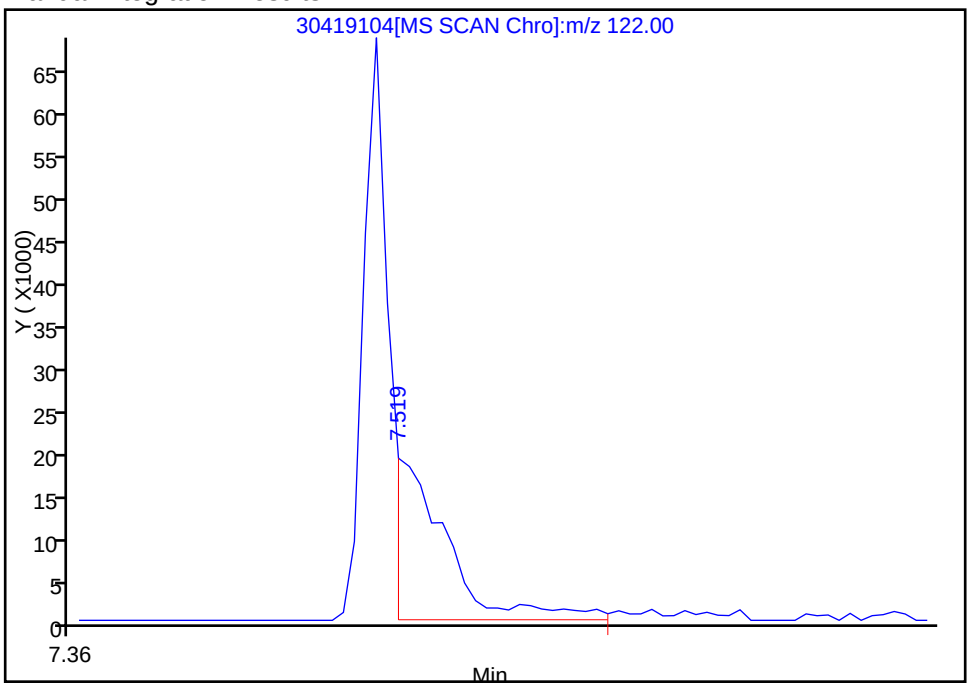
Processing Integration Results

Not Detected
Expected RT: 7.54



Manual Integration Results

RT: 7.52
Response: 33814
Amount: 2.275157



Reviewer: ulmanm, 19-Apr-2013 12:40:04
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

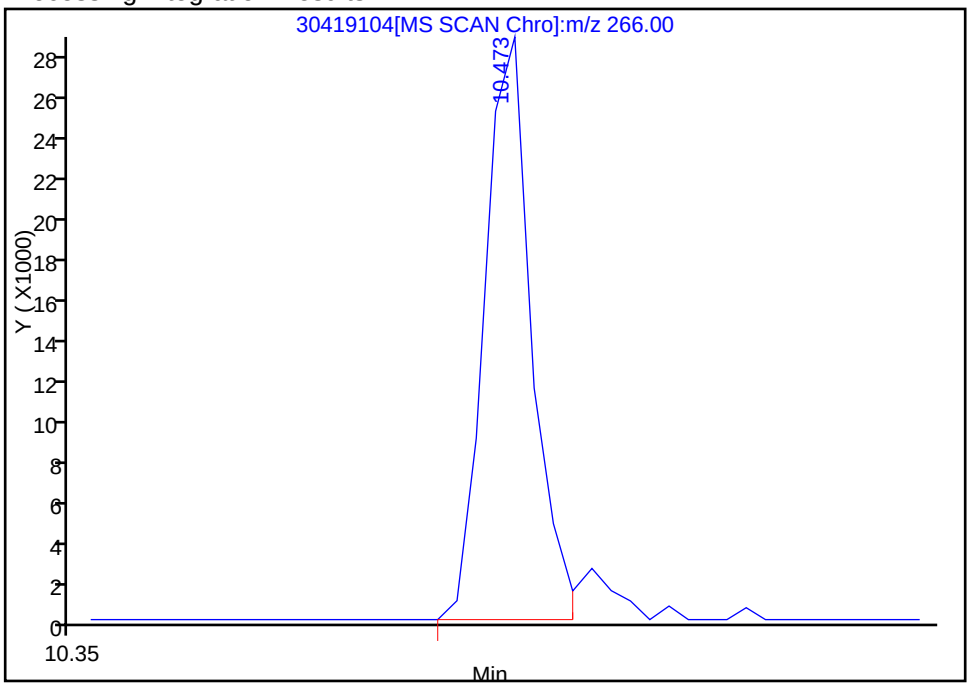
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419104.D		
Injection Date:	19-Apr-2013 11:34:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	4
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

143 Pentachlorophenol, Signal: 1, m/z: 266.0 Type: quant, RT: 10.47

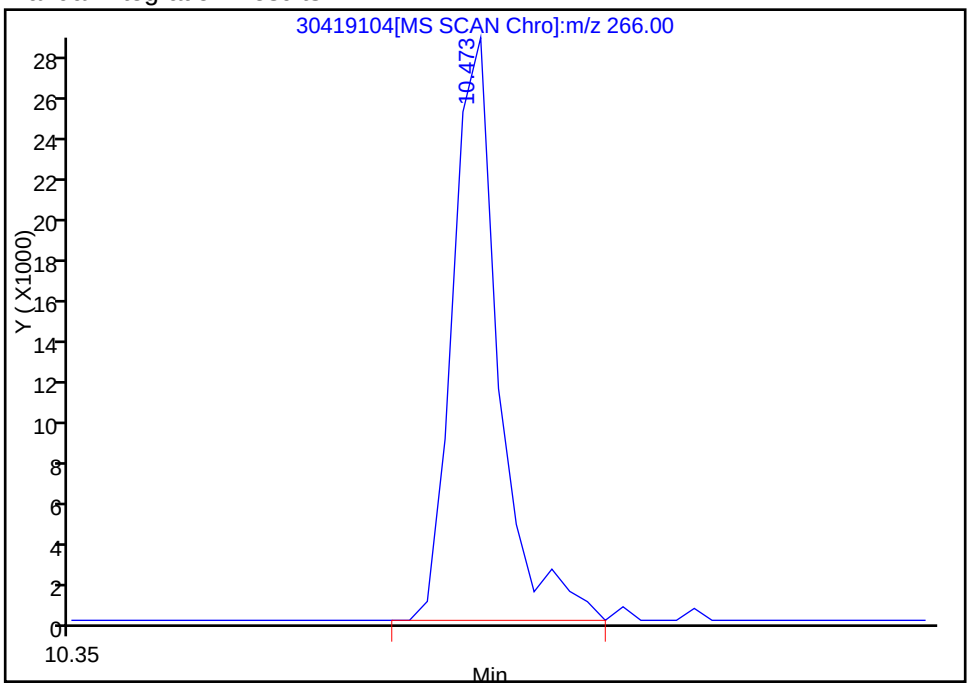
Processing Integration Results

RT: 10.47
Response: 26182
Amount: 1.752199



Manual Integration Results

RT: 10.47
Response: 27746
Amount: 2.144207



Reviewer: ulmanm, 19-Apr-2013 12:40:04
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

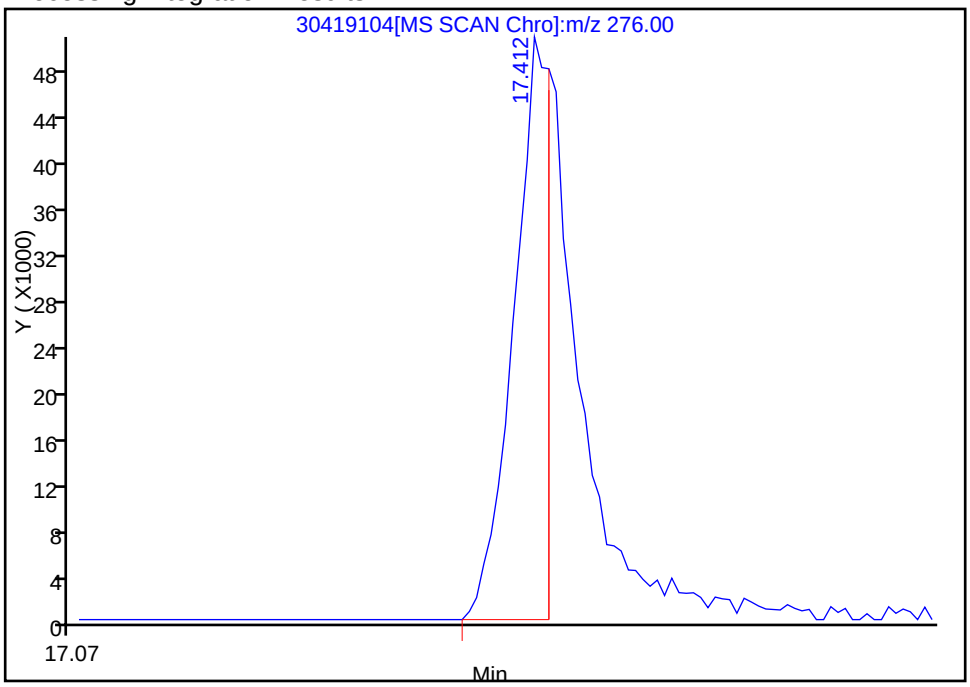
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419104.D		
Injection Date:	19-Apr-2013 11:34:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	4
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

188 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 17.43

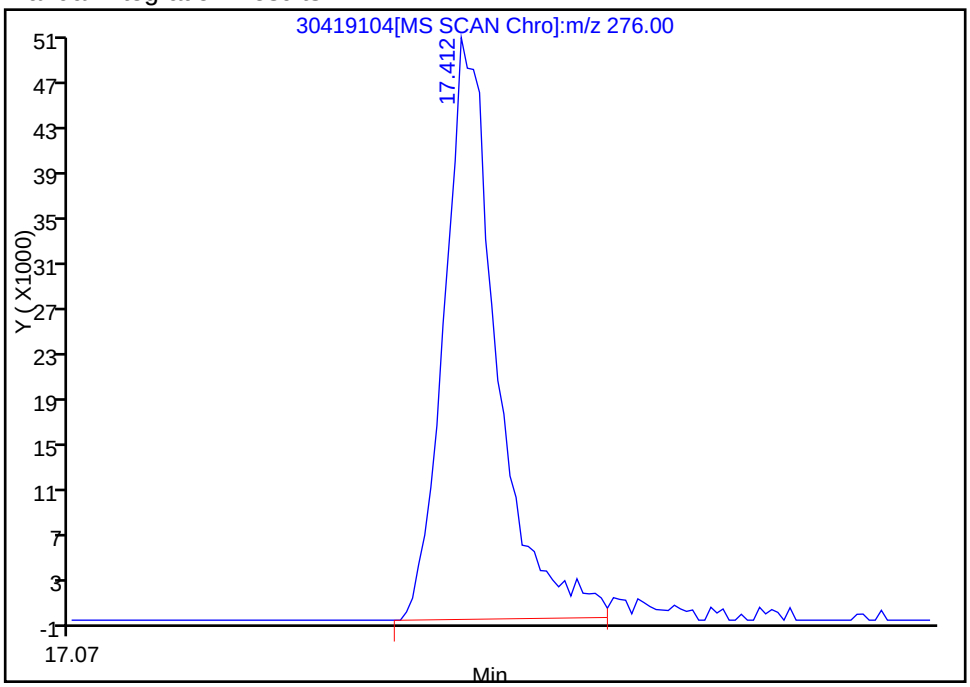
Processing Integration Results

RT: 17.41
Response: 92419
Amount: 0.654090



Manual Integration Results

RT: 17.41
Response: 162130
Amount: 0.978009



Reviewer: ulmanm, 19-Apr-2013 12:40:04
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

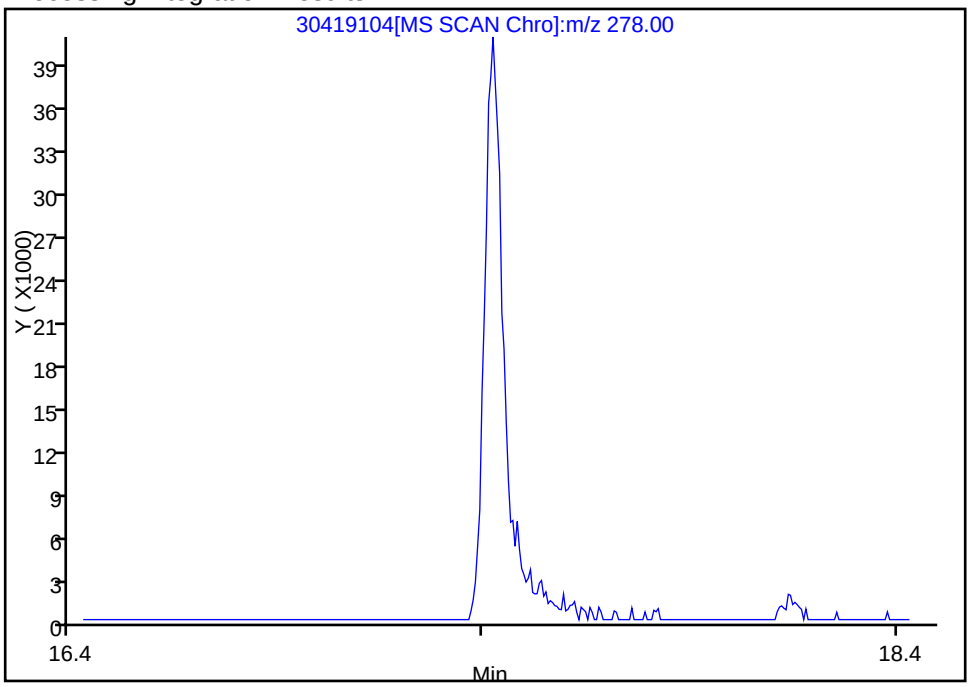
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419104.D		
Injection Date:	19-Apr-2013 11:34:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	4
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

189 Dibenz(a,h)anthracene, Signal: 1, m/z: 278.0 Type: quant, RT: 17.43

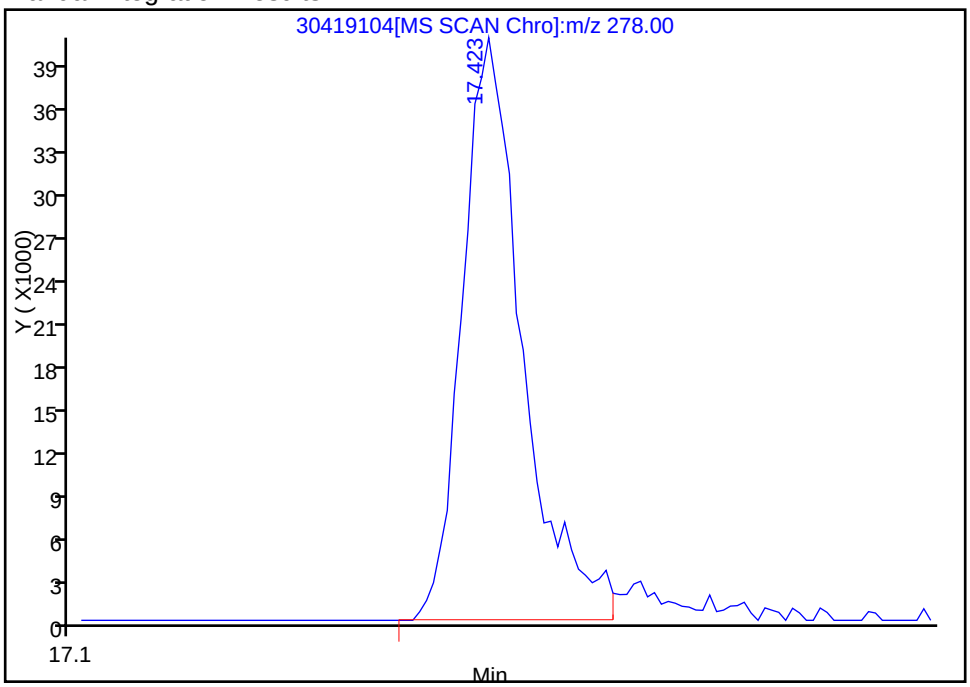
Processing Integration Results

Not Detected
Expected RT: 17.43



Manual Integration Results

RT: 17.42
Response: 130647
Amount: 0.968142



Reviewer: ulmanm, 19-Apr-2013 12:40:04
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

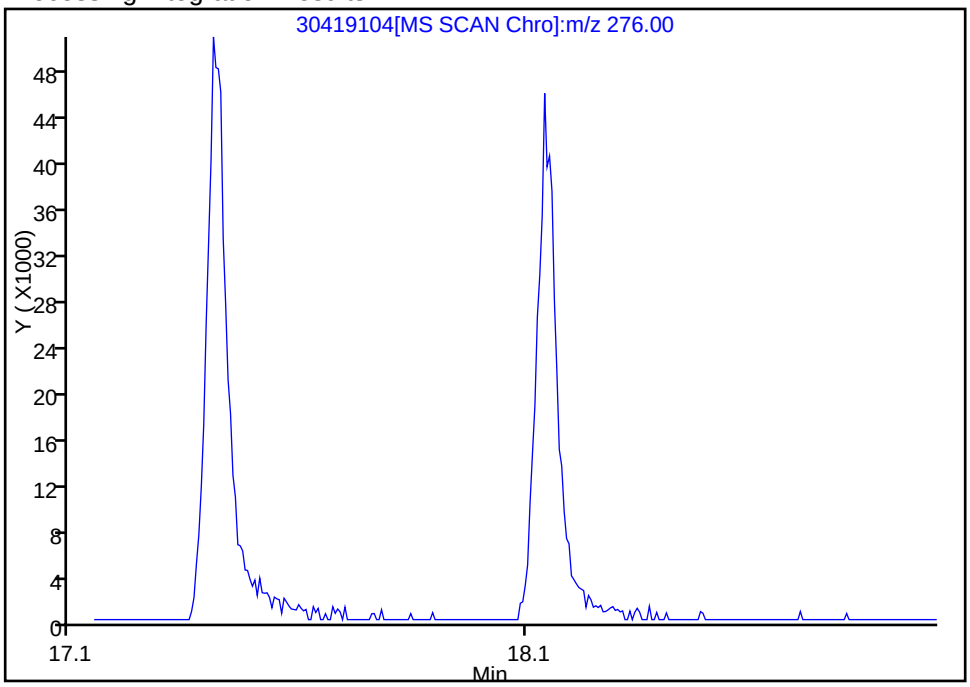
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419104.D		
Injection Date:	19-Apr-2013 11:34:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	4
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

190 Benzo[g,h,i]perylene, Signal: 1, m/z: 276.0 Type: quant, RT: 18.15

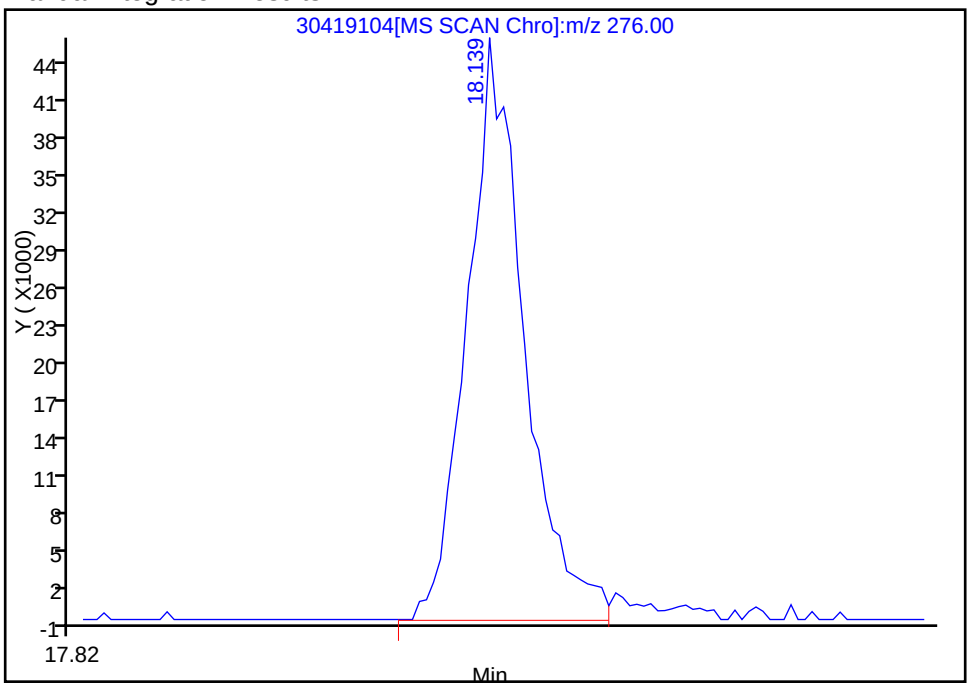
Processing Integration Results

Not Detected
Expected RT: 18.15



Manual Integration Results

RT: 18.14
Response: 137884
Amount: 1.007323



Reviewer: ulmanm, 19-Apr-2013 12:40:04
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419105.D		
Lims ID:	std2 lst1	Client ID:	
Inject. Date:	19-Apr-2013 12:01:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	240-0019052-005		
Misc. Info.:	STD2 LST1 =STD2 LST1		
Operator:	001574	Instrument ID:	A4HP9
Injection Vol:	1.0 ul	ALS Bottle#:	5
Lims Batch ID:	82668	Lims Sample ID:	5
Sublist:	chrom-8270 _9*sub23		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\8270 _9.m		
Last Update:	19-Apr-2013 15:20:15	Calib Date:	19-Apr-2013 14:12:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419110.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK006		
First Level Reviewer: ulmanm		Date:	19-Apr-2013 12:43:18

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.752	6.752	0.0	95	185109	4.00	
* 2 Naphthalene-d8	136	7.858	7.863	-0.005	98	752512	4.00	
* 3 Acenaphthene-d10	164	9.370	9.369	0.001	83	442967	4.00	
* 4 Phenanthrene-d10	188	10.646	10.646	0.0	98	758403	4.00	
* 5 Chrysene-d12	240	13.029	13.029	0.0	79	825879	4.00	
* 6 Perylene-d12	264	15.107	15.107	0.0	94	672230	4.00	
$ 7 2-Fluorophenol	112	5.550	5.550	0.0	83	36893	0.4905	
$ 8 Phenol-d5	99	6.373	6.373	0.0	95	54207	0.5365	
$ 9 Nitrobenzene-d5	82	7.222	7.222	0.0	80	52183	0.4703	
$ 10 2-Fluorobiphenyl (Surr)	172	8.755	8.755	0.0	94	61852	0.4691	
$ 11 2,4,6-Tribromophenol	330	10.037	10.043	-0.006	57	7916	0.5530	
$ 12 Terphenyl-d14	244	11.961	11.960	0.001	93	67466	0.4558	
247 Hexadecane	57		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
25 1,4-Dioxane	88	3.589	3.579	0.010	69	16262	0.4308	M
26 N-Nitrosodimethylamine	74	4.033	4.027	0.006	73	28424	0.4558	
27 Pyridine	79	4.097	4.086	0.011	90	52250	0.5020	M
41 Benzaldehyde	77	6.362	6.362	0.0	89	80773	1.00	
43 Phenol	94	6.383	6.383	0.0	89	53465	0.5142	
44 Aniline	93	6.448	6.447	0.001	92	61358	0.4570	
69 Bis(2-chloroethyl)ether	93	6.480	6.479	0.001	85	46466	0.4989	
46 2-Chlorophenol	128	6.565	6.570	-0.005	91	28533	0.4774	
47 1,3-Dichlorobenzene	146	6.709	6.709	0.0	83	30019	0.4791	
48 1,4-Dichlorobenzene	146	6.768	6.768	0.0	78	33284	0.5161	
49 Benzyl alcohol	108	6.838	6.837	0.001	80	21898	0.4697	
50 1,2-Dichlorobenzene	146	6.907	6.907	0.0	81	28647	0.4782	
51 2-Methylphenol	108	6.918	6.917	0.001	88	32205	0.4874	
53 2,2'-oxybis[1-chloropropane]	45	6.950	6.955	-0.005	92	43662	0.5008	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
52 Indene	115	6.982	6.982	0.0	77	119635	0.9755	
21 3 & 4 Methylphenol	108	7.041	7.046	-0.006	82	31901	0.4640	
57 N-Nitrosodi-n-propylamine	70	7.062	7.062	0.0	74	30984	0.4408	
58 Acetophenone	105	7.078	7.078	0.0	86	52535	0.4783	
61 Hexachloroethane	117	7.211	7.211	0.0	81	14967	0.4894	
62 Nitrobenzene	77	7.233	7.238	-0.005	78	48686	0.4845	
64 Isophorone	82	7.430	7.430	0.0	94	74230	0.4463	
65 2,4-Dimethylphenol	107	7.505	7.505	0.0	92	35206	0.4991	
66 2-Nitrophenol	139	7.511	7.516	-0.005	78	12740	0.4267	
71 Benzoic acid	122		7.542					9
70 Bis(2-chloroethoxy)methane	93	7.585	7.585	0.0	96	45755	0.4753	
73 2,4-Dichlorophenol	162	7.714	7.719	-0.005	88	22295	0.4828	
74 1,2,4-Trichlorobenzene	180	7.804	7.804	0.0	84	27180	0.5138	
75 Naphthalene	128	7.879	7.879	0.0	92	89948	0.4942	
76 4-Chloroaniline	127	7.890	7.890	0.0	54	44723	0.4674	
79 Hexachlorobutadiene	225	7.975	7.975	0.0	84	13396	0.4276	
84 Caprolactam	113	8.157	8.167	-0.010	72	20024	0.9772	
86 4-Chloro-3-methylphenol	107	8.275	8.274	0.001	79	30046	0.4777	
87 2-Methylnaphthalene	142	8.467	8.467	0.0	81	55693	0.4854	
88 1-Methylnaphthalene	142	8.552	8.557	-0.005	79	54590	0.5090	
89 Hexachlorocyclopentadiene	237	8.606	8.606	0.0	75	14643	0.4139	
91 1,2,4,5-Tetrachlorobenzene	216	8.611	8.611	0.0	88	25126	0.4937	
92 2,4,6-Trichlorophenol	196	8.691	8.691	0.0	78	12980	0.4025	
93 2,4,5-Trichlorophenol	196	8.723	8.728	-0.005	81	13293	0.4039	
98 1,1'-Biphenyl	154	8.846	8.851	-0.005	95	70815	0.4794	
100 2-Chloronaphthalene	162	8.889	8.889	0.0	96	53197	0.4834	
102 2-Nitroaniline	65	8.942	8.947	-0.005	44	19764	0.4075	
105 Dimethyl phthalate	163	9.065	9.065	0.0	94	57737	0.5006	
106 1,3-Dinitrobenzene	168	9.108	9.108	0.0	73	6631	0.3538	
107 2,6-Dinitrotoluene	165	9.129	9.129	0.0	70	11472	0.4315	
109 Acenaphthylene	152	9.252	9.252	0.0	88	78522	0.4612	
110 3-Nitroaniline	138	9.290	9.289	0.001	80	12094	0.4231	
111 2,4-Dinitrophenol	184		9.375					29
113 4-Nitrophenol	109	9.386	9.385	0.001	60	19338	0.8178	
112 Acenaphthene	153	9.396	9.396	0.0	90	54348	0.5060	
114 2,4-Dinitrotoluene	165	9.482	9.482	0.0	64	12733	0.3764	
116 Dibenzofuran	168	9.535	9.540	-0.005	83	75576	0.4879	
119 2,3,4,6-Tetrachlorophenol	232	9.631	9.631	0.0	68	10599	0.4140	
121 Diethyl phthalate	149	9.653	9.658	-0.005	92	56980	0.5306	
123 4-Chlorophenyl phenyl ether	204	9.797	9.802	-0.005	88	29683	0.4891	
125 4-Nitroaniline	138	9.808	9.813	-0.005	65	11465	1.07	
126 Fluorene	166	9.834	9.834	0.0	82	63504	0.5228	
128 4,6-Dinitro-2-methylphenol	198		9.840					
131 N-Nitrosodiphenylamine	169	9.888	9.893	-0.005	98	87670	0.9815	
132 1,2-Diphenylhydrazine	77	9.936	9.936	0.0	98	99034	0.4496	
133 Azobenzene	77	9.936	9.936	0.0	94	99034	0.4496	
139 4-Bromophenyl phenyl ether	248	10.224	10.224	0.0	64	15596	0.4632	
142 Atrazine	200	10.305	10.304	0.001	82	25004	1.21	
141 Hexachlorobenzene	284	10.321	10.326	-0.005	68	16590	0.4832	
143 Pentachlorophenol	266		10.470					
148 Phenanthrene	178	10.662	10.668	-0.006	65	87765	0.4690	
149 Anthracene	178	10.711	10.710	0.001	97	83921	0.4535	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
151 Carbazole	167	10.817	10.823	-0.006	82	69606	0.5901	
154 Di-n-butyl phthalate	149	11.036	11.036	0.0	97	60881	0.5788	
159 Fluoranthene	202	11.688	11.688	0.0	97	70505	0.3435	
160 Benzidine	184	11.747	11.747	0.0	94	63350	0.7849	M
161 Pyrene	202	11.891	11.896	-0.005	95	71362	0.3915	
168 Butyl benzyl phthalate	149	12.335	12.334	0.001	82	33830	0.4072	
173 Bis(2-ethylhexyl) phthalate	149	12.858	12.863	-0.005	90	39168	0.3520	
175 3,3'-Dichlorobenzidine	252	12.928	12.927	0.001	52	45331	0.7208	
177 Benzo[a]anthracene	228	13.013	13.018	-0.005	98	88558	0.4536	
178 Chrysene	228	13.056	13.061	-0.005	87	92004	0.4896	
180 Di-n-octyl phthalate	149	13.617	13.616	0.001	88	58531	0.5718	
182 Benzo[b]fluoranthene	252	14.450	14.450	0.0	87	69210	0.3984	
183 Benzo[k]fluoranthene	252	14.487	14.493	-0.006	80	88649	0.4499	
184 Benzo[a]pyrene	252	15.016	15.016	0.0	61	69316	0.4070	
188 Indeno[1,2,3-cd]pyrene	276	17.420	17.425	-0.005	92	74718	0.4324	M
189 Dibenz(a,h)anthracene	278	17.420	17.431	-0.011	0	55359	0.3936	M
190 Benzo[g,h,i]perylene	276	18.152	18.152	0.0	80	64944	0.4552	M
S 245 Total Cresols	100				0		0.9514	
S 191 Methyl Phenols,Total	100				0		0.9514	

QC Flag Legend

Processing Flags
2 - Failed Coelution Test
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

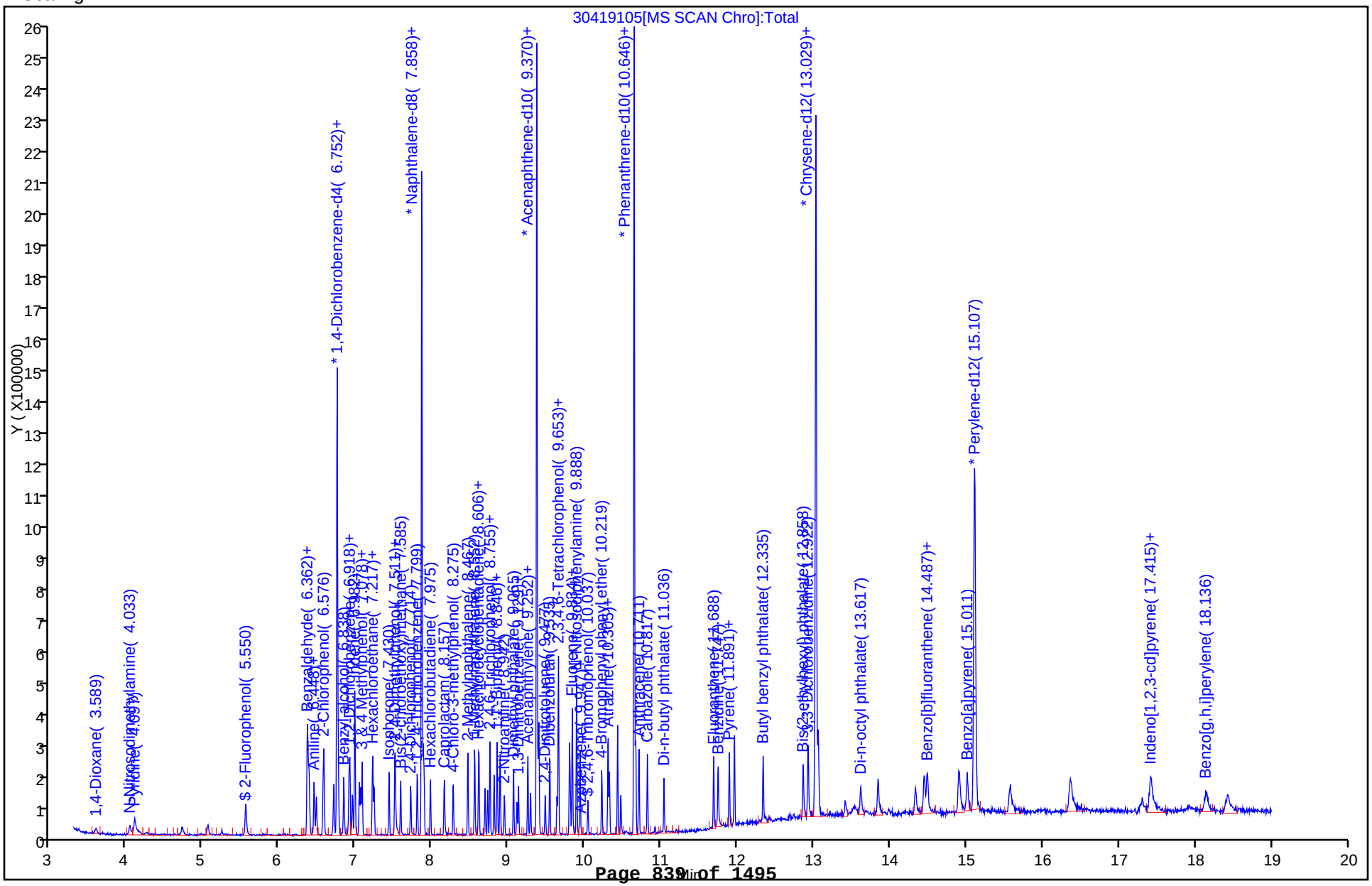
Report Date: 19-Apr-2013 15:20:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419105.D

Injection Date:	19-Apr-2013 12:01:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	5
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

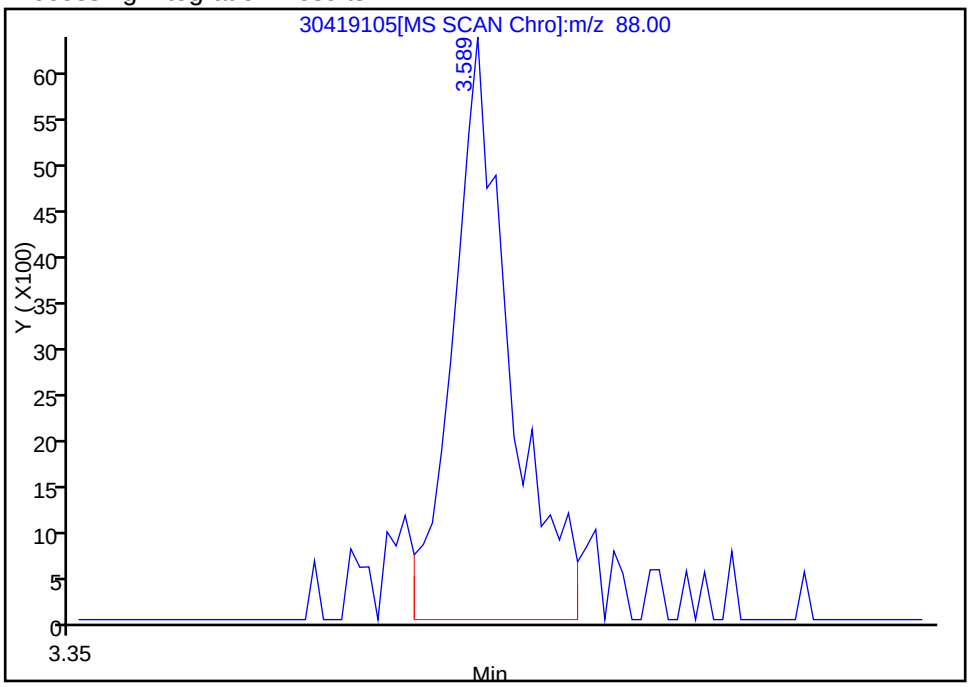
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419105.D		
Injection Date:	19-Apr-2013 12:01:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	5
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

25 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 3.58

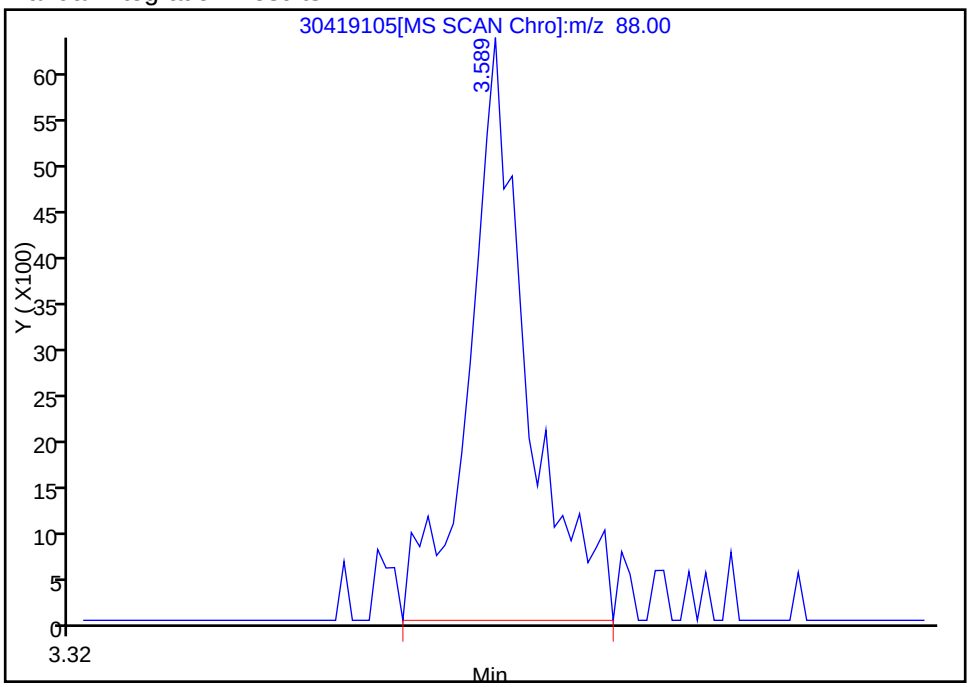
Processing Integration Results

RT: 3.59
Response: 14767
Amount: 0.404606



Manual Integration Results

RT: 3.59
Response: 16262
Amount: 0.430814



Reviewer: ulmanm, 19-Apr-2013 12:43:18
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

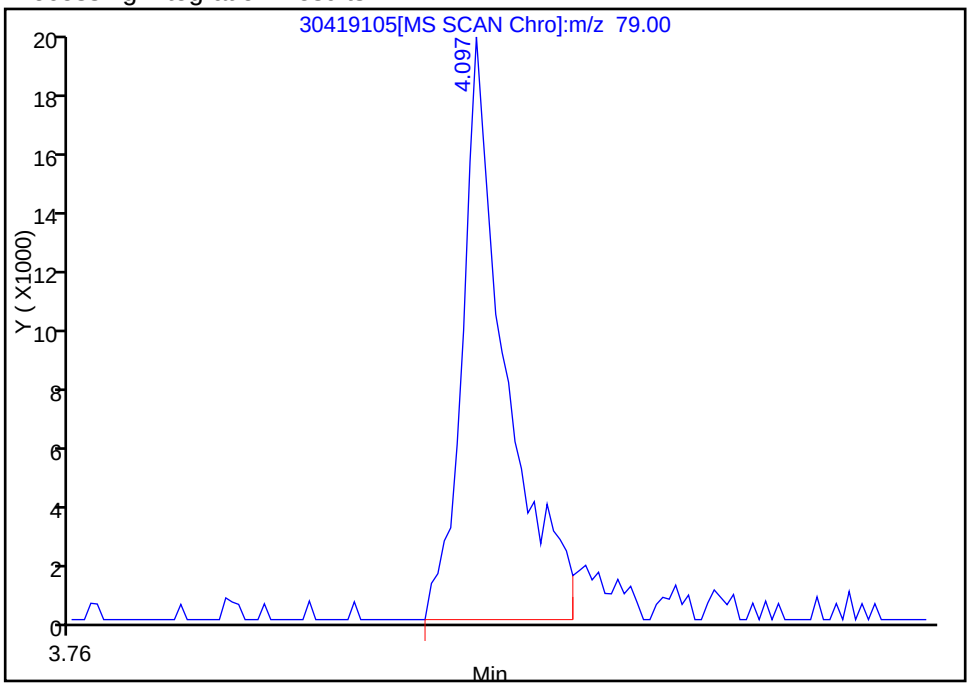
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419105.D		
Injection Date:	19-Apr-2013 12:01:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	5
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

27 Pyridine, Signal: 1, m/z: 79.0 Type: quant, RT: 4.09

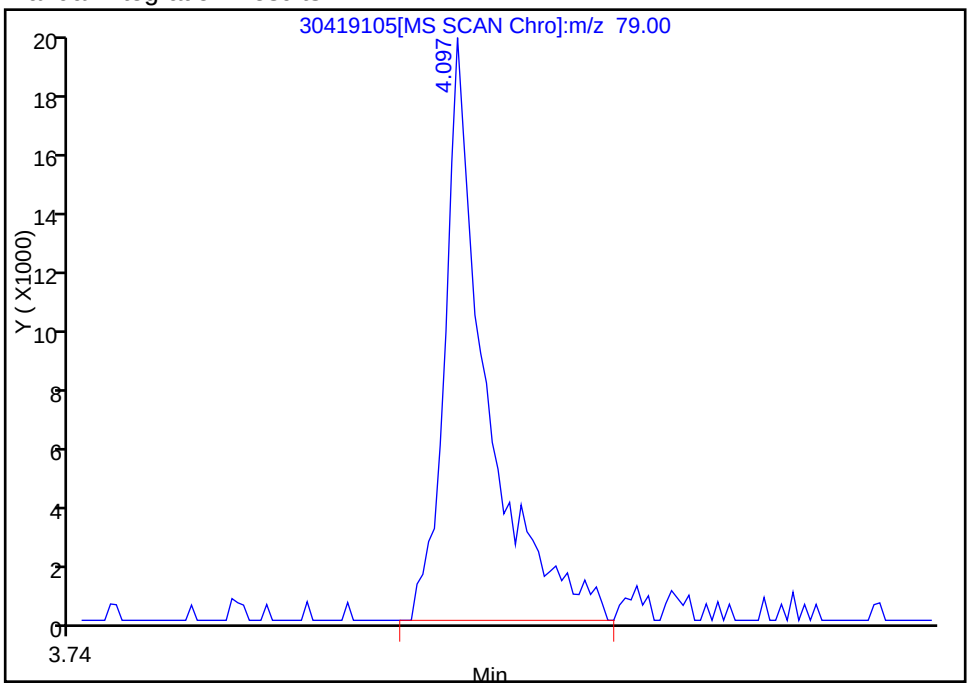
Processing Integration Results

RT: 4.10
Response: 48372
Amount: 0.472361



Manual Integration Results

RT: 4.10
Response: 52250
Amount: 0.502003



Reviewer: ulmanm, 19-Apr-2013 12:43:18
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

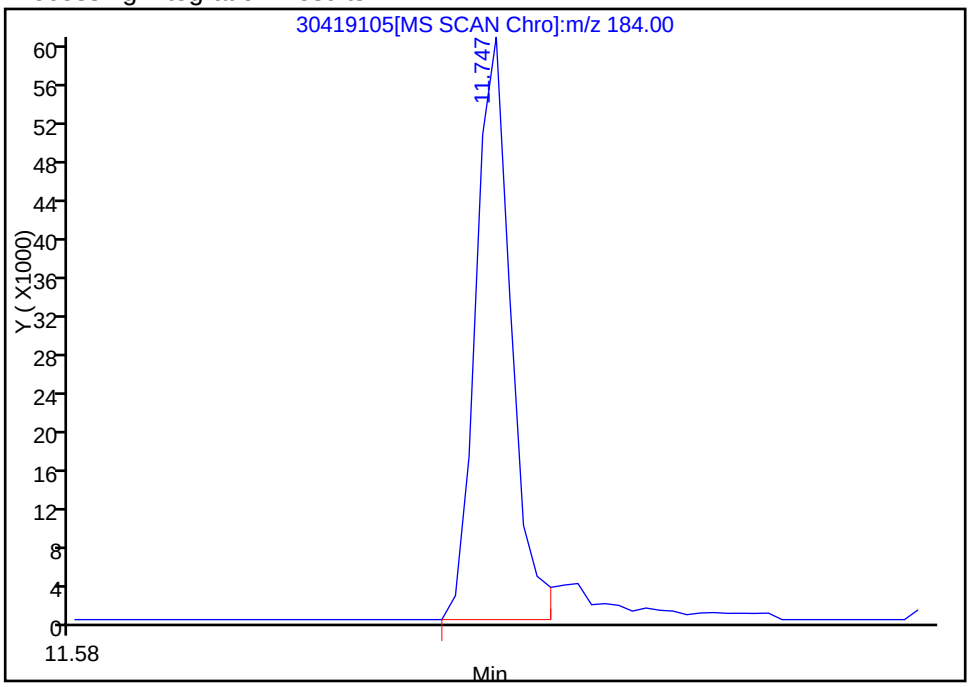
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419105.D		
Injection Date:	19-Apr-2013 12:01:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	5
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

160 Benzidine, Signal: 1, m/z: 184.0 Type: quant, RT: 11.75

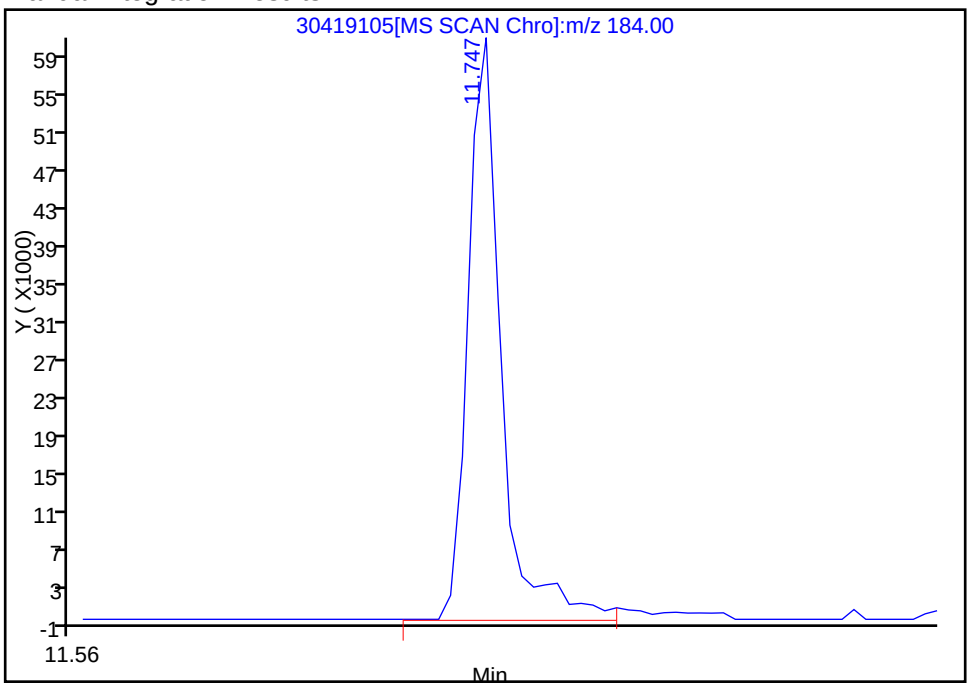
Processing Integration Results

RT: 11.75
Response: 58206
Amount: 0.773740



Manual Integration Results

RT: 11.75
Response: 63350
Amount: 0.784852



Reviewer: ulmanm, 19-Apr-2013 12:43:18
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

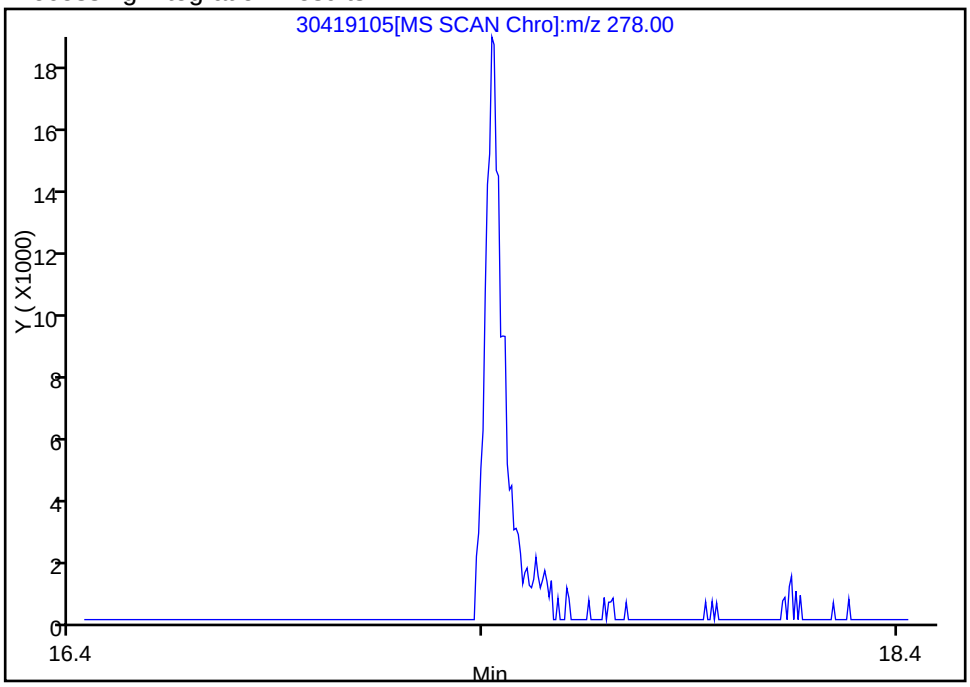
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419105.D		
Injection Date:	19-Apr-2013 12:01:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	5
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

189 Dibenz(a,h)anthracene, Signal: 1, m/z: 278.0 Type: quant, RT: 17.43

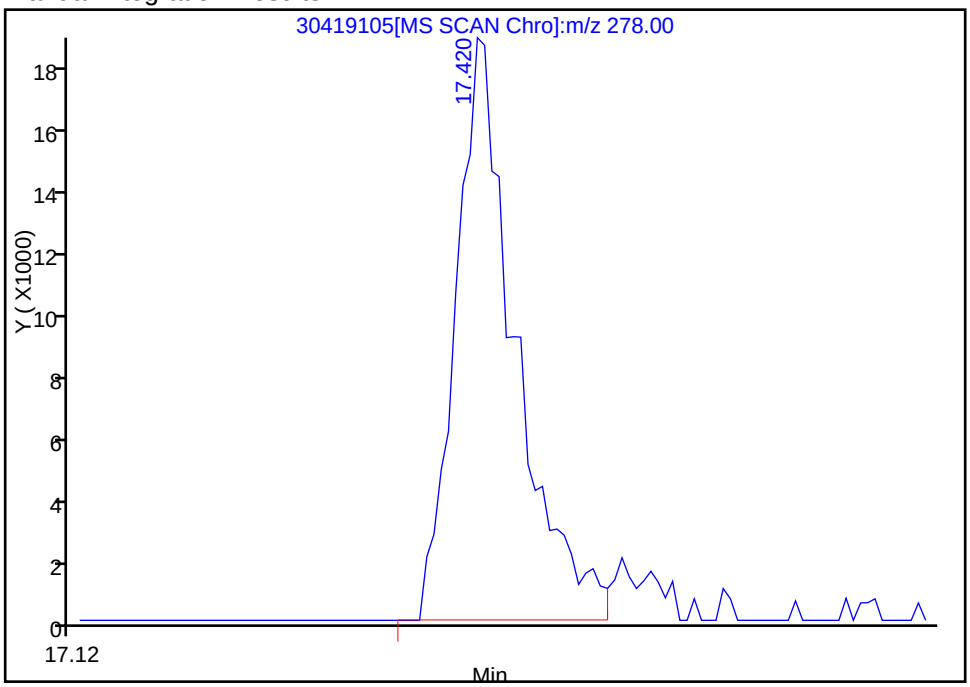
Processing Integration Results

Not Detected
Expected RT: 17.43



Manual Integration Results

RT: 17.42
Response: 55359
Amount: 0.393551



Reviewer: ulmanm, 19-Apr-2013 12:43:18
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

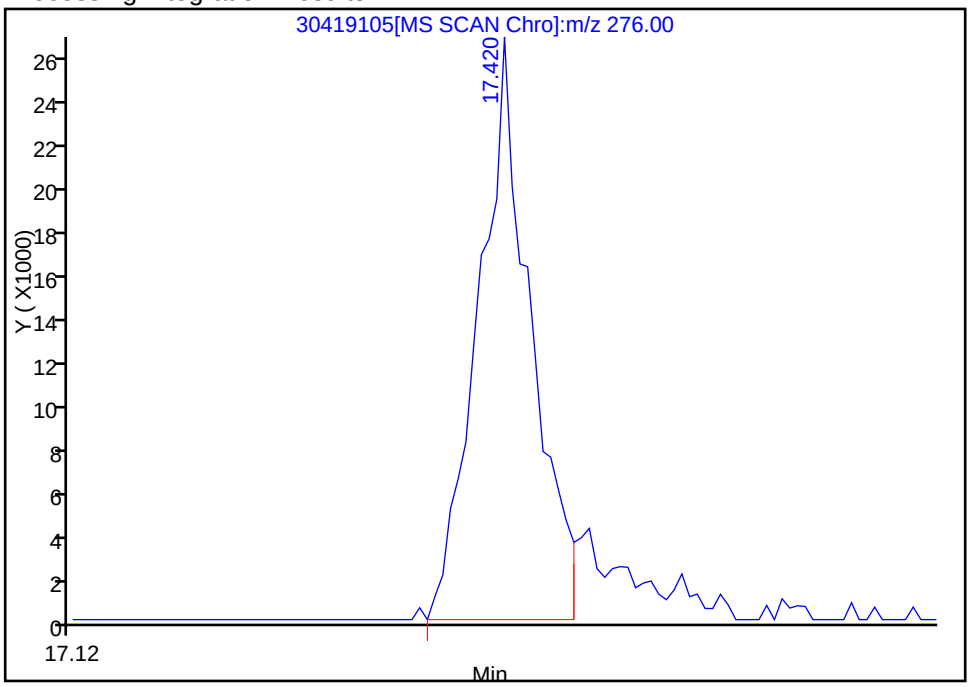
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419105.D		
Injection Date:	19-Apr-2013 12:01:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	5
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

188 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 17.43

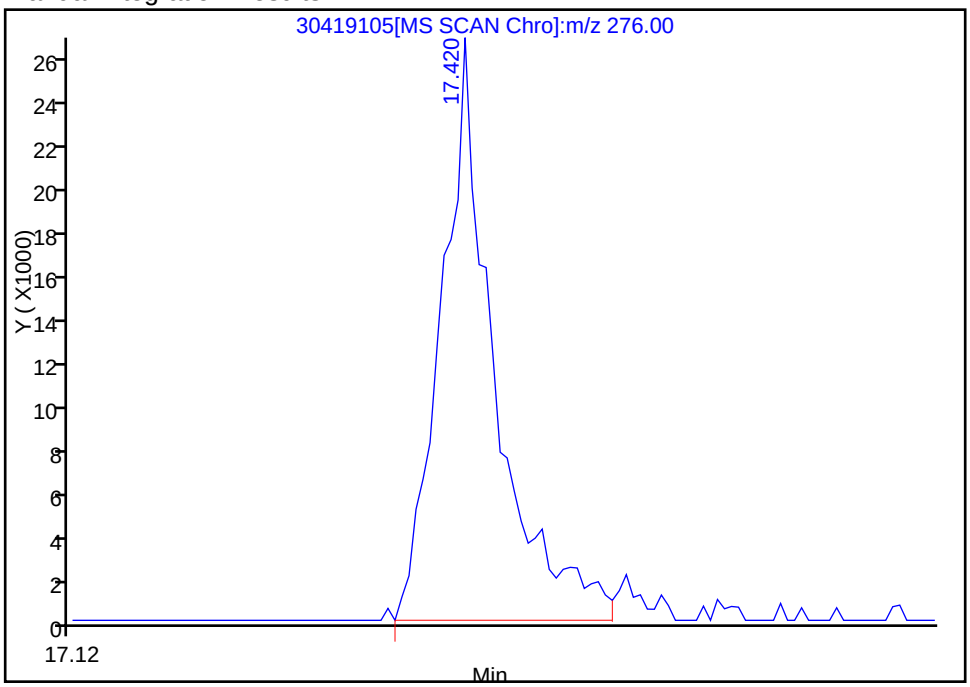
Processing Integration Results

RT: 17.42
Response: 66386
Amount: 0.401248



Manual Integration Results

RT: 17.42
Response: 74718
Amount: 0.432392



Reviewer: ulmanm, 19-Apr-2013 12:43:18
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

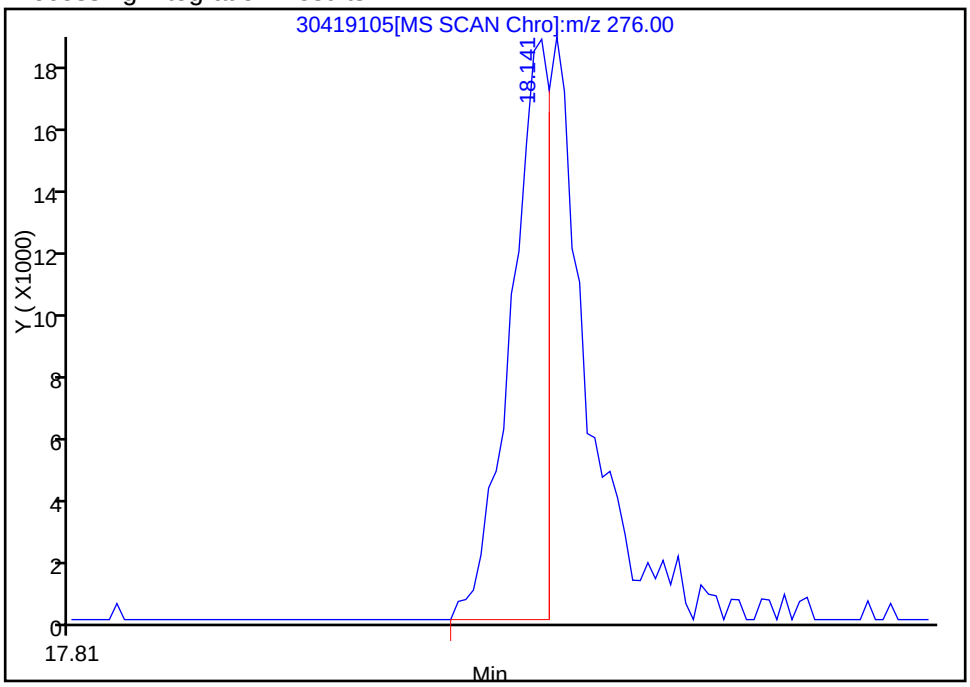
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419105.D		
Injection Date:	19-Apr-2013 12:01:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	5
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

190 Benzo[g,h,i]perylene, Signal: 1, m/z: 276.0 Type: quant, RT: 18.15

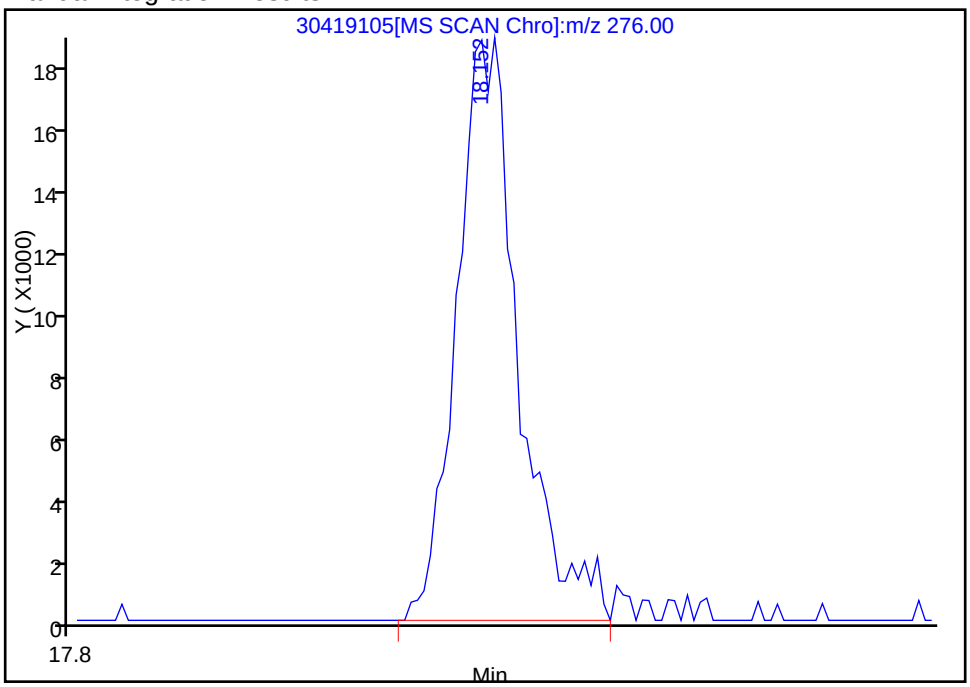
Processing Integration Results

RT: 18.14
Response: 34557
Amount: 0.270970



Manual Integration Results

RT: 18.15
Response: 64944
Amount: 0.455163



Reviewer: ulmanm, 19-Apr-2013 12:43:18
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419106.D		
Lims ID:	std1 lst1	Client ID:	
Inject. Date:	19-Apr-2013 12:27:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	240-0019052-006		
Misc. Info.:	STD1 LST1 =STD1 LST1		
Operator:	001574	Instrument ID:	A4HP9
Injection Vol:	1.0 ul	ALS Bottle#:	6
Lims Batch ID:	82668	Lims Sample ID:	6
Sublist:	chrom-8270 _9*sub23		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\8270 _9.m		
Last Update:	19-Apr-2013 15:20:16	Calib Date:	19-Apr-2013 14:12:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419110.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK006		
First Level Reviewer: ulmanm		Date:	19-Apr-2013 12:53:32

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.750	6.752	-0.002	95	194046	4.00	
* 2 Naphthalene-d8	136	7.861	7.863	-0.002	99	788960	4.00	
* 3 Acenaphthene-d10	164	9.368	9.369	-0.001	75	458661	4.00	
* 4 Phenanthrene-d10	188	10.644	10.646	-0.002	93	793054	4.00	
* 5 Chrysene-d12	240	13.027	13.029	-0.002	79	839620	4.00	
* 6 Perylene-d12	264	15.105	15.107	-0.002	93	670665	4.00	
$ 9 Nitrobenzene-d5	82	7.220	7.222	-0.002	76	13819	0.1188	
$ 10 2-Fluorobiphenyl (Surr)	172	8.753	8.755	-0.002	78	16404	0.1202	
$ 12 Terphenyl-d14	244	11.959	11.960	-0.001	64	18313	0.1217	
41 Benzaldehyde	77	6.360	6.362	-0.002	78	18469	0.2188	
75 Naphthalene	128	7.877	7.879	-0.002	65	19752	0.1035	
87 2-Methylnaphthalene	142	8.465	8.467	-0.002	58	12705	0.1056	
88 1-Methylnaphthalene	142	8.556	8.557	-0.001	61	12084	0.1075	
98 1,1'-Biphenyl	154	8.850	8.851	-0.001	85	16838	0.1101	
100 2-Chloronaphthalene	162	8.887	8.889	-0.002	82	12663	0.1111	
109 Acenaphthylene	152	9.250	9.252	-0.002	79	17982	0.1020	
112 Acenaphthene	153	9.394	9.396	-0.002	79	11775	0.1059	
116 Dibenzofuran	168	9.539	9.540	-0.001	68	17010	0.1060	
126 Fluorene	166	9.832	9.834	-0.002	72	13767	0.1095	
141 Hexachlorobenzene	284	10.319	10.326	-0.007	23	3668	0.1022	
148 Phenanthrene	178	10.666	10.668	-0.002	46	23428	0.1197	
149 Anthracene	178	10.709	10.710	-0.001	74	18840	0.0974	
159 Fluoranthene	202	11.692	11.688	0.004	77	19302	0.1148	
161 Pyrene	202	11.895	11.896	-0.001	89	19455	0.1050	
177 Benzo[a]anthracene	228	13.016	13.018	-0.002	53	21637	0.1090	
178 Chrysene	228	13.059	13.061	-0.002	51	19483	0.1020	
182 Benzo[b]fluoranthene	252	14.448	14.450	-0.002	69	16652	0.0961	
183 Benzo[k]fluoranthene	252	14.485	14.493	-0.008	69	18261	0.0929	
184 Benzo[a]pyrene	252	15.014	15.016	-0.002	35	16074	0.0946	M

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
188 Indeno[1,2,3-cd]pyrene	276	17.418	17.425	-0.007	0	13958	0.0810	M
189 Dibenz(a,h)anthracene	278	17.418	17.431	-0.013	0	11116	0.0792	M
190 Benzo[g,h,i]perylene	276	18.156	18.152	0.004	0	11824	0.0831	M

QC Flag Legend

Review Flags
M - Manually Integrated

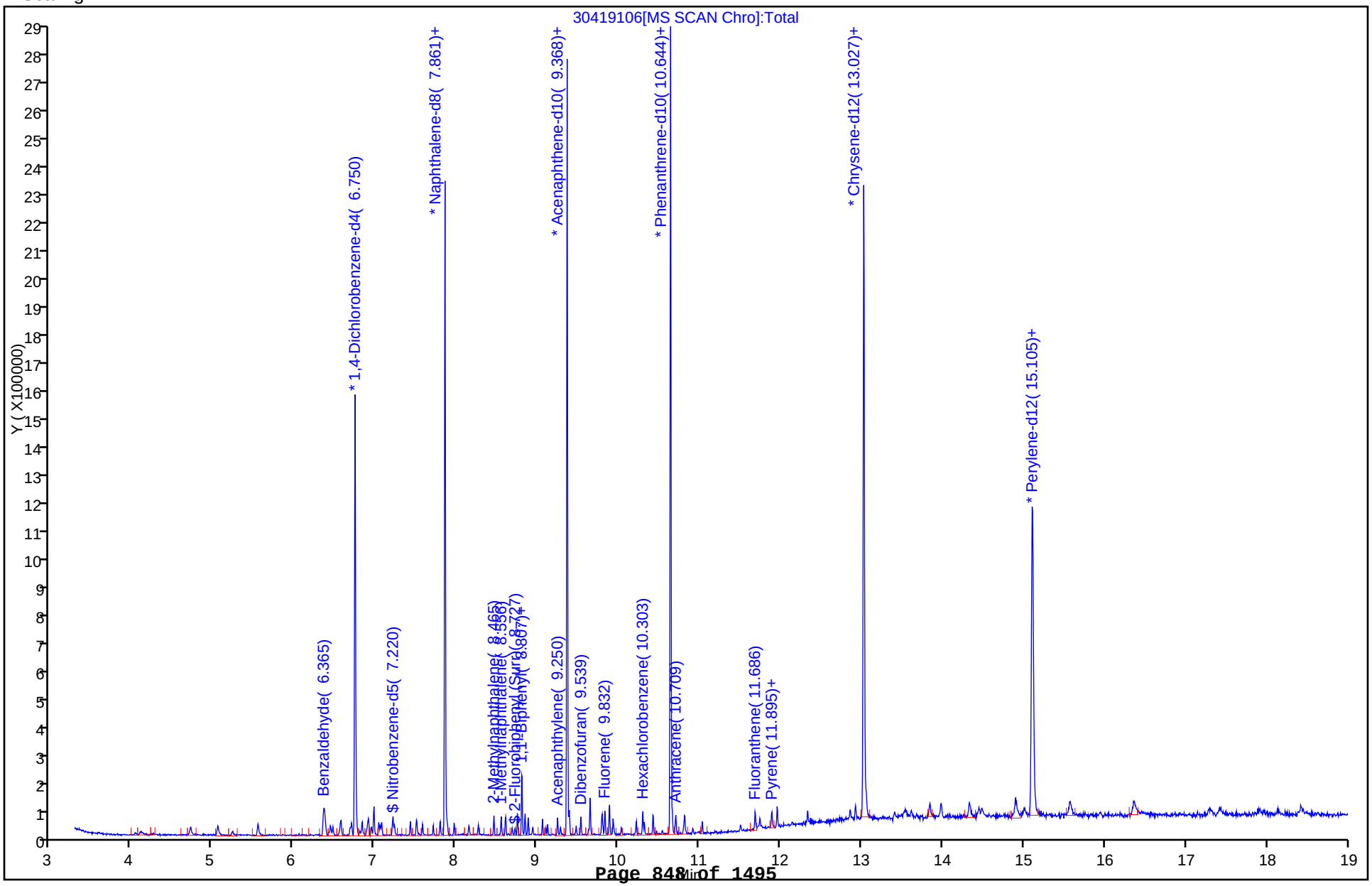
Report Date: 19-Apr-2013 15:20:16 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419106.D

Injection Date:	19-Apr-2013 12:27:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	6
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

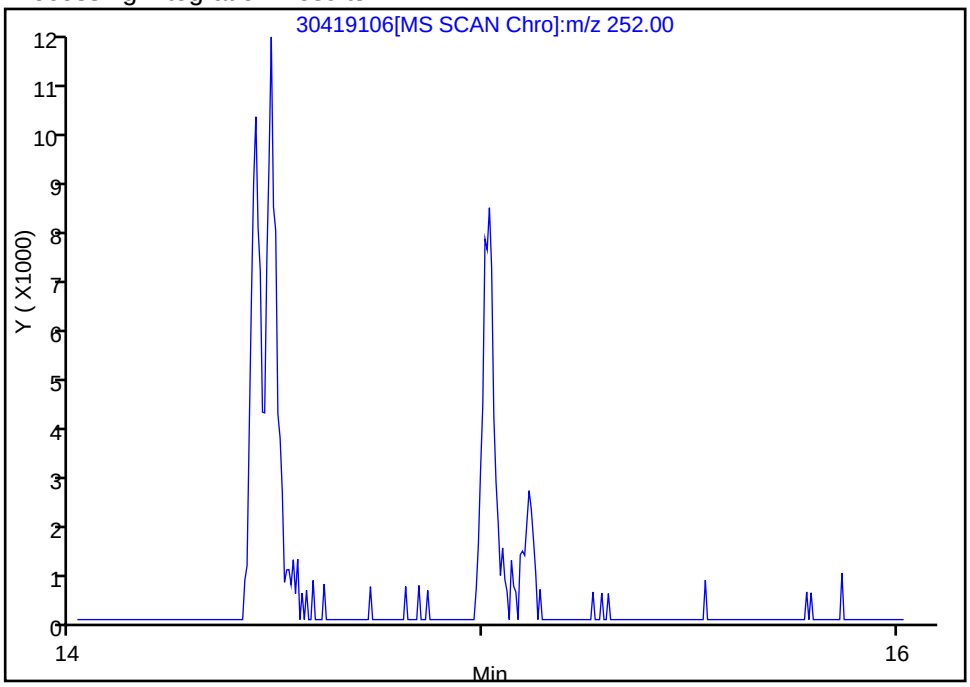
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419106.D		
Injection Date:	19-Apr-2013 12:27:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	6
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

184 Benzo[a]pyrene, Signal: 1, m/z: 252.0 Type: quant, RT: 15.02

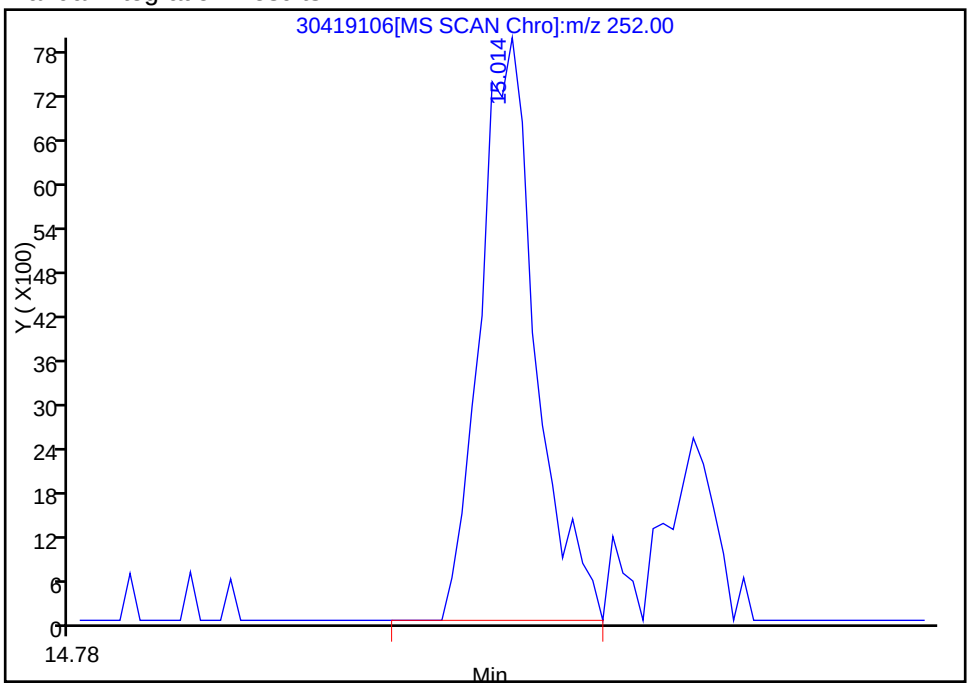
Processing Integration Results

Not Detected
Expected RT: 15.02



Manual Integration Results

RT: 15.01
Response: 16074
Amount: 0.094606



Reviewer: ulmanm, 19-Apr-2013 12:53:32
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

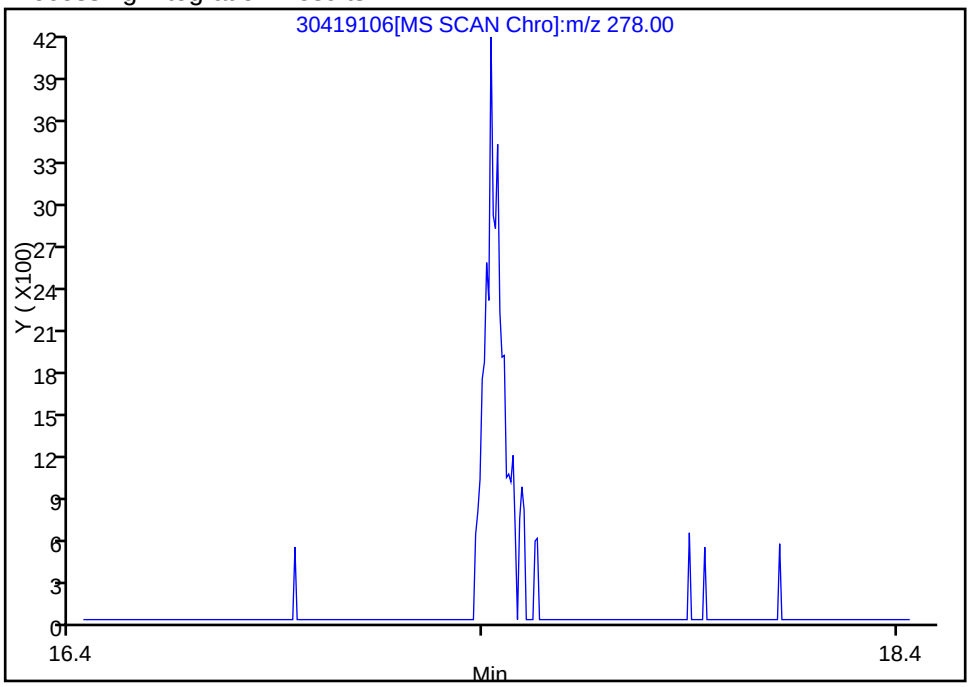
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419106.D		
Injection Date:	19-Apr-2013 12:27:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	6
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

189 Dibenz(a,h)anthracene, Signal: 1, m/z: 278.0 Type: quant, RT: 17.43

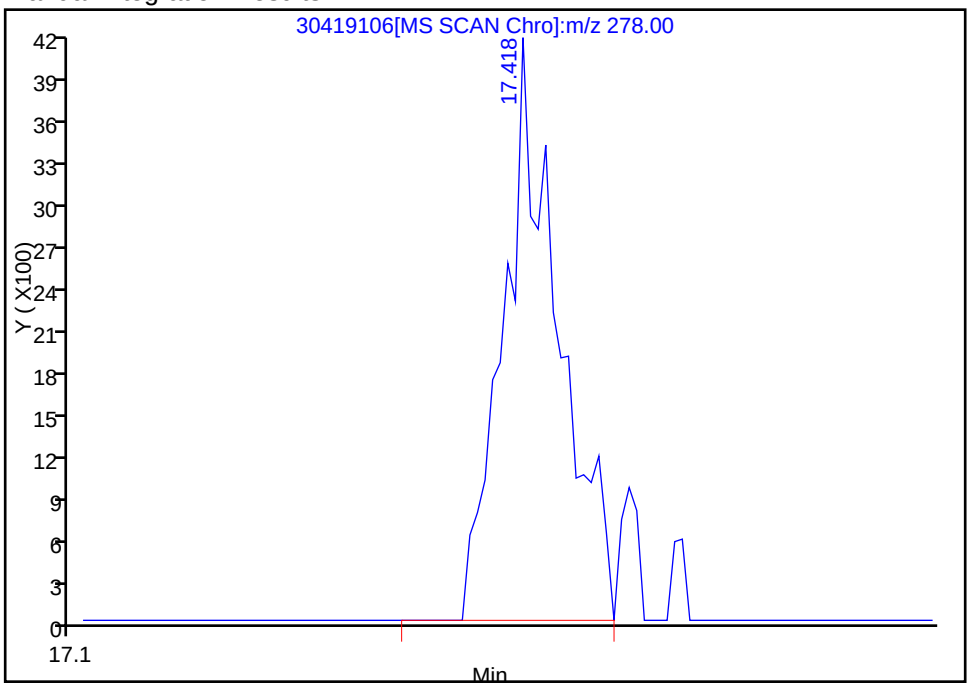
Processing Integration Results

Not Detected
Expected RT: 17.43



Manual Integration Results

RT: 17.42
Response: 11116
Amount: 0.079209



Reviewer: ulmanm, 19-Apr-2013 12:53:32
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

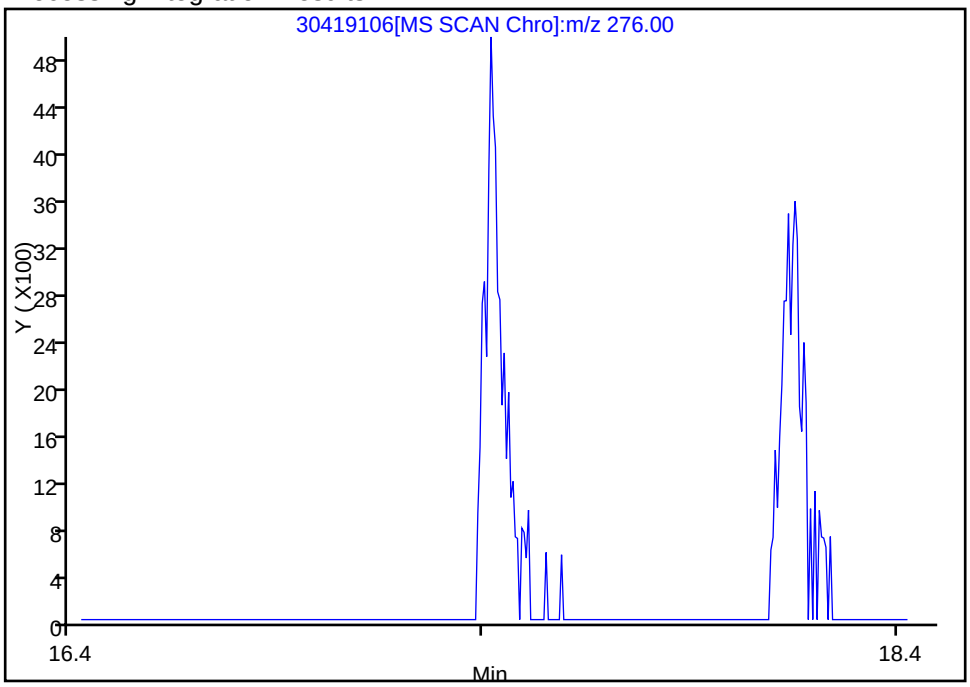
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419106.D		
Injection Date:	19-Apr-2013 12:27:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	6
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

188 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 17.43

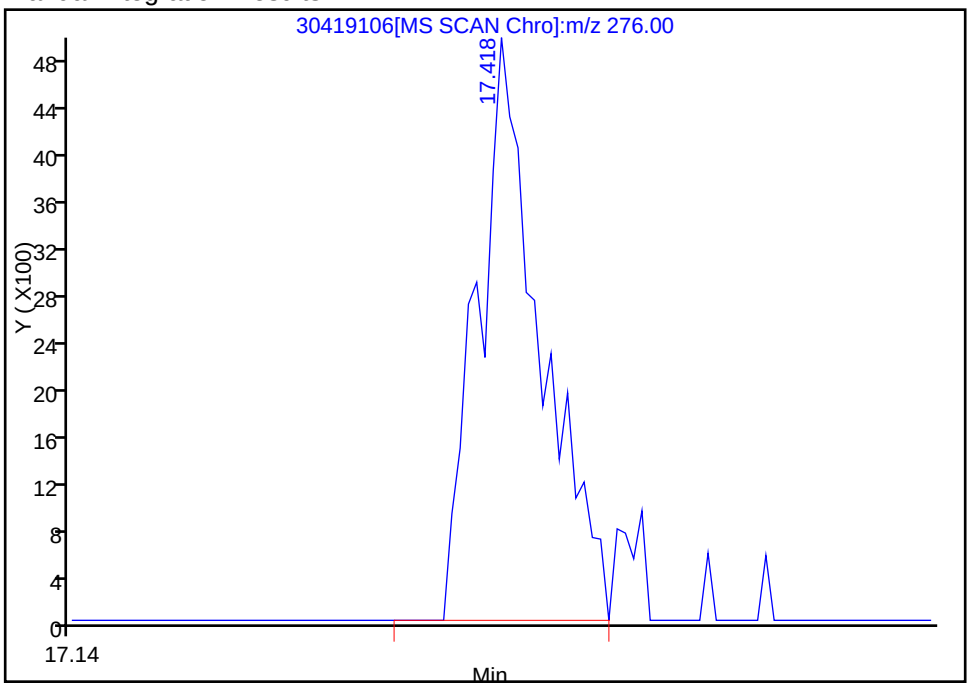
Processing Integration Results

Not Detected
Expected RT: 17.43



Manual Integration Results

RT: 17.42
Response: 13958
Amount: 0.080963



Reviewer: ulmanm, 19-Apr-2013 12:53:32
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

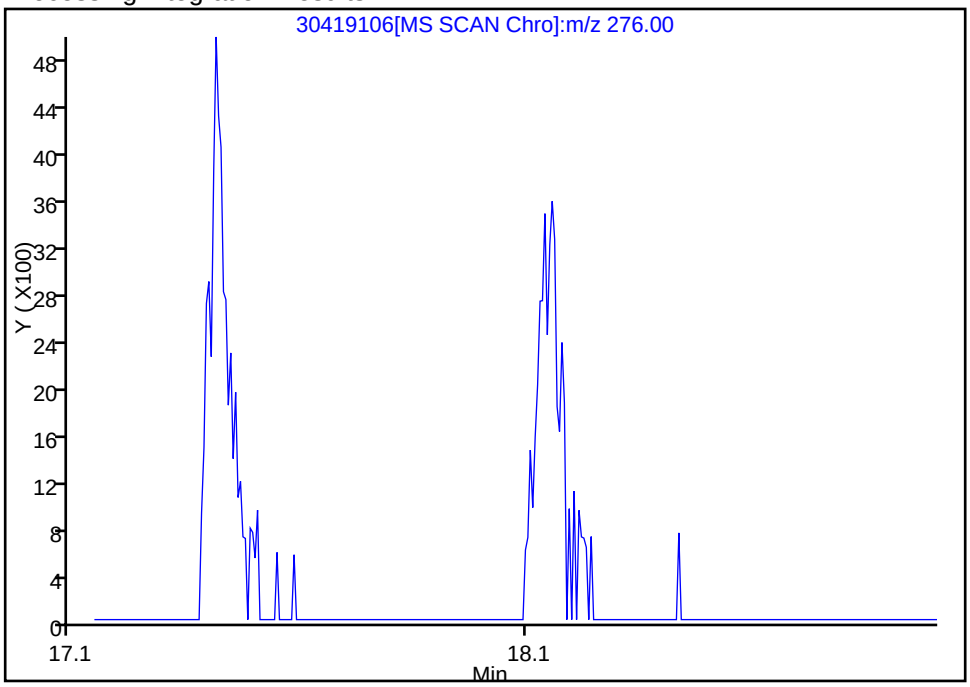
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419106.D		
Injection Date:	19-Apr-2013 12:27:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	6
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

190 Benzo[g,h,i]perylene, Signal: 1, m/z: 276.0 Type: quant, RT: 18.15

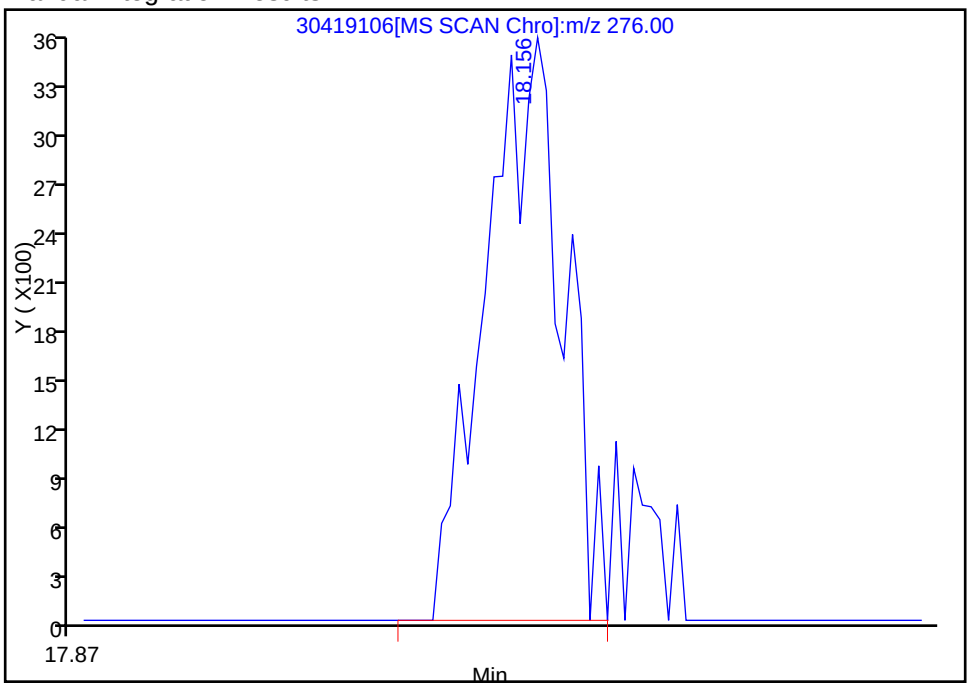
Not Detected
Expected RT: 18.15

Processing Integration Results



Manual Integration Results

RT: 18.16
Response: 11824
Amount: 0.083062



Reviewer: ulmanm, 19-Apr-2013 12:53:32
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419107.D
Lims ID: std9 lst1 Client ID:
Inject. Date: 19-Apr-2013 12:53:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 9
Sample ID: 240-0019052-007
Misc. Info.: STD9 LST1 =STD9 LST1
Operator: 001574 Instrument ID: A4HP9
Injection Vol: 1.0 ul ALS Bottle#: 7
Lims Batch ID: 82668 Lims Sample ID: 7
Sublist: chrom-8270 _9*sub23
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\8270 _9.m
Last Update: 19-Apr-2013 15:36:12 Calib Date: 19-Apr-2013 14:12:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419110.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: 5% phenyl Column Dia: 0.18 mm
Process Host: XAWRK006

First Level Reviewer: ulmanm Date: 19-Apr-2013 13:19:10

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.752	6.753	-0.001	93	188105	4.00	
* 2 Naphthalene-d8	136	7.864	7.859	0.005	99	770075	4.00	
* 3 Acenaphthene-d10	164	9.370	9.371	-0.001	81	438986	4.00	
* 4 Phenanthrene-d10	188	10.647	10.647	0.0	97	733147	4.00	
* 5 Chrysene-d12	240	13.035	13.030	0.005	80	897460	4.00	
* 6 Perylene-d12	264	15.113	15.108	0.005	97	706015	4.00	
$ 7 2-Fluorophenol	112	5.556	5.551	0.005	94	1918556	25.1	
$ 8 Phenol-d5	99	6.379	6.374	0.005	89	2466708	24.0	
$ 9 Nitrobenzene-d5	82	7.223	7.223	0.0	83	2885488	25.4	
$ 10 2-Fluorobiphenyl (Surr)	172	8.756	8.756	0.0	99	3284523	25.1	
$ 11 2,4,6-Tribromophenol	330	10.043	10.038	0.005	89	389531	27.5	
$ 12 Terphenyl-d14	244	11.961	11.962	-0.001	97	4024960	25.0	
244 n-Octadecane	57		0.000					
247 Hexadecane	57		0.000					
243 n-Decane	57		0.000					
25 1,4-Dioxane	88	3.585	3.585	0.0	94	988590	25.8	M
26 N-Nitrosodimethylamine	74	4.039	4.034	0.005	87	1654390	26.1	
27 Pyridine	79	4.092	4.093	-0.001	92	2659677	25.1	
41 Benzaldehyde	77	6.362	6.363	-0.001	84	3706882	45.3	
43 Phenol	94	6.389	6.390	-0.001	91	2610447	24.7	
44 Aniline	93	6.453	6.449	0.004	97	3534522	25.9	
69 Bis(2-chloroethyl)ether	93	6.480	6.481	-0.001	96	2329404	24.6	
46 2-Chlorophenol	128	6.571	6.566	0.005	89	1497152	24.7	
47 1,3-Dichlorobenzene	146	6.710	6.710	0.0	79	1586179	24.9	
48 1,4-Dichlorobenzene	146	6.768	6.769	-0.001	77	1620336	24.7	
49 Benzyl alcohol	108	6.843	6.838	0.005	83	1215382	25.7	
50 1,2-Dichlorobenzene	146	6.907	6.908	-0.001	77	1517434	24.9	
51 2-Methylphenol	108	6.923	6.919	0.004	94	1661637	24.7	
53 2,2'-oxybis[1-chloropropane]	45	6.955	6.951	0.004	96	2196377	24.8	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
52 Indene	115	6.988	6.983	0.005	70	6166202	49.5	
21 3 & 4 Methylphenol	108	7.052	7.047	0.005	94	1763098	25.2	
57 N-Nitrosodi-n-propylamine	70	7.068	7.063	0.005	69	1860091	26.0	
58 Acetophenone	105	7.084	7.079	0.005	80	2802627	25.1	
61 Hexachloroethane	117	7.212	7.212	0.0	89	768790	24.7	
62 Nitrobenzene	77	7.239	7.239	0.0	76	2691173	26.2	
64 Isophorone	82	7.436	7.431	0.005	95	4548857	26.7	
65 2,4-Dimethylphenol	107	7.511	7.506	0.005	93	1797738	24.9	
66 2-Nitrophenol	139	7.516	7.517	-0.001	86	795770	26.0	
71 Benzoic acid	122	7.591	7.560	0.031	82	1995184	50.0	M
70 Bis(2-chloroethoxy)methane	93	7.586	7.586	0.0	98	2470640	25.1	
73 2,4-Dichlorophenol	162	7.719	7.715	0.004	93	1213176	25.7	
74 1,2,4-Trichlorobenzene	180	7.805	7.800	0.005	86	1348150	24.9	
75 Naphthalene	128	7.880	7.880	0.0	99	4658064	25.0	
76 4-Chloroaniline	127	7.896	7.891	0.005	78	2474616	25.3	
79 Hexachlorobutadiene	225	7.976	7.976	0.0	91	817410	25.5	
84 Caprolactam	113	8.195	8.174	0.021	79	1083786	51.7	
86 4-Chloro-3-methylphenol	107	8.280	8.276	0.004	79	1671310	26.0	
87 2-Methylnaphthalene	142	8.467	8.468	-0.001	83	2915876	24.8	
88 1-Methylnaphthalene	142	8.558	8.553	0.005	78	2739417	25.0	
89 Hexachlorocyclopentadiene	237	8.606	8.607	-0.001	96	967015	27.6	
91 1,2,4,5-Tetrachlorobenzene	216	8.617	8.612	0.005	94	1279687	25.4	
92 2,4,6-Trichlorophenol	196	8.692	8.692	0.0	87	876426	27.4	
93 2,4,5-Trichlorophenol	196	8.729	8.730	-0.001	87	894995	27.4	
98 1,1'-Biphenyl	154	8.852	8.852	0.0	95	3751997	25.6	
100 2-Chloronaphthalene	162	8.889	8.890	-0.001	98	2787567	25.6	
102 2-Nitroaniline	65	8.948	8.943	0.005	70	1286061	26.8	
105 Dimethyl phthalate	163	9.071	9.066	0.005	94	2759410	24.1	
106 1,3-Dinitrobenzene	168	9.114	9.109	0.005	80	519250	28.0	
107 2,6-Dinitrotoluene	165	9.135	9.130	0.005	62	660203	25.1	
109 Acenaphthylene	152	9.253	9.253	0.0	86	4496065	26.6	
110 3-Nitroaniline	138	9.295	9.291	0.004	82	784911	27.7	
111 2,4-Dinitrophenol	184	9.381	9.376	0.005	73	1013327	49.2	
113 4-Nitrophenol	109	9.397	9.392	0.005	84	1340191	57.2	
112 Acenaphthene	153	9.402	9.397	0.005	94	2567810	24.1	
114 2,4-Dinitrotoluene	165	9.488	9.483	0.005	77	960227	28.6	
116 Dibenzofuran	168	9.541	9.542	-0.001	84	3855502	25.1	
119 2,3,4,6-Tetrachlorophenol	232	9.637	9.632	0.005	74	694735	27.4	
121 Diethyl phthalate	149	9.659	9.659	0.0	92	2790662	26.2	
123 4-Chlorophenyl phenyl ether	204	9.803	9.798	0.005	95	1424113	23.7	
125 4-Nitroaniline	138	9.819	9.814	0.005	71	856483	24.9	
126 Fluorene	166	9.835	9.835	0.0	87	2728562	22.7	
128 4,6-Dinitro-2-methylphenol	198	9.846	9.841	0.005	75	1320383	49.1	
131 N-Nitrosodiphenylamine	169	9.899	9.894	0.005	99	3999799	46.3	
132 1,2-Diphenylhydrazine	77	9.936	9.937	-0.001	99	4907228	23.0	
133 Azobenzene	77	9.936	9.937	-0.001	94	4907597	23.0	
139 4-Bromophenyl phenyl ether	248	10.225	10.220	0.005	69	711337	21.9	
142 Atrazine	200	10.310	10.306	0.004	81	1610541	50.2	
141 Hexachlorobenzene	284	10.326	10.322	0.004	86	722944	21.8	
143 Pentachlorophenol	266	10.476	10.471	0.005	80	1137172	49.1	
148 Phenanthrene	178	10.668	10.669	-0.001	87	4590420	25.4	
149 Anthracene	178	10.711	10.712	-0.001	87	4754357	26.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
151 Carbazole	167	10.823	10.818	0.005	83	4382626	24.3	
154 Di-n-butyl phthalate	149	11.037	11.037	0.0	100	5448935	24.1	
159 Fluoranthene	202	11.694	11.689	0.005	98	5339471	24.3	
160 Benzidine	184	11.753	11.748	0.005	98	4307655	49.1	
161 Pyrene	202	11.897	11.892	0.005	95	5519777	27.9	
168 Butyl benzyl phthalate	149	12.335	12.336	-0.001	89	2517161	27.9	
173 Bis(2-ethylhexyl) phthalate	149	12.864	12.859	0.005	95	3437753	28.4	
175 3,3'-Dichlorobenzidine	252	12.933	12.929	0.004	71	3843001	56.2	
177 Benzo[a]anthracene	228	13.019	13.019	0.0	89	5642433	26.6	
178 Chrysene	228	13.067	13.062	0.005	95	5421401	26.5	
180 Di-n-octyl phthalate	149	13.617	13.618	-0.001	99	6233895	25.7	
182 Benzo[b]fluoranthene	252	14.456	14.451	0.005	86	5105522	28.0	
183 Benzo[k]fluoranthene	252	14.499	14.494	0.005	90	5605660	27.1	
184 Benzo[a]pyrene	252	15.022	15.017	0.005	77	4954138	27.7	
188 Indeno[1,2,3-cd]pyrene	276	17.453	17.432	0.021	90	4949381	27.3	
189 Dibenz(a,h)anthracene	278	17.453	17.437	0.016	67	4214255	28.5	
190 Benzo[g,h,i]perylene	276	18.169	18.153	0.016	93	3986748	26.6	
S 245 Total Cresols	100				0		50.0	
S 191 Methyl Phenols,Total	100				0		50.0	

QC Flag Legend

Review Flags
M - Manually Integrated

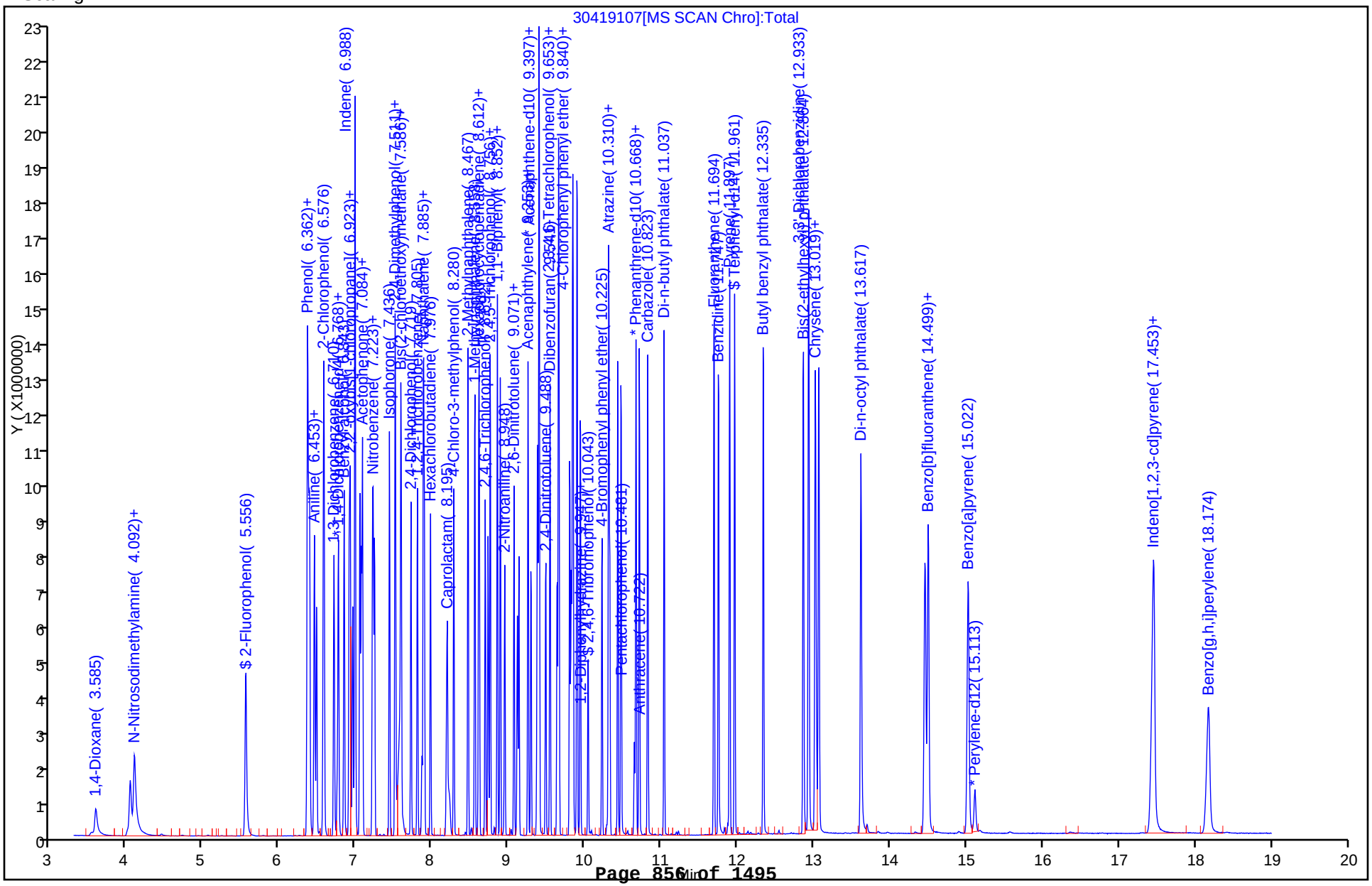
Report Date: 19-Apr-2013 15:36:12 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419107.D

Injection Date:	19-Apr-2013 12:53:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	7
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

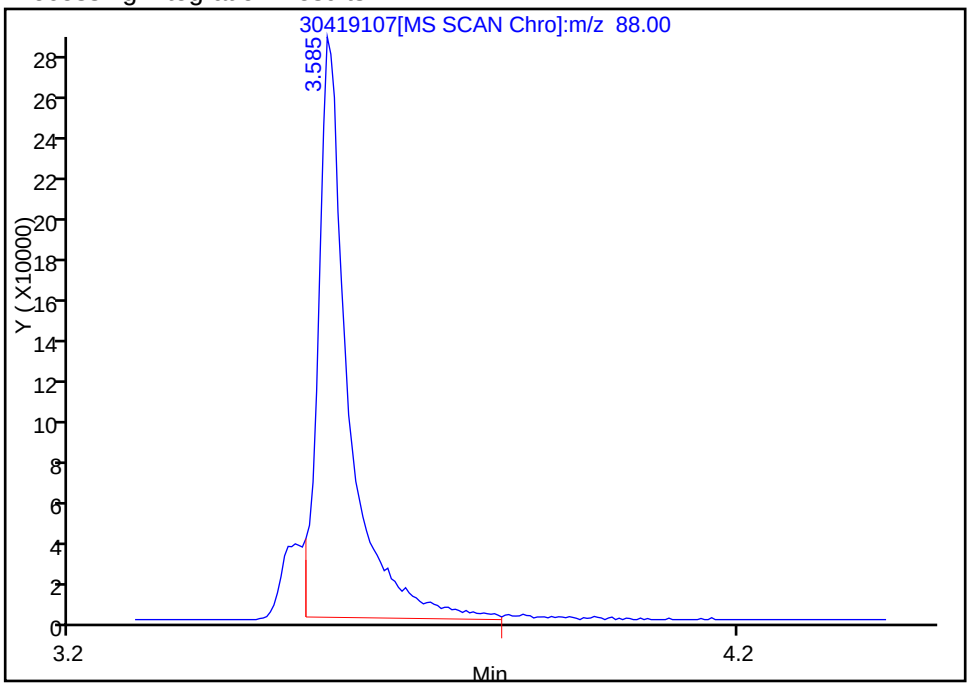
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419107.D		
Injection Date:	19-Apr-2013 12:53:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	7
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

25 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 3.59

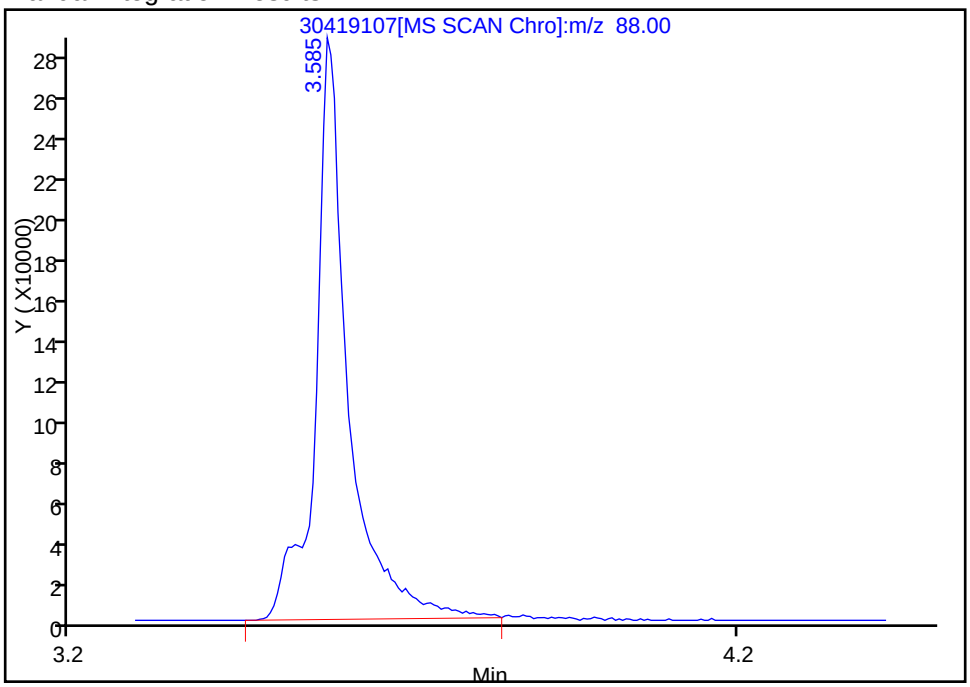
Processing Integration Results

RT: 3.58
Response: 907635
Amount: 24.178402



Manual Integration Results

RT: 3.58
Response: 988590
Amount: 25.772639



Reviewer: ulmanm, 19-Apr-2013 13:19:10
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

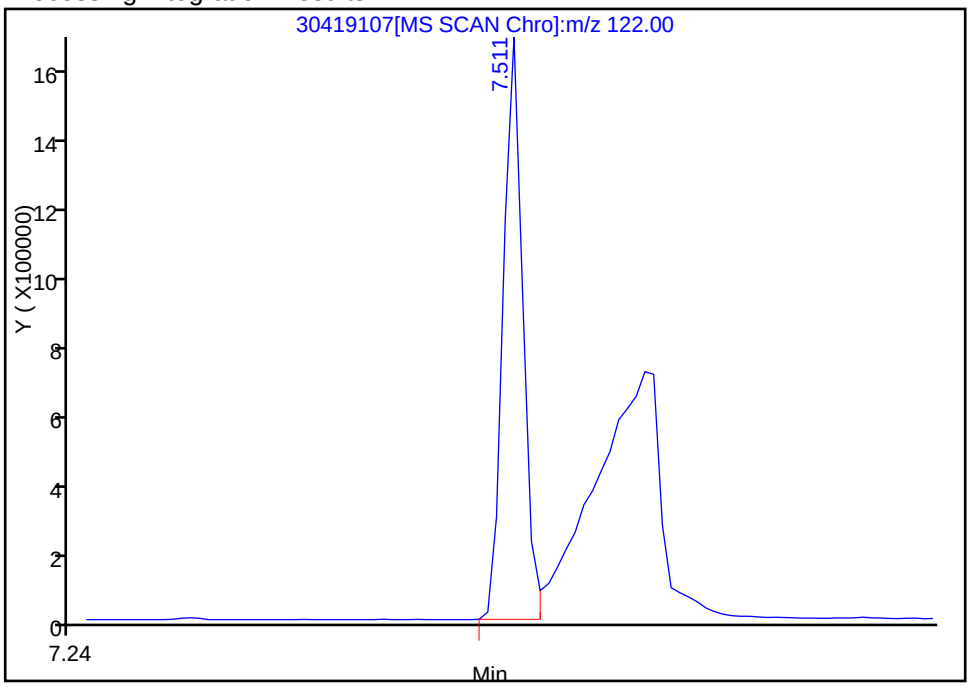
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419107.D		
Injection Date:	19-Apr-2013 12:53:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	7
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

71 Benzoic acid, Signal: 1, m/z: 122.0 Type: quant, RT: 7.56

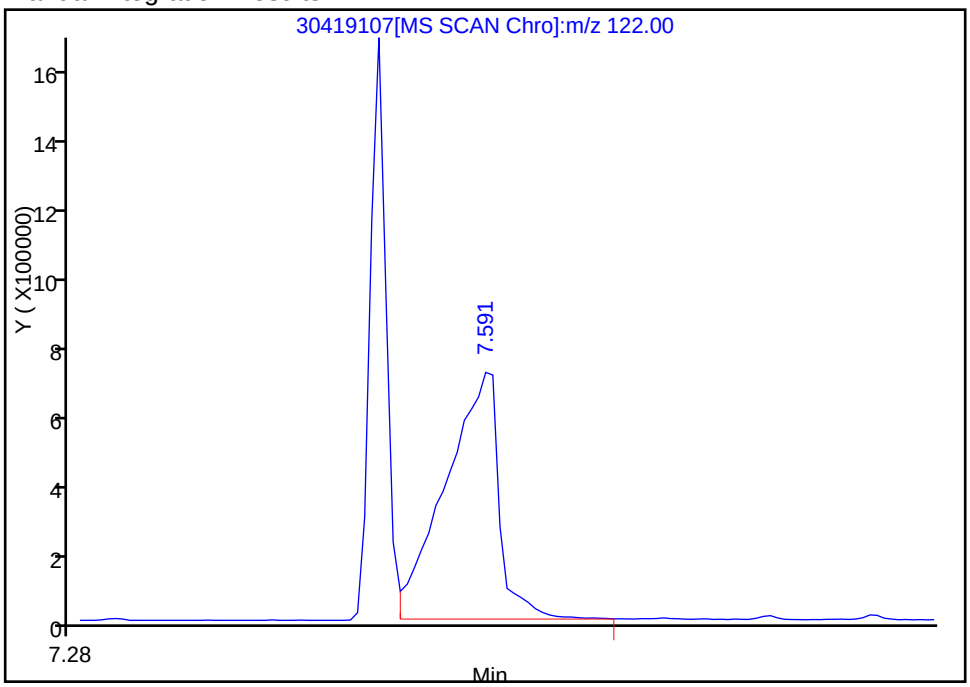
Processing Integration Results

RT: 7.51
Response: 1401791
Amount: 55.081821



Manual Integration Results

RT: 7.59
Response: 1995184
Amount: 49.991858



Reviewer: ulmanm, 19-Apr-2013 13:19:10
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419108.D		
Lims ID:	std8 lst1	Client ID:	
Inject. Date:	19-Apr-2013 13:19:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	8
Sample ID:	240-0019052-008		
Misc. Info.:	STD8 LST1 =STD8 LST1		
Operator:	001574	Instrument ID:	A4HP9
Injection Vol:	1.0 ul	ALS Bottle#:	8
Lims Batch ID:	82668	Lims Sample ID:	8
Sublist:	chrom-8270 _9*sub23		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\8270 _9.m		
Last Update:	19-Apr-2013 15:20:19	Calib Date:	19-Apr-2013 14:12:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419110.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK006		
First Level Reviewer: ulmanm		Date:	19-Apr-2013 13:43:41

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.751	6.752	-0.001	89	184412	4.00	
* 2 Naphthalene-d8	136	7.862	7.863	-0.001	99	778701	4.00	
* 3 Acenaphthene-d10	164	9.369	9.369	-0.001	78	439764	4.00	
* 4 Phenanthrene-d10	188	10.645	10.646	-0.001	97	728960	4.00	
* 5 Chrysene-d12	240	13.033	13.029	0.004	80	906443	4.00	
* 6 Perylene-d12	264	15.111	15.107	0.004	94	697713	4.00	
$ 7 2-Fluorophenol	112	5.554	5.550	0.004	94	1587421	21.2	
$ 8 Phenol-d5	99	6.377	6.373	0.004	90	2087423	20.7	
$ 9 Nitrobenzene-d5	82	7.221	7.222	-0.001	85	2362564	20.6	
$ 10 2-Fluorobiphenyl (Surr)	172	8.760	8.755	0.005	99	2710703	20.7	
$ 11 2,4,6-Tribromophenol	330	10.042	10.043	-0.001	88	306580	21.6	
$ 12 Terphenyl-d14	244	11.959	11.960	-0.001	97	3323820	20.5	
244 n-Octadecane	57		0.000					
247 Hexadecane	57		0.000					
243 n-Decane	57		0.000					
25 1,4-Dioxane	88	3.588	3.579	0.009	94	812444	21.6	M
26 N-Nitrosodimethylamine	74	4.037	4.027	0.010	85	1361415	21.9	
27 Pyridine	79	4.096	4.086	0.010	91	2202993	21.2	
41 Benzaldehyde	77	6.361	6.362	-0.001	84	3223684	40.2	
43 Phenol	94	6.388	6.383	0.005	77	2165715	20.9	
44 Aniline	93	6.452	6.447	0.005	97	2886981	21.6	
69 Bis(2-chloroethyl)ether	93	6.478	6.479	-0.001	96	1930519	20.8	
46 2-Chlorophenol	128	6.569	6.570	-0.001	89	1248867	21.0	
47 1,3-Dichlorobenzene	146	6.708	6.709	-0.001	79	1327133	21.3	
48 1,4-Dichlorobenzene	146	6.767	6.768	-0.001	77	1343698	20.9	
49 Benzyl alcohol	108	6.842	6.837	0.005	83	1008236	21.7	
50 1,2-Dichlorobenzene	146	6.911	6.907	0.004	81	1249273	20.9	
51 2-Methylphenol	108	6.922	6.917	0.005	94	1395947	21.2	
53 2,2'-oxybis[1-chloropropane]	45	6.954	6.955	-0.001	95	1826443	21.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
52 Indene	115	6.986	6.982	0.004	69	5139306	42.1	
21 3 & 4 Methylphenol	108	7.050	7.046	0.004	94	1471948	21.5	
57 N-Nitrosodi-n-propylamine	70	7.066	7.062	0.004	73	1506915	21.5	
58 Acetophenone	105	7.082	7.078	0.004	82	2313199	21.1	
61 Hexachloroethane	117	7.216	7.211	0.005	83	649632	21.3	
62 Nitrobenzene	77	7.242	7.238	0.004	75	2227392	21.4	
64 Isophorone	82	7.435	7.430	0.005	95	3761811	21.9	
65 2,4-Dimethylphenol	107	7.509	7.505	0.004	93	1466994	20.1	
66 2-Nitrophenol	139	7.515	7.516	-0.001	83	661368	21.4	
71 Benzoic acid	122	7.584	7.542	0.042	81	1667453	41.6	
70 Bis(2-chloroethoxy)methane	93	7.584	7.585	-0.001	98	2065153	20.7	
73 2,4-Dichlorophenol	162	7.718	7.719	-0.001	93	1011187	21.2	
74 1,2,4-Trichlorobenzene	180	7.803	7.804	-0.001	84	1136145	20.8	
75 Naphthalene	128	7.883	7.879	0.004	99	3863702	20.5	
76 4-Chloroaniline	127	7.894	7.890	0.004	78	2081119	21.0	
79 Hexachlorobutadiene	225	7.974	7.975	-0.001	89	686578	21.2	
84 Caprolactam	113	8.188	8.167	0.021	83	898521	42.4	
86 4-Chloro-3-methylphenol	107	8.279	8.274	0.005	83	1397525	21.5	
87 2-Methylnaphthalene	142	8.466	8.467	-0.001	83	2450838	20.6	
88 1-Methylnaphthalene	142	8.557	8.557	-0.001	79	2275231	20.5	
89 Hexachlorocyclopentadiene	237	8.605	8.606	-0.001	92	796140	22.7	
91 1,2,4,5-Tetrachlorobenzene	216	8.615	8.611	0.004	93	1065751	21.1	
92 2,4,6-Trichlorophenol	196	8.695	8.691	0.004	89	727774	22.7	
93 2,4,5-Trichlorophenol	196	8.727	8.728	-0.001	87	744934	22.8	
98 1,1'-Biphenyl	154	8.850	8.851	-0.001	96	3099638	21.1	
100 2-Chloronaphthalene	162	8.893	8.889	0.004	98	2304134	21.1	
102 2-Nitroaniline	65	8.946	8.947	-0.001	71	1071831	22.3	
105 Dimethyl phthalate	163	9.069	9.065	0.004	94	2309208	20.2	
106 1,3-Dinitrobenzene	168	9.112	9.108	0.004	80	429965	23.1	
107 2,6-Dinitrotoluene	165	9.133	9.129	0.004	62	564221	21.4	
109 Acenaphthylene	152	9.251	9.252	-0.001	87	3726458	22.0	
110 3-Nitroaniline	138	9.294	9.289	0.005	85	635564	22.4	
111 2,4-Dinitrophenol	184	9.379	9.375	0.004	74	822967	41.8	
113 4-Nitrophenol	109	9.395	9.385	0.010	85	1126365	48.0	
112 Acenaphthene	153	9.401	9.396	0.005	94	2164078	20.3	
114 2,4-Dinitrotoluene	165	9.486	9.482	0.004	75	785033	23.4	
116 Dibenzofuran	168	9.539	9.540	-0.001	84	3236409	21.0	
119 2,3,4,6-Tetrachlorophenol	232	9.636	9.631	0.005	75	568952	22.4	
121 Diethyl phthalate	149	9.657	9.658	-0.001	92	2233871	21.0	
123 4-Chlorophenyl phenyl ether	204	9.801	9.802	-0.001	94	1250534	20.8	
125 4-Nitroaniline	138	9.817	9.813	0.004	77	720865	21.1	
126 Fluorene	166	9.839	9.834	0.005	80	2299363	19.1	
128 4,6-Dinitro-2-methylphenol	198	9.844	9.840	0.004	71	1069548	40.2	
131 N-Nitrosodiphenylamine	169	9.897	9.893	0.004	99	3243346	37.8	
132 1,2-Diphenylhydrazine	77	9.940	9.936	0.004	99	4086649	19.3	
133 Azobenzene	77	9.940	9.936	0.004	95	4086731	19.3	
139 4-Bromophenyl phenyl ether	248	10.223	10.224	-0.001	69	594929	18.4	
142 Atrazine	200	10.309	10.304	0.005	85	1362144	40.1	
141 Hexachlorobenzene	284	10.325	10.326	-0.001	87	607689	18.4	
143 Pentachlorophenol	266	10.474	10.470	0.004	83	932518	40.7	
148 Phenanthrene	178	10.667	10.668	-0.001	98	3685938	20.5	
149 Anthracene	178	10.709	10.710	-0.001	87	3860287	21.7	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
151 Carbazole	167	10.822	10.823	-0.001	83	3670033	20.5	
154 Di-n-butyl phthalate	149	11.035	11.036	-0.001	100	4486958	20.0	
159 Fluoranthene	202	11.692	11.688	0.004	98	4451266	20.4	
160 Benzidine	184	11.751	11.747	0.004	98	3871055	43.7	
161 Pyrene	202	11.895	11.896	-0.001	97	4557161	22.8	
168 Butyl benzyl phthalate	149	12.339	12.334	0.005	90	2040840	22.4	
173 Bis(2-ethylhexyl) phthalate	149	12.862	12.863	-0.001	95	2840962	23.3	
175 3,3'-Dichlorobenzidine	252	12.932	12.927	0.005	71	3197040	46.3	
177 Benzo[a]anthracene	228	13.017	13.018	-0.001	89	4671400	21.8	
178 Chrysene	228	13.065	13.061	0.004	94	4434155	21.5	
180 Di-n-octyl phthalate	149	13.616	13.616	0.0	100	5025851	21.1	
182 Benzo[b]fluoranthene	252	14.454	14.450	0.004	87	4188587	23.2	
183 Benzo[k]fluoranthene	252	14.497	14.493	0.004	90	4700490	23.0	
184 Benzo[a]pyrene	252	15.020	15.016	0.004	75	4120044	23.3	
188 Indeno[1,2,3-cd]pyrene	276	17.446	17.425	0.021	87	4107625	22.9	
189 Dibenz(a,h)anthracene	278	17.451	17.431	0.020	54	3456338	23.7	
190 Benzo[g,h,i]perylene	276	18.172	18.152	0.020	89	3262037	22.0	
S 245 Total Cresols	100				0		42.7	
S 191 Methyl Phenols,Total	100				0		42.7	

QC Flag Legend

Review Flags
M - Manually Integrated

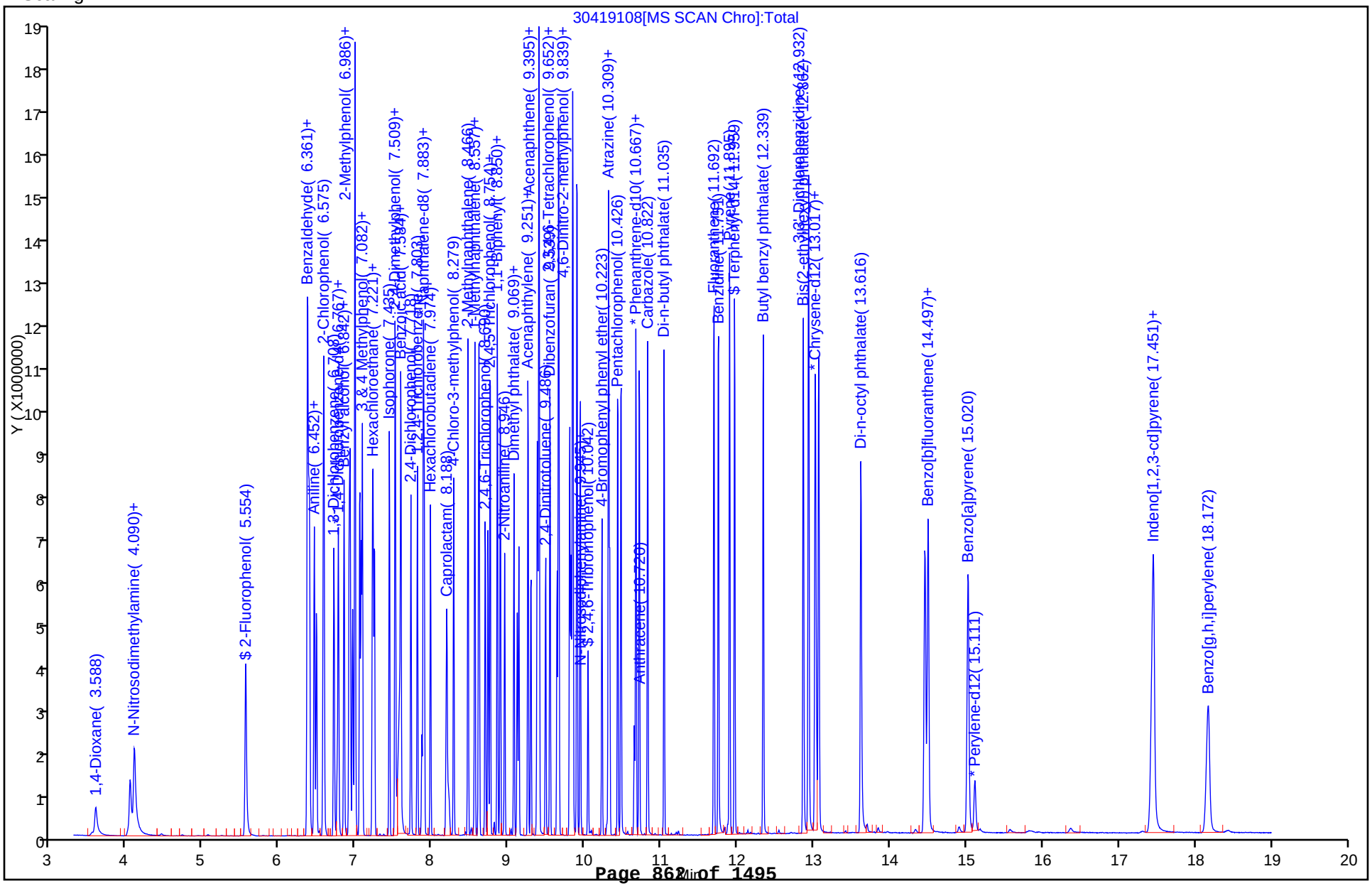
Report Date: 19-Apr-2013 15:20:19 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419108.D

Injection Date:	19-Apr-2013 13:19:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	8
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

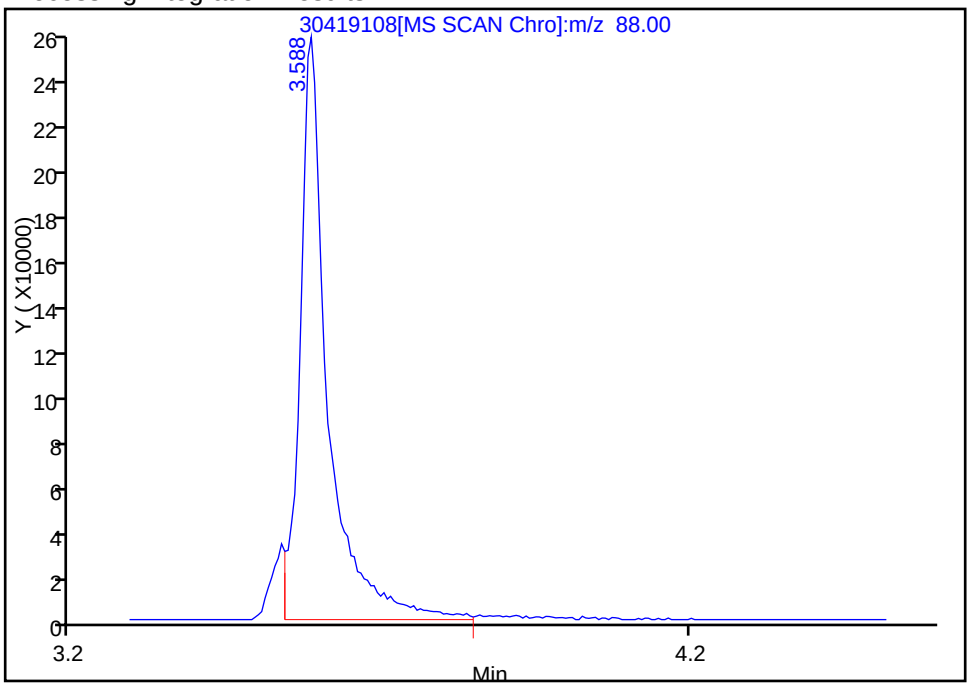
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419108.D		
Injection Date:	19-Apr-2013 13:19:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	8
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

25 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 3.58

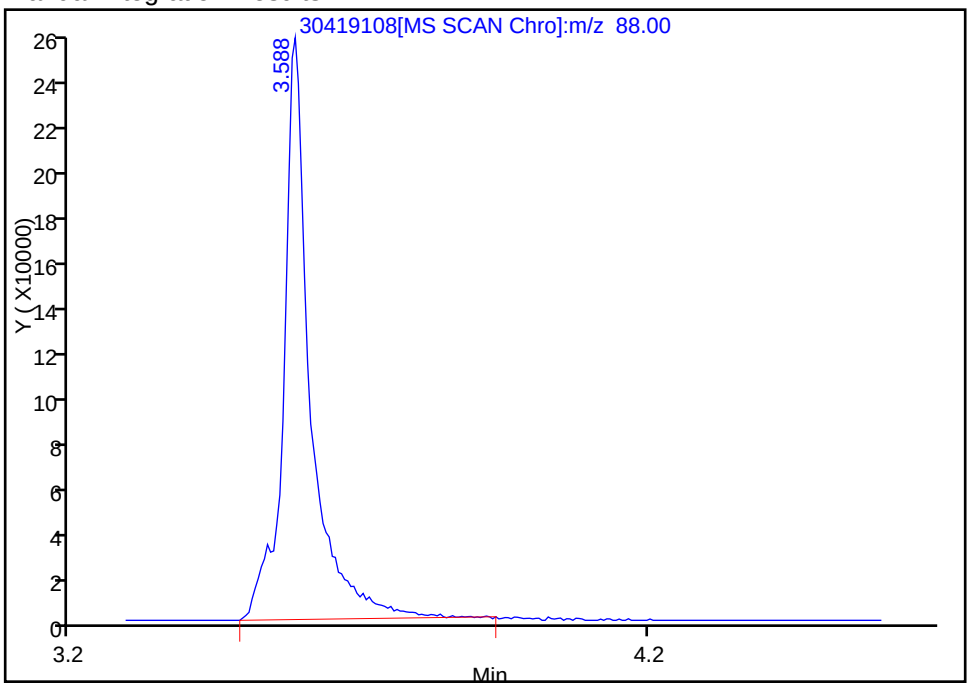
Processing Integration Results

RT: 3.59
Response: 784078
Amount: 20.780464



Manual Integration Results

RT: 3.59
Response: 812444
Amount: 21.604652



Reviewer: ulmanm, 19-Apr-2013 13:43:41
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419109.D		
Lims ID:	std7 lst1	Client ID:	
Inject. Date:	19-Apr-2013 13:45:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	240-0019052-009		
Misc. Info.:	STD7 LST1 =STD7 LST1		
Operator:	001574	Instrument ID:	A4HP9
Injection Vol:	1.0 ul	ALS Bottle#:	9
Lims Batch ID:	82668	Lims Sample ID:	9
Sublist:	chrom-8270 _9*sub23		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\8270 _9.m		
Last Update:	19-Apr-2013 15:20:20	Calib Date:	19-Apr-2013 14:12:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419110.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK006		
First Level Reviewer: ulmanm		Date:	19-Apr-2013 14:11:24

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.755	6.752	0.002	95	197936	4.00	
* 2 Naphthalene-d8	136	7.860	7.863	-0.003	99	800557	4.00	
* 3 Acenaphthene-d10	164	9.367	9.369	-0.002	75	469479	4.00	
* 4 Phenanthrene-d10	188	10.644	10.646	-0.002	96	719337	4.00	
* 5 Chrysene-d12	240	13.032	13.029	0.003	78	926720	4.00	
* 6 Perylene-d12	264	15.110	15.107	0.003	97	733437	4.00	
$ 7 2-Fluorophenol	112	5.553	5.550	0.003	94	1164383	14.5	
$ 8 Phenol-d5	99	6.375	6.373	0.002	89	1515351	14.0	
$ 9 Nitrobenzene-d5	82	7.219	7.222	-0.003	83	1738998	14.7	
$ 10 2-Fluorobiphenyl (Surr)	172	8.758	8.755	0.003	99	1994393	14.3	
$ 11 2,4,6-Tribromophenol	330	10.040	10.043	-0.003	84	210053	13.8	
$ 12 Terphenyl-d14	244	11.963	11.960	0.003	98	2426922	14.6	
247 Hexadecane	57		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
25 1,4-Dioxane	88	3.581	3.579	0.002	92	590252	14.6	M
26 N-Nitrosodimethylamine	74	4.035	4.027	0.008	84	982936	14.7	
27 Pyridine	79	4.089	4.086	0.003	93	1604091	14.4	
41 Benzaldehyde	77	6.359	6.362	-0.003	84	2418692	28.1	
43 Phenol	94	6.386	6.383	0.003	93	1580038	14.2	
44 Aniline	93	6.450	6.447	0.003	94	2070261	14.4	
69 Bis(2-chloroethyl)ether	93	6.477	6.479	-0.002	94	1422616	14.3	
46 2-Chlorophenol	128	6.568	6.570	-0.002	89	922872	14.4	
47 1,3-Dichlorobenzene	146	6.706	6.709	-0.003	82	964211	14.4	
48 1,4-Dichlorobenzene	146	6.765	6.768	-0.003	82	978336	14.2	
49 Benzyl alcohol	108	6.840	6.837	0.003	83	740168	14.8	
50 1,2-Dichlorobenzene	146	6.909	6.907	0.002	79	907094	14.2	
51 2-Methylphenol	108	6.920	6.917	0.003	94	1004570	14.2	
53 2,2'-oxybis[1-chloropropane]	45	6.952	6.955	-0.003	95	1340211	14.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
52 Indene	115	6.984	6.982	0.002	68	3743409	28.5	
21 3 & 4 Methylphenol	108	7.048	7.046	0.002	94	1080655	14.7	
57 N-Nitrosodi-n-propylamine	70	7.064	7.062	0.002	71	1128001	15.0	
58 Acetophenone	105	7.080	7.078	0.002	81	1699365	14.5	
61 Hexachloroethane	117	7.214	7.211	0.003	82	468915	14.3	
62 Nitrobenzene	77	7.241	7.238	0.003	80	1624294	15.2	
64 Isophorone	82	7.433	7.430	0.003	95	2715261	15.3	
65 2,4-Dimethylphenol	107	7.508	7.505	0.003	97	1094395	14.6	
66 2-Nitrophenol	139	7.513	7.516	-0.003	84	495629	15.6	
71 Benzoic acid	122	7.572	7.542	0.030	84	1212344	29.8	
70 Bis(2-chloroethoxy)methane	93	7.588	7.585	0.003	95	1537645	15.0	
73 2,4-Dichlorophenol	162	7.716	7.719	-0.003	93	738102	15.0	
74 1,2,4-Trichlorobenzene	180	7.802	7.804	-0.002	84	834772	14.8	
75 Naphthalene	128	7.882	7.879	0.003	99	2853867	14.7	
76 4-Chloroaniline	127	7.892	7.890	0.002	77	1514662	14.9	
79 Hexachlorobutadiene	225	7.973	7.975	-0.003	90	496305	14.9	
84 Caprolactam	113	8.181	8.167	0.014	81	646723	29.7	
86 4-Chloro-3-methylphenol	107	8.277	8.274	0.003	79	1007734	15.1	
87 2-Methylnaphthalene	142	8.464	8.467	-0.003	85	1791630	14.7	
88 1-Methylnaphthalene	142	8.555	8.557	-0.002	78	1676016	14.7	
89 Hexachlorocyclopentadiene	237	8.603	8.606	-0.003	89	579269	15.5	
91 1,2,4,5-Tetrachlorobenzene	216	8.614	8.611	0.003	92	781232	14.5	
92 2,4,6-Trichlorophenol	196	8.694	8.691	0.003	89	533354	15.6	
93 2,4,5-Trichlorophenol	196	8.726	8.728	-0.002	85	542576	15.6	
98 1,1'-Biphenyl	154	8.849	8.851	-0.002	96	2288941	14.6	
100 2-Chloronaphthalene	162	8.891	8.889	0.002	98	1705271	14.6	
102 2-Nitroaniline	65	8.945	8.947	-0.002	72	802771	15.6	
105 Dimethyl phthalate	163	9.068	9.065	0.003	93	1735965	14.2	
106 1,3-Dinitrobenzene	168	9.110	9.108	0.002	80	312145	15.7	
107 2,6-Dinitrotoluene	165	9.132	9.129	0.003	63	410597	14.6	
109 Acenaphthylene	152	9.255	9.252	0.003	87	2671134	14.8	
110 3-Nitroaniline	138	9.292	9.289	0.003	86	448191	14.8	
111 2,4-Dinitrophenol	184	9.377	9.375	0.002	74	565951	29.4	
113 4-Nitrophenol	109	9.394	9.385	0.009	85	821487	32.8	
112 Acenaphthene	153	9.399	9.396	0.003	92	1644598	14.4	
114 2,4-Dinitrotoluene	165	9.484	9.482	0.002	75	556842	15.5	
116 Dibenzofuran	168	9.543	9.540	0.003	85	2401088	14.6	
119 2,3,4,6-Tetrachlorophenol	232	9.634	9.631	0.003	76	392032	14.4	
121 Diethyl phthalate	149	9.655	9.658	-0.003	92	1559614	13.7	
123 4-Chlorophenyl phenyl ether	204	9.800	9.802	-0.002	95	940212	14.6	
125 4-Nitroaniline	138	9.816	9.813	0.003	77	519515	14.5	
126 Fluorene	166	9.837	9.834	0.003	80	1809132	14.1	
128 4,6-Dinitro-2-methylphenol	198	9.842	9.840	0.002	75	784484	30.2	
131 N-Nitrosodiphenylamine	169	9.896	9.893	0.003	99	2328546	27.5	
132 1,2-Diphenylhydrazine	77	9.938	9.936	0.002	99	3080858	14.7	
133 Azobenzene	77	9.938	9.936	0.002	95	3081209	14.7	
139 4-Bromophenyl phenyl ether	248	10.222	10.224	-0.002	69	439656	13.8	
142 Atrazine	200	10.307	10.304	0.003	80	1034035	29.1	
141 Hexachlorobenzene	284	10.323	10.326	-0.003	88	461461	14.2	
143 Pentachlorophenol	266	10.473	10.470	0.003	82	672581	30.0	
148 Phenanthrene	178	10.665	10.668	-0.003	98	2577032	14.5	
149 Anthracene	178	10.713	10.710	0.003	87	2686405	15.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
151 Carbazole	167	10.820	10.823	-0.003	83	2644490	15.0	
154 Di-n-butyl phthalate	149	11.039	11.036	0.003	100	3293727	15.0	
159 Fluoranthene	202	11.691	11.688	0.003	98	3238363	15.0	
160 Benzidine	184	11.749	11.747	0.002	99	2891335	31.9	
161 Pyrene	202	11.894	11.896	-0.002	96	3362426	16.4	
168 Butyl benzyl phthalate	149	12.337	12.334	0.003	89	1453791	15.6	
173 Bis(2-ethylhexyl) phthalate	149	12.861	12.863	-0.002	94	2031399	16.3	
175 3,3'-Dichlorobenzidine	252	12.930	12.927	0.003	64	2305932	32.7	
177 Benzo[a]anthracene	228	13.015	13.018	-0.003	89	3308538	15.1	
178 Chrysene	228	13.064	13.061	0.003	93	3147091	14.9	
180 Di-n-octyl phthalate	149	13.619	13.616	0.003	100	3542740	14.2	
182 Benzo[b]fluoranthene	252	14.453	14.450	0.002	88	3015223	15.9	
183 Benzo[k]fluoranthene	252	14.495	14.493	0.002	90	3276799	15.2	
184 Benzo[a]pyrene	252	15.019	15.016	0.003	75	2935701	15.8	
188 Indeno[1,2,3-cd]pyrene	276	17.439	17.425	0.014	92	2918202	15.5	
189 Dibenz(a,h)anthracene	278	17.439	17.431	0.008	61	2435344	15.9	
190 Benzo[g,h,i]perylene	276	18.160	18.152	0.008	95	2377859	15.3	
S 245 Total Cresols	100				0		28.9	
S 191 Methyl Phenols,Total	100				0		28.9	

QC Flag Legend

Review Flags
M - Manually Integrated

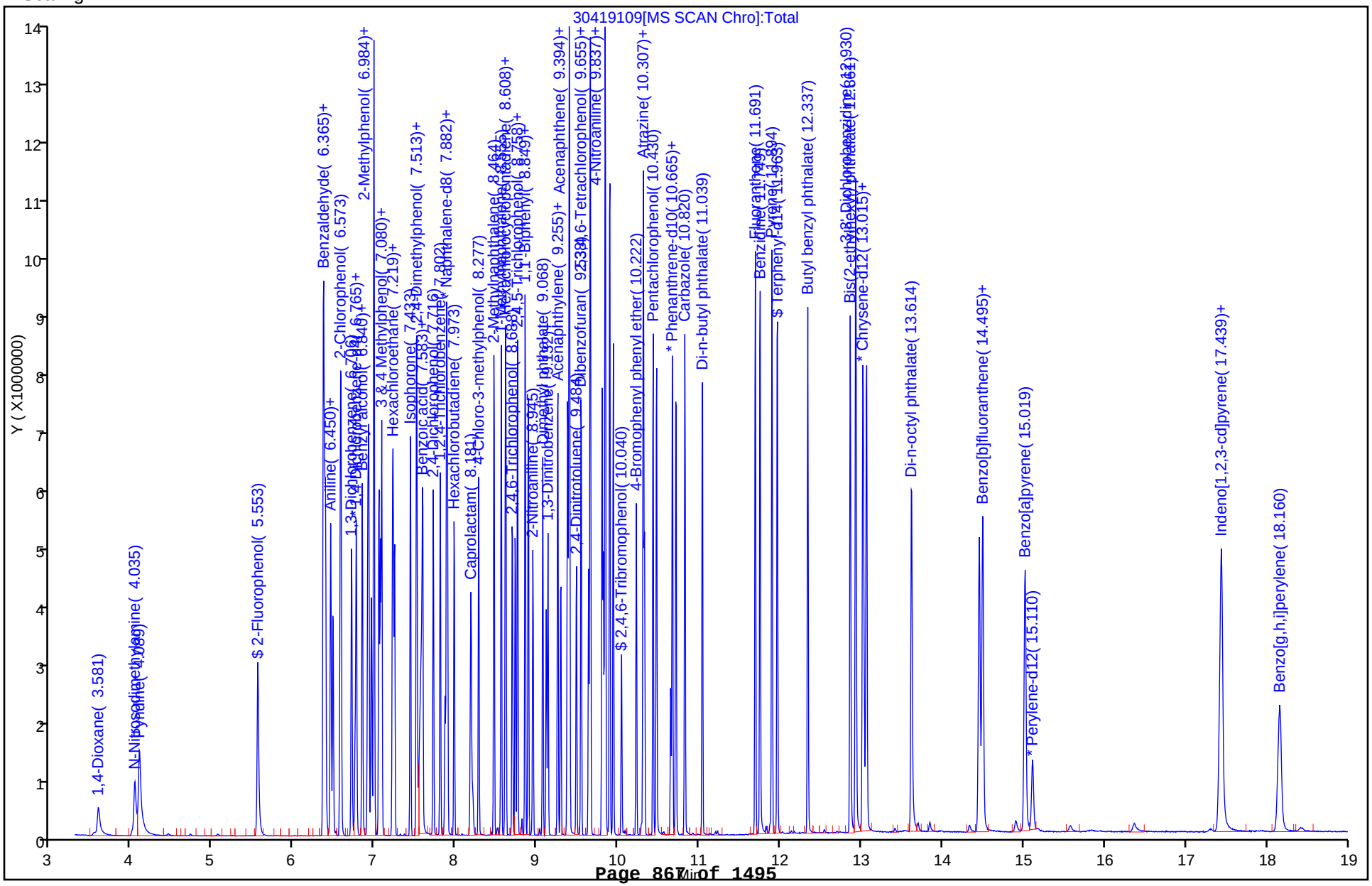
Report Date: 19-Apr-2013 15:20:20 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419109.D

Injection Date:	19-Apr-2013 13:45:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	9
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

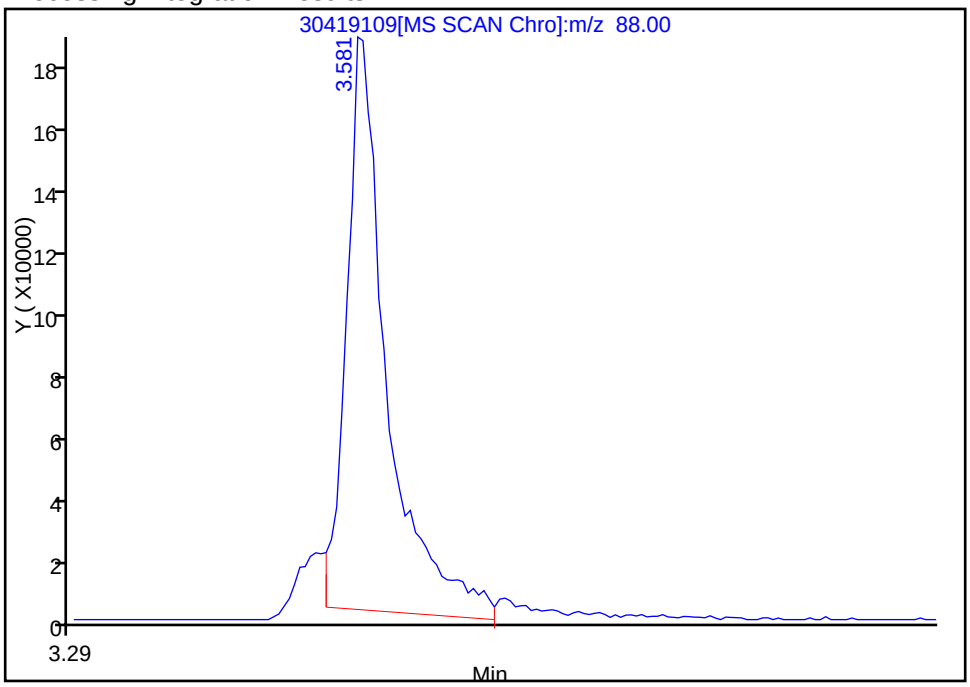
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419109.D		
Injection Date:	19-Apr-2013 13:45:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	9
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

25 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 3.58

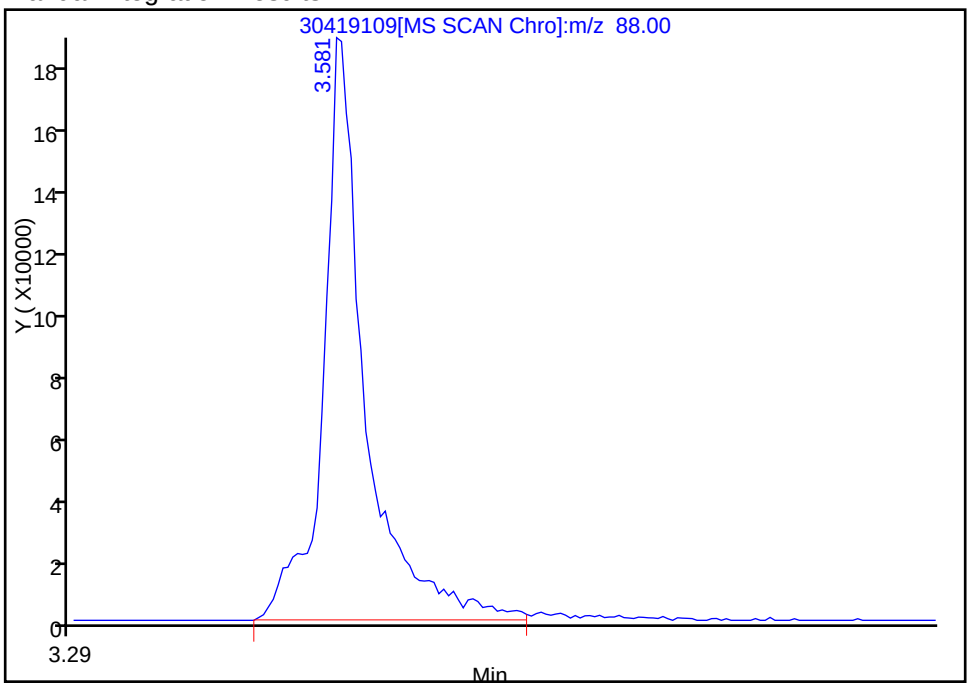
Processing Integration Results

RT: 3.58
Response: 517082
Amount: 12.974042



Manual Integration Results

RT: 3.58
Response: 590252
Amount: 14.623647



Reviewer: ulmanm, 19-Apr-2013 14:11:24
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419110.D
Lims ID: std6 lst1 Client ID:
Inject. Date: 19-Apr-2013 14:12:30 Dil. Factor: 1.0000
Sample Type: ICIS Calib Level: 6
Sample ID: 240-0019052-010
Misc. Info.: STD6 LST1 =STD6 LST1
Operator: 001574 Instrument ID: A4HP9
Injection Vol: 1.0 ul ALS Bottle#: 10
Lims Batch ID: 82668 Lims Sample ID: 10
Sublist: chrom-8270 _9*sub23
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\8270 _9.m
Last Update: 21-Apr-2013 09:47:23 Calib Date: 19-Apr-2013 14:12:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419110.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: 5% phenyl Column Dia: 0.18 mm
Process Host: XAWRK037

First Level Reviewer: ulmanm Date: 21-Apr-2013 09:47:23

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.753	6.753	0.0	93	196394	4.00	
* 2 Naphthalene-d8	136	7.859	7.859	0.0	99	818437	4.00	
* 3 Acenaphthene-d10	164	9.371	9.371	0.0	82	475386	4.00	
* 4 Phenanthrene-d10	188	10.647	10.647	0.0	97	664233	4.00	
* 5 Chrysene-d12	240	13.030	13.030	0.0	79	932069	4.00	
* 6 Perylene-d12	264	15.108	15.108	0.0	93	741321	4.00	
$ 7 2-Fluorophenol	112	5.551	5.551	0.0	94	774150	9.70	
$ 8 Phenol-d5	99	6.374	6.374	0.0	90	1021709	9.53	
$ 9 Nitrobenzene-d5	82	7.223	7.223	0.0	85	1152344	9.55	
$ 10 2-Fluorobiphenyl (Surr)	172	8.756	8.756	0.0	99	1334806	9.43	
$ 11 2,4,6-Tribromophenol	330	10.038	10.038	0.0	83	130851	8.52	
$ 12 Terphenyl-d14	244	11.962	11.962	0.0	98	1617452	9.68	
247 Hexadecane	57		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
25 1,4-Dioxane	88	3.585	3.585	0.0	93	387348	9.67	M
26 N-Nitrosodimethylamine	74	4.034	4.034	0.0	85	659093	9.96	
27 Pyridine	79	4.093	4.093	0.0	93	1061197	9.61	
41 Benzaldehyde	77	6.363	6.363	0.0	86	1654465	19.4	
43 Phenol	94	6.390	6.390	0.0	77	1070027	9.70	
44 Aniline	93	6.449	6.449	0.0	94	1366211	9.59	
69 Bis(2-chloroethyl)ether	93	6.481	6.481	0.0	94	973949	9.86	
46 2-Chlorophenol	128	6.566	6.566	0.0	88	616075	9.72	
47 1,3-Dichlorobenzene	146	6.710	6.710	0.0	83	652448	9.81	
48 1,4-Dichlorobenzene	146	6.769	6.769	0.0	85	663158	9.69	
49 Benzyl alcohol	108	6.838	6.838	0.0	85	493469	9.98	
50 1,2-Dichlorobenzene	146	6.908	6.908	0.0	79	616890	9.71	
51 2-Methylphenol	108	6.919	6.919	0.0	94	689087	9.83	
53 2,2'-oxybis[1-chloropropane]	45	6.951	6.951	0.0	95	891371	9.64	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
52 Indene	115	6.983	6.983	0.0	69	2538226	19.5	
21 3 & 4 Methylphenol	108	7.047	7.047	0.0	94	728377	9.99	
57 N-Nitrosodi-n-propylamine	70	7.063	7.063	0.0	72	746600	10.0	
58 Acetophenone	105	7.079	7.079	0.0	82	1138693	9.77	
61 Hexachloroethane	117	7.212	7.212	0.0	82	311292	9.59	
62 Nitrobenzene	77	7.239	7.239	0.0	74	1066428	9.76	
64 Isophorone	82	7.431	7.431	0.0	96	1802001	9.96	
65 2,4-Dimethylphenol	107	7.506	7.506	0.0	95	744112	9.70	
66 2-Nitrophenol	139	7.517	7.517	0.0	84	326117	10.0	
71 Benzoic acid	122	7.560	7.560	0.0	68	772555	19.1	
70 Bis(2-chloroethoxy)methane	93	7.586	7.586	0.0	92	1038549	9.92	
73 2,4-Dichlorophenol	162	7.715	7.715	0.0	91	493259	9.82	
74 1,2,4-Trichlorobenzene	180	7.800	7.800	0.0	83	549471	9.55	
75 Naphthalene	128	7.880	7.880	0.0	99	1915072	9.67	
76 4-Chloroaniline	127	7.891	7.891	0.0	75	1023280	9.83	
79 Hexachlorobutadiene	225	7.976	7.976	0.0	90	331570	9.73	
84 Caprolactam	113	8.174	8.174	0.0	83	432187	19.4	
86 4-Chloro-3-methylphenol	107	8.276	8.276	0.0	86	678910	9.93	
87 2-Methylnaphthalene	142	8.468	8.468	0.0	83	1206220	9.67	
88 1-Methylnaphthalene	142	8.553	8.553	0.0	79	1127236	9.66	
89 Hexachlorocyclopentadiene	237	8.607	8.607	0.0	95	385123	10.1	
91 1,2,4,5-Tetrachlorobenzene	216	8.612	8.612	0.0	93	526923	9.65	
92 2,4,6-Trichlorophenol	196	8.692	8.692	0.0	89	351312	10.2	
93 2,4,5-Trichlorophenol	196	8.730	8.730	0.0	88	355474	10.1	
98 1,1'-Biphenyl	154	8.852	8.852	0.0	96	1519274	9.58	
100 2-Chloronaphthalene	162	8.890	8.890	0.0	98	1124296	9.52	
102 2-Nitroaniline	65	8.943	8.943	0.0	70	548472	10.5	
105 Dimethyl phthalate	163	9.066	9.066	0.0	92	1193184	9.64	
106 1,3-Dinitrobenzene	168	9.109	9.109	0.0	80	208369	10.4	
107 2,6-Dinitrotoluene	165	9.130	9.130	0.0	71	285986	10.0	
109 Acenaphthylene	152	9.253	9.253	0.0	92	1783720	9.76	
110 3-Nitroaniline	138	9.291	9.291	0.0	87	278753	9.09	
111 2,4-Dinitrophenol	184	9.376	9.376	0.0	72	336730	18.9	
113 4-Nitrophenol	109	9.392	9.392	0.0	87	529661	20.9	
112 Acenaphthene	153	9.397	9.397	0.0	93	1142574	9.91	
114 2,4-Dinitrotoluene	165	9.483	9.483	0.0	73	344477	9.49	
116 Dibenzofuran	168	9.542	9.542	0.0	84	1619051	9.74	
119 2,3,4,6-Tetrachlorophenol	232	9.632	9.632	0.0	76	261156	9.50	
121 Diethyl phthalate	149	9.659	9.659	0.0	92	993873	8.62	
123 4-Chlorophenyl phenyl ether	204	9.798	9.798	0.0	95	639607	9.82	
125 4-Nitroaniline	138	9.814	9.814	0.0	71	317127	9.01	
126 Fluorene	166	9.835	9.835	0.0	80	1255075	9.63	
128 4,6-Dinitro-2-methylphenol	198	9.841	9.841	0.0	79	490327	20.8	
131 N-Nitrosodiphenylamine	169	9.894	9.894	0.0	99	1561939	20.0	
132 1,2-Diphenylhydrazine	77	9.937	9.937	0.0	98	2133513	11.1	
133 Azobenzene	77	9.937	9.937	0.0	95	2134224	11.1	
139 4-Bromophenyl phenyl ether	248	10.220	10.220	0.0	72	309660	10.5	
142 Atrazine	200	10.306	10.306	0.0	84	704063	20.6	
141 Hexachlorobenzene	284	10.322	10.322	0.0	85	321362	10.7	
143 Pentachlorophenol	266	10.471	10.471	0.0	78	420206	20.6	
148 Phenanthrene	178	10.669	10.669	0.0	98	1579555	9.64	
149 Anthracene	178	10.712	10.712	0.0	88	1615072	9.96	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
151 Carbazole	167	10.818	10.818	0.0	83	1696404	10.5	
154 Di-n-butyl phthalate	149	11.037	11.037	0.0	100	2148552	10.7	
159 Fluoranthene	202	11.689	11.689	0.0	99	2162136	10.9	
160 Benzidine	184	11.748	11.748	0.0	99	1948580	21.4	
161 Pyrene	202	11.892	11.892	0.0	96	2201819	10.7	
168 Butyl benzyl phthalate	149	12.336	12.336	0.0	89	955943	10.2	
173 Bis(2-ethylhexyl) phthalate	149	12.859	12.859	0.0	93	1295685	10.3	
175 3,3'-Dichlorobenzidine	252	12.929	12.929	0.0	72	1520756	21.4	
177 Benzo[a]anthracene	228	13.019	13.019	0.0	90	2151624	9.77	
178 Chrysene	228	13.062	13.062	0.0	93	2064001	9.73	
180 Di-n-octyl phthalate	149	13.618	13.618	0.0	99	2294885	9.23	
182 Benzo[b]fluoranthene	252	14.451	14.451	0.0	94	1971824	10.3	
183 Benzo[k]fluoranthene	252	14.494	14.494	0.0	90	2163727	9.96	
184 Benzo[a]pyrene	252	15.017	15.017	0.0	75	1910774	10.2	
188 Indeno[1,2,3-cd]pyrene	276	17.432	17.432	0.0	88	1898488	9.96	
189 Dibenz(a,h)anthracene	278	17.437	17.437	0.0	66	1564082	10.1	
190 Benzo[g,h,i]perylene	276	18.153	18.153	0.0	92	1548912	9.84	
S 245 Total Cresols	100				0		19.8	
S 191 Methyl Phenols,Total	100				0		19.8	

QC Flag Legend

Review Flags
M - Manually Integrated

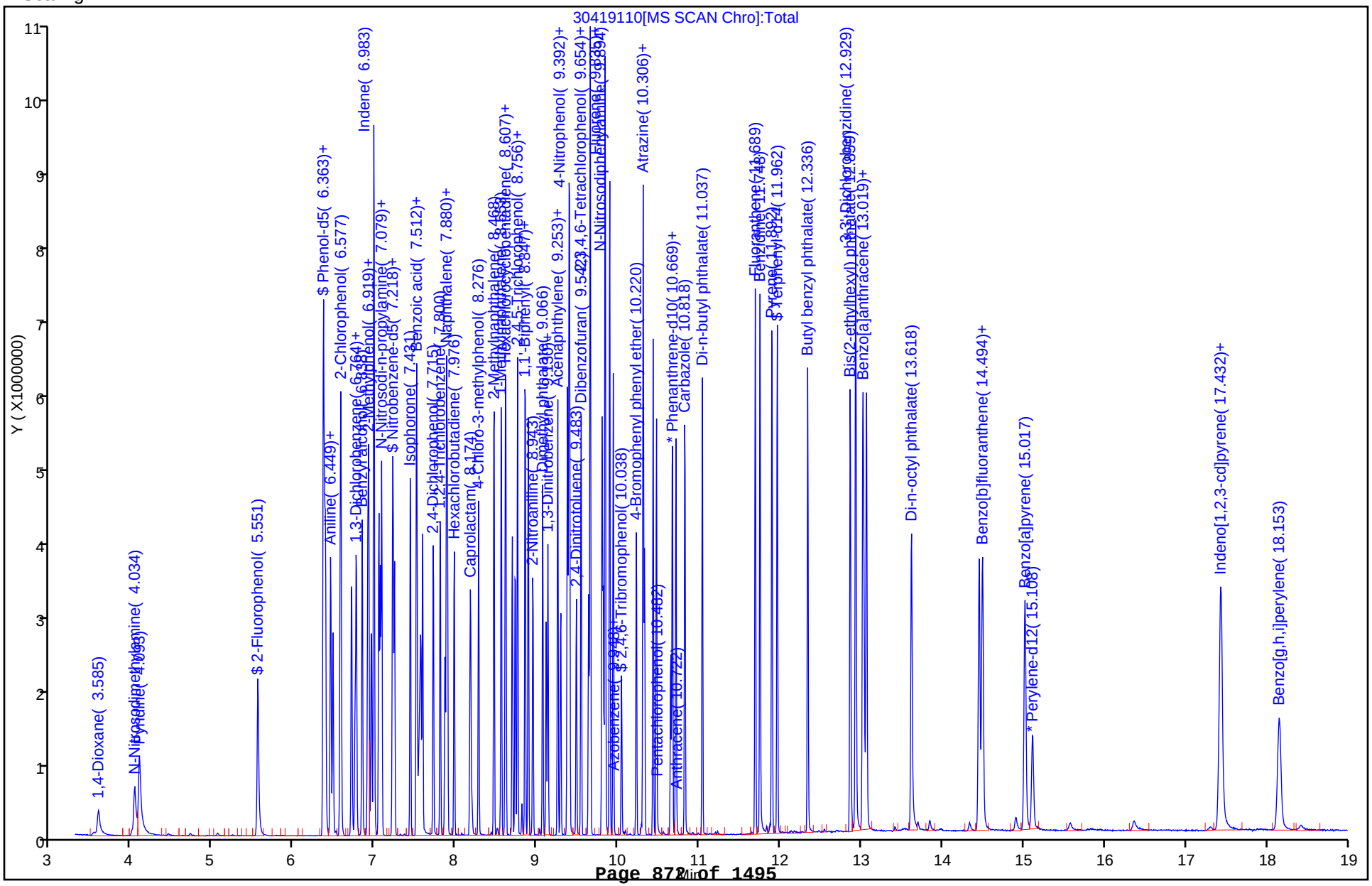
Report Date: 21-Apr-2013 09:47:24 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419110.D

Injection Date:	19-Apr-2013 14:12:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	10
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

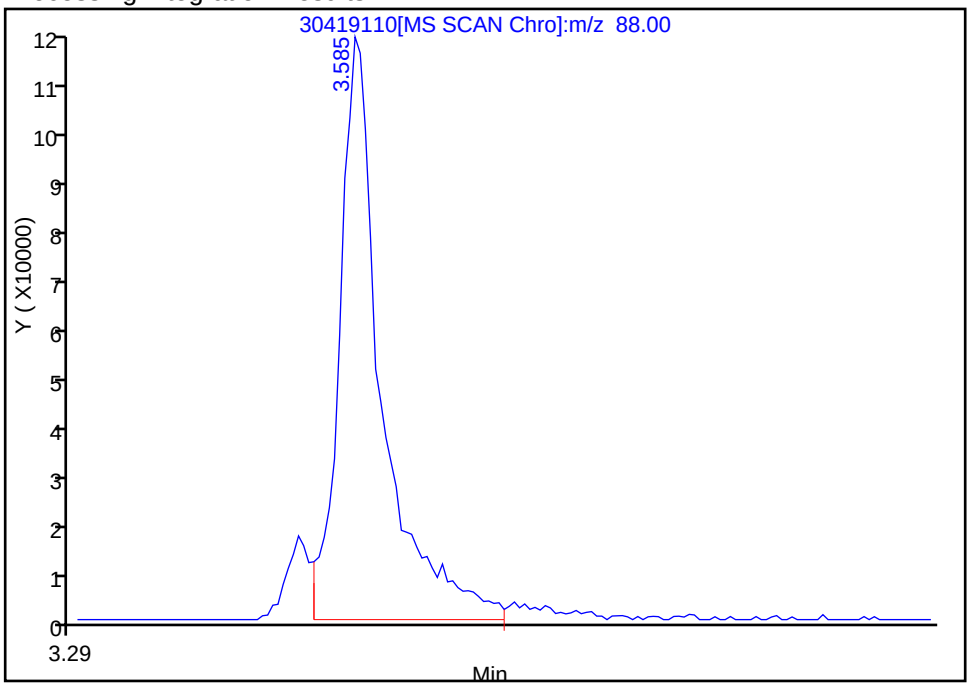
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419110.D		
Injection Date:	19-Apr-2013 14:12:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	10
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

25 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 3.59

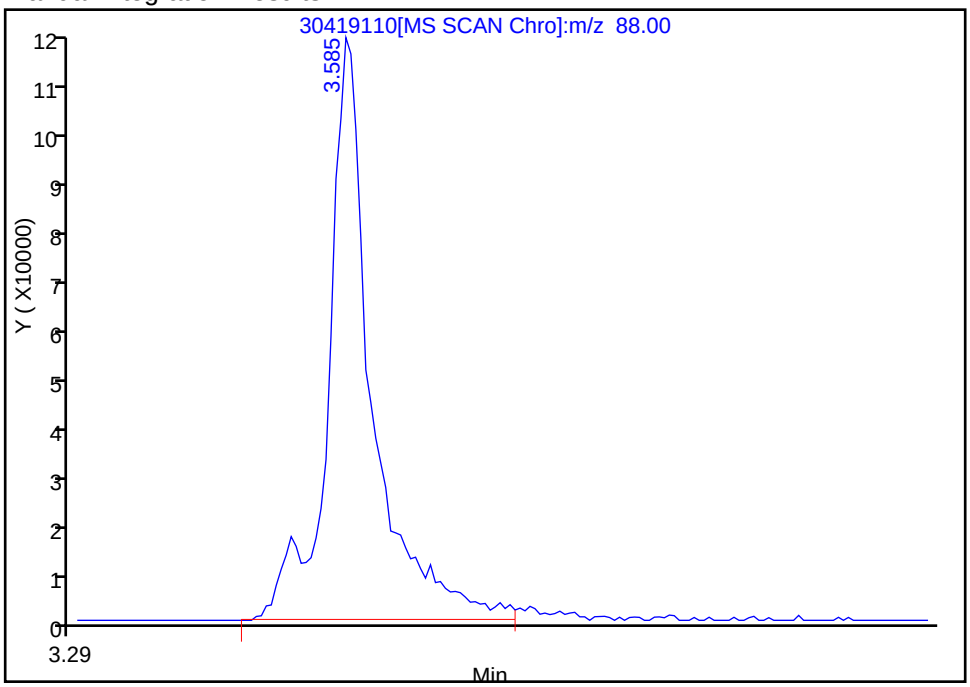
Processing Integration Results

RT: 3.59
Response: 360066
Amount: 9.067987



Manual Integration Results

RT: 3.59
Response: 387348
Amount: 9.671996



Reviewer: ulmanm, 19-Apr-2013 14:42:55
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: ICV 240-81609/11 Calibration Date: 04/11/2013 21:43

Instrument ID: A4HP10 Calib Start Date: 04/11/2013 18:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/11/2013 21:19

Lab File ID: 30411011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Lin1		0.5593	0.0500	10.2	10.0	1.8	20.0
N-Nitrosodimethylamine	Ave	0.6668	0.7036	0.0500	10.6	10.0	5.5	20.0
Pyridine	Ave	1.237	1.378	0.0500	11.1	10.0	11.4	20.0
Benzaldehyde	Ave	1.088	1.151	0.0500	21.2	20.0	5.8	20.0
Phenol	Ave	1.517	1.647	0.0500	10.9	10.0	8.6	20.0
Aniline	Ave	1.869	2.013	0.0500	10.8	10.0	7.7	20.0
Bis(2-chloroethyl)ether	Ave	1.174	1.246	0.0500	10.6	10.0	6.1	20.0
2-Chlorophenol	Ave	1.223	1.305	0.0500	10.7	10.0	6.7	20.0
1,3-Dichlorobenzene	Ave	1.322	1.426	0.0500	10.8	10.0	7.8	20.0
1,4-Dichlorobenzene	Ave	1.349	1.476	0.0500	10.9	10.0	9.4	20.0
Benzyl alcohol	Ave	0.7768	0.8665	0.0500	11.2	10.0	11.6	20.0
1,2-Dichlorobenzene	Ave	1.287	1.390	0.0500	10.8	10.0	8.0	20.0
2-Methylphenol	Ave	1.105	1.225	0.0500	11.1	10.0	10.9	20.0
bis (2-chloroisopropyl) ether	Ave	1.795	2.305	0.0500	9.25	7.20	28.4*	20.0
3 & 4 Methylphenol	Ave	1.151	1.289	0.0500	11.2	10.0	12.0	20.0
N-Nitrosodi-n-propylamine	Ave	0.8241	0.8916	0.0500	10.8	10.0	8.2	20.0
Acetophenone	Ave	1.716	1.861	0.0500	10.8	10.0	8.5	20.0
Hexachloroethane	Ave	0.5215	0.5613	0.0500	10.8	10.0	7.6	20.0
Nitrobenzene	Ave	0.3401	0.3689	0.0500	10.8	10.0	8.5	20.0
Isophorone	Ave	0.6103	0.6861	0.0500	11.2	10.0	12.4	20.0
2-Nitrophenol	Ave	0.1624	0.1809	0.0500	11.1	10.0	11.4	20.0
2,4-Dimethylphenol	Ave	0.3114	0.3269	0.0500	10.5	10.0	5.0	20.0
Benzoic acid	Qua		0.2115	0.0500	23.2	20.0	15.8	20.0
Bis(2-chloroethoxy)methane	Ave	0.3595	0.3816	0.0500	10.6	10.0	6.2	20.0
2,4-Dichlorophenol	Ave	0.2560	0.2820	0.0500	11.0	10.0	10.1	20.0
1,2,4-Trichlorobenzene	Ave	0.2998	0.3259	0.0500	10.9	10.0	8.7	20.0
Naphthalene	Ave	0.9279	1.002	0.0500	10.8	10.0	7.9	20.0
4-Chloroaniline	Ave	0.3867	0.4119	0.0500	10.7	10.0	6.5	20.0
Hexachlorobutadiene	Ave	0.1834	0.1927	0.0500	10.5	10.0	5.1	20.0
Caprolactam	Ave	0.0877	0.0951	0.0500	21.7	20.0	8.4	20.0
4-Chloro-3-methylphenol	Ave	0.2736	0.3035	0.0500	11.1	10.0	11.0	20.0
2-Methylnaphthalene	Ave	0.6242	0.6650	0.0500	10.7	10.0	6.5	20.0
1-Methylnaphthalene	Ave	0.5854	0.6077	0.0500	10.4	10.0	3.8	20.0
Hexachlorocyclopentadiene	Ave	0.3175	0.3659	0.0500	11.5	10.0	15.2	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5309	0.5788	0.0500	10.9	10.0	9.0	20.0
2,4,6-Trichlorophenol	Ave	0.3299	0.3734	0.0500	11.3	10.0	13.2	20.0
2,4,5-Trichlorophenol	Ave	0.3422	0.3828	0.0500	11.2	10.0	11.9	20.0
1,1'-Biphenyl	Ave	1.293	1.393	0.0500	10.8	10.0	7.7	20.0
2-Chloronaphthalene	Ave	0.9841	1.075	0.0500	10.9	10.0	9.3	20.0
2-Nitroaniline	Ave	0.3026	0.3474	0.0500	11.5	10.0	14.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: ICV 240-81609/11 Calibration Date: 04/11/2013 21:43

Instrument ID: A4HP10 Calib Start Date: 04/11/2013 18:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/11/2013 21:19

Lab File ID: 30411011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dimethyl phthalate	Ave	1.118	1.229	0.0500	11.0	10.0	9.9	20.0
2,6-Dinitrotoluene	Ave	0.2443	0.2876	0.0500	11.8	10.0	17.7	20.0
Acenaphthylene	Ave	1.567	1.776	0.0500	11.3	10.0	13.3	20.0
3-Nitroaniline	Lin1		0.3091	0.0500	10.5	10.0	4.6	20.0
2,4-Dinitrophenol	Qua		0.1970	0.0500	21.5	20.0	7.3	20.0
Acenaphthene	Ave	1.089	1.180	0.0500	10.8	10.0	8.4	20.0
4-Nitrophenol	Lin1		0.1818	0.0500	21.7	20.0	8.5	20.0
2,4-Dinitrotoluene	Lin1		0.3752	0.0500	10.4	10.0	3.6	20.0
Dibenzofuran	Ave	1.468	1.604	0.0500	10.9	10.0	9.3	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2989	0.3408	0.0500	11.4	10.0	14.0	20.0
Diethyl phthalate	Ave	1.155	1.261	0.0500	10.9	10.0	9.2	20.0
4-Chlorophenyl phenyl ether	Ave	0.6282	0.6959	0.0500	11.1	10.0	10.8	20.0
4-Nitroaniline	Ave	0.2737	0.3216	0.0500	11.7	10.0	17.5	20.0
Fluorene	Ave	1.193	1.339	0.0500	11.2	10.0	12.2	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1475	0.0500	21.7	20.0	8.3	20.0
N-Nitrosodiphenylamine	Ave	0.4728	0.5209	0.0500	22.0	20.0	10.2	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	0.6357	0.7132	0.0500	11.2	10.0	12.2	20.0
Azobenzene	Ave	0.6357	0.7132	0.0500	11.2	10.0	12.2	20.0
4-Bromophenyl phenyl ether	Ave	0.1784	0.1987	0.0500	11.1	10.0	11.4	20.0
Hexachlorobenzene	Ave	0.1808	0.2025	0.0500	11.2	10.0	12.0	20.0
Atrazine	Ave	0.1794	0.2047	0.0500	22.8	20.0	14.1	20.0
Pentachlorophenol	Lin1		0.1432	0.0500	22.0	20.0	9.9	20.0
Phenanthrene	Ave	0.9275	1.010	0.0500	10.9	10.0	8.9	20.0
Anthracene	Ave	0.9222	1.057	0.0500	11.5	10.0	14.7	20.0
Carbazole	Ave	0.8498	0.9250	0.0500	10.9	10.0	8.8	20.0
Di-n-butyl phthalate	Ave	1.040	1.161	0.0500	11.2	10.0	11.6	20.0
Fluoranthene	Ave	1.094	1.196	0.0500	10.9	10.0	9.3	20.0
Benzidine	Ave	0.4158	0.5136	0.0500	24.7	20.0	23.5*	20.0
Pyrene	Ave	1.033	1.171	0.0500	11.3	10.0	13.4	20.0
Butyl benzyl phthalate	Ave	0.3936	0.4821	0.0500	12.2	10.0	22.5*	20.0
3,3'-Dichlorobenzidine	Ave	0.3264	0.3892	0.0500	23.8	20.0	19.2	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5537	0.6586	0.0500	11.9	10.0	18.9	20.0
Benzo[a]anthracene	Ave	0.995	1.126	0.0500	11.3	10.0	13.1	20.0
Chrysene	Ave	0.9135	1.061	0.0500	11.6	10.0	16.1	20.0
Di-n-octyl phthalate	Lin1		1.315	0.0500	10.6	10.0	5.9	20.0
Benzo[b]fluoranthene	Ave	1.074	1.235	0.0500	11.5	10.0	15.0	20.0
Benzo[k]fluoranthene	Ave	1.168	1.338	0.0500	11.5	10.0	14.6	20.0
Benzo[a]pyrene	Ave	0.997	1.181	0.0500	11.8	10.0	18.5	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.093	1.210	0.0500	11.1	10.0	10.6	20.0
Dibenz(a,h)anthracene	Ave	0.9115	1.061	0.0500	11.6	10.0	16.4	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: ICV 240-81609/11 Calibration Date: 04/11/2013 21:43

Instrument ID: A4HP10 Calib Start Date: 04/11/2013 18:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/11/2013 21:19

Lab File ID: 30411011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[g,h,i]perylene	Ave	0.9331	1.039	0.0500	11.1	10.0	11.3	20.0
2-Fluorophenol (Surr)	Ave	1.157	1.336	0.0500	11.5	10.0	15.5	20.0
Phenol-d5 (Surr)	Ave	1.542	1.792	0.0500	11.6	10.0	16.2	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3740	0.4322	0.0500	11.6	10.0	15.6	20.0
2-Fluorobiphenyl (Surr)	Ave	1.290	1.493	0.0500	11.6	10.0	15.8	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1463	0.1771	0.0500	12.1	10.0	21.0*	20.0
Terphenyl-d14 (Surr)	Ave	0.7870	0.9254	0.0500	11.8	10.0	17.6	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411011.D
Lims ID: icv tcl
Client ID:
Inject. Date: 11-Apr-2013 21:43:30
Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018790-011
Misc. Info.: ICV TCL
Operator: 001710
Instrument ID: A4HP10
Injection Vol: 1.0 ul
ALS Bottle#: 11
Lims Batch ID: 81609
Lims Sample ID: 11
Sublist:
Detector: MS SCAN

Method: \\NCChrom\ChromData\A4HP10\20130411-18790.b\8270_10.m
Last Update: 12-Apr-2013 09:42:43
Calib Date: 12-Apr-2013 00:58:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: 5% phenyl
Column Dia: 0.18 mm
Process Host: XAWRK010

First Level Reviewer: gruberj
Date: 12-Apr-2013 08:38:25

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.954	5.954	0.0	98	174408	4.00	
* 2 Naphthalene-d8	136	7.064	7.064	0.0	100	682302	4.00	
* 3 Acenaphthene-d10	164	8.568	8.568	0.0	95	409364	4.00	
* 4 Phenanthrene-d10	188	9.837	9.837	0.0	98	751682	4.00	
* 5 Chrysene-d12	240	12.446	12.446	0.0	78	793717	4.00	
* 6 Perylene-d12	264	14.573	14.567	0.006	94	637005	4.00	
$ 7 2-Fluorophenol	112	4.708	4.708	0.0	94	582627	11.5	
$ 8 Phenol-d5	99	5.589	5.589	0.0	80	781485	11.6	
$ 9 Nitrobenzene-d5	82	6.435	6.436	-0.001	89	737246	11.6	
$ 10 2-Fluorobiphenyl (Surr)	172	7.975	7.975	0.0	99	1528091	11.6	
$ 11 2,4,6-Tribromophenol	330	9.238	9.238	0.0	91	181250	12.1	
$ 12 Terphenyl-d14	244	11.212	11.212	0.0	99	1836258	11.8	
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
247 Hexadecane	57		0.000					
25 1,4-Dioxane	88	2.610	2.611	-0.001	98	243879	10.2	M
26 N-Nitrosodimethylamine	74	3.075	3.075	0.0	88	306779	10.6	M
27 Pyridine	79	3.127	3.128	-0.001	89	600651	11.1	M
41 Benzaldehyde	77	5.560	5.560	0.0	90	1003924	21.2	
43 Phenol	94	5.601	5.601	0.0	94	718081	10.9	
44 Aniline	93	5.648	5.648	0.0	95	877552	10.8	
45 Bis(2-chloroethyl)ether	93	5.701	5.701	0.0	95	543231	10.6	
47 2-Chlorophenol	128	5.754	5.754	0.0	97	569123	10.7	
48 1,3-Dichlorobenzene	146	5.901	5.901	0.0	96	621585	10.8	
49 1,4-Dichlorobenzene	146	5.965	5.965	0.0	92	643719	10.9	
50 Benzyl alcohol	108	6.059	6.059	0.0	89	377820	11.2	
51 1,2-Dichlorobenzene	146	6.101	6.101	-0.001	94	606087	10.8	
52 2-Methylphenol	108	6.142	6.142	0.0	98	534199	11.1	
53 Indene	115	6.183	6.183	0.0	74	2134326	21.5	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
54 2,2'-oxybis[1-chloropropane]	45	6.177	6.183	-0.006	25	723739	9.25	M
56 3 & 4 Methylphenol	108	6.277	6.277	0.0	94	561909	11.2	
57 N-Nitrosodi-n-propylamine	70	6.289	6.289	0.0	91	388763	10.8	
58 Acetophenone	105	6.300	6.300	0.0	85	811616	10.8	
61 Hexachloroethane	117	6.406	6.406	0.0	93	244748	10.8	
62 Nitrobenzene	77	6.453	6.453	0.0	87	629202	10.8	
64 Isophorone	82	6.653	6.653	0.0	96	1170378	11.2	
66 2-Nitrophenol	139	6.729	6.729	0.0	96	308487	11.1	
65 2,4-Dimethylphenol	107	6.741	6.741	0.0	95	557668	10.5	
70 Benzoic acid	122	6.800	6.794	0.006	85	721477	23.2	
69 Bis(2-chloroethoxy)methane	93	6.829	6.829	0.0	94	650936	10.6	
72 2,4-Dichlorophenol	162	6.929	6.929	0.0	95	481015	11.0	
73 1,2,4-Trichlorobenzene	180	7.011	7.011	0.0	91	555823	10.9	
74 Naphthalene	128	7.082	7.082	0.0	98	1708513	10.8	
75 4-Chloroaniline	127	7.117	7.117	0.0	84	702662	10.7	
78 Hexachlorobutadiene	225	7.182	7.182	0.0	92	328724	10.5	
83 Caprolactam	113	7.405	7.405	0.0	74	324367	21.7	
85 4-Chloro-3-methylphenol	107	7.511	7.511	0.0	94	517744	11.1	
87 2-Methylnaphthalene	142	7.675	7.675	0.0	86	1134309	10.7	
88 1-Methylnaphthalene	142	7.763	7.758	0.005	80	1036661	10.4	
89 Hexachlorocyclopentadiene	237	7.804	7.805	-0.001	95	374425	11.5	
92 1,2,4,5-Tetrachlorobenzene	216	7.816	7.816	0.0	96	592310	10.9	
93 2,4,6-Trichlorophenol	196	7.904	7.904	0.0	92	382155	11.3	
94 2,4,5-Trichlorophenol	196	7.934	7.934	0.0	95	391764	11.2	
98 1,1'-Biphenyl	154	8.069	8.069	0.0	96	1425313	10.8	
100 2-Chloronaphthalene	162	8.092	8.092	0.0	97	1100469	10.9	
102 2-Nitroaniline	65	8.163	8.163	0.0	80	355508	11.5	
105 Dimethyl phthalate	163	8.310	8.310	0.0	99	1258138	11.0	
106 1,3-Dinitrobenzene	168	8.339	8.339	0.0	83	212327	11.0	
107 2,6-Dinitrotoluene	165	8.363	8.363	0.0	92	294293	11.8	
109 Acenaphthylene	152	8.451	8.451	0.0	91	1817272	11.3	
110 3-Nitroaniline	138	8.515	8.510	0.005	95	316355	10.5	
112 Acenaphthene	153	8.598	8.598	0.0	92	1207719	10.8	
111 2,4-Dinitrophenol	184	8.598	8.598	0.0	71	403132	21.5	
113 4-Nitrophenol	109	8.627	8.627	0.0	94	372100	21.7	
114 2,4-Dinitrotoluene	165	8.709	8.709	0.0	84	383932	10.4	
116 Dibenzofuran	168	8.745	8.745	-0.001	88	1641946	10.9	
119 2,3,4,6-Tetrachlorophenol	232	8.833	8.833	0.0	73	348759	11.4	
121 Diethyl phthalate	149	8.903	8.903	0.0	97	1290988	10.9	
123 4-Chlorophenyl phenyl ether	204	9.021	9.021	0.0	89	712225	11.1	
125 4-Nitroaniline	138	9.032	9.033	-0.001	60	329084	11.7	
126 Fluorene	166	9.032	9.033	-0.001	81	1370454	11.2	
128 4,6-Dinitro-2-methylphenol	198	9.056	9.056	0.0	85	554512	21.7	
129 N-Nitrosodiphenylamine	169	9.121	9.115	0.006	98	1957603	22.0	
131 1,2-Diphenylhydrazine	77	9.156	9.156	0.0	96	1340206	11.2	
132 Azobenzene	77	9.156	9.156	0.0	100	1340261	11.2	
139 4-Bromophenyl phenyl ether	248	9.438	9.438	0.0	66	373402	11.1	
141 Hexachlorobenzene	284	9.502	9.503	-0.001	88	380531	11.2	
142 Atrazine	200	9.555	9.555	0.0	94	769187	22.8	
144 Pentachlorophenol	266	9.661	9.661	0.0	89	538173	22.0	
149 Phenanthrene	178	9.861	9.861	0.0	97	1898222	10.9	
150 Anthracene	178	9.902	9.902	0.0	98	1987165	11.5	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
152 Carbazole	167	10.025	10.026	-0.001	83	1738202	10.9	
155 Di-n-butyl phthalate	149	10.290	10.290	0.0	100	2180822	11.2	
160 Fluoranthene	202	10.877	10.877	0.0	98	2246664	10.9	
161 Benzidine	184	10.977	10.977	0.0	99	2038343	24.7	
162 Pyrene	202	11.095	11.095	0.0	97	2323835	11.3	
170 Butyl benzyl phthalate	149	11.712	11.712	0.0	97	956621	12.2	
177 3,3'-Dichlorobenzidine	252	12.376	12.376	0.0	68	1544473	23.8	
175 Bis(2-ethylhexyl) phthalate	149	12.405	12.405	0.0	96	1306905	11.9	
179 Benzo[a]anthracene	228	12.428	12.429	-0.001	96	2234019	11.3	
180 Chrysene	228	12.481	12.481	0.0	94	2104718	11.6	
182 Di-n-octyl phthalate	149	13.345	13.345	0.0	99	2094192	10.6	
184 Benzo[b]fluoranthene	252	13.980	13.974	0.006	94	1966382	11.5	
185 Benzo[k]fluoranthene	252	14.021	14.015	0.006	98	2130563	11.5	
186 Benzo[a]pyrene	252	14.485	14.485	0.0	76	1880307	11.8	
190 Indeno[1,2,3-cd]pyrene	276	16.277	16.277	0.0	94	1926160	11.1	
191 Dibenz(a,h)anthracene	278	16.312	16.306	0.006	79	1689628	11.6	
192 Benzo[g,h,i]perylene	276	16.747	16.747	0.0	95	1653907	11.1	

QC Flag Legend

Review Flags
M - Manually Integrated

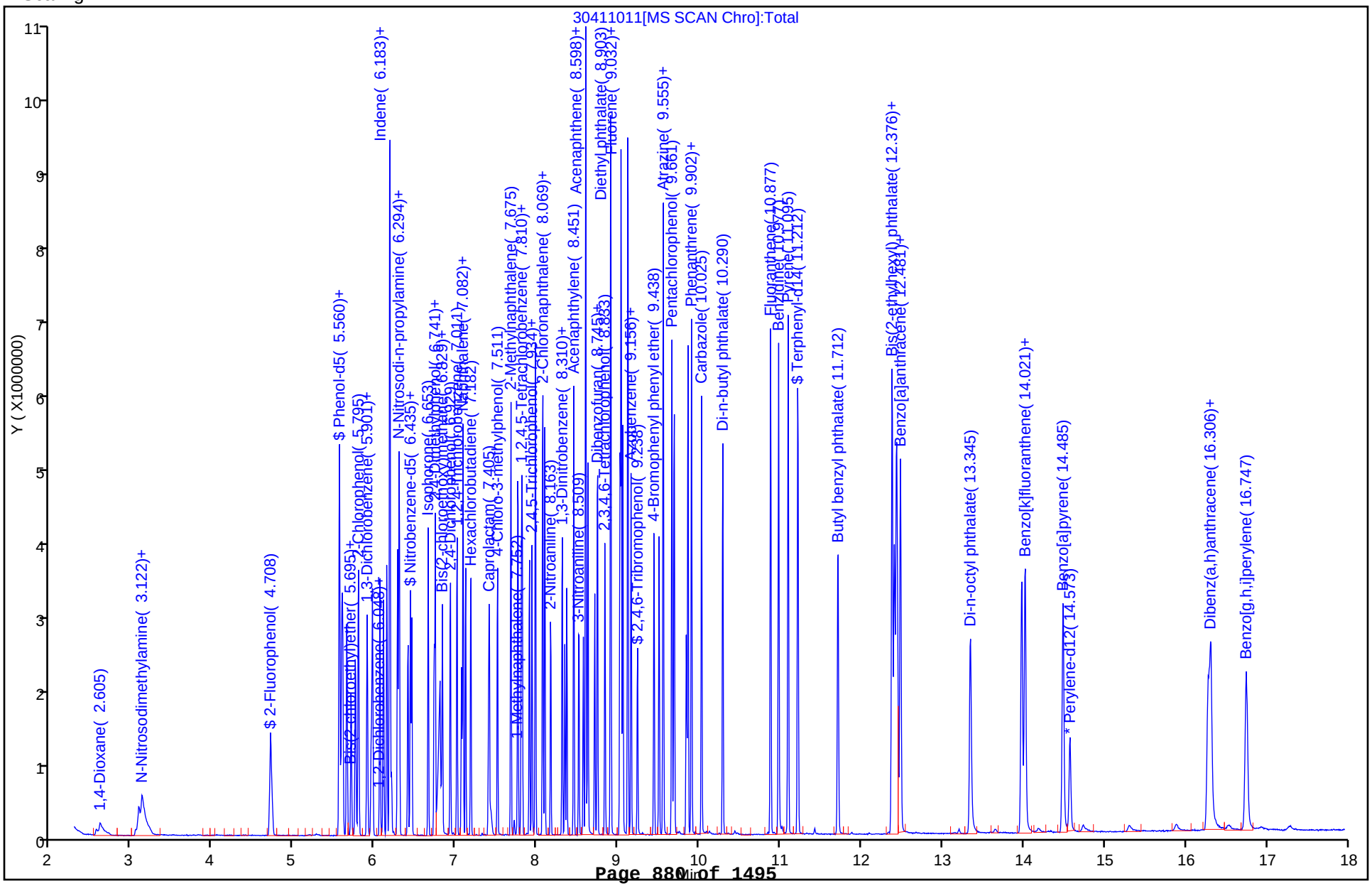
Report Date: 12-Apr-2013 09:42:47 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411011.D

Injection Date:	11-Apr-2013 21:43:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

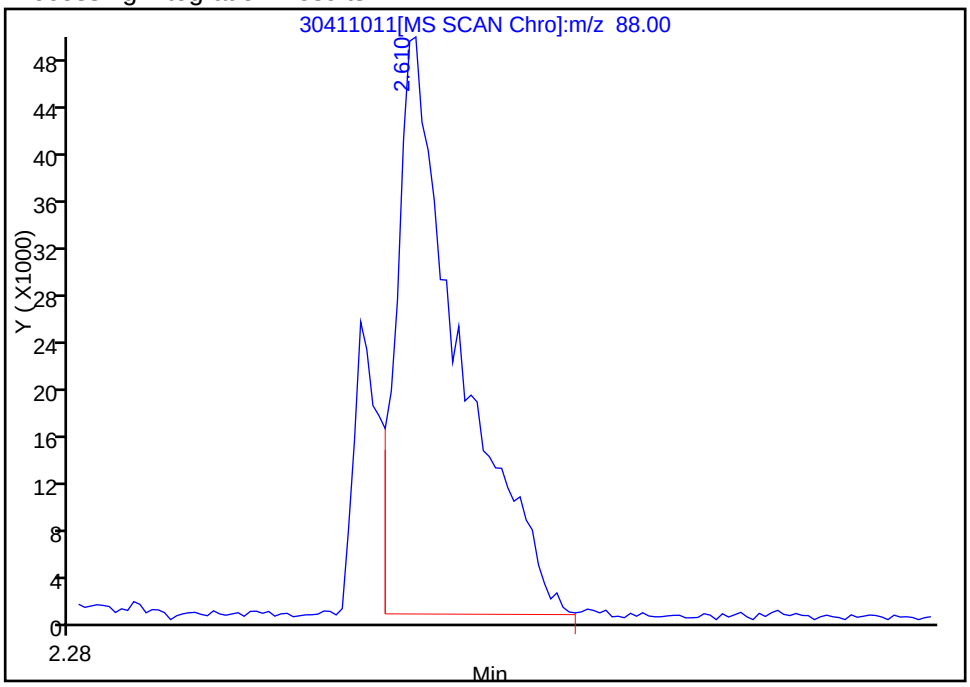
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411011.D		
Injection Date:	11-Apr-2013 21:43:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

25 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 2.61

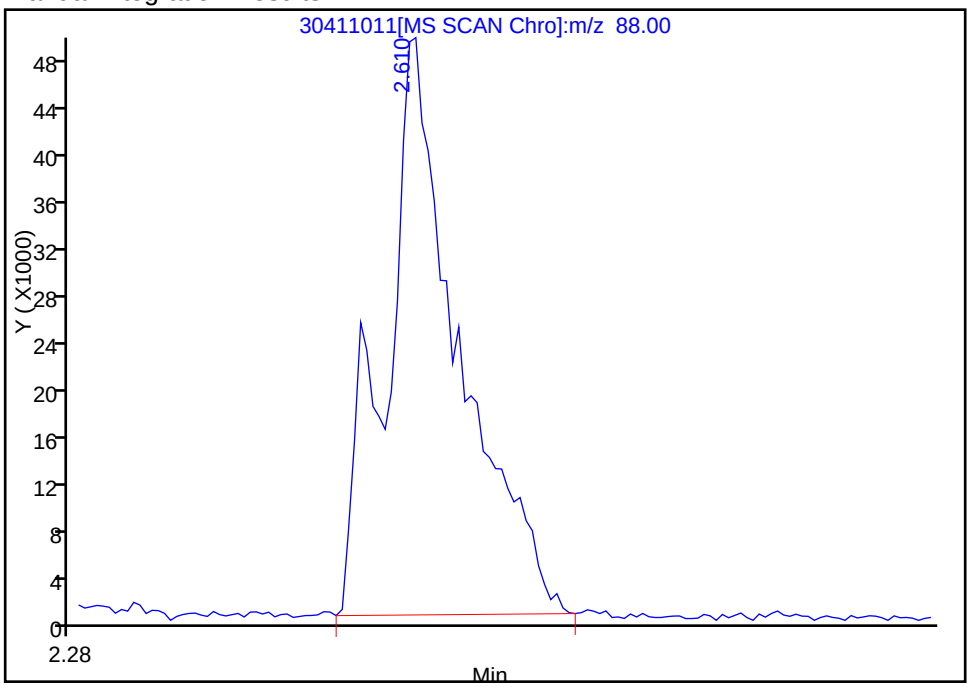
Processing Integration Results

RT: 2.61
Response: 207179
Amount: 8.619082



Manual Integration Results

RT: 2.61
Response: 243879
Amount: 10.180319



Reviewer: gruberj, 12-Apr-2013 09:27:27
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

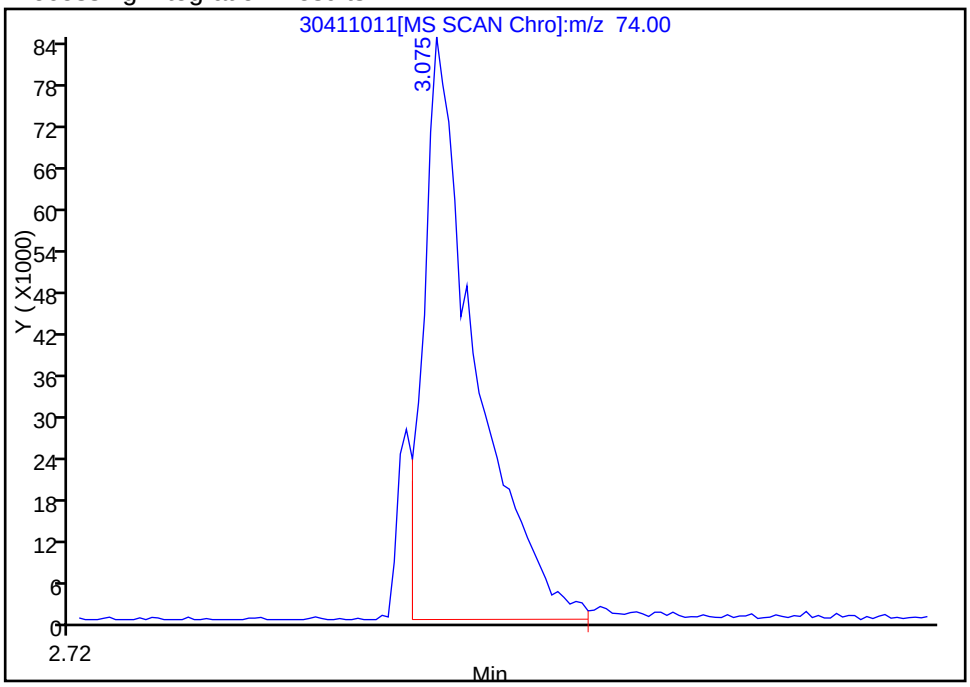
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411011.D		
Injection Date:	11-Apr-2013 21:43:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

26 N-Nitrosodimethylamine, Signal: 1, m/z: 74.0 Type: quant, RT: 3.07

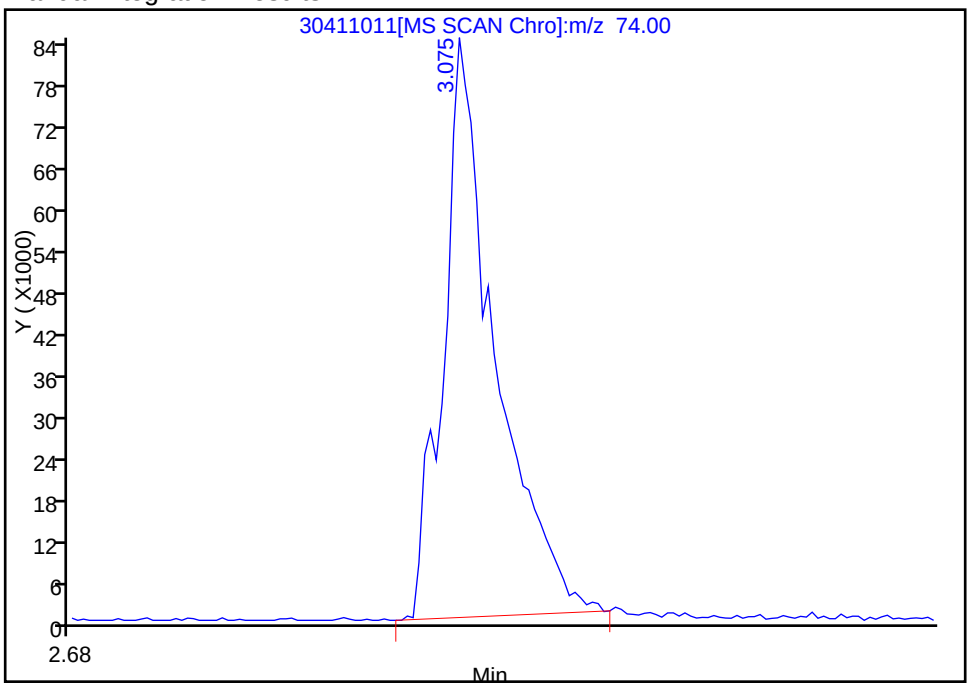
Processing Integration Results

RT: 3.07
Response: 293581
Amount: 10.097692



Manual Integration Results

RT: 3.07
Response: 306779
Amount: 10.551636



Reviewer: gruberj, 12-Apr-2013 09:27:27
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

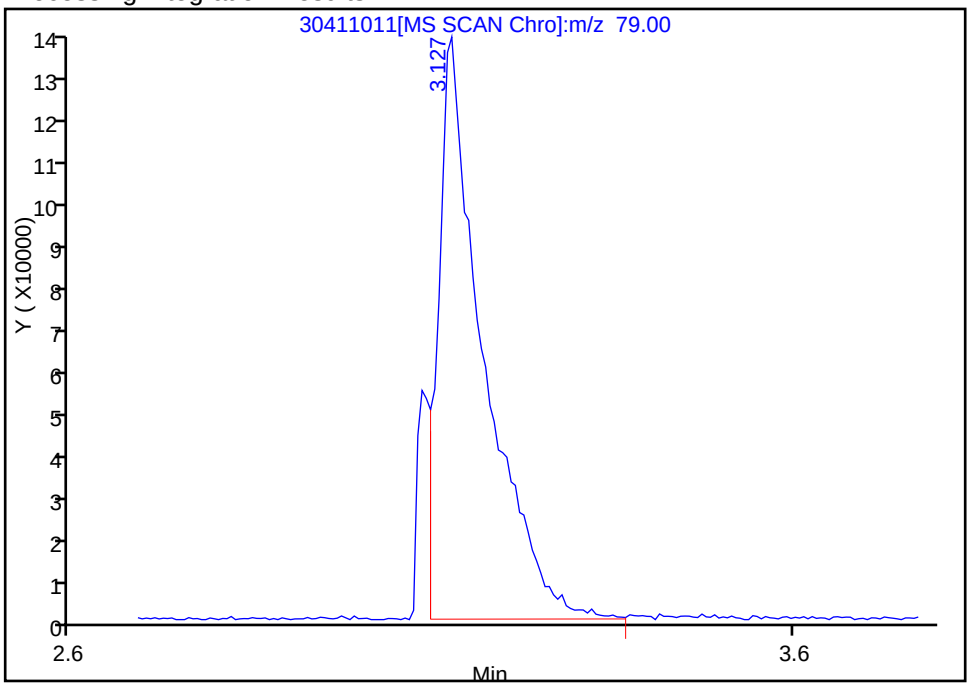
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411011.D		
Injection Date:	11-Apr-2013 21:43:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

27 Pyridine, Signal: 1, m/z: 79.0 Type: quant, RT: 3.13

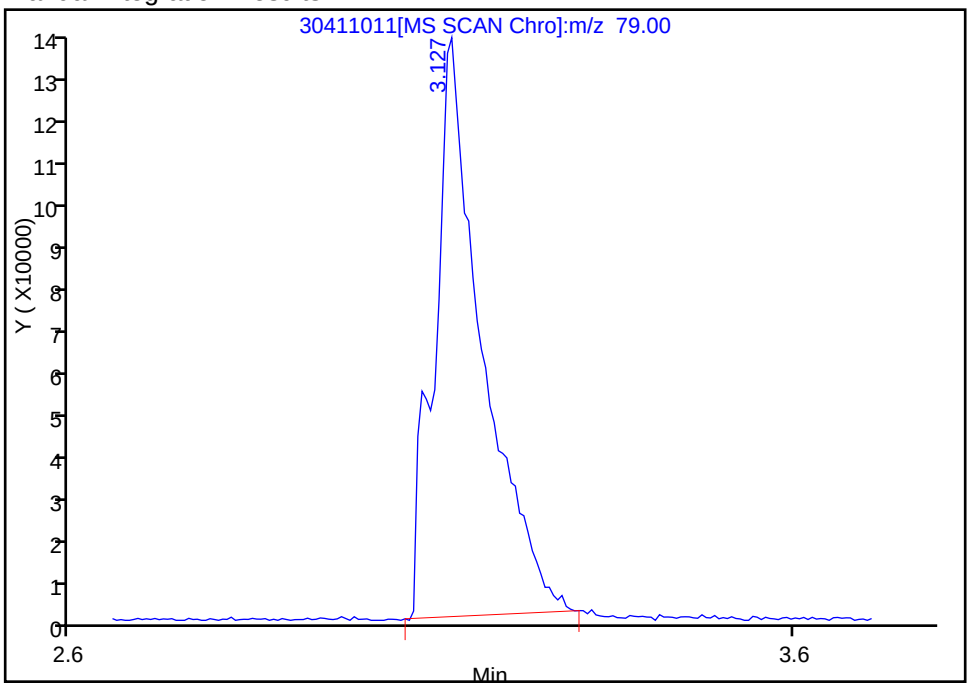
Processing Integration Results

RT: 3.13
Response: 570588
Amount: 10.581218



Manual Integration Results

RT: 3.13
Response: 600651
Amount: 11.138719



Reviewer: gruberj, 12-Apr-2013 09:27:27
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

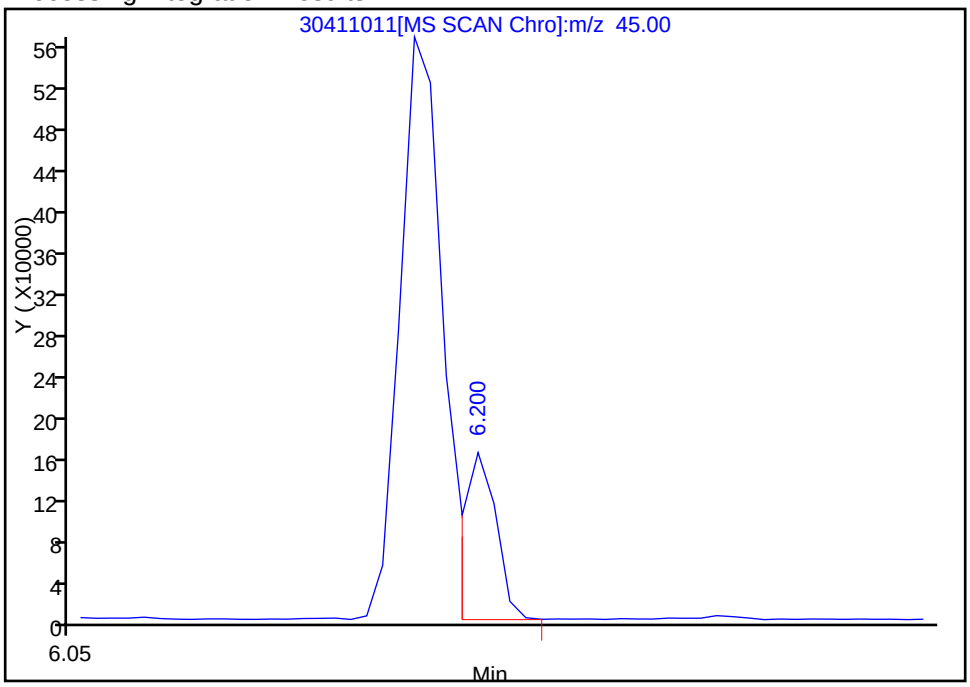
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411011.D		
Injection Date:	11-Apr-2013 21:43:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	11
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

54 2,2'-oxybis[1-chloropropane], Signal: 1, m/z: 45.0 Type: quant, RT: 6.18

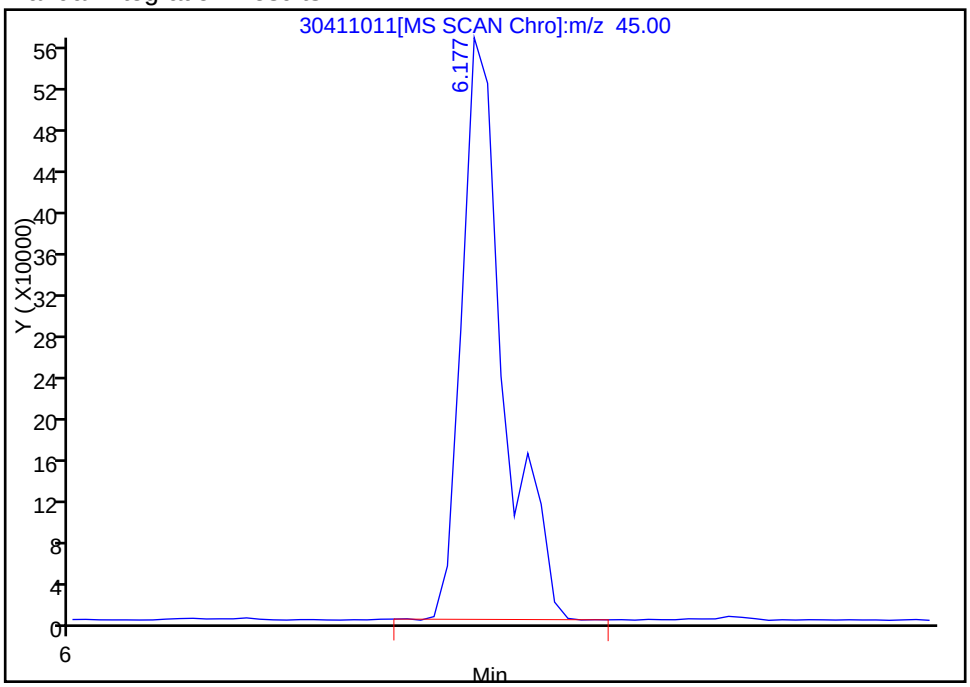
Processing Integration Results

RT: 6.20
Response: 140012
Amount: 1.789094



Manual Integration Results

RT: 6.18
Response: 723739
Amount: 9.248044



Reviewer: gruberj, 12-Apr-2013 09:27:27
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82653/2 Calibration Date: 04/19/2013 10:43

Instrument ID: A4HP10 Calib Start Date: 04/11/2013 18:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/11/2013 21:19

Lab File ID: 30419002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Lin1		0.5343	0.0500	9.72	10.0	-2.8	20.0
N-Nitrosodimethylamine	Ave	0.6668	0.7280	0.0500	10.9	10.0	9.2	20.0
Pyridine	Ave	1.237	1.322	0.0500	10.7	10.0	6.9	20.0
Benzaldehyde	Ave	1.088	1.051	0.0500	19.3	20.0	-3.4	20.0
Phenol	Ave	1.517	1.569	0.0500	10.3	10.0	3.4	20.0
Aniline	Ave	1.869	1.950	0.0500	10.4	10.0	4.4	20.0
Bis(2-chloroethyl)ether	Ave	1.174	1.223	0.0500	10.4	10.0	4.2	20.0
2-Chlorophenol	Ave	1.223	1.228	0.0500	10.0	10.0	0.3	20.0
1,3-Dichlorobenzene	Ave	1.322	1.363	0.0500	10.3	10.0	3.0	20.0
1,4-Dichlorobenzene	Ave	1.349	1.370	0.0500	10.2	10.0	1.5	20.0
Benzyl alcohol	Ave	0.7768	0.7042	0.0500	9.07	10.0	-9.3	20.0
1,2-Dichlorobenzene	Ave	1.287	1.323	0.0500	10.3	10.0	2.8	20.0
2-Methylphenol	Ave	1.105	1.081	0.0500	9.79	10.0	-2.1	20.0
bis (2-chloroisopropyl) ether	Ave	1.795	1.569	0.0500	8.74	10.0	-12.6	20.0
3 & 4 Methylphenol	Ave	1.151	1.171	0.0500	10.2	10.0	1.8	20.0
N-Nitrosodi-n-propylamine	Ave	0.8241	0.8202	0.0500	9.95	10.0	-0.5	20.0
Acetophenone	Ave	1.716	1.682	0.0500	9.80	10.0	-2.0	20.0
Hexachloroethane	Ave	0.5215	0.5240	0.0500	10.0	10.0	0.5	20.0
Nitrobenzene	Ave	0.3401	0.3347	0.0500	9.84	10.0	-1.6	20.0
Isophorone	Ave	0.6103	0.6077	0.0500	9.96	10.0	-0.4	20.0
2-Nitrophenol	Ave	0.1624	0.1567	0.0500	9.65	10.0	-3.5	20.0
2,4-Dimethylphenol	Ave	0.3114	0.2737	0.0500	8.79	10.0	-12.1	20.0
Benzoic acid	Qua		0.1583	0.0500	18.0	20.0	-9.9	20.0
Bis(2-chloroethoxy)methane	Ave	0.3595	0.3728	0.0500	10.4	10.0	3.7	20.0
2,4-Dichlorophenol	Ave	0.2560	0.2638	0.0500	10.3	10.0	3.0	20.0
1,2,4-Trichlorobenzene	Ave	0.2998	0.2835	0.0500	9.45	10.0	-5.5	20.0
Naphthalene	Ave	0.9279	0.8963	0.0500	9.66	10.0	-3.4	20.0
4-Chloroaniline	Ave	0.3867	0.3823	0.0500	9.89	10.0	-1.1	20.0
Hexachlorobutadiene	Ave	0.1834	0.1559	0.0500	8.50	10.0	-15.0	20.0
Caprolactam	Ave	0.0877	0.0981	0.0500	22.4	20.0	11.9	20.0
4-Chloro-3-methylphenol	Ave	0.2736	0.2572	0.0500	9.40	10.0	-6.0	20.0
2-Methylnaphthalene	Ave	0.6242	0.5961	0.0500	9.55	10.0	-4.5	20.0
1-Methylnaphthalene	Ave	0.5854	0.5567	0.0500	9.51	10.0	-4.9	20.0
Hexachlorocyclopentadiene	Ave	0.3175	0.2793	0.0500	8.80	10.0	-12.0	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5309	0.4744	0.0500	8.93	10.0	-10.7	20.0
2,4,6-Trichlorophenol	Ave	0.3299	0.3197	0.0500	9.69	10.0	-3.1	20.0
2,4,5-Trichlorophenol	Ave	0.3422	0.3365	0.0500	9.83	10.0	-1.7	20.0
1,1'-Biphenyl	Ave	1.293	1.168	0.0500	9.03	10.0	-9.7	20.0
2-Chloronaphthalene	Ave	0.9841	0.9685	0.0500	9.84	10.0	-1.6	20.0
2-Nitroaniline	Ave	0.3026	0.3005	0.0500	9.93	10.0	-0.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82653/2 Calibration Date: 04/19/2013 10:43

Instrument ID: A4HP10 Calib Start Date: 04/11/2013 18:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/11/2013 21:19

Lab File ID: 30419002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dimethyl phthalate	Ave	1.118	1.125	0.0500	10.1	10.0	0.6	20.0
2,6-Dinitrotoluene	Ave	0.2443	0.2458	0.0500	10.1	10.0	0.6	20.0
Acenaphthylene	Ave	1.567	1.498	0.0500	9.56	10.0	-4.4	20.0
3-Nitroaniline	Lin1		0.2840	0.0500	9.63	10.0	-3.7	20.0
Acenaphthene	Ave	1.089	0.9465	0.0500	8.69	10.0	-13.1	20.0
2,4-Dinitrophenol	Qua		0.1681	0.0500	18.8	20.0	-6.1	20.0
4-Nitrophenol	Lin1		0.1503	0.0500	18.0	20.0	-9.8	20.0
2,4-Dinitrotoluene	Lin1		0.3387	0.0500	9.39	10.0	-6.1	20.0
Dibenzofuran	Ave	1.468	1.370	0.0500	9.33	10.0	-6.7	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2989	0.2706	0.0500	9.05	10.0	-9.5	20.0
Diethyl phthalate	Ave	1.155	1.073	0.0500	9.29	10.0	-7.1	20.0
4-Chlorophenyl phenyl ether	Ave	0.6282	0.5466	0.0500	8.70	10.0	-13.0	20.0
4-Nitroaniline	Ave	0.2737	0.2765	0.0500	10.1	10.0	1.0	20.0
Fluorene	Ave	1.193	1.133	0.0500	9.50	10.0	-5.0	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1295	0.0500	19.1	20.0	-4.4	20.0
N-Nitrosodiphenylamine	Ave	0.4728	0.4865	0.0500	20.6	20.0	2.9	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	0.6357	0.7061	0.0500	11.1	10.0	11.1	20.0
Azobenzene	Ave	0.6357	0.7064	0.0500	11.1	10.0	11.1	20.0
4-Bromophenyl phenyl ether	Ave	0.1784	0.1762	0.0500	9.88	10.0	-1.2	20.0
Hexachlorobenzene	Ave	0.1808	0.1806	0.0500	9.99	10.0	-0.1	20.0
Atrazine	Ave	0.1794	0.1784	0.0500	19.9	20.0	-0.6	20.0
Pentachlorophenol	Lin1		0.1264	0.0500	19.5	20.0	-2.7	20.0
Phenanthrene	Ave	0.9275	0.9554	0.0500	10.3	10.0	3.0	20.0
Anthracene	Ave	0.9222	0.9771	0.0500	10.6	10.0	6.0	20.0
Carbazole	Ave	0.8498	0.8582	0.0500	10.1	10.0	1.0	20.0
Di-n-butyl phthalate	Ave	1.040	1.146	0.0500	11.0	10.0	10.2	20.0
Fluoranthene	Ave	1.094	1.066	0.0500	9.74	10.0	-2.6	20.0
Benzidine	Ave	0.4158	0.3483	0.0500	16.8	20.0	-16.2	20.0
Pyrene	Ave	1.033	0.9780	0.0500	9.47	10.0	-5.3	20.0
Butyl benzyl phthalate	Ave	0.3936	0.4252	0.0500	10.8	10.0	8.1	20.0
3,3'-Dichlorobenzidine	Ave	0.3264	0.3176	0.0500	19.5	20.0	-2.7	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5537	0.6119	0.0500	11.1	10.0	10.5	20.0
Benzo[a]anthracene	Ave	0.995	0.9057	0.0500	9.10	10.0	-9.0	20.0
Chrysene	Ave	0.9135	0.8643	0.0500	9.46	10.0	-5.4	20.0
Di-n-octyl phthalate	Lin1		1.319	0.0500	10.6	10.0	6.2	20.0
Benzo[b]fluoranthene	Ave	1.074	1.066	0.0500	9.93	10.0	-0.7	20.0
Benzo[k]fluoranthene	Ave	1.168	1.218	0.0500	10.4	10.0	4.3	20.0
Benzo[a]pyrene	Ave	0.997	1.040	0.0500	10.4	10.0	4.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.093	1.141	0.0500	10.4	10.0	4.4	20.0
Dibenz(a,h)anthracene	Ave	0.9115	0.9406	0.0500	10.3	10.0	3.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82653/2 Calibration Date: 04/19/2013 10:43

Instrument ID: A4HP10 Calib Start Date: 04/11/2013 18:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/11/2013 21:19

Lab File ID: 30419002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[g,h,i]perylene	Ave	0.9331	0.9715	0.0500	10.4	10.0	4.1	20.0
2-Fluorophenol (Surr)	Ave	1.157	1.219	0.0500	10.5	10.0	5.3	20.0
Phenol-d5 (Surr)	Ave	1.542	1.574	0.0500	10.2	10.0	2.0	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3740	0.3582	0.0500	9.58	10.0	-4.2	20.0
2-Fluorobiphenyl (Surr)	Ave	1.290	1.166	0.0500	9.04	10.0	-9.6	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1463	0.1336	0.0500	9.13	10.0	-8.7	20.0
Terphenyl-d14 (Surr)	Ave	0.7870	0.6749	0.0500	8.57	10.0	-14.3	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419002.D
Lims ID: ccv tcl
Client ID:
Inject. Date: 19-Apr-2013 10:43:30
Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0019044-002
Misc. Info.: CCV TCL
Operator: 001710
Instrument ID: A4HP10
Injection Vol: 1.0 ul
ALS Bottle#: 2
Lims Batch ID: 82653
Lims Sample ID: 2
Sublist: chrom-8270_10*sub27
Detector: MS SCAN

Method: \\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m
Last Update: 22-Apr-2013 13:55:06
Calib Date: 12-Apr-2013 00:58:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: 5% phenyl
Column Dia: 0.18 mm
Process Host: XAWRK022

First Level Reviewer: gruberj
Date: 19-Apr-2013 11:03:10

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.848	5.848	0.0	100	180332	4.00	
* 2 Naphthalene-d8	136	6.970	6.970	0.0	100	716586	4.00	
* 3 Acenaphthene-d10	164	8.475	8.475	0.0	89	435260	4.00	
* 4 Phenanthrene-d10	188	9.738	9.738	0.0	97	731402	4.00	
* 5 Chrysene-d12	240	12.294	12.294	0.0	72	820265	4.00	
* 6 Perylene-d12	264	14.368	14.368	0.0	78	618789	4.00	
$ 7 2-Fluorophenol	112	4.573	4.573	0.0	92	549400	10.5	
$ 8 Phenol-d5	99	5.490	5.490	0.0	94	709409	10.2	
$ 9 Nitrobenzene-d5	82	6.336	6.336	0.0	89	641672	9.58	
$ 10 2-Fluorobiphenyl (Surr)	172	7.887	7.887	0.0	100	1269191	9.04	
$ 11 2,4,6-Tribromophenol	330	9.144	9.144	0.0	91	145372	9.13	
$ 12 Terphenyl-d14	244	11.101	11.101	0.0	98	1383882	8.57	
247 Hexadecane	57		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
25 1,4-Dioxane	88	2.305	2.305	0.0	96	240875	9.72	M
26 N-Nitrosodimethylamine	74	2.746	2.746	0.0	85	328181	10.9	M
27 Pyridine	79	2.799	2.799	0.0	93	596154	10.7	M
41 Benzaldehyde	77	5.449	5.449	0.0	92	947767	19.3	
43 Phenol	94	5.502	5.502	0.0	99	707190	10.3	
44 Aniline	93	5.543	5.543	0.0	98	879130	10.4	
45 Bis(2-chloroethyl)ether	93	5.601	5.601	0.0	98	551579	10.4	
47 2-Chlorophenol	128	5.648	5.648	0.0	97	553429	10.0	
48 1,3-Dichlorobenzene	146	5.795	5.795	0.0	97	614330	10.3	
49 1,4-Dichlorobenzene	146	5.866	5.866	0.0	94	617674	10.2	
50 Benzyl alcohol	108	5.960	5.960	0.0	90	317457	9.07	
51 1,2-Dichlorobenzene	146	6.001	6.001	0.0	95	596431	10.3	
52 2-Methylphenol	108	6.054	6.054	0.0	96	487496	9.79	
53 Indene	115	6.077	6.077	0.0	71	2000557	19.5	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
54 2,2'-oxybis[1-chloropropane]	45	6.083	6.083	0.0	91	707227	8.74	
56 3 & 4 Methylphenol	108	6.183	6.183	0.0	94	528130	10.2	
57 N-Nitrosodi-n-propylamine	70	6.195	6.195	0.0	91	369753	9.95	
58 Acetophenone	105	6.201	6.201	0.0	95	758366	9.80	
61 Hexachloroethane	117	6.307	6.307	0.0	96	236238	10.0	
62 Nitrobenzene	77	6.354	6.354	0.0	85	599581	9.84	
64 Isophorone	82	6.559	6.559	0.0	98	1088691	9.96	
66 2-Nitrophenol	139	6.636	6.636	0.0	93	280726	9.65	
65 2,4-Dimethylphenol	107	6.653	6.653	0.0	89	490398	8.79	
70 Benzoic acid	122	6.712	6.712	0.0	83	567138	18.0	M
69 Bis(2-chloroethoxy)methane	93	6.741	6.741	0.0	95	667905	10.4	
72 2,4-Dichlorophenol	162	6.835	6.835	0.0	95	472520	10.3	
73 1,2,4-Trichlorobenzene	180	6.918	6.918	0.0	91	507881	9.45	
74 Naphthalene	128	6.988	6.988	0.0	97	1605624	9.66	
75 4-Chloroaniline	127	7.023	7.023	0.0	92	684900	9.89	
78 Hexachlorobutadiene	225	7.088	7.088	0.0	94	279325	8.50	
83 Caprolactam	113	7.317	7.317	0.0	79	351635	22.4	
85 4-Chloro-3-methylphenol	107	7.423	7.423	0.0	95	460711	9.40	
87 2-Methylnaphthalene	142	7.582	7.582	0.0	88	1067942	9.55	
88 1-Methylnaphthalene	142	7.670	7.670	0.0	81	997226	9.51	
89 Hexachlorocyclopentadiene	237	7.711	7.711	0.0	90	303947	8.80	
92 1,2,4,5-Tetrachlorobenzene	216	7.723	7.723	0.0	95	516188	8.93	
93 2,4,6-Trichlorophenol	196	7.811	7.811	0.0	91	347901	9.69	
94 2,4,5-Trichlorophenol	196	7.846	7.846	0.0	95	366172	9.83	
98 1,1'-Biphenyl	154	7.975	7.975	0.0	95	1271195	9.03	
100 2-Chloronaphthalene	162	7.999	7.999	0.0	95	1053901	9.84	
102 2-Nitroaniline	65	8.075	8.075	0.0	84	326948	9.93	
105 Dimethyl phthalate	163	8.216	8.216	0.0	98	1224325	10.1	
106 1,3-Dinitrobenzene	168	8.251	8.251	0.0	87	192341	9.55	
107 2,6-Dinitrotoluene	165	8.275	8.275	0.0	95	267468	10.1	
109 Acenaphthylene	152	8.357	8.357	0.0	91	1629518	9.56	
110 3-Nitroaniline	138	8.422	8.422	0.0	96	308985	9.63	
112 Acenaphthene	153	8.504	8.504	0.0	89	1029945	8.69	
111 2,4-Dinitrophenol	184	8.510	8.510	0.0	85	365788	18.8	
113 4-Nitrophenol	109	8.539	8.539	0.0	91	327132	18.0	
114 2,4-Dinitrotoluene	165	8.616	8.616	0.0	90	368578	9.39	
116 Dibenzofuran	168	8.645	8.645	0.0	85	1490504	9.33	
119 2,3,4,6-Tetrachlorophenol	232	8.739	8.739	0.0	75	294448	9.05	
121 Diethyl phthalate	149	8.815	8.815	0.0	97	1167930	9.29	
123 4-Chlorophenyl phenyl ether	204	8.927	8.927	0.0	92	594743	8.70	
126 Fluorene	166	8.939	8.939	0.0	82	1233036	9.50	
125 4-Nitroaniline	138	8.939	8.939	0.0	59	300897	10.1	
128 4,6-Dinitro-2-methylphenol	198	8.962	8.962	0.0	86	473545	19.1	
129 N-Nitrosodiphenylamine	169	9.027	9.027	0.0	98	1779247	20.6	
132 Azobenzene	77	9.062	9.062	0.0	98	1291567	11.1	
131 1,2-Diphenylhydrazine	77	9.062	9.062	0.0	95	1291042	11.1	
139 4-Bromophenyl phenyl ether	248	9.344	9.344	0.0	64	322249	9.88	
141 Hexachlorobenzene	284	9.403	9.403	0.0	85	330226	9.99	
142 Atrazine	200	9.462	9.462	0.0	92	652335	19.9	
144 Pentachlorophenol	266	9.567	9.567	0.0	89	462355	19.5	
149 Phenanthrene	178	9.761	9.761	0.0	97	1746928	10.3	
150 Anthracene	178	9.803	9.803	0.0	98	1786695	10.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
152 Carbazole	167	9.932	9.932	0.0	93	1569293	10.1	
155 Di-n-butyl phthalate	149	10.196	10.196	0.0	100	2095189	11.0	
160 Fluoranthene	202	10.772	10.772	0.0	98	1948321	9.74	
161 Benzidine	184	10.872	10.872	0.0	99	1428671	16.8	
162 Pyrene	202	10.984	10.984	0.0	97	2005516	9.47	
170 Butyl benzyl phthalate	149	11.583	11.583	0.0	96	872025	10.8	
177 3,3'-Dichlorobenzidine	252	12.229	12.229	0.0	68	1302410	19.5	
175 Bis(2-ethylhexyl) phthalate	149	12.258	12.258	0.0	96	1254875	11.1	
179 Benzo[a]anthracene	228	12.282	12.282	0.0	87	1857229	9.10	
180 Chrysene	228	12.329	12.329	0.0	92	1772417	9.46	
182 Di-n-octyl phthalate	149	13.175	13.175	0.0	99	2039830	10.6	
184 Benzo[b]fluoranthene	252	13.786	13.786	0.0	92	1648856	9.93	
185 Benzo[k]fluoranthene	252	13.827	13.827	0.0	90	1883707	10.4	
186 Benzo[a]pyrene	252	14.286	14.286	0.0	77	1609342	10.4	
190 Indeno[1,2,3-cd]pyrene	276	16.031	16.031	0.0	95	1765117	10.4	
191 Dibenz(a,h)anthracene	278	16.066	16.066	0.0	87	1455107	10.3	
192 Benzo[g,h,i]perylene	276	16.477	16.477	0.0	92	1502888	10.4	
S 193 Methyl Phenols,Total	100				0		20.0	

QC Flag Legend

Review Flags
M - Manually Integrated

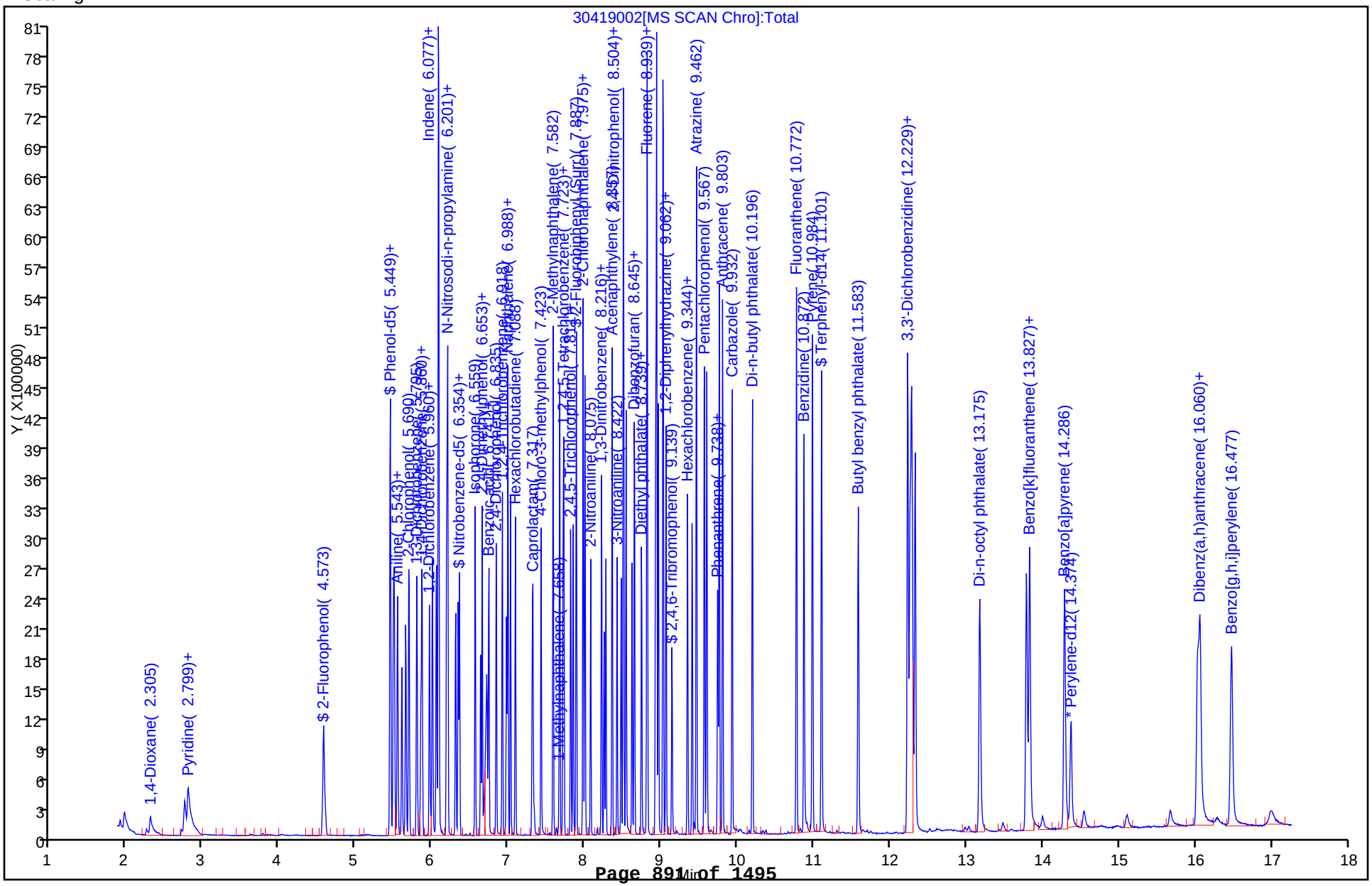
Report Date: 22-Apr-2013 13:55:08 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419002.D

Injection Date:	19-Apr-2013 10:43:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	2
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

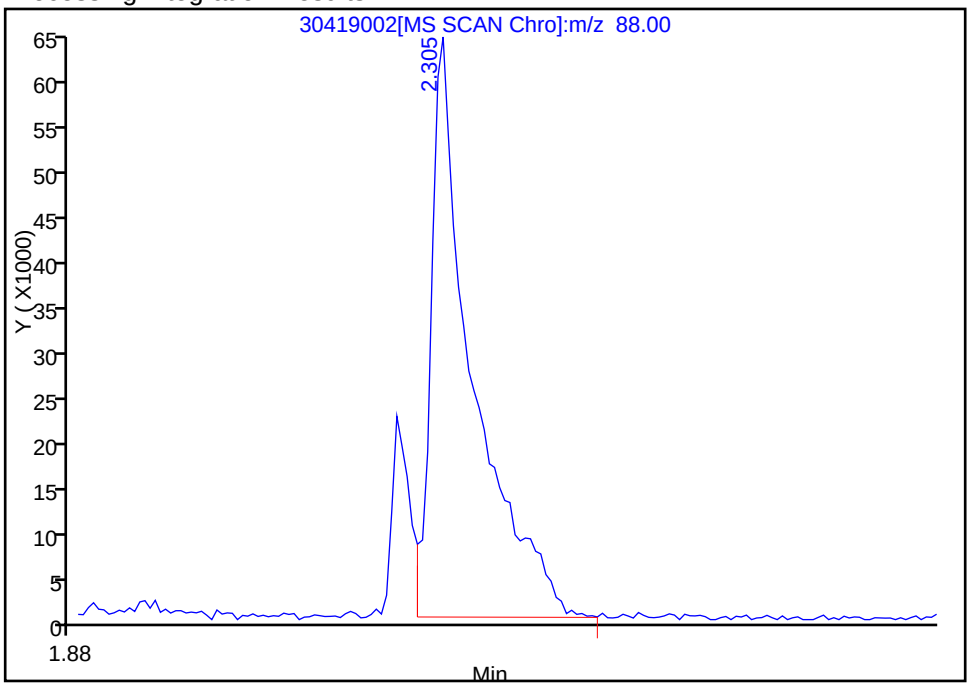
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419002.D		
Injection Date:	19-Apr-2013 10:43:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	2
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

25 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 2.31

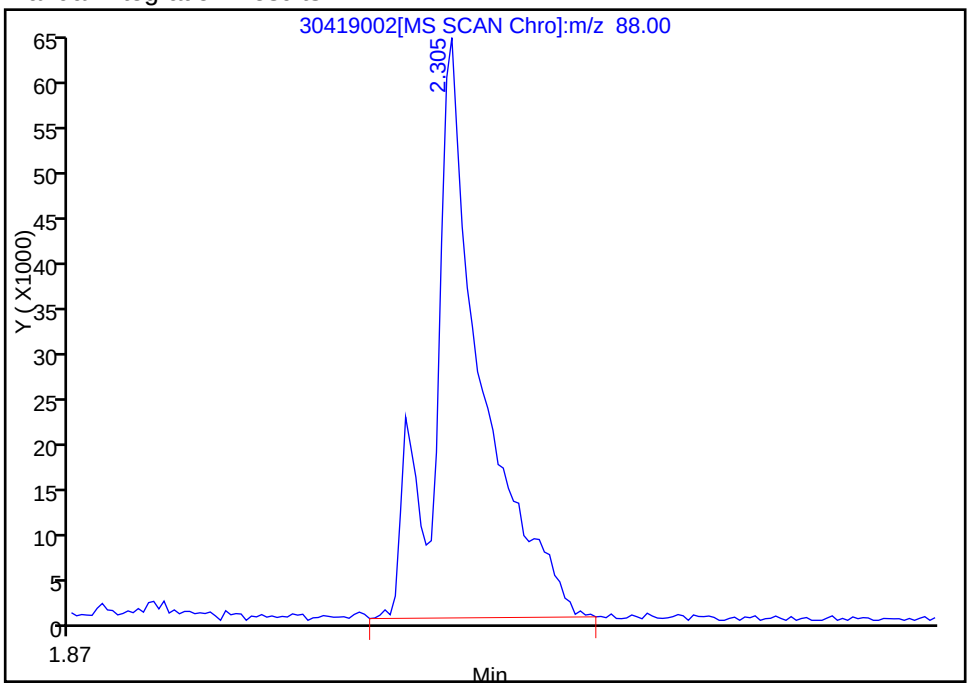
Processing Integration Results

RT: 2.31
Response: 212128
Amount: 8.533171



Manual Integration Results

RT: 2.31
Response: 240875
Amount: 9.715910



Reviewer: gruberj, 19-Apr-2013 11:03:10
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

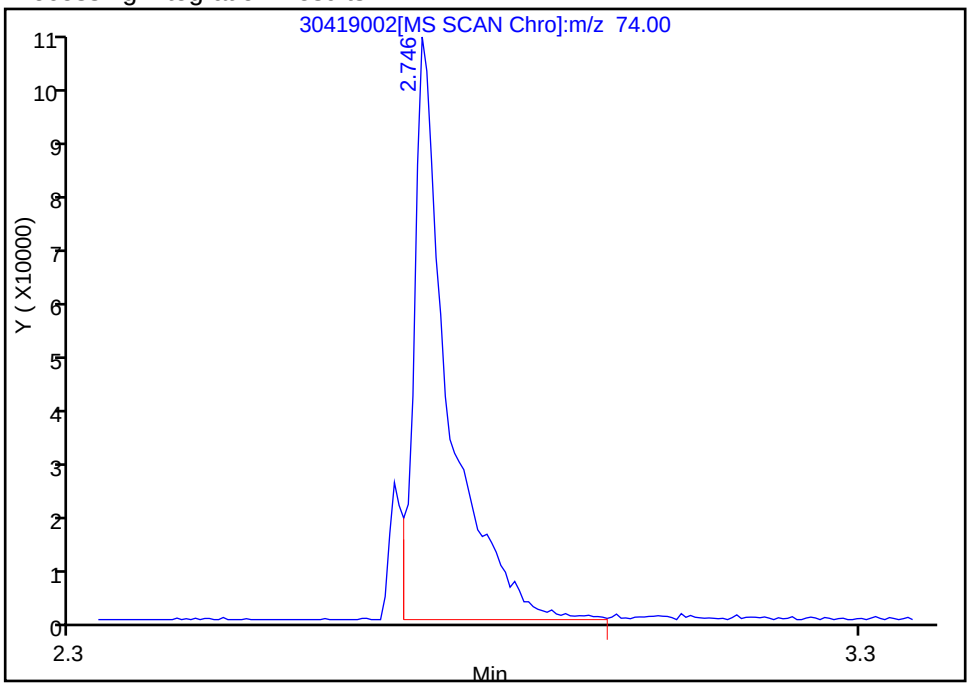
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419002.D		
Injection Date:	19-Apr-2013 10:43:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	2
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

26 N-Nitrosodimethylamine, Signal: 1, m/z: 74.0 Type: quant, RT: 2.75

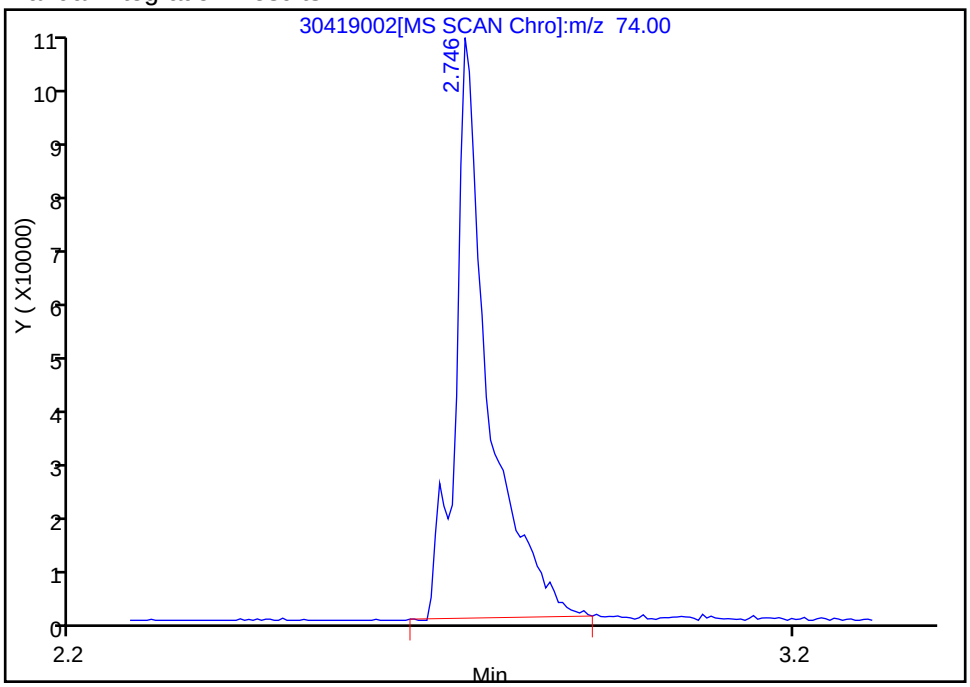
Processing Integration Results

RT: 2.75
Response: 315166
Amount: 10.484003



Manual Integration Results

RT: 2.75
Response: 328181
Amount: 10.916947



Reviewer: gruberj, 19-Apr-2013 11:03:10
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

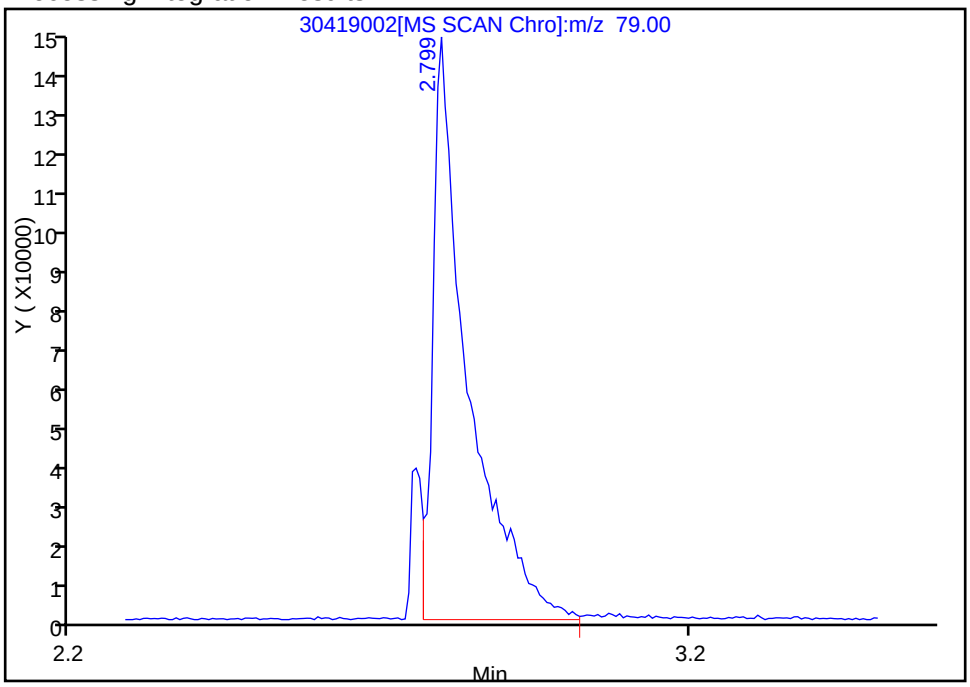
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419002.D		
Injection Date:	19-Apr-2013 10:43:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	2
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

27 Pyridine, Signal: 1, m/z: 79.0 Type: quant, RT: 2.80

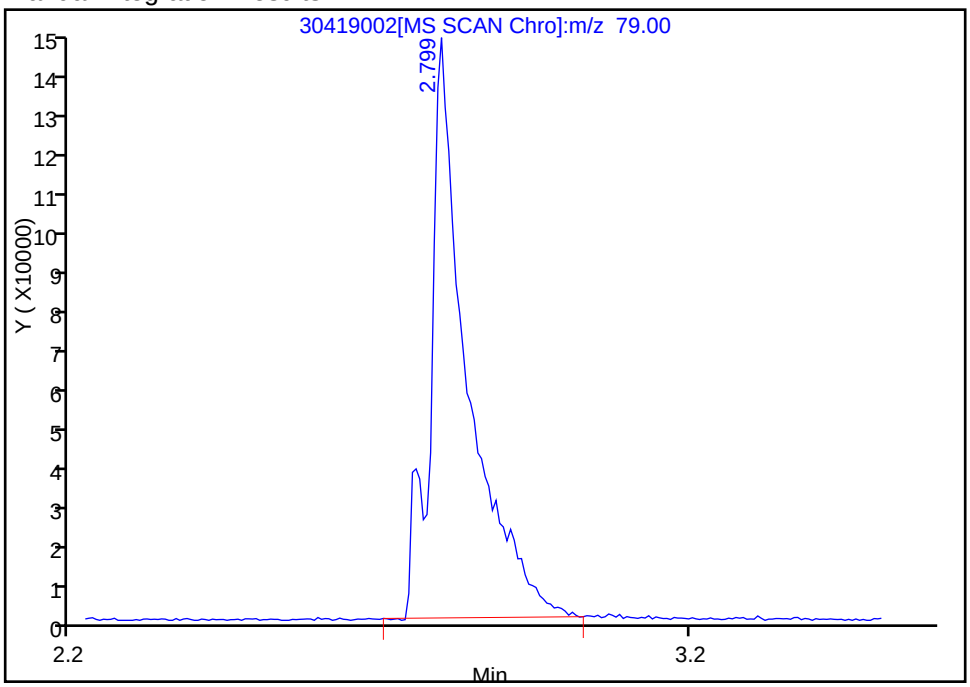
Processing Integration Results

RT: 2.80
Response: 567839
Amount: 10.184316



Manual Integration Results

RT: 2.80
Response: 596154
Amount: 10.692151



Reviewer: gruberj, 19-Apr-2013 11:03:10
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

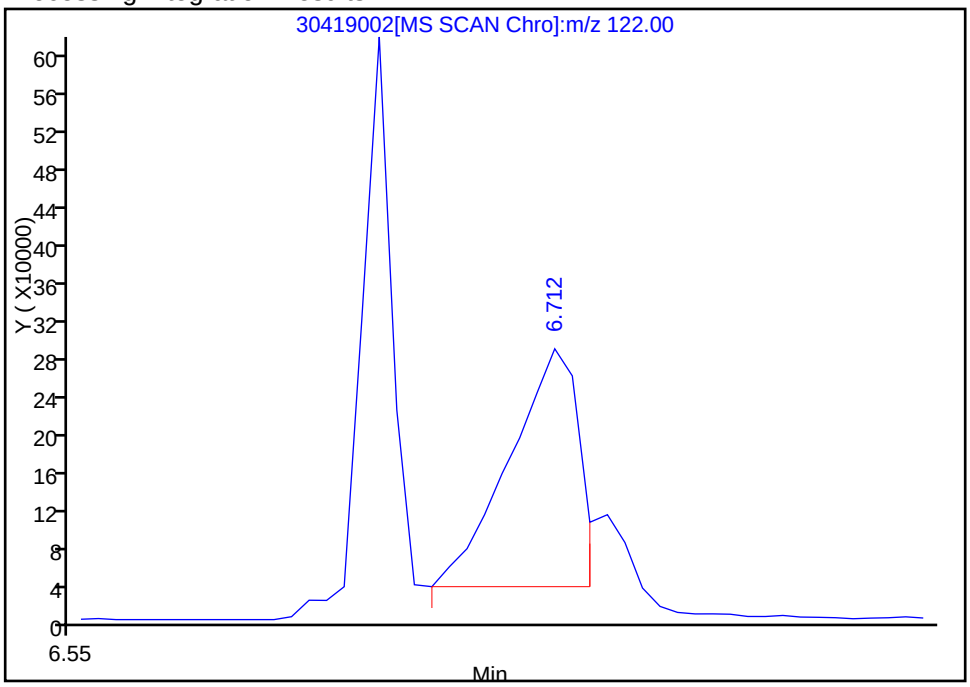
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419002.D		
Injection Date:	19-Apr-2013 10:43:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	2
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

70 Benzoic acid, Signal: 1, m/z: 122.0 Type: quant, RT: 6.71

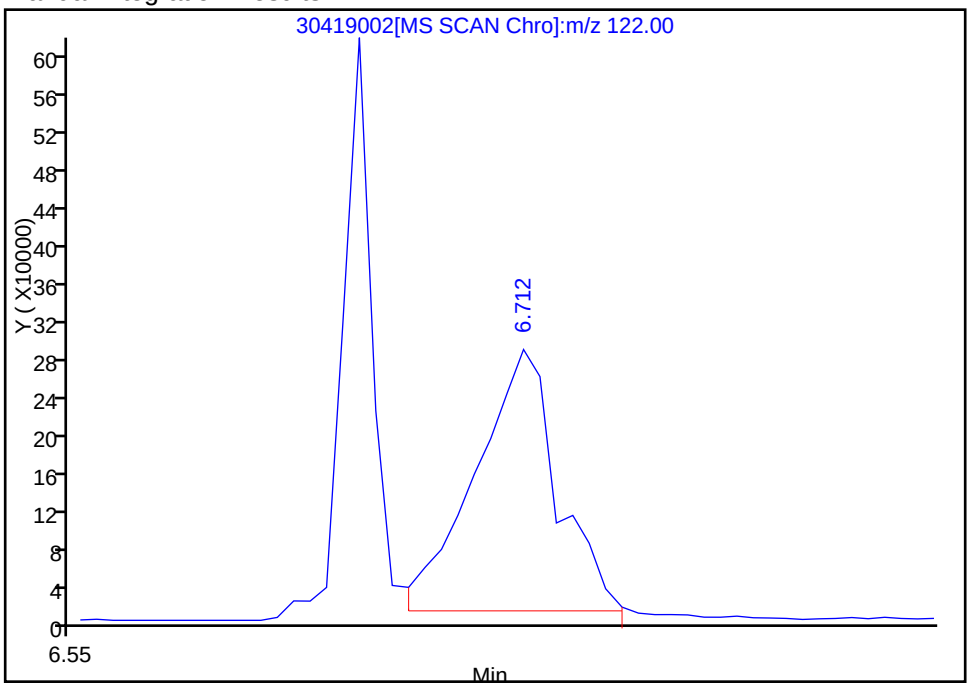
Processing Integration Results

RT: 6.71
Response: 409362
Amount: 13.535991



Manual Integration Results

RT: 6.71
Response: 567138
Amount: 18.027744



Reviewer: gruberj, 19-Apr-2013 11:03:10
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: mdll1 Calibration Date: 04/19/2013 21:14

Instrument ID: A4HP10 Calib Start Date: 04/11/2013 18:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/11/2013 21:19

Lab File ID: 30419029.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Ave	1.088			0.244	0.200		
Phenol	Ave	1.517			0.131	0.100		
Aniline	Ave	1.869			0.120	0.100		
Bis(2-chloroethyl)ether	Ave	1.174			0.123	0.100		
2-Chlorophenol	Ave	1.223			0.119	0.100		
1,3-Dichlorobenzene	Ave	1.322			0.119	0.100		
1,4-Dichlorobenzene	Ave	1.349			0.123	0.100		
Benzyl alcohol	Ave	0.7768			0.135	0.100		
1,2-Dichlorobenzene	Ave	1.287			0.106	0.100		
2-Methylphenol	Ave	1.105			0.124	0.100		
bis (2-chloroisopropyl) ether	Ave	1.795			0.104	0.100		
3 & 4 Methylphenol	Ave	1.151			0.122	0.100		
N-Nitrosodi-n-propylamine	Ave	0.8241			0.113	0.100		
Acetophenone	Ave	1.716			0.111	0.100		
Hexachloroethane	Ave	0.5215			0.0614	0.100		
Nitrobenzene	Ave	0.3401			0.118	0.100		
Isophorone	Ave	0.6103			0.120	0.100		
2-Nitrophenol	Ave	0.1624			0.102	0.100		
2,4-Dimethylphenol	Ave	0.3114			0.133	0.100		
Bis(2-chloroethoxy)methane	Ave	0.3595			0.129	0.100		
2,4-Dichlorophenol	Ave	0.2560			0.126	0.100		
1,2,4-Trichlorobenzene	Ave	0.2998			0.120	0.100		
Naphthalene	Ave	0.9279			0.122	0.100		
4-Chloroaniline	Ave	0.3867			0.110	0.100		
Hexachlorobutadiene	Ave	0.1834			0.103	0.100		
Caprolactam	Ave	0.0877			0.269	0.200		
4-Chloro-3-methylphenol	Ave	0.2736			0.103	0.100		
2-Methylnaphthalene	Ave	0.6242			0.106	0.100		
1-Methylnaphthalene	Ave	0.5854			0.122	0.100		
1,2,4,5-Tetrachlorobenzene	Ave	0.5309			0.115	0.100		
2,4,6-Trichlorophenol	Ave	0.3299			0.0999	0.100		
2,4,5-Trichlorophenol	Ave	0.3422			0.104	0.100		
1,1'-Biphenyl	Ave	1.293			0.117	0.100		
2-Chloronaphthalene	Ave	0.9841			0.115	0.100		
2-Nitroaniline	Ave	0.3026			0.111	0.100		
Dimethyl phthalate	Ave	1.118			0.125	0.100		
Acenaphthylene	Ave	1.567			0.108	0.100		
3-Nitroaniline	Lin1				0.375	0.100		
Acenaphthene	Ave	1.089			0.100	0.100		
4-Nitrophenol	Lin1				0.763	0.200		

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: mdll1 Calibration Date: 04/19/2013 21:14

Instrument ID: A4HP10 Calib Start Date: 04/11/2013 18:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/11/2013 21:19

Lab File ID: 30419029.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4-Dinitrotoluene	Lin1				0.359	0.100		
Dibenzofuran	Ave	1.468			0.118	0.100		
Diethyl phthalate	Ave	1.155			0.112	0.100		
4-Chlorophenyl phenyl ether	Ave	0.6282			0.0918	0.100		
4-Nitroaniline	Ave	0.2737			0.0848	0.100		
Fluorene	Ave	1.193			0.110	0.100		
N-Nitrosodiphenylamine	Ave	0.4728			0.247	0.200		
1,2-Diphenylhydrazine(as Azobenzene)	Ave	0.6357			0.126	0.100		
Azobenzene	Ave	0.6357			0.126	0.100		
4-Bromophenyl phenyl ether	Ave	0.1784			0.127	0.100		
Hexachlorobenzene	Ave	0.1808			0.138	0.100		
Atrazine	Ave	0.1794			0.234	0.200		
Pentachlorophenol	Lin1				0.621	0.200		
Phenanthrene	Ave	0.9275			0.129	0.100		
Anthracene	Ave	0.9222			0.125	0.100		
Carbazole	Ave	0.8498			0.130	0.100		
Di-n-butyl phthalate	Ave	1.040			0.168	0.100		
Fluoranthene	Ave	1.094			0.110	0.100		
Benzidine	Ave	0.4158			0.198	0.200		
Pyrene	Ave	1.033			0.113	0.100		
Butyl benzyl phthalate	Ave	0.3936			0.133	0.100		
Bis(2-ethylhexyl) phthalate	Ave	0.5537			0.154	0.100		
Benzo[a]anthracene	Ave	0.995			0.121	0.100		
Chrysene	Ave	0.9135			0.121	0.100		
Di-n-octyl phthalate	Lin1				0.473	0.100		
Benzo[b]fluoranthene	Ave	1.074			0.107	0.100		
Benzo[k]fluoranthene	Ave	1.168			0.115	0.100		
Benzo[a]pyrene	Ave	0.997			0.106	0.100		
Indeno[1,2,3-cd]pyrene	Ave	1.093			0.0977	0.100		
Dibenz(a,h)anthracene	Ave	0.9115			0.0908	0.100		
Benzo[g,h,i]perylene	Ave	0.9331			0.100	0.100		
1,4-Dioxane	Lin1				0.000800	0.100		
2,3,4,6-Tetrachlorophenol	Ave	0.2989			0.000580	0.100		
2,4-Dinitrophenol	Qua				0.00240	0.200		
2,6-Dinitrotoluene	Ave	0.2443			0.000800	0.100		
3,3'-Dichlorobenzidine	Ave	0.3264			0.000800	0.200		
4,6-Dinitro-2-methylphenol	Lin1				0.00240	0.200		
Benzoic acid	Qua				0.0100	0.200		

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: mdll1 Calibration Date: 04/19/2013 21:14

Instrument ID: A4HP10 Calib Start Date: 04/11/2013 18:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/11/2013 21:19

Lab File ID: 30419029.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Hexachlorocyclopentadiene	Ave	0.3175			0.000800	0.100		
N-Nitrosodimethylamine	Ave	0.6668			0.000800	0.100		
Pyridine	Ave	1.237			0.000800	0.100		
2-Fluorophenol (Surr)	Ave	1.157			0.238	0.100	238*	35-105
Phenol-d5 (Surr)	Ave	1.542			0.263	0.100	263*	40-100
Nitrobenzene-d5 (Surr)	Ave	0.3740			0.149	0.100	149*	35-100
2-Fluorobiphenyl (Surr)	Ave	1.290			0.127	0.100	127*	45-105
2,4,6-Tribromophenol (Surr)	Ave	0.1463			0.168	0.100	168*	35-125
Terphenyl-d14 (Surr)	Ave	0.7870			0.135	0.100	135*	30-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419029.D
Lims ID: mdll1 Client ID:
Inject. Date: 19-Apr-2013 21:14:30 Dil. Factor: 1.0000
Sample Type: LODV
Sample ID: 240-0019044-029
Misc. Info.: MDLL1
Operator: 001710 Instrument ID: A4HP10
Injection Vol: 1.0 ul ALS Bottle#: 29
Lims Batch ID: 82653 Lims Sample ID: 29
Detector: MS SCAN

Method: \\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m
Last Update: 22-Apr-2013 13:55:53 Calib Date: 12-Apr-2013 00:58:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: 5% phenyl Column Dia: 0.18 mm
Process Host: XAWRK022

First Level Reviewer: gruberj Date: 22-Apr-2013 09:35:18

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.848	5.848	0.0	97	185480	4.00	
* 2 Naphthalene-d8	136	6.971	6.970	0.001	99	718922	4.00	
* 3 Acenaphthene-d10	164	8.475	8.475	0.0	88	428010	4.00	
* 4 Phenanthrene-d10	188	9.738	9.738	0.0	98	713877	4.00	
* 5 Chrysene-d12	240	12.294	12.294	0.0	81	773747	4.00	
* 6 Perylene-d12	264	14.368	14.368	0.0	85	613291	4.00	
$ 7 2-Fluorophenol	112	4.579	4.573	0.006	74	12763	0.2378	
$ 8 Phenol-d5	99	5.490	5.490	0.0	94	18796	0.2628	
$ 9 Nitrobenzene-d5	82	6.336	6.336	0.0	78	10043	0.1494	
$ 10 2-Fluorobiphenyl (Surr)	172	7.887	7.887	0.0	90	17567	0.1273	
$ 11 2,4,6-Tribromophenol	330	9.145	9.144	0.001	44	2635	0.1683	
$ 12 Terphenyl-d14	244	11.101	11.101	0.0	83	20532	0.1349	
245 Total Cresols	1		0.000					
239 3-isopropylphenol TIC	1		0.000					
244 n-Octadecane	57		0.000					
13 Dimethylformamide	1		0.000					
23 Bis(4-hydroxyphenyl)methane	1		0.000					
18 Octachlorostyrene	1		0.000					
24 Bis(2-hydroxyphenyl)methane	1		0.000					
21 2,5-Dichlorophenol	1		0.000					
243 n-Decane	57		0.000					
242 3-(1,1-Dimethylethyl Phenol) TIC	1		0.000					
250 2,3,7,8-TCDD TIC	1		0.000					
249 4-Chlorophenol TIC	1		0.000					
16 2,3-Dichlorophenol	1		0.000					
20 Octachlorocyclopentene	1		0.000					
236 4-isopropylphenol TIC	1		0.000					
247 Hexadecane	57		0.000					
234 2-Isopropylphenol TIC	1		0.000					
25 1,4-Dioxane	88		2.305					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
32 Malononitrile	66		2.451					
233 n,n'-Dimethylacetamide	44		2.478					
35 3-Picoline	93		2.622					
26 N-Nitrosodimethylamine	74		2.746					24
27 Pyridine	79		2.799					
40 4-Methylcyclohexanone	55	3.163	3.221	-0.058	1	1223	0	
38 2-Methylcyclohexanone	68		3.221					124
39 3-Methylcyclohexanone	69	3.357	3.221	0.136	1	518	0	
232 1-Methyl-2-pyrrilidinone	99	3.334	3.351	-0.017	0	149	0	
30 2-Picoline	93		4.091					
67 1,3,5-Trichlorobenzene	180		4.145					
14 Catechol	110		4.161					19
31 N-Nitrosomethylethylamine	88		4.226					9
22 3-Methylcatechol	124		4.460					19
34 Acrylamide	71	4.538	4.497	0.041	1	242	0	
79 1,2,3-Trichlorobenzene	180		4.535					
33 Methyl methanesulfonate	80		4.550					
17 4-Methylcatechol	124		4.583					149
36 N-Nitrosodiethylamine	102		4.955					
90 1,2,3,5-Tetrachlorobenzene	216		5.031					
97 2,4-Toluene diamine	121		5.234					
37 Ethyl methanesulfonate	79		5.237					9
99 1,2,3,4 -Tetrachlorobenzene	216		5.250					
41 Benzaldehyde	77	5.443	5.449	-0.006	86	12308	0.2439	
43 Phenol	94	5.502	5.502	0.0	90	9209	0.1309	
42 Phenylmercaptan	110		5.539					
44 Aniline	93	5.543	5.543	0.0	73	10428	0.1204	
108 1,2-Dinitrobenzene	168		5.550					
45 Bis(2-chloroethyl)ether	93	5.596	5.601	-0.005	77	6680	0.1227	
47 2-Chlorophenol	128	5.649	5.648	0.001	78	6775	0.1194	
46 Pentachloroethane	167		5.701					
48 1,3-Dichlorobenzene	146	5.796	5.795	0.001	81	7297	0.1190	
49 1,4-Dichlorobenzene	146	5.860	5.866	-0.006	47	7676	0.1227	
50 Benzyl alcohol	108	5.960	5.960	0.0	83	4863	0.1350	
51 1,2-Dichlorobenzene	146	6.001	6.001	0.0	84	6332	0.1061	
52 2-Methylphenol	108	6.054	6.054	0.0	79	6357	0.1241	
53 Indene	115	6.078	6.077	0.001	76	24165	0.2287	
54 2,2'-oxybis[1-chloropropane]	45	6.083	6.083	0.0	32	8641	0.1038	
127 Tributyl phosphate	99		6.089					
56 3 & 4 Methylphenol	108	6.183	6.183	0.0	91	6494	0.1217	
57 N-Nitrosodi-n-propylamine	70	6.195	6.195	0.0	84	4320	0.1131	
58 Acetophenone	105	6.201	6.201	0.0	85	8867	0.1114	
55 N-Nitrosopyrrolidine	100		6.277					
61 Hexachloroethane	117	6.301	6.307	-0.006	81	1484	0.0614	
59 N-Nitrosomorpholine	56		6.312					9
60 2-Toluidine	106		6.330					9
62 Nitrobenzene	77	6.354	6.354	0.0	78	7201	0.1178	
64 Isophorone	82	6.559	6.559	0.0	91	13147	0.1199	
63 N-Nitrosopiperidine	114		6.582					
66 2-Nitrophenol	139	6.630	6.636	-0.006	60	2984	0.1023	
65 2,4-Dimethylphenol	107	6.653	6.653	0.0	62	7458	0.1332	
70 Benzoic acid	122		6.712					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
69 Bis(2-chloroethoxy)methane	93	6.736	6.741	-0.005	84	8308	0.1286	
68 o,o',o''-Triethylphosphorothioat	198		6.800					
72 2,4-Dichlorophenol	162	6.836	6.835	0.001	83	5811	0.1263	
71 alpha,alpha-Dimethyl phenethylam	58		6.906					9
73 1,2,4-Trichlorobenzene	180	6.918	6.918	0.0	75	6486	0.1204	
74 Naphthalene	128	6.988	6.988	0.0	59	20283	0.1216	
75 4-Chloroaniline	127	7.024	7.023	0.001	80	7648	0.1100	
78 Hexachlorobutadiene	225	7.088	7.088	0.0	73	3381	0.1025	
76 2,6-Dichlorophenol	162		7.123					
77 Hexachloropropene	213		7.158					9
80 Benzothiazole	135		7.243					9
83 Caprolactam	113	7.300	7.317	-0.017	75	4245	0.2693	
81 Quinoline	129		7.364					
82 N-Nitrosodi-n-butylamine	84		7.387					9
84 p-Phenylene diamine	108		7.411					
85 4-Chloro-3-methylphenol	107	7.423	7.423	0.0	77	5054	0.1028	
87 2-Methylnaphthalene	142	7.582	7.582	0.0	77	11937	0.1064	
86 Safrole, Total	162		7.587					
88 1-Methylnaphthalene	142	7.670	7.670	0.0	89	12801	0.1217	
89 Hexachlorocyclopentadiene	237		7.711					
92 1,2,4,5-Tetrachlorobenzene	216	7.723	7.723	0.0	76	6528	0.1149	
93 2,4,6-Trichlorophenol	196	7.811	7.811	0.0	70	3527	0.0999	
95 Isosafrole Peak 1	162		7.834					9
94 2,4,5-Trichlorophenol	196	7.846	7.846	0.0	73	3805	0.1039	
96 3,4-Dichloronitrobenzene	109		7.967					9
98 1,1'-Biphenyl	154	7.975	7.975	0.0	53	16216	0.1172	
100 2-Chloronaphthalene	162	7.999	7.999	0.0	81	12147	0.1154	
91 Isosafrole Peak 2	162		8.028					9
102 2-Nitroaniline	65	8.075	8.075	0.0	52	3597	0.1111	
101 Phenyl ether	170		8.089					9
246 1-Chloronaphthalene	162		8.116					1
105 Dimethyl phthalate	163	8.216	8.216	0.0	91	14974	0.1251	
103 1,4-Naphthoquinone	158		8.239					
106 1,3-Dinitrobenzene	168	8.252	8.251	0.001	65	1862	0.2841	
107 2,6-Dinitrotoluene	165		8.275					
104 1,4-Dinitrobenzene	168		8.280					
109 Acenaphthylene	152	8.357	8.357	0.0	85	18150	0.1082	
110 3-Nitroaniline	138	8.416	8.422	-0.006	84	3614	0.3747	
112 Acenaphthene	153	8.498	8.504	-0.006	86	11657	0.1000	
111 2,4-Dinitrophenol	184		8.510					
113 4-Nitrophenol	109	8.539	8.539	0.0	83	4116	0.7630	
114 2,4-Dinitrotoluene	165	8.616	8.616	0.0	52	3199	0.3590	
116 Dibenzofuran	168	8.645	8.645	0.0	87	18521	0.1179	
174 3,3'-Dimethoxybenzidine	244		8.648					
115 Pentachlorobenzene	250		8.704					
119 2,3,4,6-Tetrachlorophenol	232		8.739					9
117 2,3,5,6-Tetrachlorophenol	232		8.798					
118 1-Naphthylamine	143		8.803					
121 Diethyl phthalate	149	8.810	8.815	-0.005	92	13895	0.1124	
120 2-Naphthylamine	143		8.874					
123 4-Chlorophenyl phenyl ether	204	8.927	8.927	0.0	74	6173	0.0918	
126 Fluorene	166	8.939	8.939	0.0	87	14109	0.1105	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
125 4-Nitroaniline	138	8.939	8.939	0.0	24	2482	0.0848	
128 4,6-Dinitro-2-methylphenol	198		8.962					
122 Thionazin	97		8.974					9
129 N-Nitrosodiphenylamine	169	9.021	9.027	-0.006	90	20831	0.2469	
124 N-Nitro-o-toluidine	152		9.033					
132 Azobenzene	77	9.062	9.062	0.0	93	14343	0.1264	
131 1,2-Diphenylhydrazine	77	9.062	9.062	0.0	92	14343	0.1264	
130 Diphenylamine	169	9.021	9.115	-0.094	83	20831	0.2102	
133 Sulfotepp	202		9.232					
134 1,3,5-Trinitrobenzene	213		9.315					
139 4-Bromophenyl phenyl ether	248	9.344	9.344	0.0	56	4028	0.1265	
135 Diallate Peak 1	86		9.356					
136 Phenacetin	108		9.362					9
137 Phorate	121		9.367					
141 Hexachlorobenzene	284	9.403	9.403	0.0	75	4468	0.1385	
138 Diallate Peak 2	86		9.438					9
142 Atrazine	200	9.456	9.462	-0.006	77	7476	0.2335	
140 Dimethoate	87		9.514					9
144 Pentachlorophenol	266	9.568	9.567	0.001	36	2856	0.6212	
143 4-Aminobiphenyl	169		9.661					9
146 Pentachloronitrobenzene	237		9.673					
145 Pronamide	173		9.691					
149 Phenanthrene	178	9.756	9.761	-0.005	32	21345	0.1290	
148 Dinoseb	211		9.802					
150 Anthracene	178	9.803	9.803	0.001	96	20617	0.1253	
147 Disulfoton	88		9.808					
152 Carbazole	167	9.926	9.932	-0.006	86	19677	0.1297	
151 DFTPP								
153 Methyl parathion	109		10.131					
154 Diphenylsulfone	125		10.147					9
155 Di-n-butyl phthalate	149	10.190	10.196	-0.006	97	31125	0.1678	
156 Ethyl Parathion	97		10.454					9
157 4-Nitroquinoline-1-oxide	190		10.507					
158 Methapyrilene	58		10.554					9
159 Isodrin	66		10.748					
160 Fluoranthene	202	10.772	10.772	0.0	93	21548	0.1104	
161 Benzidine	184	10.872	10.872	0.0	86	15910	0.1978	
162 Pyrene	202	10.978	10.984	-0.006	92	22608	0.1131	
168 4,4'-DDE	246		11.036					
29 3-Chloropropionitrile	54		11.148					
163 Aramite Peak 1	185		11.171					9
164 Aramite Peak 2	185		11.242					
165 p-Dimethylamino azobenzene	225		11.353					
167 4,4'-DDD	235		11.371					
166 Chlorobenzilate	139		11.389					
28 Ethyl methacrylate	69		11.477					
170 Butyl benzyl phthalate	149	11.583	11.583	0.0	76	10138	0.1332	
172 4,4'-DDT	235		11.700					9
171 3,3'-Dimethylbenzidine	212		11.712					
173 2-Acetylaminofluorene	181		12.006					
169 Famphur	218		12.223					9
177 3,3'-Dichlorobenzidine	252		12.229					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
175 Bis(2-ethylhexyl) phthalate	149	12.259	12.258	0.001	80	16465	0.1537	
179 Benzo[a]anthracene	228	12.282	12.282	0.0	72	23303	0.1210	
178 Hexabromobenzene	232	12.294	12.319	-0.025	1	33853	0	
180 Chrysene	228	12.329	12.329	0.0	51	21302	0.1206	
176 4,4'-Methylene bis(2-chloroanili	231		12.382					9
181 6-Methylchrysene	242		13.104					
182 Di-n-octyl phthalate	149	13.169	13.175	-0.006	82	16311	0.4726	
184 Benzo[b]fluoranthene	252	13.786	13.786	0.0	71	17546	0.1066	
185 Benzo[k]fluoranthene	252	13.822	13.827	-0.005	83	20551	0.1148	
183 7,12-Dimethylbenz(a)anthracene	256		13.962					
186 Benzo[a]pyrene	252	14.286	14.286	0.0	67	16220	0.1061	
187 3-Methylcholanthrene	268		15.037					9
188 Dibenz[a,j]acridine	279		15.657					
189 Dibenz[a,h]acridine	279		15.895					9
190 Indeno[1,2,3-cd]pyrene	276	16.031	16.031	0.0	80	16373	0.0977	M
191 Dibenz(a,h)anthracene	278	16.060	16.066	-0.006	15	12691	0.0908	M
192 Benzo[g,h,i]perylene	276	16.471	16.477	-0.006	82	14307	0.1000	
S 193 Methyl Phenols,Total	100				0		0.2458	
S 194 Isosafrole	162		5.161					7
S 195 Diallate	86		6.289					7
S 196 Aramite, Total	185		7.806					7
T 197 Decane TIC	57	5.690	0.0	5.690	90	7493	0	
T 198 Hydroquinone TIC	110		0.000					1
T 238 Trimethyl phosphate TIC	110	4.097	4.000	0.097	0	151	0	
T 200 Hexamethylphosphoramide TIC	135	7.206	7.200	0.006	1	1427	0	
T 248 2,3,7,8 TCDF TIC	322		8.600					1
T 202 Hexachlorophene TIC	198		8.600					1
T 201 Kepone TIC	272		8.600					1
T 19 2,3,7,8-TCDD	320		8.800					1
T 199 Octadecane (TIC)	254	16.988	9.600	7.388	95	34947	0	
T 241 Triphenyl Phosphate TIC	326	12.135	12.250	-0.115	0	170	0	
T 240 Tricresyl phosphate TIC	368	12.347	12.750	-0.403	0	94	0	
T 237 Tris(2,3-dibromopropyl)phosphate	201	14.491	14.500	-0.009	0	382	0	

QC Flag Legend

Processing Flags
1 - Missing Peaks
2 - Failed Coelution Test
4 - Failed Signal Ratio Test
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

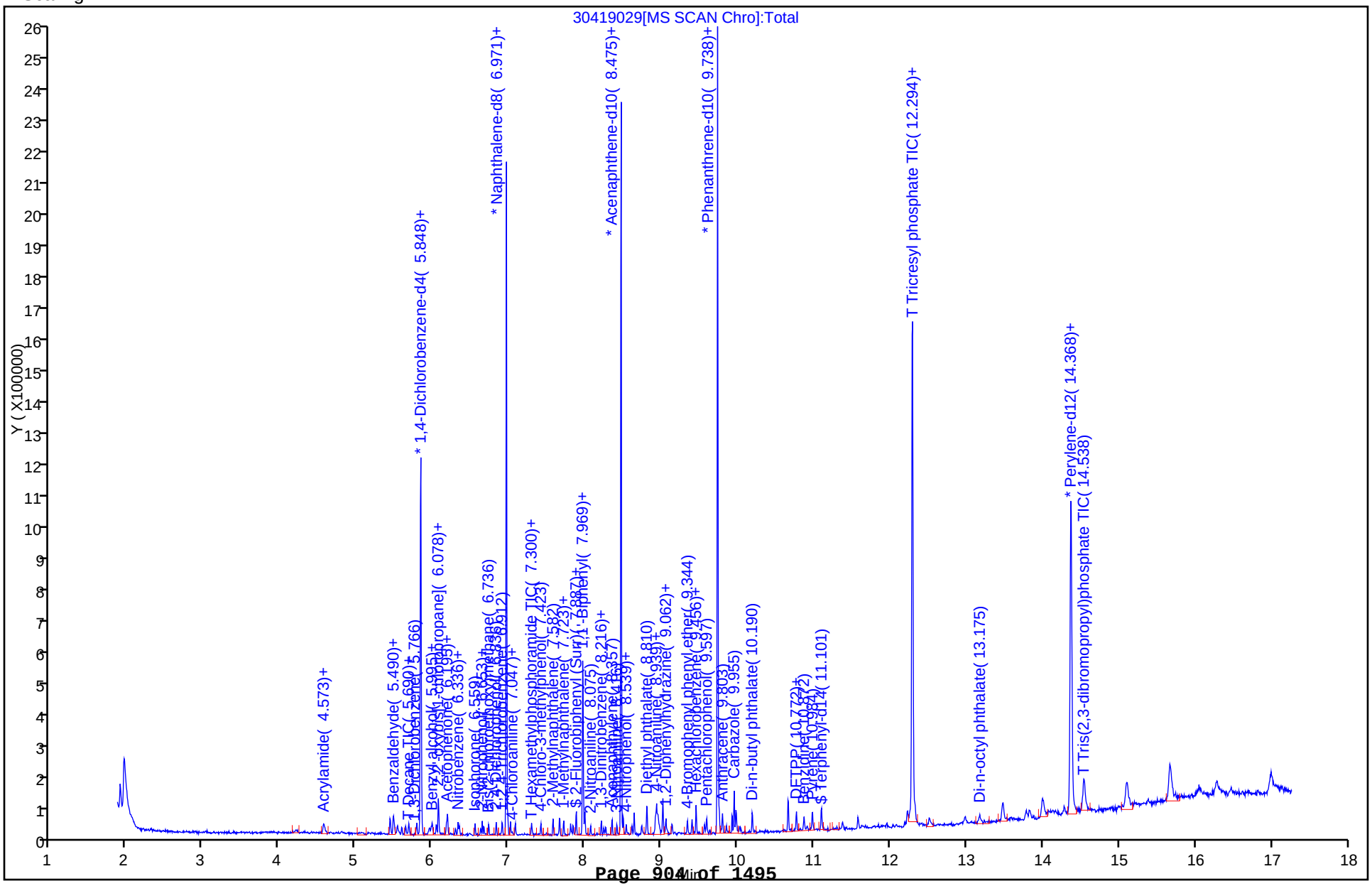
Report Date: 22-Apr-2013 14:33:49 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419029.D

Injection Date:	19-Apr-2013 21:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	29
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

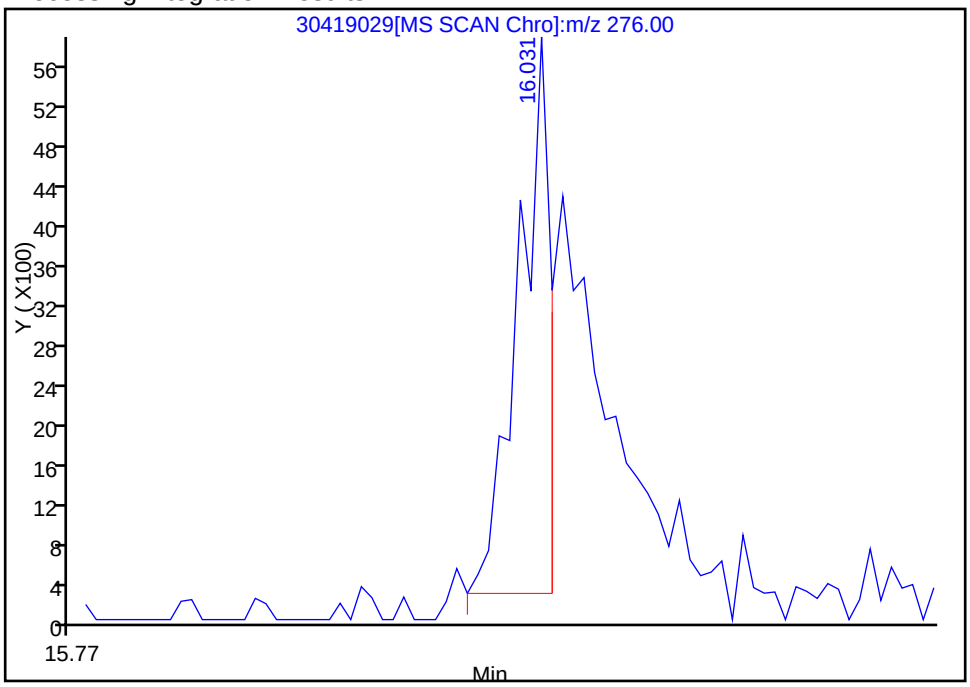
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419029.D		
Injection Date:	19-Apr-2013 21:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	29
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

190 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 16.03

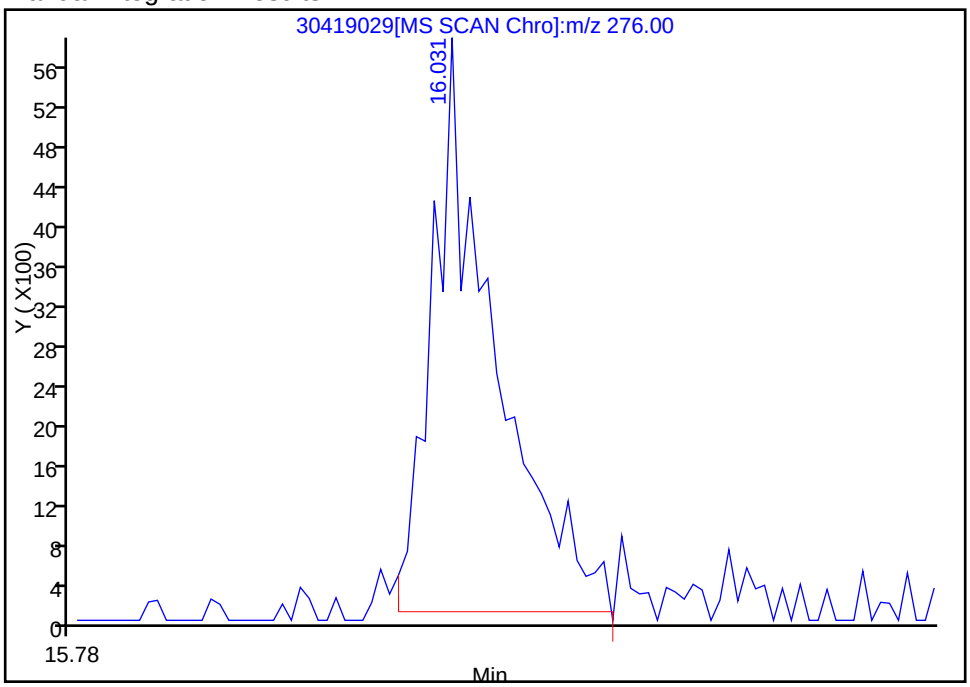
Processing Integration Results

RT: 16.03
Response: 6859
Amount: 0.040918



Manual Integration Results

RT: 16.03
Response: 16373
Amount: 0.097674



Reviewer: gruberj, 22-Apr-2013 09:35:18
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

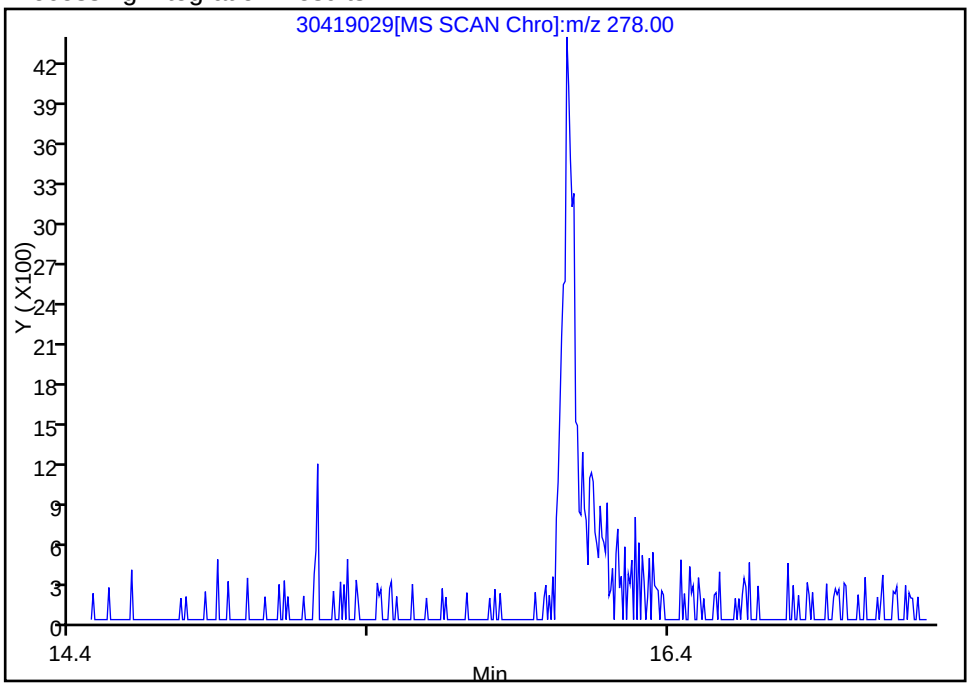
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419029.D		
Injection Date:	19-Apr-2013 21:14:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	29
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

191 Dibenz(a,h)anthracene, Signal: 1, m/z: 278.0 Type: quant, RT: 16.07

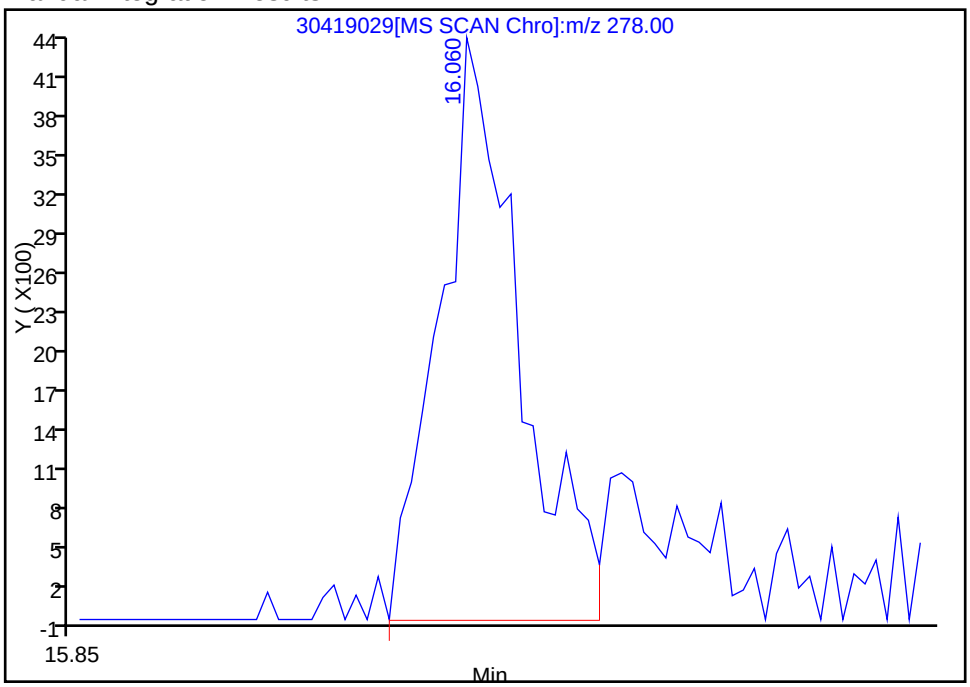
Processing Integration Results

Not Detected
Expected RT: 16.07



Manual Integration Results

RT: 16.06
Response: 12691
Amount: 0.090814



Reviewer: gruberj, 22-Apr-2013 09:35:18
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: mdll2 Calibration Date: 04/19/2013 21:38

Instrument ID: A4HP10 Calib Start Date: 04/11/2013 18:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/11/2013 21:19

Lab File ID: 30419030.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Lin1				0.260	0.500		
N-Nitrosodimethylamine	Ave	0.6668			0.476	0.500		
Pyridine	Ave	1.237			0.441	0.500		
Benzaldehyde	Ave	1.088			0.942	1.00		
Phenol	Ave	1.517			0.506	0.500		
Aniline	Ave	1.869			0.502	0.500		
Bis(2-chloroethyl)ether	Ave	1.174			0.451	0.500		
2-Chlorophenol	Ave	1.223			0.454	0.500		
1,3-Dichlorobenzene	Ave	1.322			0.490	0.500		
1,4-Dichlorobenzene	Ave	1.349			0.547	0.500		
Benzyl alcohol	Ave	0.7768			0.433	0.500		
1,2-Dichlorobenzene	Ave	1.287			0.492	0.500		
2-Methylphenol	Ave	1.105			0.494	0.500		
bis (2-chloroisopropyl) ether	Ave	1.795			0.412	0.500		
3 & 4 Methylphenol	Ave	1.151			0.449	0.500		
N-Nitrosodi-n-propylamine	Ave	0.8241			0.503	0.500		
Acetophenone	Ave	1.716			0.439	0.500		
Hexachloroethane	Ave	0.5215			0.384	0.500		
Nitrobenzene	Ave	0.3401			0.455	0.500		
Isophorone	Ave	0.6103			0.452	0.500		
2-Nitrophenol	Ave	0.1624			0.429	0.500		
2,4-Dimethylphenol	Ave	0.3114			0.438	0.500		
Benzoic acid	Qua				0.872	1.00		
Bis(2-chloroethoxy)methane	Ave	0.3595			0.506	0.500		
2,4-Dichlorophenol	Ave	0.2560			0.464	0.500		
1,2,4-Trichlorobenzene	Ave	0.2998			0.440	0.500		
Naphthalene	Ave	0.9279			0.460	0.500		
4-Chloroaniline	Ave	0.3867			0.449	0.500		
Hexachlorobutadiene	Ave	0.1834			0.407	0.500		
Caprolactam	Ave	0.0877			0.993	1.00		
4-Chloro-3-methylphenol	Ave	0.2736			0.420	0.500		
2-Methylnaphthalene	Ave	0.6242			0.439	0.500		
1-Methylnaphthalene	Ave	0.5854			0.463	0.500		
1,2,4,5-Tetrachlorobenzene	Ave	0.5309			0.410	0.500		
2,4,6-Trichlorophenol	Ave	0.3299			0.384	0.500		
2,4,5-Trichlorophenol	Ave	0.3422			0.352	0.500		
1,1'-Biphenyl	Ave	1.293			0.430	0.500		
2-Chloronaphthalene	Ave	0.9841			0.459	0.500		
2-Nitroaniline	Ave	0.3026			0.394	0.500		
Dimethyl phthalate	Ave	1.118			0.441	0.500		

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: mdll2 Calibration Date: 04/19/2013 21:38

Instrument ID: A4HP10 Calib Start Date: 04/11/2013 18:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/11/2013 21:19

Lab File ID: 30419030.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,6-Dinitrotoluene	Ave	0.2443			0.410	0.500		
Acenaphthylene	Ave	1.567			0.433	0.500		
3-Nitroaniline	Lin1				0.664	0.500		
Acenaphthene	Ave	1.089			0.417	0.500		
2,4-Dinitrophenol	Qua				1.24	1.00		
4-Nitrophenol	Lin1				1.11	1.00		
2,4-Dinitrotoluene	Lin1				0.591	0.500		
Dibenzofuran	Ave	1.468			0.443	0.500		
2,3,4,6-Tetrachlorophenol	Ave	0.2989			0.371	0.500		
Diethyl phthalate	Ave	1.155			0.422	0.500		
4-Chlorophenyl phenyl ether	Ave	0.6282			0.401	0.500		
4-Nitroaniline	Ave	0.2737			0.457	0.500		
Fluorene	Ave	1.193			0.452	0.500		
4,6-Dinitro-2-methylphenol	Lin1				0.942	1.00		
N-Nitrosodiphenylamine	Ave	0.4728			0.989	1.00		
1,2-Diphenylhydrazine(as Azobenzene)	Ave	0.6357			0.483	0.500		
Azobenzene	Ave	0.6357			0.487	0.500		
4-Bromophenyl phenyl ether	Ave	0.1784			0.436	0.500		
Hexachlorobenzene	Ave	0.1808			0.480	0.500		
Atrazine	Ave	0.1794			0.962	1.00		
Pentachlorophenol	Lin1				0.954	1.00		
Phenanthrene	Ave	0.9275			0.455	0.500		
Anthracene	Ave	0.9222			0.450	0.500		
Carbazole	Ave	0.8498			0.476	0.500		
Di-n-butyl phthalate	Ave	1.040			0.507	0.500		
Fluoranthene	Ave	1.094			0.428	0.500		
Benzidine	Ave	0.4158			0.876	1.00		
Pyrene	Ave	1.033			0.444	0.500		
Butyl benzyl phthalate	Ave	0.3936			0.433	0.500		
3,3'-Dichlorobenzidine	Ave	0.3264			0.805	1.00		
Bis(2-ethylhexyl) phthalate	Ave	0.5537			0.489	0.500		
Benzo[a]anthracene	Ave	0.995			0.453	0.500		
Chrysene	Ave	0.9135			0.428	0.500		
Di-n-octyl phthalate	Lin1				0.736	0.500		
Benzo[b]fluoranthene	Ave	1.074			0.397	0.500		
Benzo[k]fluoranthene	Ave	1.168			0.384	0.500		
Benzo[a]pyrene	Ave	0.997			0.438	0.500		
Indeno[1,2,3-cd]pyrene	Ave	1.093			0.336	0.500		
Dibenz(a,h)anthracene	Ave	0.9115			0.360	0.500		
Benzo[g,h,i]perylene	Ave	0.9331			0.349	0.500		

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: mdll2 Calibration Date: 04/19/2013 21:38

Instrument ID: A4HP10 Calib Start Date: 04/11/2013 18:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/11/2013 21:19

Lab File ID: 30419030.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Hexachlorocyclopentadiene	Ave	0.3175			0.000800	0.500		
2-Fluorophenol (Surr)	Ave	1.157			0.545	0.500	109*	35-105
Phenol-d5 (Surr)	Ave	1.542			0.541	0.500	108*	40-100
Nitrobenzene-d5 (Surr)	Ave	0.3740			0.436	0.500	87	35-100
2-Fluorobiphenyl (Surr)	Ave	1.290			0.428	0.500	86	45-105
2,4,6-Tribromophenol (Surr)	Ave	0.1463			0.366	0.500	73	35-125
Terphenyl-d14 (Surr)	Ave	0.7870			0.466	0.500	93	30-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419030.D
Lims ID: mdll2 Client ID:
Inject. Date: 19-Apr-2013 21:38:30 Dil. Factor: 1.0000
Sample Type: LODV
Sample ID: 240-0019044-030
Misc. Info.: MDLL2
Operator: 001710 Instrument ID: A4HP10
Injection Vol: 1.0 ul ALS Bottle#: 30
Lims Batch ID: 82653 Lims Sample ID: 30
Detector: MS SCAN

Method: \\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m
Last Update: 22-Apr-2013 13:55:53 Calib Date: 12-Apr-2013 00:58:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: 5% phenyl Column Dia: 0.18 mm
Process Host: XAWRK022

First Level Reviewer: gruberj Date: 22-Apr-2013 09:37:36

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.848	5.848	0.0	98	183729	4.00	
* 2 Naphthalene-d8	136	6.971	6.970	0.001	99	727347	4.00	
* 3 Acenaphthene-d10	164	8.475	8.475	0.0	90	446292	4.00	
* 4 Phenanthrene-d10	188	9.738	9.738	0.0	97	734912	4.00	
* 5 Chrysene-d12	240	12.294	12.294	0.0	80	790493	4.00	
* 6 Perylene-d12	264	14.368	14.368	0.0	94	600285	4.00	
$ 7 2-Fluorophenol	112	4.573	4.573	0.0	84	28954	0.5447	
$ 8 Phenol-d5	99	5.484	5.490	-0.006	95	38341	0.5412	
$ 9 Nitrobenzene-d5	82	6.336	6.336	0.0	88	29667	0.4362	
$ 10 2-Fluorobiphenyl (Surr)	172	7.887	7.887	0.0	97	61553	0.4278	
$ 11 2,4,6-Tribromophenol	330	9.139	9.144	-0.005	72	5975	0.3660	
$ 12 Terphenyl-d14	244	11.101	11.101	0.0	96	72453	0.4658	
245 Total Cresols	1		0.000					
239 3-isopropylphenol TIC	1		0.000					
244 n-Octadecane	57		0.000					
13 Dimethylformamide	1		0.000					
23 Bis(4-hydroxyphenyl)methane	1		0.000					
18 Octachlorostyrene	1		0.000					
24 Bis(2-hydroxyphenyl)methane	1		0.000					
21 2,5-Dichlorophenol	1		0.000					
243 n-Decane	57		0.000					
242 3-(1,1-Dimethylethyl Phenol) TIC	1		0.000					
250 2,3,7,8-TCDD TIC	1		0.000					
249 4-Chlorophenol TIC	1		0.000					
16 2,3-Dichlorophenol	1		0.000					
20 Octachlorocyclopentene	1		0.000					
236 4-isopropylphenol TIC	1		0.000					
247 Hexadecane	57		0.000					
234 2-Isopropylphenol TIC	1		0.000					
25 1,4-Dioxane	88	2.305	2.305	0.0	61	11250	0.2599	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
32 Malononitrile	66		2.451					
233 n,n'-Dimethylacetamide	44		2.478					9
35 3-Picoline	93		2.622					
26 N-Nitrosodimethylamine	74	2.758	2.746	0.012	70	14578	0.4760	M
27 Pyridine	79	2.823	2.799	0.024	89	25032	0.4407	M
40 4-Methylcyclohexanone	55	3.275	3.221	0.054	1	803	0	
38 2-Methylcyclohexanone	68	3.157	3.221	-0.064	5	53	0	
39 3-Methylcyclohexanone	69	3.163	3.221	-0.058	1	228	0	
232 1-Methyl-2-pyrrilidinone	99		3.351					
30 2-Picoline	93		4.091					
67 1,3,5-Trichlorobenzene	180		4.145					
14 Catechol	110		4.161					
31 N-Nitrosomethylethylamine	88		4.226					9
22 3-Methylcatechol	124		4.460					149
34 Acrylamide	71	4.456	4.497	-0.041	1	256	0	
79 1,2,3-Trichlorobenzene	180		4.535					
33 Methyl methanesulfonate	80		4.550					
17 4-Methylcatechol	124		4.583					149
36 N-Nitrosodiethylamine	102		4.955					
90 1,2,3,5-Tetrachlorobenzene	216		5.031					
97 2,4-Toluene diamine	121		5.234					
37 Ethyl methanesulfonate	79		5.237					
99 1,2,3,4 -Tetrachlorobenzene	216		5.250					9
41 Benzaldehyde	77	5.443	5.449	-0.006	90	47098	0.9422	
43 Phenol	94	5.502	5.502	0.0	96	35241	0.5057	
42 Phenylmercaptan	110		5.539					
44 Aniline	93	5.543	5.543	0.0	94	43078	0.5019	
108 1,2-Dinitrobenzene	168		5.550					
45 Bis(2-chloroethyl)ether	93	5.596	5.601	-0.005	88	24325	0.4510	
47 2-Chlorophenol	128	5.649	5.648	0.001	94	25503	0.4538	
46 Pentachloroethane	167		5.701					
48 1,3-Dichlorobenzene	146	5.796	5.795	0.001	92	29792	0.4905	
49 1,4-Dichlorobenzene	146	5.860	5.866	-0.006	85	33901	0.5470	
50 Benzyl alcohol	108	5.960	5.960	0.0	85	15433	0.4326	
51 1,2-Dichlorobenzene	146	6.001	6.001	0.0	93	29077	0.4917	
52 2-Methylphenol	108	6.054	6.054	0.0	91	25080	0.4943	
53 Indene	115	6.078	6.077	0.001	85	100393	0.9593	
54 2,2'-oxybis[1-chloropropane]	45	6.083	6.083	0.0	83	33933	0.4116	
127 Tributyl phosphate	99		6.089					
56 3 & 4 Methylphenol	108	6.183	6.183	0.0	96	23746	0.4491	
57 N-Nitrosodi-n-propylamine	70	6.195	6.195	0.0	84	19031	0.5028	
58 Acetophenone	105	6.201	6.201	0.0	89	34604	0.4390	
55 N-Nitrosopyrrolidine	100		6.277					
61 Hexachloroethane	117	6.301	6.307	-0.006	90	9202	0.3842	
59 N-Nitrosomorpholine	56		6.312					9
60 2-Toluidine	106		6.330					9
62 Nitrobenzene	77	6.354	6.354	0.0	79	28133	0.4549	
64 Isophorone	82	6.559	6.559	0.0	96	50154	0.4520	
63 N-Nitrosopiperidine	114		6.582					
66 2-Nitrophenol	139	6.630	6.636	-0.006	94	12660	0.4288	
65 2,4-Dimethylphenol	107	6.653	6.653	0.0	92	24780	0.4376	
70 Benzoic acid	122	6.677	6.712	-0.035	76	11738	0.8721	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
69 Bis(2-chloroethoxy)methane	93	6.736	6.741	-0.005	96	33062	0.5058	
68 o,o',o''-Triethylphosphorothioat	198		6.800					
72 2,4-Dichlorophenol	162	6.836	6.835	0.001	93	21623	0.4645	
71 alpha,alpha-Dimethyl phenethylam	58		6.906					9
73 1,2,4-Trichlorobenzene	180	6.918	6.918	0.0	91	23965	0.4395	
74 Naphthalene	128	6.988	6.988	0.0	92	77691	0.4604	
75 4-Chloroaniline	127	7.024	7.023	0.001	93	31562	0.4489	
78 Hexachlorobutadiene	225	7.088	7.088	0.0	89	13576	0.4070	
76 2,6-Dichlorophenol	162		7.123					
77 Hexachloropropene	213		7.158					
80 Benzothiazole	135		7.243					9
83 Caprolactam	113	7.300	7.317	-0.017	73	15830	0.99	
81 Quinoline	129		7.364					9
82 N-Nitrosodi-n-butylamine	84		7.387					9
84 p-Phenylene diamine	108		7.411					9
85 4-Chloro-3-methylphenol	107	7.423	7.423	0.0	82	20913	0.4204	
87 2-Methylnaphthalene	142	7.582	7.582	0.0	85	49827	0.4390	
86 Safrole, Total	162		7.587					
88 1-Methylnaphthalene	142	7.664	7.670	-0.006	87	49257	0.4627	
89 Hexachlorocyclopentadiene	237		7.711					
92 1,2,4,5-Tetrachlorobenzene	216	7.723	7.723	0.0	87	24276	0.4098	
93 2,4,6-Trichlorophenol	196	7.811	7.811	0.0	89	14136	0.3840	
95 Isosafrole Peak 1	162		7.834					9
94 2,4,5-Trichlorophenol	196	7.840	7.846	-0.006	89	13443	0.3521	
96 3,4-Dichloronitrobenzene	109		7.967					
98 1,1'-Biphenyl	154	7.975	7.975	0.0	94	62104	0.4304	
100 2-Chloronaphthalene	162	7.999	7.999	0.0	92	50404	0.4590	
91 Isosafrole Peak 2	162		8.028					9
102 2-Nitroaniline	65	8.075	8.075	0.0	76	13294	0.3937	
101 Phenyl ether	170		8.089					
246 1-Chloronaphthalene	162	8.034	8.116	-0.082	0	190	0	
105 Dimethyl phthalate	163	8.216	8.216	0.0	97	55014	0.4409	
103 1,4-Naphthoquinone	158		8.239					
106 1,3-Dinitrobenzene	168	8.246	8.251	-0.005	79	6720	0.5364	
107 2,6-Dinitrotoluene	165	8.269	8.275	-0.006	77	11188	0.4105	
104 1,4-Dinitrobenzene	168		8.280					
109 Acenaphthylene	152	8.357	8.357	0.0	95	75627	0.4325	
110 3-Nitroaniline	138	8.416	8.422	-0.006	91	13535	0.6636	
112 Acenaphthene	153	8.498	8.504	-0.006	93	50709	0.4173	
111 2,4-Dinitrophenol	184	8.510	8.510	0.0	1	1092	1.24	
113 4-Nitrophenol	109	8.539	8.539	0.0	87	10858	1.11	
114 2,4-Dinitrotoluene	165	8.616	8.616	0.0	83	12950	0.5906	
116 Dibenzofuran	168	8.645	8.645	0.0	85	72562	0.4431	
174 3,3'-Dimethoxybenzidine	244		8.648					
115 Pentachlorobenzene	250		8.704					
119 2,3,4,6-Tetrachlorophenol	232	8.739	8.739	0.0	66	12361	0.3707	
117 2,3,5,6-Tetrachlorophenol	232		8.798					
118 1-Naphthylamine	143		8.803					
121 Diethyl phthalate	149	8.810	8.815	-0.005	95	54412	0.4223	
120 2-Naphthylamine	143		8.874					9
123 4-Chlorophenyl phenyl ether	204	8.927	8.927	0.0	89	28072	0.4005	
126 Fluorene	166	8.939	8.939	0.0	91	60121	0.4516	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
125 4-Nitroaniline	138	8.933	8.939	-0.006	83	13951	0.4569	
128 4,6-Dinitro-2-methylphenol	198	8.963	8.962	0.0	1	2376	0.9422	
122 Thionazin	97		8.974					9
129 N-Nitrosodiphenylamine	169	9.021	9.027	-0.006	88	85937	0.9893	
124 N-Nitro-o-toluidine	152		9.033					
132 Azobenzene	77	9.062	9.062	0.0	97	56846	0.4867	
131 1,2-Diphenylhydrazine	77	9.062	9.062	0.0	95	56386	0.4828	
130 Diphenylamine	169	9.021	9.115	-0.094	93	85937	0.8425	
133 Sulfotepp	202		9.232					
134 1,3,5-Trinitrobenzene	213		9.315					
139 4-Bromophenyl phenyl ether	248	9.344	9.344	0.0	69	14281	0.4357	
135 Diallate Peak 1	86		9.356					9
136 Phenacetin	108		9.362					9
137 Phorate	121		9.367					9
141 Hexachlorobenzene	284	9.403	9.403	0.0	82	15947	0.4800	
138 Diallate Peak 2	86		9.438					9
142 Atrazine	200	9.456	9.462	-0.006	90	31718	0.9624	
140 Dimethoate	87		9.514					9
144 Pentachlorophenol	266	9.568	9.567	0.001	81	11089	0.9539	
143 4-Aminobiphenyl	169		9.661					9
146 Pentachloronitrobenzene	237		9.673					
145 Pronamide	173		9.691					
149 Phenanthrene	178	9.762	9.761	0.001	69	77587	0.4553	
148 Dinoseb	211		9.802					
150 Anthracene	178	9.803	9.803	0.001	98	76255	0.4501	
147 Disulfoton	88		9.808					
152 Carbazole	167	9.926	9.932	-0.006	83	74274	0.4757	
151 DFTPP								
153 Methyl parathion	109		10.131					
154 Diphenylsulfone	125		10.147					
155 Di-n-butyl phthalate	149	10.191	10.196	-0.006	98	96900	0.5073	
156 Ethyl Parathion	97		10.454					
157 4-Nitroquinoline-1-oxide	190		10.507					
158 Methapyrilene	58		10.554					9
159 Isodrin	66		10.748					9
160 Fluoranthene	202	10.772	10.772	0.0	97	86117	0.4284	
161 Benzidine	184	10.872	10.872	0.0	96	71983	0.8760	
162 Pyrene	202	10.978	10.984	-0.006	96	90553	0.4436	
168 4,4'-DDE	246		11.036					9
29 3-Chloropropionitrile	54		11.148					
163 Aramite Peak 1	185		11.171					9
164 Aramite Peak 2	185		11.242					9
165 p-Dimethylamino azobenzene	225		11.353					
167 4,4'-DDD	235		11.371					9
166 Chlorobenzilate	139		11.389					
28 Ethyl methacrylate	69		11.477					
170 Butyl benzyl phthalate	149	11.583	11.583	0.0	92	33654	0.4327	
172 4,4'-DDT	235		11.700					9
171 3,3'-Dimethylbenzidine	212		11.712					
173 2-Acetylaminofluorene	181		12.006					
169 Famphur	218		12.223					9
177 3,3'-Dichlorobenzidine	252	12.229	12.229	0.0	63	51909	0.8048	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
175 Bis(2-ethylhexyl) phthalate	149	12.259	12.258	0.001	93	53478	0.4887	
179 Benzo[a]anthracene	228	12.276	12.282	-0.006	84	89144	0.4532	
178 Hexabromobenzene	232	12.294	12.319	-0.025	1	32570	0	
180 Chrysene	228	12.323	12.329	-0.006	91	77338	0.4284	
176 4,4'-Methylene bis(2-chloroanili	231		12.382					9
181 6-Methylchrysene	242		13.104					
182 Di-n-octyl phthalate	149	13.169	13.175	-0.006	94	67024	0.7365	
184 Benzo[b]fluoranthene	252	13.780	13.786	-0.006	89	63984	0.3972	
185 Benzo[k]fluoranthene	252	13.827	13.827	0.0	96	67210	0.3835	
183 7,12-Dimethylbenz(a)anthracene	256		13.962					
186 Benzo[a]pyrene	252	14.286	14.286	0.0	66	65539	0.4382	
187 3-Methylcholanthrene	268		15.037					9
188 Dibenz[a,j]acridine	279		15.657					
189 Dibenz[a,h]acridine	279		15.895					9
190 Indeno[1,2,3-cd]pyrene	276	16.025	16.031	-0.006	80	55178	0.3363	
191 Dibenz(a,h)anthracene	278	16.060	16.066	-0.006	51	49263	0.3602	
192 Benzo[g,h,i]perylene	276	16.471	16.477	-0.006	85	48908	0.3493	
S 193 Methyl Phenols,Total	100				0		0.9435	
S 194 Isosafrole	162		5.161					7
S 195 Diallate	86		6.289					7
S 196 Aramite, Total	185		7.806					7
T 197 Decane TIC	57	5.690	0.0	5.690	90	27902	0	
T 198 Hydroquinone TIC	110		0.000					1
T 238 Trimethyl phosphate TIC	110	4.374	4.000	0.374	0	186	0	
T 200 Hexamethylphosphoramide TIC	135	7.212	7.200	0.012	1	850	0	
T 248 2,3,7,8 TCDF TIC	322		8.600					1
T 202 Hexachlorophene TIC	198		8.600					1
T 201 Kepone TIC	272		8.600					1
T 19 2,3,7,8-TCDD	320	8.692	8.800	-0.108	1	127	0	
T 199 Octadecane (TIC)	254	9.597	9.600	-0.003	96	32925	0	
T 241 Triphenyl Phosphate TIC	326	11.371	12.250	-0.879	0	142	0	
T 240 Tricresyl phosphate TIC	368	13.075	12.750	0.325	0	78	0	
T 237 Tris(2,3-dibromopropyl)phosphate	201	14.462	14.500	-0.038	0	114	0	

QC Flag Legend

Processing Flags
1 - Missing Peaks
4 - Failed Signal Ratio Test
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

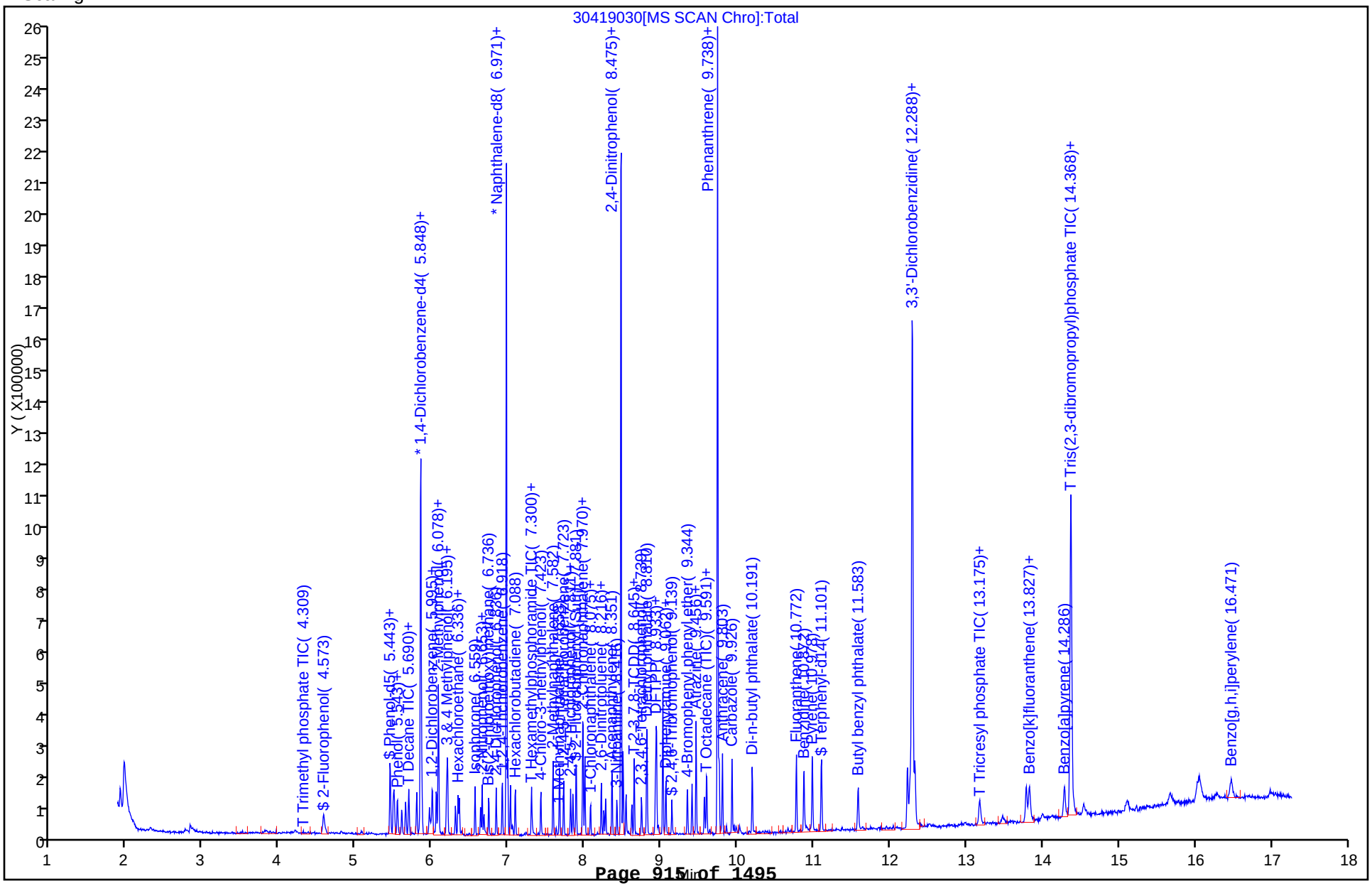
Report Date: 22-Apr-2013 14:33:49 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419030.D

Injection Date:	19-Apr-2013 21:38:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	30
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

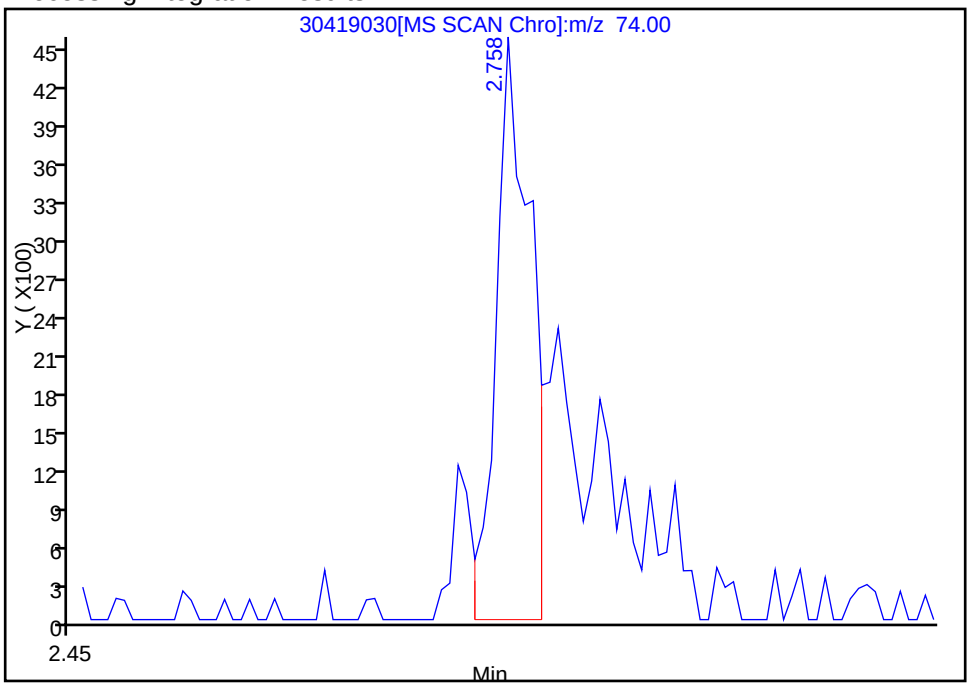
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419030.D		
Injection Date:	19-Apr-2013 21:38:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	30
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

26 N-Nitrosodimethylamine, Signal: 1, m/z: 74.0 Type: quant, RT: 2.75

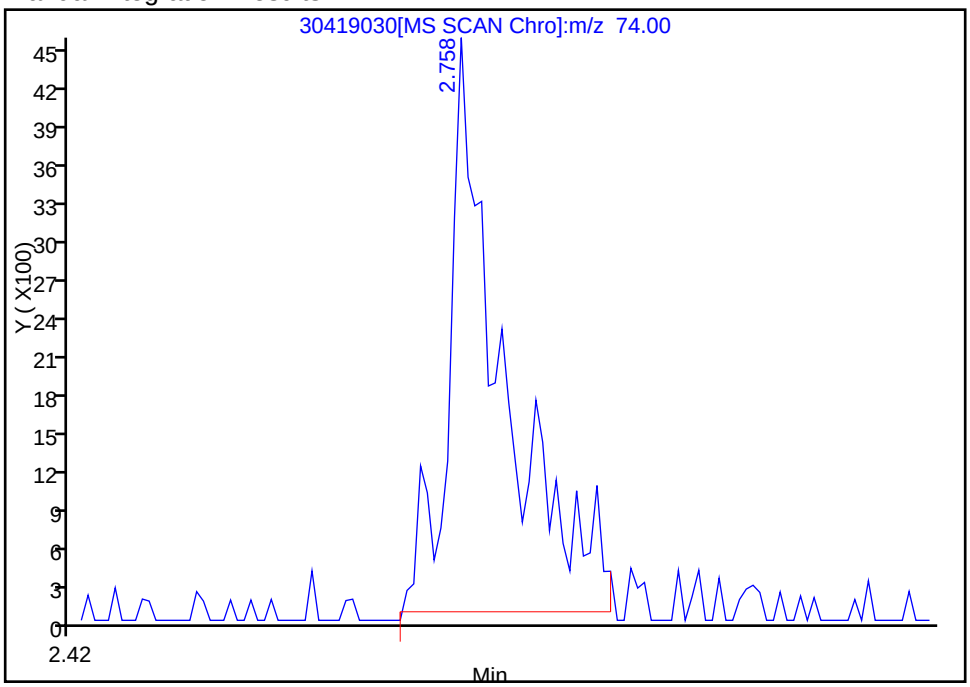
Processing Integration Results

RT: 2.76
Response: 7764
Amount: 0.253494



Manual Integration Results

RT: 2.76
Response: 14578
Amount: 0.475971



Reviewer: gruberj, 22-Apr-2013 09:37:36
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

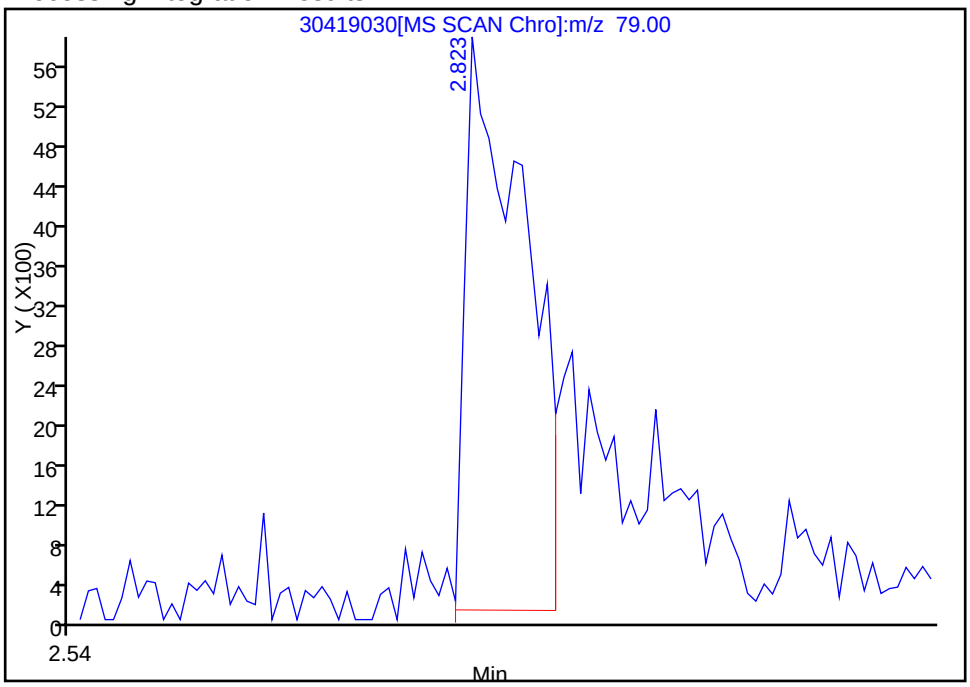
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419030.D		
Injection Date:	19-Apr-2013 21:38:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	30
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

27 Pyridine, Signal: 1, m/z: 79.0 Type: quant, RT: 2.80

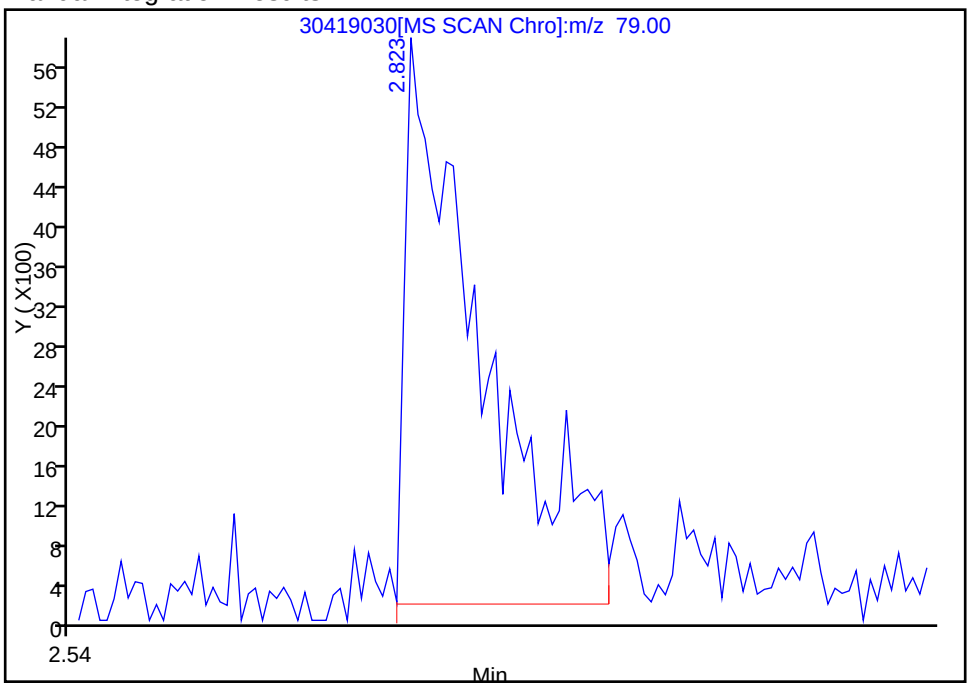
Processing Integration Results

RT: 2.82
Response: 16761
Amount: 0.295054



Manual Integration Results

RT: 2.82
Response: 25032
Amount: 0.440654



Reviewer: gruberj, 22-Apr-2013 09:37:36
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: mdll3 Calibration Date: 04/19/2013 22:01

Instrument ID: A4HP10 Calib Start Date: 04/11/2013 18:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/11/2013 21:19

Lab File ID: 30419031.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Lin1				0.912	1.00		
N-Nitrosodimethylamine	Ave	0.6668			1.03	1.00		
Pyridine	Ave	1.237			0.867	1.00		
Benzaldehyde	Ave	1.088			1.88	2.00		
Phenol	Ave	1.517			0.949	1.00		
Aniline	Ave	1.869			0.982	1.00		
Bis(2-chloroethyl)ether	Ave	1.174			0.986	1.00		
2-Chlorophenol	Ave	1.223			0.968	1.00		
1,3-Dichlorobenzene	Ave	1.322			1.02	1.00		
1,4-Dichlorobenzene	Ave	1.349			0.993	1.00		
Benzyl alcohol	Ave	0.7768			0.701	1.00		
1,2-Dichlorobenzene	Ave	1.287			0.995	1.00		
2-Methylphenol	Ave	1.105			0.990	1.00		
bis (2-chloroisopropyl) ether	Ave	1.795			0.886	1.00		
3 & 4 Methylphenol	Ave	1.151			0.950	1.00		
N-Nitrosodi-n-propylamine	Ave	0.8241			0.917	1.00		
Acetophenone	Ave	1.716			1.00	1.00		
Hexachloroethane	Ave	0.5215			0.744	1.00		
Nitrobenzene	Ave	0.3401			0.956	1.00		
Isophorone	Ave	0.6103			0.906	1.00		
2-Nitrophenol	Ave	0.1624			0.901	1.00		
2,4-Dimethylphenol	Ave	0.3114			0.871	1.00		
Benzoic acid	Qua				1.28	2.00		
Bis(2-chloroethoxy)methane	Ave	0.3595			0.964	1.00		
2,4-Dichlorophenol	Ave	0.2560			0.950	1.00		
1,2,4-Trichlorobenzene	Ave	0.2998			0.942	1.00		
Naphthalene	Ave	0.9279			0.980	1.00		
4-Chloroaniline	Ave	0.3867			0.934	1.00		
Hexachlorobutadiene	Ave	0.1834			0.907	1.00		
Caprolactam	Ave	0.0877			2.05	2.00		
4-Chloro-3-methylphenol	Ave	0.2736			0.875	1.00		
2-Methylnaphthalene	Ave	0.6242			0.933	1.00		
1-Methylnaphthalene	Ave	0.5854			0.927	1.00		
Hexachlorocyclopentadiene	Ave	0.3175			0.0537	1.00		
1,2,4,5-Tetrachlorobenzene	Ave	0.5309			0.878	1.00		
2,4,6-Trichlorophenol	Ave	0.3299			0.884	1.00		
2,4,5-Trichlorophenol	Ave	0.3422			0.856	1.00		
1,1'-Biphenyl	Ave	1.293			0.894	1.00		
2-Chloronaphthalene	Ave	0.9841			0.957	1.00		
2-Nitroaniline	Ave	0.3026			0.911	1.00		

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: mdll3 Calibration Date: 04/19/2013 22:01

Instrument ID: A4HP10 Calib Start Date: 04/11/2013 18:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/11/2013 21:19

Lab File ID: 30419031.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dimethyl phthalate	Ave	1.118			0.954	1.00		
2,6-Dinitrotoluene	Ave	0.2443			0.821	1.00		
Acenaphthylene	Ave	1.567			0.887	1.00		
3-Nitroaniline	Lin1				1.10	1.00		
Acenaphthene	Ave	1.089			0.838	1.00		
2,4-Dinitrophenol	Qua				1.29	2.00		
4-Nitrophenol	Lin1				2.01	2.00		
2,4-Dinitrotoluene	Lin1				1.00	1.00		
Dibenzofuran	Ave	1.468			0.898	1.00		
2,3,4,6-Tetrachlorophenol	Ave	0.2989			0.760	1.00		
Diethyl phthalate	Ave	1.155			0.890	1.00		
4-Chlorophenyl phenyl ether	Ave	0.6282			0.808	1.00		
4-Nitroaniline	Ave	0.2737			0.902	1.00		
Fluorene	Ave	1.193			0.906	1.00		
4,6-Dinitro-2-methylphenol	Lin1				1.17	2.00		
N-Nitrosodiphenylamine	Ave	0.4728			2.05	2.00		
1,2-Diphenylhydrazine(as Azobenzene)	Ave	0.6357			1.03	1.00		
Azobenzene	Ave	0.6357			1.03	1.00		
4-Bromophenyl phenyl ether	Ave	0.1784			0.968	1.00		
Hexachlorobenzene	Ave	0.1808			0.965	1.00		
Atrazine	Ave	0.1794			2.05	2.00		
Pentachlorophenol	Lin1				1.58	2.00		
Phenanthrene	Ave	0.9275			0.969	1.00		
Anthracene	Ave	0.9222			0.982	1.00		
Carbazole	Ave	0.8498			1.03	1.00		
Di-n-butyl phthalate	Ave	1.040			0.987	1.00		
Fluoranthene	Ave	1.094			0.891	1.00		
Benzidine	Ave	0.4158			2.13	2.00		
Pyrene	Ave	1.033			0.903	1.00		
Butyl benzyl phthalate	Ave	0.3936			0.937	1.00		
3,3'-Dichlorobenzidine	Ave	0.3264			1.81	2.00		
Bis(2-ethylhexyl) phthalate	Ave	0.5537			0.973	1.00		
Benzo[a]anthracene	Ave	0.995			0.894	1.00		
Chrysene	Ave	0.9135			0.899	1.00		
Di-n-octyl phthalate	Lin1				1.13	1.00		
Benzo[b]fluoranthene	Ave	1.074			0.816	1.00		
Benzo[k]fluoranthene	Ave	1.168			0.998	1.00		
Benzo[a]pyrene	Ave	0.997			0.883	1.00		
Indeno[1,2,3-cd]pyrene	Ave	1.093			0.754	1.00		
Dibenz(a,h)anthracene	Ave	0.9115			0.756	1.00		

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: mdll3 Calibration Date: 04/19/2013 22:01

Instrument ID: A4HP10 Calib Start Date: 04/11/2013 18:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/11/2013 21:19

Lab File ID: 30419031.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[g,h,i]perylene	Ave	0.9331			0.749	1.00		
2-Fluorophenol (Surr)	Ave	1.157			1.02	1.00	102	35-105
Phenol-d5 (Surr)	Ave	1.542			0.996	1.00	100	40-100
Nitrobenzene-d5 (Surr)	Ave	0.3740			0.936	1.00	94	35-100
2-Fluorobiphenyl (Surr)	Ave	1.290			0.876	1.00	88	45-105
2,4,6-Tribromophenol (Surr)	Ave	0.1463			0.847	1.00	85	35-125
Terphenyl-d14 (Surr)	Ave	0.7870			0.833	1.00	83	30-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419031.D
Lims ID: mdll3 Client ID:
Inject. Date: 19-Apr-2013 22:01:30 Dil. Factor: 1.0000
Sample Type: LODV
Sample ID: 240-0019044-031
Misc. Info.: MDLL3
Operator: 001710 Instrument ID: A4HP10
Injection Vol: 1.0 ul ALS Bottle#: 31
Lims Batch ID: 82653 Lims Sample ID: 31
Detector: MS SCAN

Method: \\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m
Last Update: 22-Apr-2013 13:55:53 Calib Date: 12-Apr-2013 00:58:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: 5% phenyl Column Dia: 0.18 mm
Process Host: XAWRK022

First Level Reviewer: gruberj Date: 22-Apr-2013 09:31:25

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.848	5.848	0.0	97	190136	4.00	
* 2 Naphthalene-d8	136	6.970	6.970	0.0	99	745783	4.00	
* 3 Acenaphthene-d10	164	8.475	8.475	0.0	92	454524	4.00	
* 4 Phenanthrene-d10	188	9.738	9.738	0.0	97	753811	4.00	
* 5 Chrysene-d12	240	12.294	12.294	0.0	78	824393	4.00	
* 6 Perylene-d12	264	14.368	14.368	0.0	97	625670	4.00	
$ 7 2-Fluorophenol	112	4.573	4.573	0.0	91	56381	1.02	
$ 8 Phenol-d5	99	5.490	5.490	0.0	98	72991	1.00	
$ 9 Nitrobenzene-d5	82	6.336	6.336	0.0	87	65259	0.9358	
$ 10 2-Fluorobiphenyl (Surr)	172	7.887	7.887	0.0	99	128411	0.8762	
$ 11 2,4,6-Tribromophenol	330	9.144	9.144	0.0	87	14092	0.8475	
$ 12 Terphenyl-d14	244	11.101	11.101	0.0	96	135092	0.8329	
245 Total Cresols	1		0.000					
239 3-isopropylphenol TIC	1		0.000					
244 n-Octadecane	57		0.000					
13 Dimethylformamide	1		0.000					
23 Bis(4-hydroxyphenyl)methane	1		0.000					
18 Octachlorostyrene	1		0.000					
24 Bis(2-hydroxyphenyl)methane	1		0.000					
21 2,5-Dichlorophenol	1		0.000					
243 n-Decane	57		0.000					
242 3-(1,1-Dimethylethyl Phenol) TIC	1		0.000					
250 2,3,7,8-TCDD TIC	1		0.000					
249 4-Chlorophenol TIC	1		0.000					
16 2,3-Dichlorophenol	1		0.000					
20 Octachlorocyclopentene	1		0.000					
236 4-isopropylphenol TIC	1		0.000					
247 Hexadecane	57		0.000					
234 2-Isopropylphenol TIC	1		0.000					
25 1,4-Dioxane	88	2.305	2.305	0.0	92	28360	0.9122	M

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
32 Malononitrile	66		2.451					
233 n,n'-Dimethylacetamide	44		2.478					9
35 3-Picoline	93		2.622					
26 N-Nitrosodimethylamine	74	2.758	2.746	0.012	77	32495	1.03	M
27 Pyridine	79	2.828	2.799	0.029	96	50976	0.8671	
40 4-Methylcyclohexanone	55	3.163	3.221	-0.058	1	512	0	
38 2-Methylcyclohexanone	68	3.292	3.221	0.071	1	217	0	
39 3-Methylcyclohexanone	69	3.222	3.221	0.001	1	469	0	
232 1-Methyl-2-pyrrilidinone	99		3.351					14
30 2-Picoline	93		4.091					9
67 1,3,5-Trichlorobenzene	180		4.145					
14 Catechol	110		4.161					14
31 N-Nitrosomethylethylamine	88		4.226					
22 3-Methylcatechol	124		4.460					19
34 Acrylamide	71	4.497	4.497	0.0	1	98	0	
79 1,2,3-Trichlorobenzene	180		4.535					
33 Methyl methanesulfonate	80		4.550					9
17 4-Methylcatechol	124		4.583					19
36 N-Nitrosodiethylamine	102		4.955					
90 1,2,3,5-Tetrachlorobenzene	216		5.031					
97 2,4-Toluene diamine	121		5.234					
37 Ethyl methanesulfonate	79		5.237					9
99 1,2,3,4 -Tetrachlorobenzene	216		5.250					9
41 Benzaldehyde	77	5.443	5.449	-0.006	90	97144	1.88	
43 Phenol	94	5.502	5.502	0.0	97	68427	0.9489	
42 Phenylmercaptan	110		5.539					
44 Aniline	93	5.543	5.543	0.0	98	87213	0.9819	
108 1,2-Dinitrobenzene	168		5.550					
45 Bis(2-chloroethyl)ether	93	5.596	5.601	-0.005	95	55053	0.9864	
47 2-Chlorophenol	128	5.648	5.648	0.0	94	56297	0.9681	
46 Pentachloroethane	167		5.701					
48 1,3-Dichlorobenzene	146	5.795	5.795	0.0	97	64152	1.02	
49 1,4-Dichlorobenzene	146	5.860	5.866	-0.006	88	63685	0.99	
50 Benzyl alcohol	108	5.960	5.960	0.0	89	25874	0.7008	
51 1,2-Dichlorobenzene	146	6.001	6.001	0.0	96	60871	0.99	
52 2-Methylphenol	108	6.054	6.054	0.0	92	52001	0.99	
53 Indene	115	6.077	6.077	0.0	68	213815	1.97	
54 2,2'-oxybis[1-chloropropane]	45	6.083	6.083	0.0	89	75557	0.8856	
127 Tributyl phosphate	99		6.089					9
56 3 & 4 Methylphenol	108	6.183	6.183	0.0	96	51993	0.9503	
57 N-Nitrosodi-n-propylamine	70	6.195	6.195	0.0	87	35932	0.9173	
58 Acetophenone	105	6.201	6.201	0.0	96	81573	1.00	
55 N-Nitrosopyrrolidine	100		6.277					
61 Hexachloroethane	117	6.301	6.307	-0.006	93	18437	0.7438	
59 N-Nitrosomorpholine	56		6.312					9
60 2-Toluidine	106		6.330					
62 Nitrobenzene	77	6.354	6.354	0.0	80	60601	0.9557	
64 Isophorone	82	6.559	6.559	0.0	97	103133	0.9064	
63 N-Nitrosopiperidine	114		6.582					
66 2-Nitrophenol	139	6.630	6.636	-0.006	96	27286	0.9014	
65 2,4-Dimethylphenol	107	6.653	6.653	0.0	92	50588	0.8713	
70 Benzoic acid	122	6.677	6.712	-0.035	81	24276	1.28	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
69 Bis(2-chloroethoxy)methane	93	6.735	6.741	-0.006	97	64638	0.9644	
68 o,o',o''-Triethylphosphorothioat	198		6.800					
72 2,4-Dichlorophenol	162	6.835	6.835	0.0	94	45336	0.9497	
71 alpha,alpha-Dimethyl phenethylam	58		6.906					9
73 1,2,4-Trichlorobenzene	180	6.918	6.918	0.0	88	52638	0.9416	
74 Naphthalene	128	6.988	6.988	0.0	95	169551	0.9800	
75 4-Chloroaniline	127	7.023	7.023	0.0	91	67341	0.9340	
78 Hexachlorobutadiene	225	7.088	7.088	0.0	89	31024	0.9071	
76 2,6-Dichlorophenol	162		7.123					
77 Hexachloropropene	213		7.158					
80 Benzothiazole	135		7.243					9
83 Caprolactam	113	7.300	7.317	-0.017	75	33526	2.05	
81 Quinoline	129		7.364					
82 N-Nitrosodi-n-butylamine	84		7.387					
84 p-Phenylene diamine	108		7.411					9
85 4-Chloro-3-methylphenol	107	7.423	7.423	0.0	92	44604	0.8745	
87 2-Methylnaphthalene	142	7.582	7.582	0.0	88	108589	0.9330	
86 Safrole, Total	162		7.587					
88 1-Methylnaphthalene	142	7.664	7.670	-0.006	82	101156	0.9268	
89 Hexachlorocyclopentadiene	237	7.711	7.711	0.0	31	1937	0.0537	
92 1,2,4,5-Tetrachlorobenzene	216	7.723	7.723	0.0	93	52999	0.8785	
93 2,4,6-Trichlorophenol	196	7.811	7.811	0.0	92	33156	0.8844	
95 Isosafrole Peak 1	162		7.834					9
94 2,4,5-Trichlorophenol	196	7.840	7.846	-0.006	93	33271	0.8557	
96 3,4-Dichloronitrobenzene	109		7.967					
98 1,1'-Biphenyl	154	7.975	7.975	0.0	95	131313	0.8935	
100 2-Chloronaphthalene	162	7.999	7.999	0.0	96	107075	0.9575	
91 Isosafrole Peak 2	162		8.028					9
102 2-Nitroaniline	65	8.075	8.075	0.0	79	31317	0.9107	
101 Phenyl ether	170		8.089					9
246 1-Chloronaphthalene	162		8.116					1
105 Dimethyl phthalate	163	8.216	8.216	0.0	98	121229	0.9540	
103 1,4-Naphthoquinone	158		8.239					
106 1,3-Dinitrobenzene	168	8.251	8.251	0.0	89	15139	0.9629	
107 2,6-Dinitrotoluene	165	8.275	8.275	0.0	77	22797	0.8213	
104 1,4-Dinitrobenzene	168		8.280					
109 Acenaphthylene	152	8.357	8.357	0.0	93	157868	0.8865	
110 3-Nitroaniline	138	8.422	8.422	0.0	96	28955	1.10	
112 Acenaphthene	153	8.498	8.504	-0.006	88	103691	0.8379	
111 2,4-Dinitrophenol	184	8.510	8.510	0.0	31	2069	1.29	
113 4-Nitrophenol	109	8.539	8.539	0.0	90	28639	2.01	
114 2,4-Dinitrotoluene	165	8.616	8.616	0.0	85	30601	1.00	
116 Dibenzofuran	168	8.645	8.645	0.0	88	149754	0.8979	
174 3,3'-Dimethoxybenzidine	244		8.648					
115 Pentachlorobenzene	250		8.704					
119 2,3,4,6-Tetrachlorophenol	232	8.739	8.739	0.0	72	25823	0.7603	
117 2,3,5,6-Tetrachlorophenol	232		8.798					
118 1-Naphthylamine	143		8.803					9
121 Diethyl phthalate	149	8.810	8.815	-0.005	97	116743	0.8897	
120 2-Naphthylamine	143		8.874					9
123 4-Chlorophenyl phenyl ether	204	8.927	8.927	0.0	91	57654	0.8077	
126 Fluorene	166	8.939	8.939	0.0	91	122895	0.9063	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
125 4-Nitroaniline	138	8.933	8.939	-0.006	77	28051	0.9020	
128 4,6-Dinitro-2-methylphenol	198	8.956	8.962	-0.006	70	8577	1.17	
122 Thionazin	97		8.974					9
129 N-Nitrosodiphenylamine	169	9.021	9.027	-0.006	97	182329	2.05	
124 N-Nitro-o-toluidine	152		9.033					
132 Azobenzene	77	9.062	9.062	0.0	99	122894	1.03	
131 1,2-Diphenylhydrazine	77	9.062	9.062	0.0	96	122911	1.03	
130 Diphenylamine	169	9.021	9.115	-0.094	94	182329	1.74	
133 Sulfotepp	202		9.232					
134 1,3,5-Trinitrobenzene	213		9.315					
139 4-Bromophenyl phenyl ether	248	9.344	9.344	0.0	66	32552	0.9682	
135 Diallate Peak 1	86		9.356					
136 Phenacetin	108		9.362					9
137 Phorate	121		9.367					9
141 Hexachlorobenzene	284	9.403	9.403	0.0	89	32896	0.9654	
138 Diallate Peak 2	86		9.438					
142 Atrazine	200	9.456	9.462	-0.006	92	69228	2.05	
140 Dimethoate	87		9.514					9
144 Pentachlorophenol	266	9.568	9.567	0.001	83	27184	1.58	
143 4-Aminobiphenyl	169		9.661					9
146 Pentachloronitrobenzene	237		9.673					9
145 Pronamide	173		9.691					
149 Phenanthrene	178	9.761	9.761	0.0	93	169284	0.9685	
148 Dinoseb	211		9.802					
150 Anthracene	178	9.803	9.803	0.001	98	170720	0.9824	
147 Disulfoton	88		9.808					
152 Carbazole	167	9.926	9.932	-0.006	83	165432	1.03	
151 DFTPP								
153 Methyl parathion	109		10.131					9
154 Diphenylsulfone	125		10.147					
155 Di-n-butyl phthalate	149	10.196	10.196	0.0	100	193280	0.9866	
156 Ethyl Parathion	97		10.454					
157 4-Nitroquinoline-1-oxide	190		10.507					
158 Methapyrilene	58		10.554					
159 Isodrin	66		10.748					9
160 Fluoranthene	202	10.772	10.772	0.0	98	183725	0.8911	
161 Benzidine	184	10.872	10.872	0.0	99	182752	2.13	
162 Pyrene	202	10.984	10.984	0.0	96	192336	0.9034	
168 4,4'-DDE	246		11.036					9
29 3-Chloropropionitrile	54		11.148					9
163 Aramite Peak 1	185		11.171					
164 Aramite Peak 2	185		11.242					9
165 p-Dimethylamino azobenzene	225		11.353					
167 4,4'-DDD	235		11.371					
166 Chlorobenzilate	139		11.389					9
28 Ethyl methacrylate	69		11.477					9
170 Butyl benzyl phthalate	149	11.583	11.583	0.0	98	76007	0.9371	
172 4,4'-DDT	235		11.700					9
171 3,3'-Dimethylbenzidine	212		11.712					
173 2-Acetylaminofluorene	181		12.006					
169 Famphur	218		12.223					9
177 3,3'-Dichlorobenzidine	252	12.229	12.229	0.0	70	121516	1.81	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
175 Bis(2-ethylhexyl) phthalate	149	12.259	12.258	0.0	94	111057	0.9732	
179 Benzo[a]anthracene	228	12.276	12.282	-0.006	83	183404	0.8942	
178 Hexabromobenzene	232	12.294	12.319	-0.025	1	34695	0	
180 Chrysene	228	12.329	12.329	0.0	84	169188	0.8987	
176 4,4'-Methylene bis(2-chloroanili	231		12.382					9
181 6-Methylchrysene	242		13.104					
182 Di-n-octyl phthalate	149	13.175	13.175	0.0	99	149771	1.13	
184 Benzo[b]fluoranthene	252	13.786	13.786	0.0	92	137105	0.8165	
185 Benzo[k]fluoranthene	252	13.827	13.827	0.0	81	182306	1.00	
183 7,12-Dimethylbenz(a)anthracene	256		13.962					
186 Benzo[a]pyrene	252	14.286	14.286	0.0	72	137664	0.8830	
187 3-Methylcholanthrene	268		15.037					
188 Dibenz[a,j]acridine	279		15.657					
189 Dibenz[a,h]acridine	279		15.895					9
190 Indeno[1,2,3-cd]pyrene	276	16.025	16.031	-0.006	98	129018	0.7544	
191 Dibenz(a,h)anthracene	278	16.060	16.066	-0.006	64	107761	0.7559	
192 Benzo[g,h,i]perylene	276	16.471	16.477	-0.006	84	109350	0.7492	
S 193 Methyl Phenols,Total	100				0		1.94	
S 194 Isosafrole	162		5.161					7
S 195 Diallate	86		6.289					7
S 196 Aramite, Total	185		7.806					7
T 197 Decane TIC	57	5.690	0.0	5.690	97	60934	0	
T 198 Hydroquinone TIC	110		0.000					1
T 238 Trimethyl phosphate TIC	110	4.033	4.000	0.033	0	210	0	
T 200 Hexamethylphosphoramide TIC	135	7.206	7.200	0.006	12	1115	0	
T 248 2,3,7,8 TCDF TIC	322		8.600					1
T 202 Hexachlorophene TIC	198		8.600					1
T 201 Kepone TIC	272		8.600					
T 19 2,3,7,8-TCDD	320		8.800					1
T 199 Octadecane (TIC)	254	9.597	9.600	-0.003	93	66265	0	
T 241 Triphenyl Phosphate TIC	326	12.617	12.250	0.367	0	191	0	
T 240 Tricresyl phosphate TIC	368		12.750					1
T 237 Tris(2,3-dibromopropyl)phosphate	201	14.515	14.500	0.015	0	152	0	

QC Flag Legend

Processing Flags
1 - Missing Peaks
4 - Failed Signal Ratio Test
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

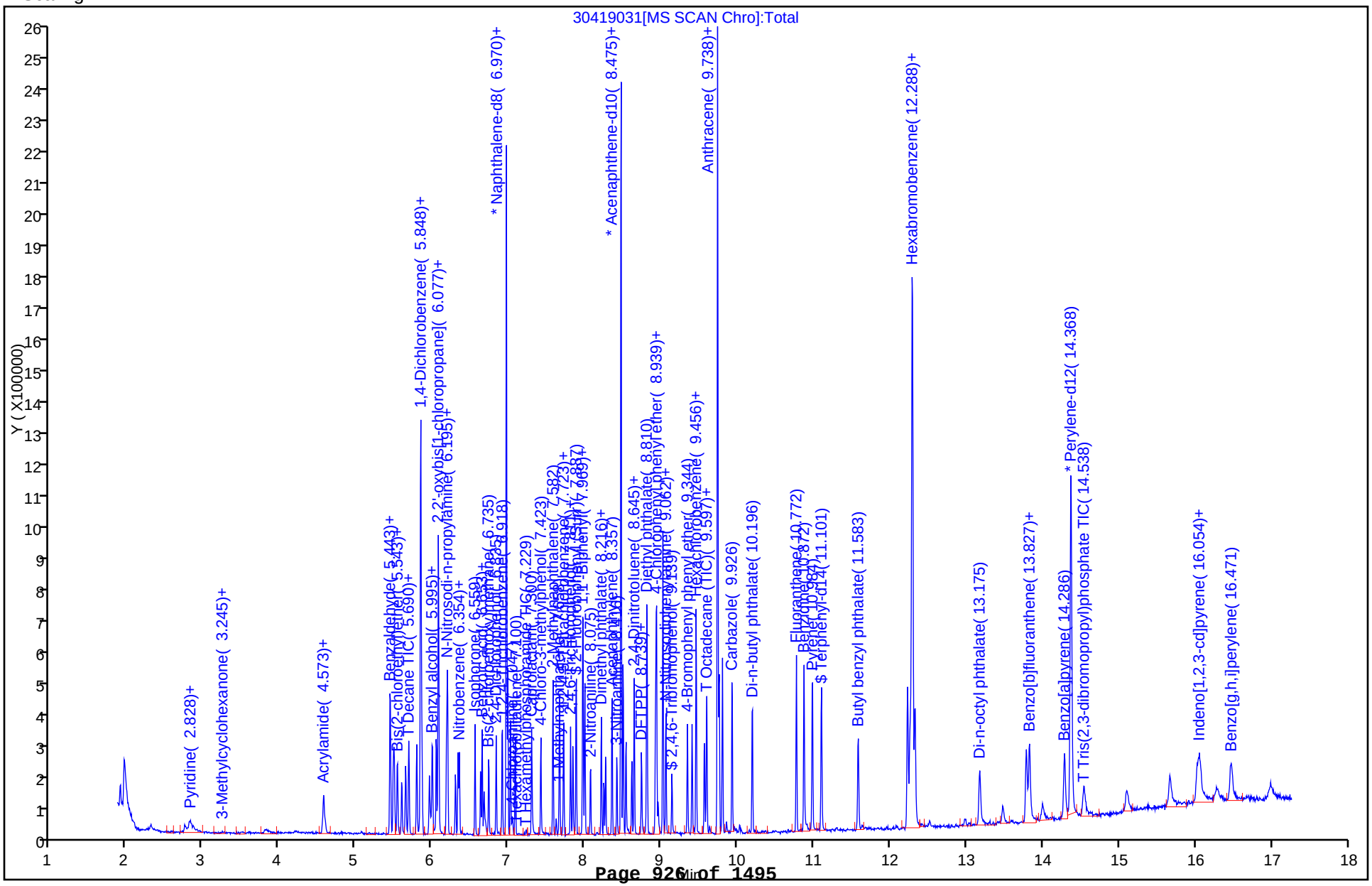
Report Date: 22-Apr-2013 14:33:50 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419031.D

Injection Date:	19-Apr-2013 22:01:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	31
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

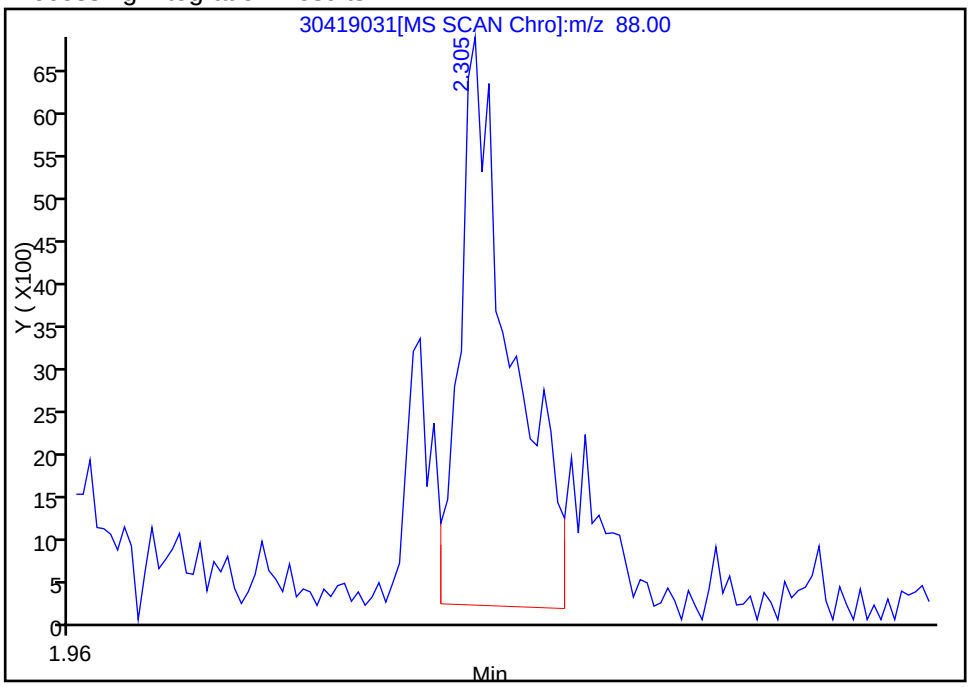
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419031.D		
Injection Date:	19-Apr-2013 22:01:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	31
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

25 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 2.31

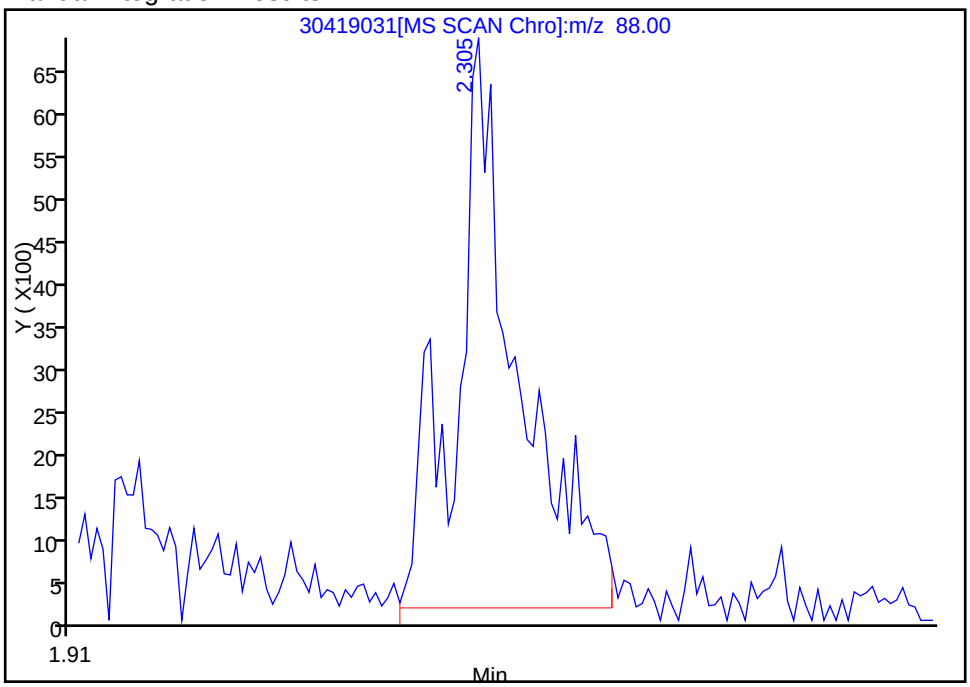
Processing Integration Results

RT: 2.31
Response: 20412
Amount: 0.602089



Manual Integration Results

RT: 2.31
Response: 28360
Amount: 0.912232



Reviewer: gruberj, 22-Apr-2013 09:31:25
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

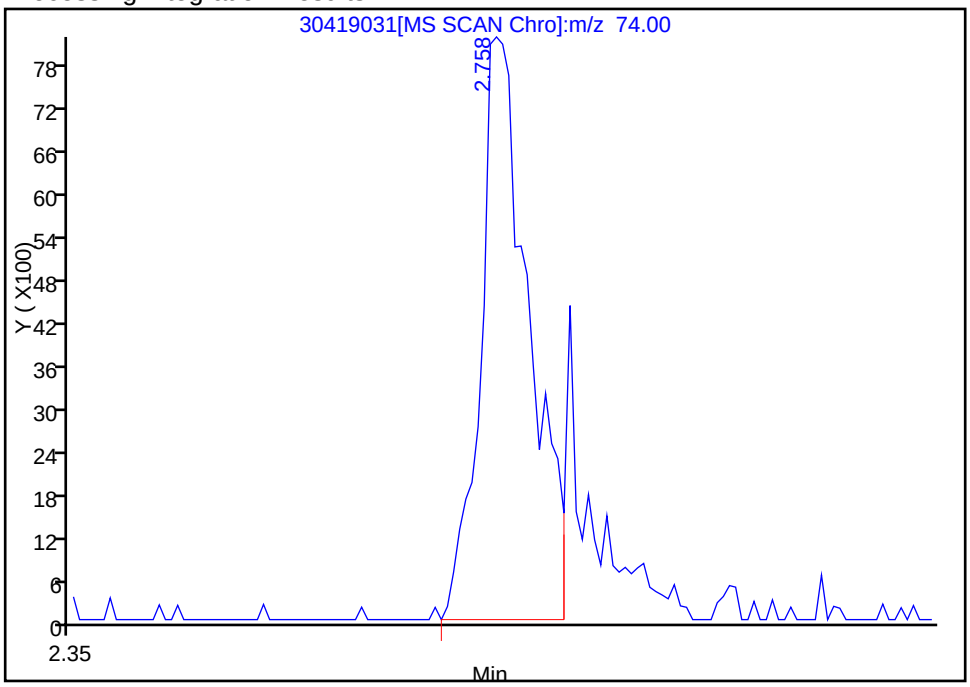
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419031.D		
Injection Date:	19-Apr-2013 22:01:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	31
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

26 N-Nitrosodimethylamine, Signal: 1, m/z: 74.0 Type: quant, RT: 2.75

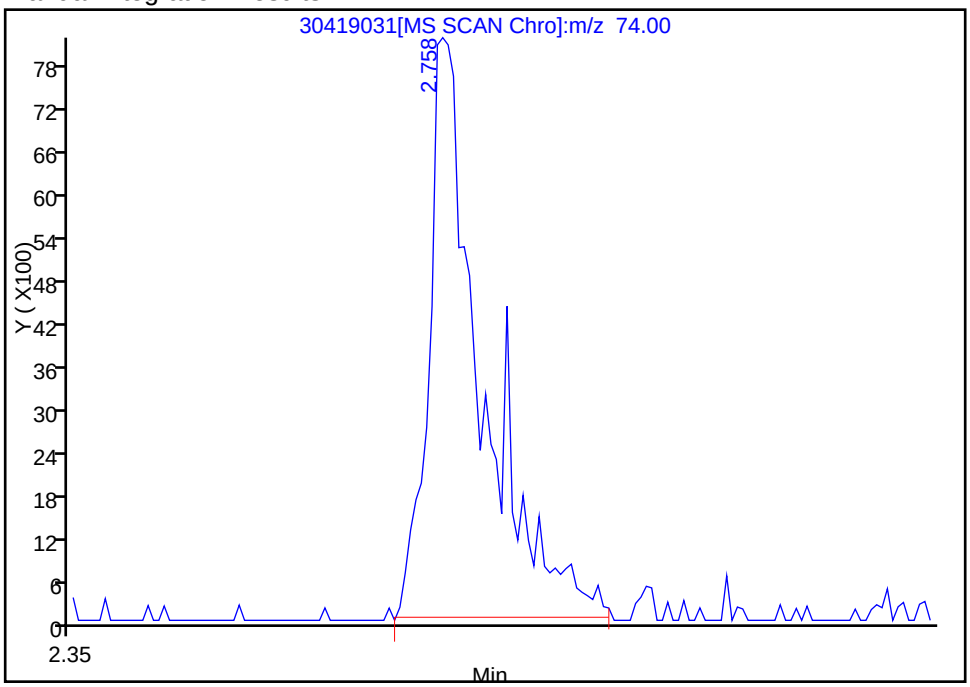
Processing Integration Results

RT: 2.76
Response: 26510
Amount: 0.836384



Manual Integration Results

RT: 2.76
Response: 32495
Amount: 1.025210



Reviewer: gruberj, 22-Apr-2013 09:31:25
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: ICV 240-82668/11 Calibration Date: 04/19/2013 14:38

Instrument ID: A4HP9 Calib Start Date: 04/19/2013 10:42

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/19/2013 14:12

Lab File ID: 30419111.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.8157	0.8006	0.0500	9.82	10.0	-1.8	20.0
N-Nitrosodimethylamine	Ave	1.347	1.245	0.0500	9.24	10.0	-7.6	20.0
Pyridine	Ave	2.249	2.139	0.0500	9.51	10.0	-4.9	20.0
Benzaldehyde	Ave	1.740	1.630	0.0500	18.7	20.0	-6.3	20.0
Phenol	Ave	2.247	2.136	0.0500	9.51	10.0	-4.9	20.0
Aniline	Ave	2.901	2.796	0.0500	9.64	10.0	-3.6	20.0
Bis(2-chloroethyl)ether	Ave	2.012	1.866	0.0500	9.27	10.0	-7.3	20.0
2-Chlorophenol	Ave	1.291	1.237	0.0500	9.58	10.0	-4.2	20.0
1,3-Dichlorobenzene	Ave	1.354	1.299	0.0500	9.59	10.0	-4.1	20.0
1,4-Dichlorobenzene	Ave	1.394	1.326	0.0500	9.51	10.0	-4.9	20.0
Benzyl alcohol	Ave	1.007	0.9763	0.0500	9.69	10.0	-3.1	20.0
1,2-Dichlorobenzene	Ave	1.294	1.220	0.0500	9.43	10.0	-5.7	20.0
2-Methylphenol	Ave	1.428	1.395	0.0500	9.77	10.0	-2.3	20.0
bis (2-chloroisopropyl) ether	Ave	1.884	1.941	0.0500	7.42	7.20	3.0	20.0
3 & 4 Methylphenol	Ave	1.486	1.456	0.0500	9.80	10.0	-2.0	20.0
N-Nitrosodi-n-propylamine	Ave	1.519	1.478	0.0500	9.73	10.0	-2.7	20.0
Acetophenone	Ave	2.373	2.248	0.0500	9.47	10.0	-5.3	20.0
Hexachloroethane	Ave	0.6609	0.6329	0.0500	9.58	10.0	-4.2	20.0
Nitrobenzene	Ave	0.5342	0.5105	0.0500	9.56	10.0	-4.4	20.0
Isophorone	Ave	0.8841	0.8881	0.0500	10.0	10.0	0.5	20.0
2,4-Dimethylphenol	Ave	0.3749	0.3532	0.0500	9.42	10.0	-5.8	20.0
2-Nitrophenol	Ave	0.1587	0.1526	0.0500	9.62	10.0	-3.8	20.0
Benzoic acid	Lin1		0.1839	0.0500	18.7	20.0	-6.7	20.0
Bis(2-chloroethoxy)methane	Ave	0.5117	0.4766	0.0500	9.31	10.0	-6.9	20.0
2,4-Dichlorophenol	Ave	0.2455	0.2294	0.0500	9.35	10.0	-6.5	20.0
1,2,4-Trichlorobenzene	Ave	0.2812	0.2596	0.0500	9.23	10.0	-7.7	20.0
Naphthalene	Ave	0.9675	0.8857	0.0500	9.15	10.0	-8.5	20.0
4-Chloroaniline	Ave	0.5086	0.4651	0.0500	9.14	10.0	-8.6	20.0
Hexachlorobutadiene	Ave	0.1665	0.1572	0.0500	9.44	10.0	-5.6	20.0
Caprolactam	Ave	0.1089	0.1032	0.0500	18.9	20.0	-5.3	20.0
4-Chloro-3-methylphenol	Ave	0.3343	0.3117	0.0500	9.32	10.0	-6.8	20.0
2-Methylnaphthalene	Ave	0.6099	0.5597	0.0500	9.18	10.0	-8.2	20.0
1-Methylnaphthalene	Ave	0.5701	0.5209	0.0500	9.14	10.0	-8.6	20.0
Hexachlorocyclopentadiene	Ave	0.3194	0.3251	0.0500	10.2	10.0	1.8	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.4596	0.4307	0.0500	9.37	10.0	-6.3	20.0
2,4,6-Trichlorophenol	Ave	0.2912	0.2927	0.0500	10.1	10.0	0.5	20.0
2,4,5-Trichlorophenol	Ave	0.2972	0.3010	0.0500	10.1	10.0	1.3	20.0
1,1'-Biphenyl	Ave	1.334	1.241	0.0500	9.31	10.0	-6.9	20.0
2-Chloronaphthalene	Ave	0.9937	0.9282	0.0500	9.34	10.0	-6.6	20.0
2-Nitroaniline	Ave	0.4379	0.4586	0.0500	10.5	10.0	4.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: ICV 240-82668/11 Calibration Date: 04/19/2013 14:38

Instrument ID: A4HP9 Calib Start Date: 04/19/2013 10:42

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/19/2013 14:12

Lab File ID: 30419111.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dimethyl phthalate	Ave	1.041	0.9939	0.0500	9.54	10.0	-4.6	20.0
2,6-Dinitrotoluene	Ave	0.2401	0.2362	0.0500	9.84	10.0	-1.6	20.0
Acenaphthylene	Ave	1.537	1.485	0.0500	9.66	10.0	-3.4	20.0
3-Nitroaniline	Ave	0.2581	0.2271	0.0500	8.80	10.0	-12.0	20.0
2,4-Dinitrophenol	Qua		0.1385	0.0500	18.5	20.0	-7.4	20.0
4-Nitrophenol	Ave	0.2135	0.2182	0.0500	20.4	20.0	2.2	20.0
Acenaphthene	Ave	0.9699	0.9508	0.0500	9.80	10.0	-2.0	20.0
2,4-Dinitrotoluene	Ave	0.3054	0.2856	0.0500	9.35	10.0	-6.5	20.0
Dibenzofuran	Ave	1.399	1.325	0.0500	9.47	10.0	-5.3	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2312	0.2244	0.0500	9.71	10.0	-2.9	20.0
Diethyl phthalate	Ave	0.9697	0.8350	0.0500	8.61	10.0	-13.9	20.0
4-Chlorophenyl phenyl ether	Ave	0.5480	0.5281	0.0500	9.64	10.0	-3.6	20.0
4-Nitroaniline	Lin		0.2605	0.0500	8.82	10.0	-11.8	20.0
Fluorene	Ave	1.097	1.067	0.0500	9.73	10.0	-2.7	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1460	0.0500	20.5	20.0	2.7	20.0
N-Nitrosodiphenylamine	Ave	0.4711	0.4558	0.0500	19.3	20.0	-3.3	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	1.162	1.281	0.0500	11.0	10.0	10.3	20.0
Azobenzene	Ave	1.162	1.281	0.0500	11.0	10.0	10.2	20.0
4-Bromophenyl phenyl ether	Ave	0.1776	0.1811	0.0500	10.2	10.0	2.0	20.0
Atrazine	Qua		0.2037	0.0500	19.7	20.0	-1.3	20.0
Hexachlorobenzene	Ave	0.1811	0.1910	0.0500	10.5	10.0	5.5	20.0
Pentachlorophenol	Lin1		0.1281	0.0500	20.9	20.0	4.3	20.0
Phenanthrene	Ave	0.9870	0.9193	0.0500	9.31	10.0	-6.9	20.0
Anthracene	Ave	0.9760	0.9574	0.0500	9.81	10.0	-1.9	20.0
Carbazole	Lin1		0.9648	0.0500	9.92	10.0	-0.8	20.0
Di-n-butyl phthalate	Lin1		1.255	0.0500	10.4	10.0	3.8	20.0
Fluoranthene	Lin		1.250	0.0500	10.4	10.0	4.5	20.0
Benzidine	Ave	0.3909	0.4285	0.0500	21.9	20.0	9.6	20.0
Pyrene	Ave	0.8829	0.9536	0.0500	10.8	10.0	8.0	20.0
Butyl benzyl phthalate	Ave	0.4024	0.4109	0.0500	10.2	10.0	2.1	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5389	0.5522	0.0500	10.2	10.0	2.5	20.0
3,3'-Dichlorobenzidine	Ave	0.3046	0.3211	0.0500	21.1	20.0	5.4	20.0
Benzo[a]anthracene	Ave	0.9456	0.9148	0.0500	9.67	10.0	-3.3	20.0
Chrysene	Ave	0.9101	0.9128	0.0500	10.0	10.0	0.3	20.0
Di-n-octyl phthalate	Lin1		1.184	0.0500	8.84	10.0	-11.6	20.0
Benzo[b]fluoranthene	Ave	1.034	0.9806	0.0500	9.48	10.0	-5.2	20.0
Benzo[k]fluoranthene	Ave	1.172	1.129	0.0500	9.63	10.0	-3.7	20.0
Benzo[a]pyrene	Ave	1.013	0.9451	0.0500	9.33	10.0	-6.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.028	0.9311	0.0500	9.06	10.0	-9.4	20.0
Dibenz(a,h)anthracene	Ave	0.8370	0.8070	0.0500	9.64	10.0	-3.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: ICV 240-82668/11 Calibration Date: 04/19/2013 14:38

Instrument ID: A4HP9 Calib Start Date: 04/19/2013 10:42

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/19/2013 14:12

Lab File ID: 30419111.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[g,h,i]perylene	Ave	0.8490	0.7763	0.0500	9.14	10.0	-8.6	20.0
2-Fluorophenol (Surr)	Ave	1.625	1.665	0.0500	10.2	10.0	2.4	20.0
Phenol-d5 (Surr)	Ave	2.183	2.276	0.0500	10.4	10.0	4.3	20.0
Nitrobenzene-d5 (Surr)	Ave	0.5898	0.6009	0.0500	10.2	10.0	1.9	20.0
2-Fluorobiphenyl (Surr)	Ave	1.191	1.201	0.0500	10.1	10.0	0.9	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1293	0.1275	0.0500	9.86	10.0	-1.4	20.0
Terphenyl-d14 (Surr)	Ave	0.7168	0.7545	0.0500	10.5	10.0	5.2	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419111.D
Lims ID: icv tcl Client ID:
Inject. Date: 19-Apr-2013 14:38:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0019052-011
Misc. Info.: ICV TCL =ICV TCL
Operator: 001574 Instrument ID: A4HP9
Injection Vol: 1.0 ul ALS Bottle#: 11
Lims Batch ID: 82668 Lims Sample ID: 11
Sublist:
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\8270 _9.m
Last Update: 19-Apr-2013 15:21:00 Calib Date: 19-Apr-2013 14:12:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419110.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: 5% phenyl Column Dia: 0.18 mm
Process Host: XAWRK006

First Level Reviewer: ulmanm Date: 19-Apr-2013 15:21:00

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.750	6.753	-0.003	94	184345	4.00	
* 2 Naphthalene-d8	136	7.862	7.859	0.003	99	782369	4.00	
* 3 Acenaphthene-d10	164	9.368	9.371	-0.003	82	449358	4.00	
* 4 Phenanthrene-d10	188	10.645	10.647	-0.002	97	632105	4.00	
* 5 Chrysene-d12	240	13.033	13.030	0.003	79	876638	4.00	
* 6 Perylene-d12	264	15.111	15.108	0.003	94	726232	4.00	
$ 7 2-Fluorophenol	112	5.554	5.551	0.003	94	767224	10.2	
$ 8 Phenol-d5	99	6.376	6.374	0.002	94	1049120	10.4	
$ 9 Nitrobenzene-d5	82	7.220	7.223	-0.003	84	1175209	10.2	
$ 10 2-Fluorobiphenyl (Surr)	172	8.754	8.756	-0.002	99	1349265	10.1	
$ 11 2,4,6-Tribromophenol	330	10.041	10.038	0.003	90	143208	9.86	
$ 12 Terphenyl-d14	244	11.959	11.962	-0.003	97	1653446	10.5	
247 Hexadecane	57		0.000					
244 n-Octadecane	57		0.000					
243 n-Decane	57		0.000					
25 1,4-Dioxane	88	3.588	3.585	0.003	92	368967	9.82	M
26 N-Nitrosodimethylamine	74	4.037	4.034	0.003	84	573838	9.24	
27 Pyridine	79	4.090	4.093	-0.003	92	985707	9.51	
41 Benzaldehyde	77	6.360	6.363	-0.003	88	1502550	18.7	
43 Phenol	94	6.387	6.390	-0.003	87	984377	9.51	
44 Aniline	93	6.451	6.449	0.002	97	1288437	9.64	
69 Bis(2-chloroethyl)ether	93	6.478	6.481	-0.003	95	860005	9.27	
46 2-Chlorophenol	128	6.569	6.566	0.003	89	570007	9.58	
47 1,3-Dichlorobenzene	146	6.708	6.710	-0.002	81	598525	9.59	
48 1,4-Dichlorobenzene	146	6.766	6.769	-0.003	82	610951	9.51	
49 Benzyl alcohol	108	6.841	6.838	0.003	83	449944	9.69	
50 1,2-Dichlorobenzene	146	6.911	6.908	0.003	83	562330	9.43	
51 2-Methylphenol	108	6.921	6.919	0.002	95	642905	9.77	
53 2,2'-oxybis[1-chloropropane]	45	6.953	6.951	0.002	93	644039	7.42	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
52 Indene	115	6.985	6.983	0.002	68	2309869	18.9	
21 3 & 4 Methylphenol	108	7.044	7.047	-0.003	93	670872	9.80	
57 N-Nitrosodi-n-propylamine	70	7.066	7.063	0.003	71	680924	9.73	
58 Acetophenone	105	7.082	7.079	0.003	76	1036022	9.47	
61 Hexachloroethane	117	7.215	7.212	0.003	82	291679	9.58	
62 Nitrobenzene	77	7.237	7.239	-0.003	74	998407	9.56	
64 Isophorone	82	7.434	7.431	0.003	95	1737106	10.0	
65 2,4-Dimethylphenol	107	7.509	7.506	0.003	94	690855	9.42	
66 2-Nitrophenol	139	7.514	7.517	-0.003	78	298541	9.62	
71 Benzoic acid	122	7.562	7.560	0.002	62	719182	18.7	M
70 Bis(2-chloroethoxy)methane	93	7.584	7.586	-0.002	94	932137	9.31	
73 2,4-Dichlorophenol	162	7.717	7.715	0.002	93	448731	9.35	
74 1,2,4-Trichlorobenzene	180	7.803	7.800	0.003	86	507798	9.23	
75 Naphthalene	128	7.878	7.880	-0.002	99	1732304	9.15	
76 4-Chloroaniline	127	7.894	7.891	0.003	76	909700	9.14	
79 Hexachlorobutadiene	225	7.974	7.976	-0.002	90	307551	9.44	
84 Caprolactam	113	8.177	8.174	0.003	81	403592	18.9	
86 4-Chloro-3-methylphenol	107	8.273	8.276	-0.003	82	609588	9.32	
87 2-Methylnaphthalene	142	8.465	8.468	-0.003	86	1094739	9.18	
88 1-Methylnaphthalene	142	8.556	8.553	0.003	80	1018823	9.14	
89 Hexachlorocyclopentadiene	237	8.604	8.607	-0.003	96	365197	10.2	
91 1,2,4,5-Tetrachlorobenzene	216	8.615	8.612	0.003	96	483804	9.37	
92 2,4,6-Trichlorophenol	196	8.690	8.692	-0.002	86	328815	10.1	
93 2,4,5-Trichlorophenol	196	8.727	8.730	-0.003	87	338137	10.1	
98 1,1'-Biphenyl	154	8.850	8.852	-0.002	96	1394461	9.31	
100 2-Chloronaphthalene	162	8.887	8.890	-0.003	98	1042762	9.34	
102 2-Nitroaniline	65	8.946	8.943	0.003	70	515135	10.5	
105 Dimethyl phthalate	163	9.064	9.066	-0.002	94	1116501	9.54	
106 1,3-Dinitrobenzene	168	9.112	9.109	0.003	81	183507	9.65	
107 2,6-Dinitrotoluene	165	9.133	9.130	0.003	61	265312	9.84	
109 Acenaphthylene	152	9.251	9.253	-0.003	86	1668026	9.66	
110 3-Nitroaniline	138	9.288	9.291	-0.003	83	255142	8.80	
111 2,4-Dinitrophenol	184	9.373	9.376	-0.003	70	311188	18.5	
113 4-Nitrophenol	109	9.389	9.392	-0.003	87	490332	20.4	
112 Acenaphthene	153	9.395	9.397	-0.002	93	1068173	9.80	
114 2,4-Dinitrotoluene	165	9.480	9.483	-0.003	74	320844	9.35	
116 Dibenzofuran	168	9.539	9.542	-0.003	83	1488729	9.47	
119 2,3,4,6-Tetrachlorophenol	232	9.635	9.632	0.003	72	252130	9.71	
121 Diethyl phthalate	149	9.656	9.659	-0.003	92	938078	8.61	
123 4-Chlorophenyl phenyl ether	204	9.801	9.798	0.003	94	593310	9.64	
125 4-Nitroaniline	138	9.811	9.814	-0.003	77	292680	8.82	
126 Fluorene	166	9.833	9.835	-0.002	80	1198499	9.73	
128 4,6-Dinitro-2-methylphenol	198	9.838	9.841	-0.003	73	461465	20.5	
131 N-Nitrosodiphenylamine	169	9.892	9.894	-0.002	99	1440470	19.3	
132 1,2-Diphenylhydrazine	77	9.934	9.937	-0.003	99	2024158	11.0	
133 Azobenzene	77	9.934	9.937	-0.003	95	2024045	11.0	
139 4-Bromophenyl phenyl ether	248	10.223	10.220	0.003	70	286152	10.2	
142 Atrazine	200	10.308	10.306	0.002	87	643685	19.7	
141 Hexachlorobenzene	284	10.324	10.322	0.002	78	301803	10.5	
143 Pentachlorophenol	266	10.469	10.471	-0.003	82	404968	20.9	
148 Phenanthrene	178	10.666	10.669	-0.003	98	1452699	9.31	
149 Anthracene	178	10.709	10.712	-0.003	88	1512998	9.81	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
151 Carbazole	167	10.821	10.818	0.003	83	1524636	9.92	
154 Di-n-butyl phthalate	149	11.035	11.037	-0.002	100	1982947	10.4	
159 Fluoranthene	202	11.687	11.689	-0.003	99	1975955	10.4	
160 Benzidine	184	11.745	11.748	-0.003	99	1878205	21.9	
161 Pyrene	202	11.895	11.892	0.003	96	2089985	10.8	
168 Butyl benzyl phthalate	149	12.338	12.336	0.002	89	900447	10.2	
173 Bis(2-ethylhexyl) phthalate	149	12.862	12.859	0.003	94	1210296	10.2	
175 3,3'-Dichlorobenzidine	252	12.926	12.929	-0.003	64	1407279	21.1	
177 Benzo[a]anthracene	228	13.017	13.019	-0.002	89	2004933	9.67	
178 Chrysene	228	13.059	13.062	-0.003	93	2000533	10.0	
180 Di-n-octyl phthalate	149	13.615	13.618	-0.003	99	2150175	8.84	
182 Benzo[b]fluoranthene	252	14.448	14.451	-0.003	86	1780284	9.48	
183 Benzo[k]fluoranthene	252	14.491	14.494	-0.003	86	2048879	9.63	
184 Benzo[a]pyrene	252	15.015	15.017	-0.002	76	1715979	9.33	
188 Indeno[1,2,3-cd]pyrene	276	17.429	17.432	-0.003	91	1690550	9.06	
189 Dibenz(a,h)anthracene	278	17.435	17.437	-0.002	64	1465209	9.64	
190 Benzo[g,h,i]perylene	276	18.150	18.153	-0.003	92	1409450	9.14	

QC Flag Legend

Review Flags
M - Manually Integrated

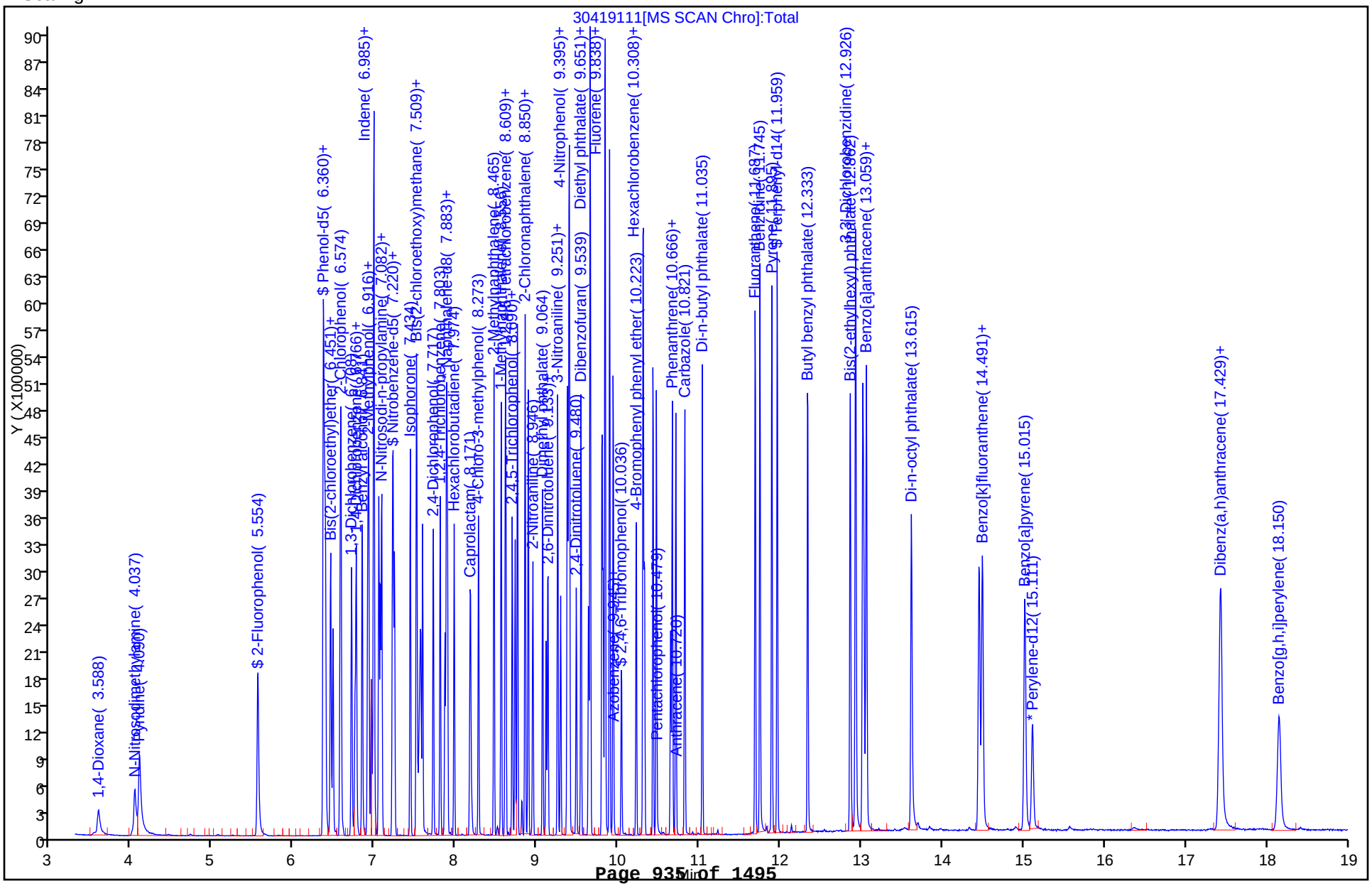
Report Date: 19-Apr-2013 15:21:03 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419111.D

Injection Date:	19-Apr-2013 14:38:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	11
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

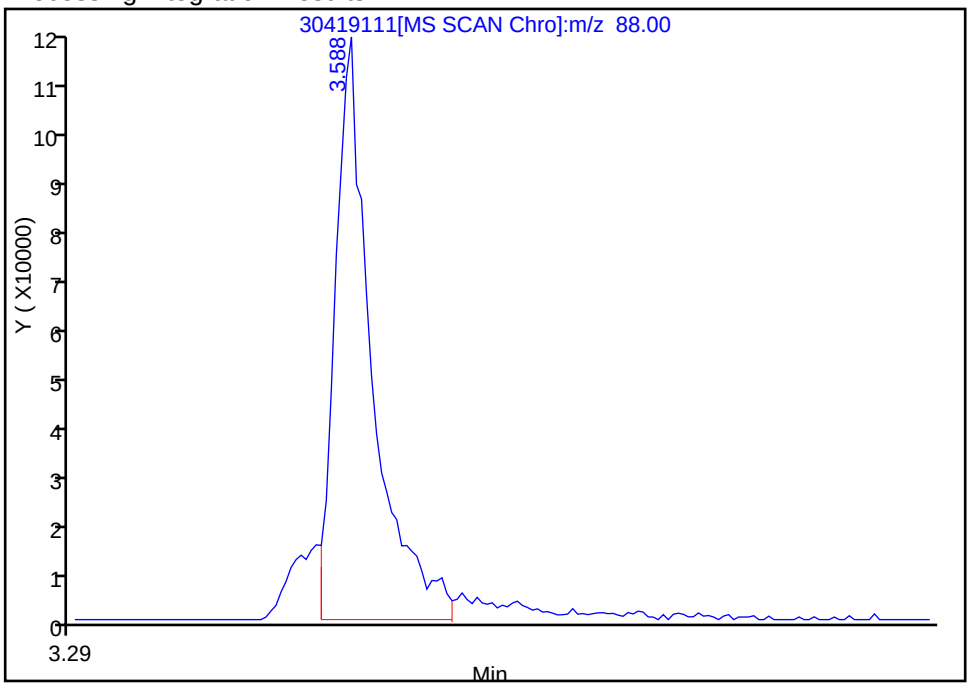
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419111.D		
Injection Date:	19-Apr-2013 14:38:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	11
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

25 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 3.59

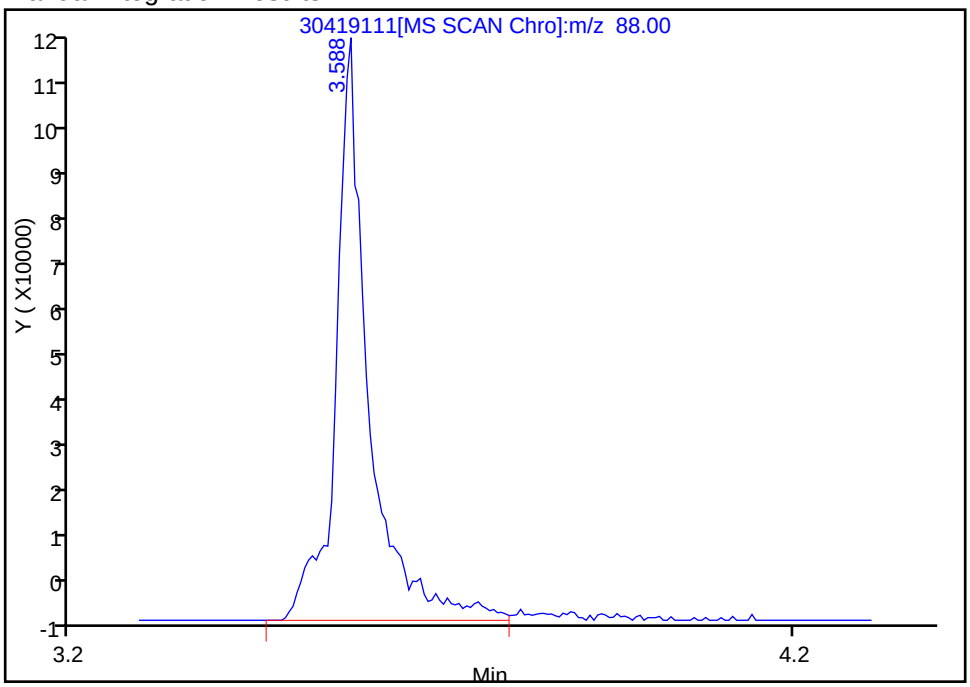
Processing Integration Results

RT: 3.59
Response: 319182
Amount: 8.490828



Manual Integration Results

RT: 3.59
Response: 368967
Amount: 9.815200



Reviewer: ulmanm, 19-Apr-2013 15:05:44
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

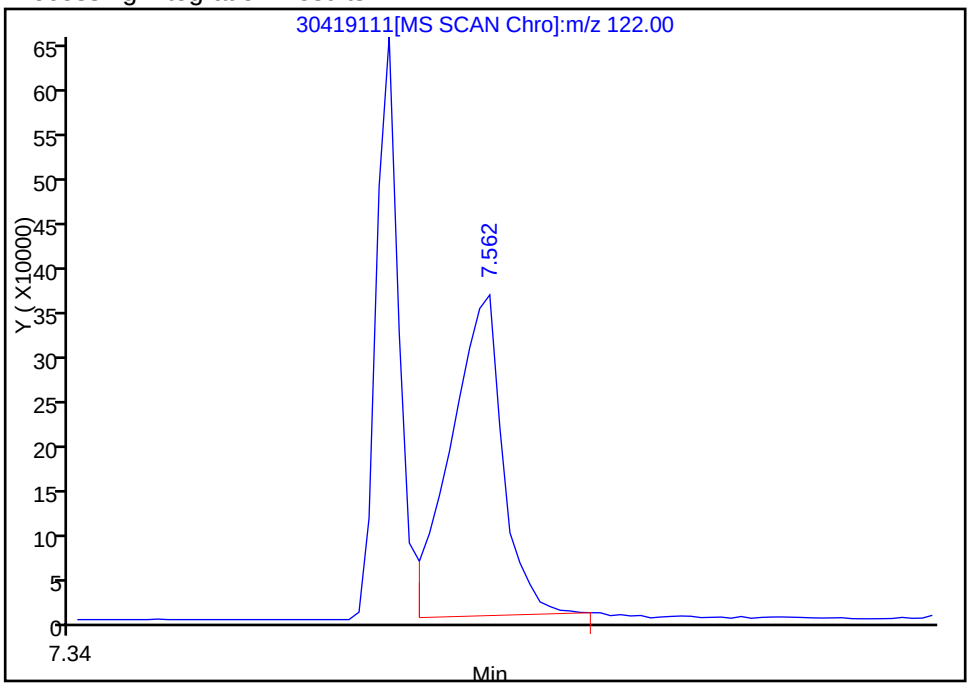
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419111.D		
Injection Date:	19-Apr-2013 14:38:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	11
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

71 Benzoic acid, Signal: 1, m/z: 122.0 Type: quant, RT: 7.56

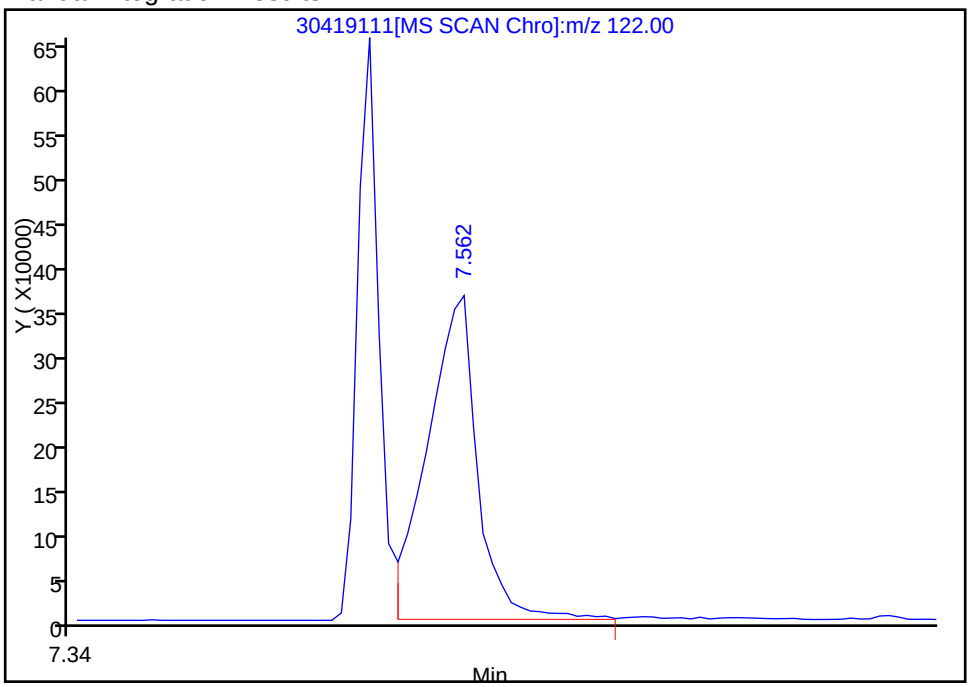
Processing Integration Results

RT: 7.56
Response: 689467
Amount: 17.947821



Manual Integration Results

RT: 7.56
Response: 719182
Amount: 18.659701



Reviewer: ulmanm, 19-Apr-2013 15:05:44
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-83588/2 Calibration Date: 04/25/2013 15:39

Instrument ID: A4HP9 Calib Start Date: 04/19/2013 10:42

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/19/2013 14:12

Lab File ID: 30425102.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.8157	0.7189	0.0500	8.81	10.0	-11.9	20.0
N-Nitrosodimethylamine	Ave	1.347	1.396	0.0500	10.4	10.0	3.6	20.0
Pyridine	Ave	2.249	2.324	0.0500	10.3	10.0	3.3	20.0
Benzaldehyde	Ave	1.740	1.729	0.0500	19.9	20.0	-0.7	20.0
Phenol	Ave	2.247	2.267	0.0500	10.1	10.0	0.9	20.0
Aniline	Ave	2.901	2.930	0.0500	10.1	10.0	1.0	20.0
Bis(2-chloroethyl)ether	Ave	2.012	2.036	0.0500	10.1	10.0	1.2	20.0
2-Chlorophenol	Ave	1.291	1.319	0.0500	10.2	10.0	2.1	20.0
1,3-Dichlorobenzene	Ave	1.354	1.344	0.0500	9.93	10.0	-0.7	20.0
1,4-Dichlorobenzene	Ave	1.394	1.357	0.0500	9.74	10.0	-2.6	20.0
Benzyl alcohol	Ave	1.007	1.043	0.0500	10.4	10.0	3.5	20.0
1,2-Dichlorobenzene	Ave	1.294	1.295	0.0500	10.0	10.0	0.0	20.0
2-Methylphenol	Ave	1.428	1.427	0.0500	10.0	10.0	-0.0	20.0
bis (2-chloroisopropyl) ether	Ave	1.884	1.907	0.0500	10.1	10.0	1.2	20.0
3 & 4 Methylphenol	Ave	1.486	1.509	0.0500	10.2	10.0	1.6	20.0
N-Nitrosodi-n-propylamine	Ave	1.519	1.524	0.0500	10.0	10.0	0.3	20.0
Acetophenone	Ave	2.373	2.363	0.0500	9.96	10.0	-0.4	20.0
Hexachloroethane	Ave	0.6609	0.6513	0.0500	9.85	10.0	-1.5	20.0
Nitrobenzene	Ave	0.5342	0.5303	0.0500	9.93	10.0	-0.7	20.0
Isophorone	Ave	0.8841	0.8834	0.0500	9.99	10.0	-0.0	20.0
2,4-Dimethylphenol	Ave	0.3749	0.3685	0.0500	9.83	10.0	-1.7	20.0
2-Nitrophenol	Ave	0.1587	0.1616	0.0500	10.2	10.0	1.8	20.0
Benzoic acid	Lin1		0.1743	0.0500	17.8	20.0	-11.2	20.0
Bis(2-chloroethoxy)methane	Ave	0.5117	0.5147	0.0500	10.1	10.0	0.6	20.0
2,4-Dichlorophenol	Ave	0.2455	0.2396	0.0500	9.76	10.0	-2.4	20.0
1,2,4-Trichlorobenzene	Ave	0.2812	0.2695	0.0500	9.58	10.0	-4.2	20.0
Naphthalene	Ave	0.9675	0.9168	0.0500	9.48	10.0	-5.2	20.0
4-Chloroaniline	Ave	0.5086	0.4954	0.0500	9.74	10.0	-2.6	20.0
Hexachlorobutadiene	Ave	0.1665	0.1572	0.0500	9.44	10.0	-5.6	20.0
Caprolactam	Ave	0.1089	0.1077	0.0500	19.8	20.0	-1.1	20.0
4-Chloro-3-methylphenol	Ave	0.3343	0.3203	0.0500	9.58	10.0	-4.2	20.0
2-Methylnaphthalene	Ave	0.6099	0.5630	0.0500	9.23	10.0	-7.7	20.0
1-Methylnaphthalene	Ave	0.5701	0.5234	0.0500	9.18	10.0	-8.2	20.0
Hexachlorocyclopentadiene	Ave	0.3194	0.3397	0.0500	10.6	10.0	6.3	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.4596	0.4998	0.0500	10.9	10.0	8.8	20.0
2,4,6-Trichlorophenol	Ave	0.2912	0.3182	0.0500	10.9	10.0	9.3	20.0
2,4,5-Trichlorophenol	Ave	0.2972	0.3215	0.0500	10.8	10.0	8.2	20.0
1,1'-Biphenyl	Ave	1.334	1.367	0.0500	10.2	10.0	2.5	20.0
2-Chloronaphthalene	Ave	0.9937	1.042	0.0500	10.5	10.0	4.9	20.0
2-Nitroaniline	Ave	0.4379	0.5083	0.0500	11.6	10.0	16.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-83588/2 Calibration Date: 04/25/2013 15:39

Instrument ID: A4HP9 Calib Start Date: 04/19/2013 10:42

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/19/2013 14:12

Lab File ID: 30425102.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dimethyl phthalate	Ave	1.041	1.065	0.0500	10.2	10.0	2.2	20.0
2,6-Dinitrotoluene	Ave	0.2401	0.2627	0.0500	10.9	10.0	9.4	20.0
Acenaphthylene	Ave	1.537	1.583	0.0500	10.3	10.0	2.9	20.0
3-Nitroaniline	Ave	0.2581	0.3024	0.0500	11.7	10.0	17.1	20.0
2,4-Dinitrophenol	Qua		0.1511	0.0500	19.9	20.0	-0.3	20.0
4-Nitrophenol	Ave	0.2135	0.2351	0.0500	22.0	20.0	10.1	20.0
Acenaphthene	Ave	0.9699	0.9761	0.0500	10.1	10.0	0.6	20.0
2,4-Dinitrotoluene	Ave	0.3054	0.3310	0.0500	10.8	10.0	8.4	20.0
Dibenzofuran	Ave	1.399	1.354	0.0500	9.68	10.0	-3.2	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2312	0.2526	0.0500	10.9	10.0	9.2	20.0
Diethyl phthalate	Ave	0.9697	0.998	0.0500	10.3	10.0	2.9	20.0
4-Chlorophenyl phenyl ether	Ave	0.5480	0.5313	0.0500	9.70	10.0	-3.0	20.0
4-Nitroaniline	Lin		0.2900	0.0500	9.73	10.0	-2.7	20.0
Fluorene	Ave	1.097	1.054	0.0500	9.61	10.0	-3.9	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1240	0.0500	17.6	20.0	-12.0	20.0
N-Nitrosodiphenylamine	Ave	0.4711	0.4380	0.0500	18.6	20.0	-7.0	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	1.162	1.070	0.0500	9.21	10.0	-7.9	20.0
Azobenzene	Ave	1.162	1.072	0.0500	9.22	10.0	-7.8	20.0
4-Bromophenyl phenyl ether	Ave	0.1776	0.1682	0.0500	9.47	10.0	-5.3	20.0
Atrazine	Qua		0.1937	0.0500	18.7	20.0	-6.4	20.0
Hexachlorobenzene	Ave	0.1811	0.1637	0.0500	9.04	10.0	-9.6	20.0
Pentachlorophenol	Lin1		0.1061	0.0500	17.4	20.0	-12.9	20.0
Phenanthrene	Ave	0.9870	0.9582	0.0500	9.71	10.0	-2.9	20.0
Anthracene	Ave	0.9760	0.9859	0.0500	10.1	10.0	1.0	20.0
Carbazole	Lin1		0.9124	0.0500	9.40	10.0	-6.0	20.0
Di-n-butyl phthalate	Lin1		1.159	0.0500	9.61	10.0	-3.9	20.0
Fluoranthene	Lin		1.147	0.0500	9.59	10.0	-4.1	20.0
Benzidine	Ave	0.3909	0.4214	0.0500	21.6	20.0	7.8	20.0
Pyrene	Ave	0.8829	0.9594	0.0500	10.9	10.0	8.7	20.0
Butyl benzyl phthalate	Ave	0.4024	0.4387	0.0500	10.9	10.0	9.0	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5389	0.5944	0.0500	11.0	10.0	10.3	20.0
3,3'-Dichlorobenzidine	Ave	0.3046	0.3320	0.0500	21.8	20.0	9.0	20.0
Benzo[a]anthracene	Ave	0.9456	0.9612	0.0500	10.2	10.0	1.7	20.0
Chrysene	Ave	0.9101	0.8976	0.0500	9.86	10.0	-1.4	20.0
Di-n-octyl phthalate	Lin1		1.298	0.0500	9.66	10.0	-3.4	20.0
Benzo[b]fluoranthene	Ave	1.034	1.069	0.0500	10.3	10.0	3.4	20.0
Benzo[k]fluoranthene	Ave	1.172	1.139	0.0500	9.71	10.0	-2.9	20.0
Benzo[a]pyrene	Ave	1.013	1.029	0.0500	10.2	10.0	1.5	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.028	1.147	0.0500	11.2	10.0	11.5	20.0
Dibenz(a,h)anthracene	Ave	0.8370	0.9475	0.0500	11.3	10.0	13.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-83588/2 Calibration Date: 04/25/2013 15:39

Instrument ID: A4HP9 Calib Start Date: 04/19/2013 10:42

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/19/2013 14:12

Lab File ID: 30425102.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[g,h,i]perylene	Ave	0.8490	0.9725	0.0500	11.5	10.0	14.5	20.0
2-Fluorophenol (Surr)	Ave	1.625	1.630	0.0500	10.0	10.0	0.3	20.0
Phenol-d5 (Surr)	Ave	2.183	2.178	0.0500	9.97	10.0	-0.3	20.0
Nitrobenzene-d5 (Surr)	Ave	0.5898	0.5654	0.0500	9.59	10.0	-4.1	20.0
2-Fluorobiphenyl (Surr)	Ave	1.191	1.209	0.0500	10.2	10.0	1.5	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1293	0.1294	0.0500	10.0	10.0	0.1	20.0
Terphenyl-d14 (Surr)	Ave	0.7168	0.7003	0.0500	9.77	10.0	-2.3	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425102.D
Lims ID: ccv tcl
Client ID:
Inject. Date: 25-Apr-2013 15:39:30
Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0019269-002
Misc. Info.: CCV TCL =CCV TCL
Operator: 001574
Instrument ID: A4HP9
Injection Vol: 1.0 ul
ALS Bottle#: 2
Lims Batch ID: 83588
Lims Sample ID: 2
Sublist: chrom-8270 _9*sub23
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\8270 _9.m
Last Update: 26-Apr-2013 09:38:09
Calib Date: 19-Apr-2013 14:12:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419110.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: 5% phenyl
Column Dia: 0.18 mm
Process Host: XAWRK003

First Level Reviewer: ulmanm
Date: 26-Apr-2013 09:19:43

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.686	6.686	0.0	91	180959	4.00	
* 2 Naphthalene-d8	136	7.797	7.797	0.0	99	758024	4.00	
* 3 Acenaphthene-d10	164	9.297	9.297	0.0	81	373469	4.00	
* 4 Phenanthrene-d10	188	10.567	10.567	0.0	97	647023	4.00	
* 5 Chrysene-d12	240	12.918	12.918	0.0	84	787115	4.00	
* 6 Perylene-d12	264	14.923	14.923	0.0	93	638307	4.00	
$ 7 2-Fluorophenol	112	5.460	5.460	0.0	94	737503	10.0	
$ 8 Phenol-d5	99	6.311	6.311	0.0	97	985103	9.97	
$ 9 Nitrobenzene-d5	82	7.157	7.157	0.0	85	1071502	9.59	
$ 10 2-Fluorobiphenyl (Surr)	172	8.686	8.686	0.0	99	1128840	10.2	
$ 11 2,4,6-Tribromophenol	330	9.965	9.965	0.0	89	120802	10.0	
$ 12 Terphenyl-d14	244	11.879	11.879	0.0	98	1378105	9.77	
244 n-Octadecane	57		0.000					
247 Hexadecane	57		0.000					
243 n-Decane	57		0.000					
25 1,4-Dioxane	88	3.161	3.161	0.0	92	325229	8.81	M
26 N-Nitrosodimethylamine	74	3.738	3.738	0.0	82	631477	10.4	
27 Pyridine	79	3.810	3.810	0.0	93	1051328	10.3	M
41 Benzaldehyde	77	6.292	6.292	0.0	89	1564292	19.9	
43 Phenol	94	6.325	6.325	0.0	87	1025744	10.1	
44 Aniline	93	6.383	6.383	0.0	96	1325425	10.1	
69 Bis(2-chloroethyl)ether	93	6.412	6.412	0.0	92	921055	10.1	
46 2-Chlorophenol	128	6.503	6.503	0.0	90	596788	10.2	
47 1,3-Dichlorobenzene	146	6.643	6.643	0.0	88	608101	9.93	
48 1,4-Dichlorobenzene	146	6.700	6.700	0.0	82	614039	9.74	
49 Benzyl alcohol	108	6.777	6.777	0.0	85	471899	10.4	
50 1,2-Dichlorobenzene	146	6.840	6.840	0.0	86	586030	10.0	
51 2-Methylphenol	108	6.859	6.859	0.0	95	645769	10.0	
53 2,2'-oxybis[1-chloropropane]	45	6.888	6.888	0.0	94	862735	10.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
52 Indene	115	6.917	6.917	0.0	68	2405206	20.1	
21 3 & 4 Methylphenol	108	6.984	6.984	0.0	95	682834	10.2	
57 N-Nitrosodi-n-propylamine	70	6.998	6.998	0.0	75	689431	10.0	
58 Acetophenone	105	7.013	7.013	0.0	74	1069014	9.96	
61 Hexachloroethane	117	7.147	7.147	0.0	82	294642	9.85	
62 Nitrobenzene	77	7.172	7.172	0.0	82	1004855	9.93	
64 Isophorone	82	7.369	7.369	0.0	96	1674018	10.0	
65 2,4-Dimethylphenol	107	7.446	7.446	0.0	95	698365	9.83	
66 2-Nitrophenol	139	7.450	7.450	0.0	84	306284	10.2	
71 Benzoic acid	122	7.489	7.489	0.0	61	660448	17.8	M
70 Bis(2-chloroethoxy)methane	93	7.523	7.523	0.0	95	975320	10.1	
73 2,4-Dichlorophenol	162	7.652	7.652	0.0	92	453956	9.76	
74 1,2,4-Trichlorobenzene	180	7.734	7.734	0.0	85	510617	9.58	
75 Naphthalene	128	7.811	7.811	0.0	99	1737451	9.48	
76 4-Chloroaniline	127	7.826	7.826	0.0	76	938890	9.74	
79 Hexachlorobutadiene	225	7.907	7.907	0.0	93	297885	9.44	
84 Caprolactam	113	8.100	8.100	0.0	81	408147	19.8	
86 4-Chloro-3-methylphenol	107	8.210	8.210	0.0	87	606972	9.58	
87 2-Methylnaphthalene	142	8.398	8.398	0.0	81	1066887	9.23	
88 1-Methylnaphthalene	142	8.484	8.484	0.0	80	991862	9.18	
89 Hexachlorocyclopentadiene	237	8.537	8.537	0.0	93	317144	10.6	
91 1,2,4,5-Tetrachlorobenzene	216	8.542	8.542	0.0	93	466687	10.9	
92 2,4,6-Trichlorophenol	196	8.624	8.624	0.0	88	297122	10.9	
93 2,4,5-Trichlorophenol	196	8.657	8.657	0.0	87	300200	10.8	
98 1,1'-Biphenyl	154	8.778	8.778	0.0	95	1276397	10.2	
100 2-Chloronaphthalene	162	8.816	8.816	0.0	98	972852	10.5	
102 2-Nitroaniline	65	8.874	8.874	0.0	71	474576	11.6	
105 Dimethyl phthalate	163	8.994	8.994	0.0	93	993902	10.2	
106 1,3-Dinitrobenzene	168	9.037	9.037	0.0	80	182496	11.6	
107 2,6-Dinitrotoluene	165	9.057	9.057	0.0	67	245245	10.9	
109 Acenaphthylene	152	9.177	9.177	0.0	92	1477737	10.3	
110 3-Nitroaniline	138	9.215	9.215	0.0	87	282323	11.7	
111 2,4-Dinitrophenol	184	9.302	9.302	0.0	73	282080	19.9	
113 4-Nitrophenol	109	9.316	9.316	0.0	87	438979	22.0	
112 Acenaphthene	153	9.326	9.326	0.0	92	911396	10.1	
114 2,4-Dinitrotoluene	165	9.408	9.408	0.0	78	309006	10.8	
116 Dibenzofuran	168	9.465	9.465	0.0	86	1263944	9.68	
119 2,3,4,6-Tetrachlorophenol	232	9.557	9.557	0.0	78	235799	10.9	
121 Diethyl phthalate	149	9.586	9.586	0.0	94	931736	10.3	
123 4-Chlorophenyl phenyl ether	204	9.725	9.725	0.0	95	496067	9.70	
125 4-Nitroaniline	138	9.735	9.735	0.0	76	270779	9.73	
126 Fluorene	166	9.759	9.759	0.0	80	984358	9.61	
128 4,6-Dinitro-2-methylphenol	198	9.763	9.763	0.0	82	401273	17.6	
131 N-Nitrosodiphenylamine	169	9.816	9.816	0.0	99	1417056	18.6	
133 Azobenzene	77	9.860	9.860	0.0	95	1733228	9.22	
132 1,2-Diphenylhydrazine	77	9.860	9.860	0.0	99	1731286	9.21	
139 4-Bromophenyl phenyl ether	248	10.148	10.148	0.0	72	272109	9.47	
142 Atrazine	200	10.230	10.230	0.0	83	626743	18.7	
141 Hexachlorobenzene	284	10.244	10.244	0.0	82	264838	9.04	
143 Pentachlorophenol	266	10.393	10.393	0.0	81	343096	17.4	
148 Phenanthrene	178	10.586	10.586	0.0	98	1549872	9.71	
149 Anthracene	178	10.629	10.629	0.0	99	1594806	10.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
151 Carbazole	167	10.740	10.740	0.0	83	1475870	9.40	
154 Di-n-butyl phthalate	149	10.956	10.956	0.0	100	1875403	9.61	
159 Fluoranthene	202	11.605	11.605	0.0	99	1855628	9.59	
160 Benzidine	184	11.663	11.663	0.0	98	1658522	21.6	
161 Pyrene	202	11.807	11.807	0.0	94	1887968	10.9	
168 Butyl benzyl phthalate	149	12.245	12.245	0.0	89	863302	10.9	
173 Bis(2-ethylhexyl) phthalate	149	12.759	12.759	0.0	94	1169567	11.0	
175 3,3'-Dichlorobenzidine	252	12.822	12.822	0.0	71	1306570	21.8	
177 Benzo[a]anthracene	228	12.904	12.904	0.0	99	1891475	10.2	
178 Chrysene	228	12.947	12.947	0.0	94	1766276	9.86	
180 Di-n-octyl phthalate	149	13.485	13.485	0.0	99	2071413	9.66	
182 Benzo[b]fluoranthene	252	14.289	14.289	0.0	88	1705333	10.3	
183 Benzo[k]fluoranthene	252	14.327	14.327	0.0	99	1817522	9.71	
184 Benzo[a]pyrene	252	14.832	14.832	0.0	76	1641681	10.2	
188 Indeno[1,2,3-cd]pyrene	276	17.145	17.145	0.0	87	1829818	11.2	
189 Dibenz(a,h)anthracene	278	17.155	17.155	0.0	56	1511997	11.3	
190 Benzo[g,h,i]perylene	276	17.842	17.842	0.0	88	1551882	11.5	
S 191 Methyl Phenols,Total	100				0		20.2	
S 245 Total Cresols	100				0		20.2	

QC Flag Legend

Review Flags
M - Manually Integrated

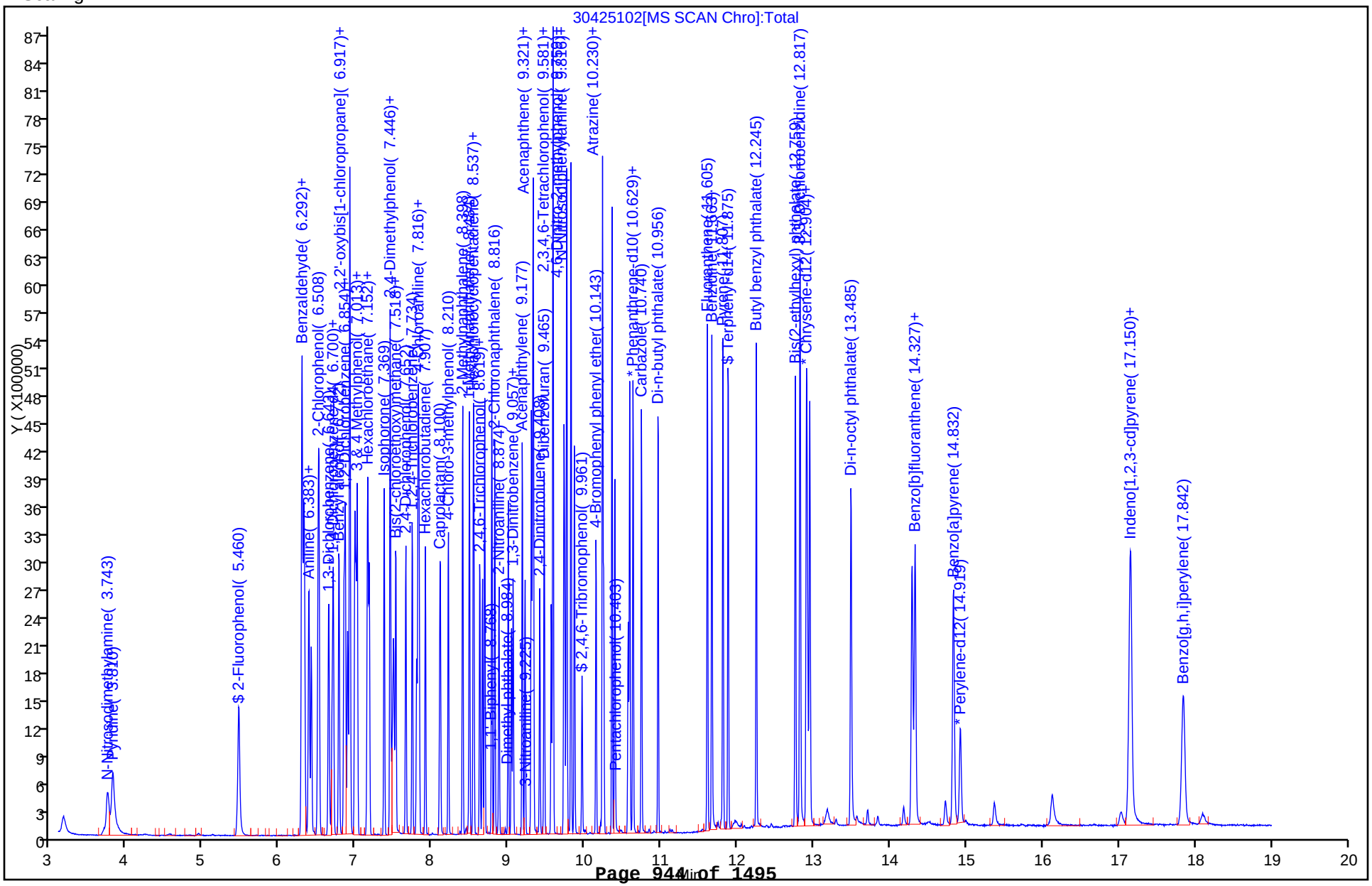
Report Date: 26-Apr-2013 09:38:10 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425102.D

Injection Date:	25-Apr-2013 15:39:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	83588	Lims Sample ID:	2
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

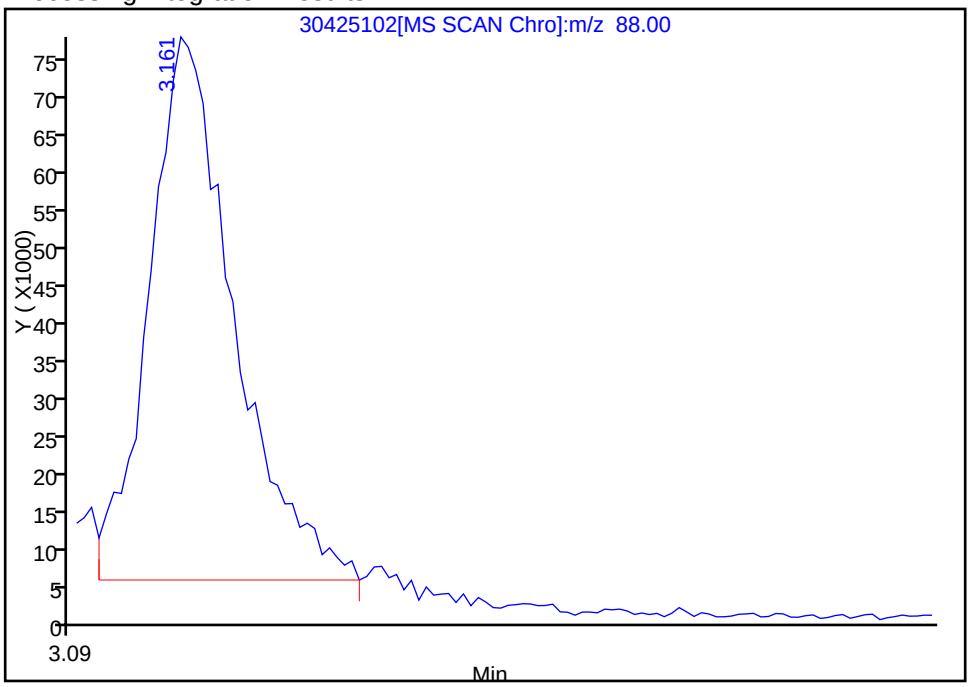
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425102.D		
Injection Date:	25-Apr-2013 15:39:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	83588	Lims Sample ID:	2
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

25 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 3.16

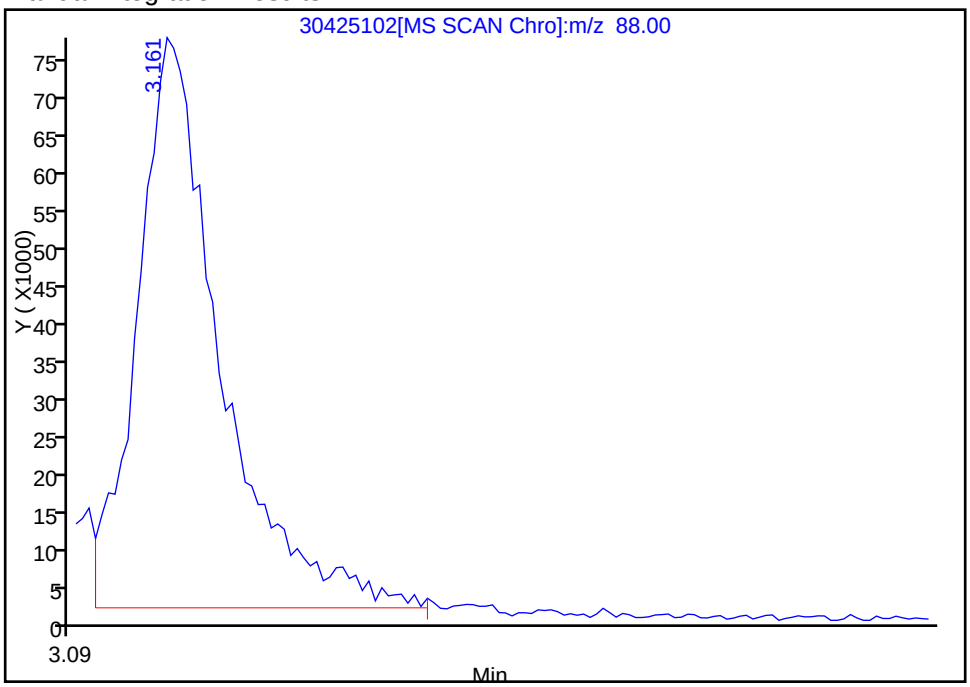
Processing Integration Results

RT: 3.16
Response: 275624
Amount: 7.469299



Manual Integration Results

RT: 3.16
Response: 325229
Amount: 8.813575



Reviewer: ulmanm, 26-Apr-2013 09:19:43
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

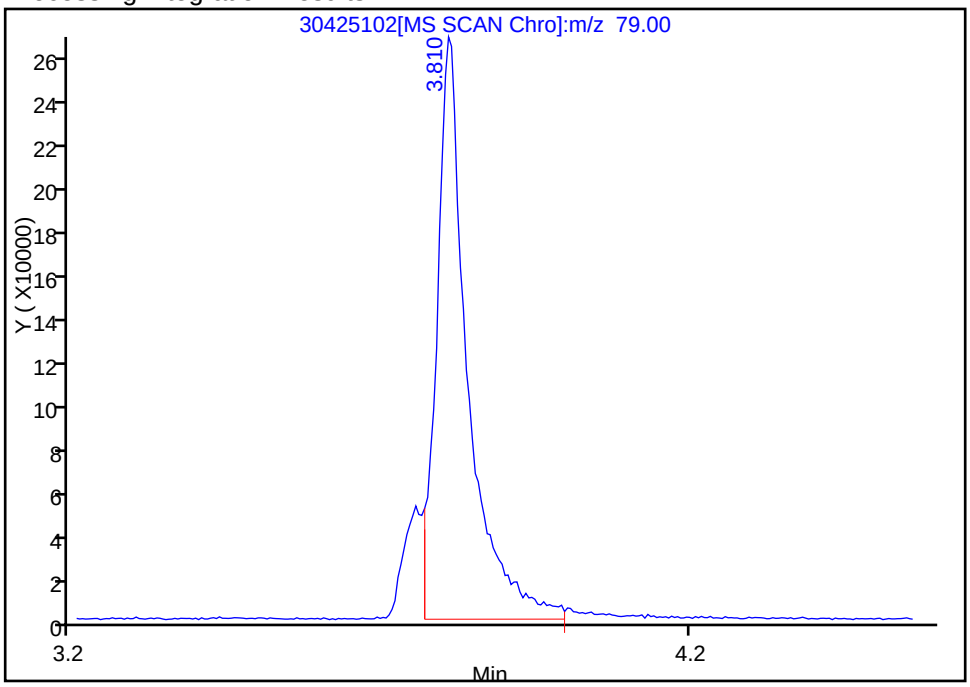
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425102.D		
Injection Date:	25-Apr-2013 15:39:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	83588	Lims Sample ID:	2
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

27 Pyridine, Signal: 1, m/z: 79.0 Type: quant, RT: 3.81

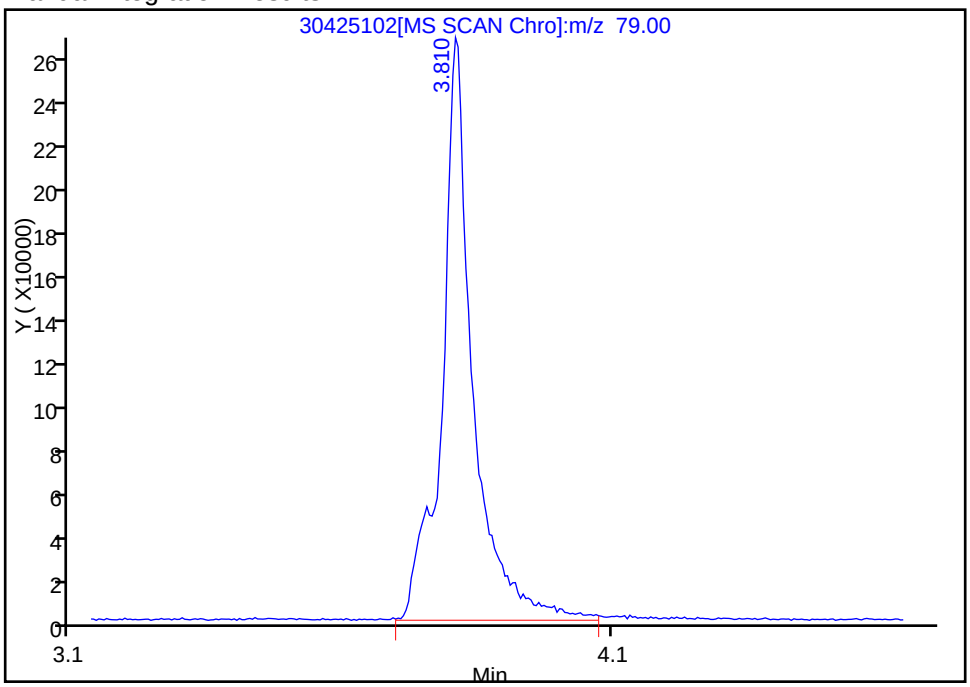
Processing Integration Results

RT: 3.81
Response: 928521
Amount: 9.125545



Manual Integration Results

RT: 3.81
Response: 1051328
Amount: 10.332497



Reviewer: ulmanm, 26-Apr-2013 09:19:43
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

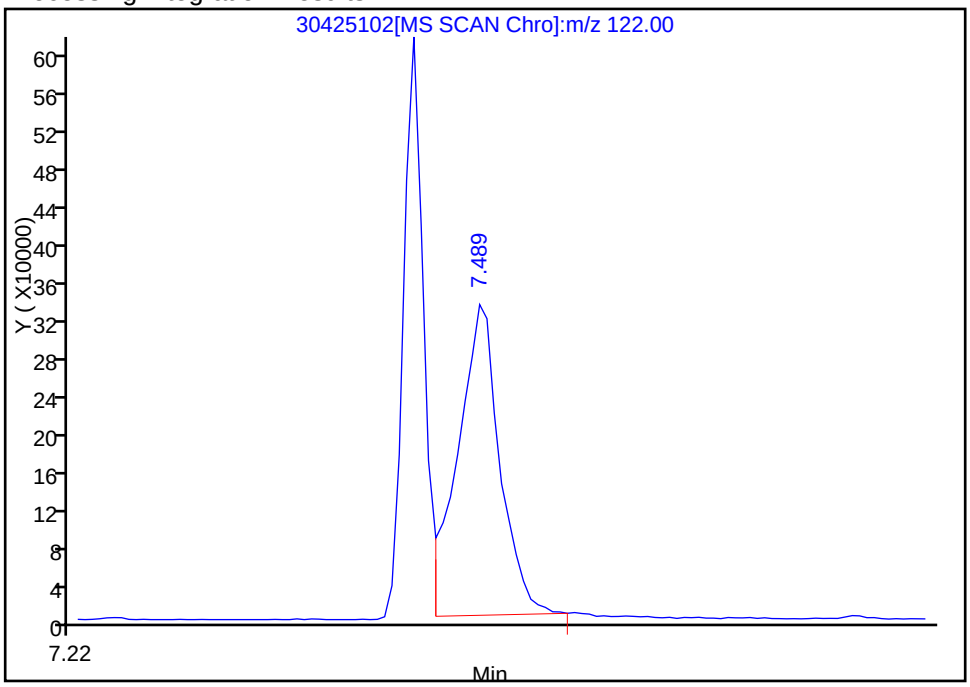
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425102.D		
Injection Date:	25-Apr-2013 15:39:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	83588	Lims Sample ID:	2
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

71 Benzoic acid, Signal: 1, m/z: 122.0 Type: quant, RT: 7.49

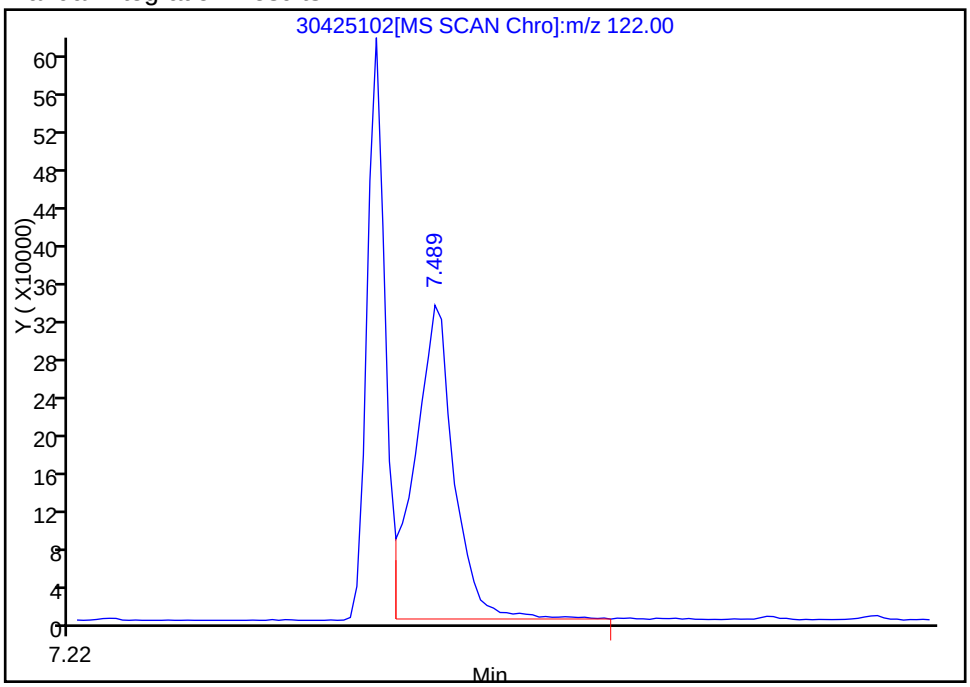
Processing Integration Results

RT: 7.49
Response: 630674
Amount: 17.024569



Manual Integration Results

RT: 7.49
Response: 660448
Amount: 17.760771



Reviewer: ulmanm, 26-Apr-2013 09:19:43
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411001.D		
Lims ID:	dftpp	Client ID:	
Inject. Date:	11-Apr-2013 17:39:30	Dil. Factor:	1.0000
Sample Type:	DFTPP		
Sample ID:	240-0018790-001		
Misc. Info.:	DFTPP =DFTPP		
Operator:	001710	Instrument ID:	A4HP10
Injection Vol:	1.0 ul	ALS Bottle#:	1
Lims Batch ID:	81609	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\8270_10.m		
Last Update:	12-Apr-2013 09:42:28	Calib Date:	12-Apr-2013 00:58:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK010		
First Level Reviewer: gruberj		Date:	12-Apr-2013 08:16:53

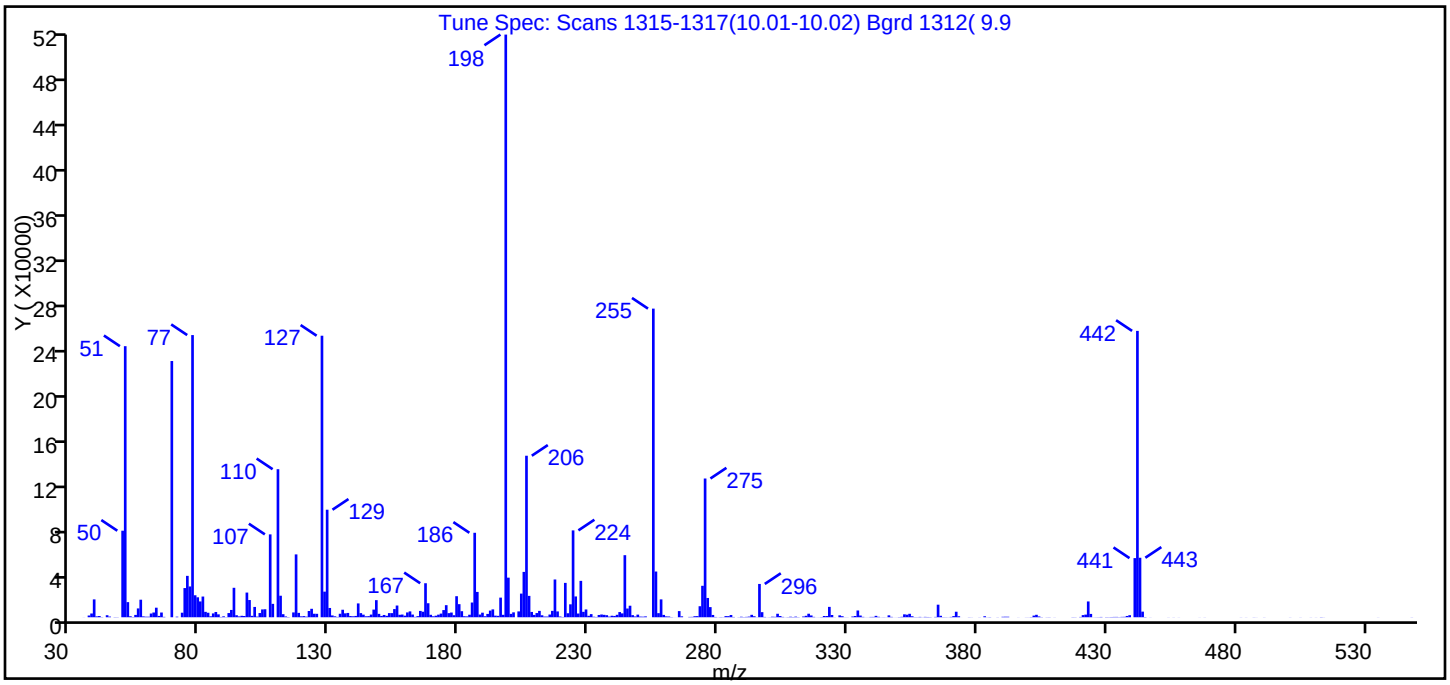
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
144 Pentachlorophenol	266	9.655	9.655	0.0	87	694633	0	
151 DFTPP								
161 Benzidine	184	10.971	10.971	0.0	99	3778633	0	
168 4,4'-DDE	246	11.148	11.148	0.0	16	1461	0	
167 4,4'-DDD	235	11.488	11.488	0.0	56	13721	0	
172 4,4'-DDT	235	11.823	11.823	0.0	98	1775638	0	

MS Tune Report

TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411001.D		
Injection Date:	11-Apr-2013 17:39:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	1
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm
Tune Method:	DFTPP Method CLP OLM4.2		

151 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	46.52
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Present	43.98
70	Less than 2.00% of mass 69	0.00 (0.01)
127	25.00 - 75.00% of mass 198	48.32
197	Less than 1.00% of mass 198	0.42
199	5.00 - 9.00% of mass 198	6.80
275	10.00 - 30.00% of mass 198	23.81
365	Greater than 0.75% of mass 198	2.16
441	Present, but less than mass 443%	10.15 (99.38)
442	40.00 - 110.00% of mass 198	49.15
443	15.00 - 24.00% of mass 442	10.21 (20.78)

Report Date: 12-Apr-2013 09:42:29 Chrom Revision: 2.0 01-Apr-2013 21:16:10

Data File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411001.D\8270_10.rslt\spectra.d
Injection Date: 11-Apr-2013 17:39:30
Spectrum: Tune Spec: Scans 1315-1317(10.01-10.02) Bgrd 1312(9.9
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 385

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	52	143.00	2301	241.00	2168	346.00	1703
37.00	1540	144.00	854	242.00	4609	347.00	344
38.00	3339	145.00	982	243.00	3440	348.00	50
39.00	15864	146.00	2372	244.00	55120	349.00	60
40.00	764	147.00	6799	245.00	7761	350.00	198
41.00	1080	148.00	15180	246.00	10239	351.00	379
42.00	179	149.00	3003	247.00	1861	352.00	2593
44.00	1802	150.00	1163	248.00	697	353.00	2283
45.00	595	151.00	2028	249.00	2336	354.00	3059
47.00	168	152.00	1282	250.00	590	355.00	891
48.00	142	153.00	3677	251.00	511	356.00	158
50.00	76840	154.00	3669	252.00	760	357.00	148
51.00	240704	155.00	7268	255.00	274048	358.00	320
52.00	13431	156.00	10411	256.00	40608	359.00	92
53.00	894	157.00	2183	257.00	3633	360.00	335
54.00	247	158.00	2403	258.00	15872	361.00	241
55.00	2077	159.00	1410	259.00	2090	362.00	171
56.00	7841	160.00	4278	260.00	763	364.00	313
57.00	15584	161.00	5207	261.00	671	365.00	11159
58.00	764	162.00	2397	262.00	183	366.00	1290
59.00	505	163.00	338	263.00	41	367.00	162
60.00	489	164.00	970	264.00	35	368.00	136
61.00	3310	165.00	5619	265.00	5470	369.00	83
62.00	4212	166.00	4904	266.00	805	370.00	306
63.00	8490	167.00	30208	269.00	310	371.00	1016
64.00	1197	168.00	12451	270.00	354	372.00	4907
65.00	4212	169.00	2187	271.00	919	373.00	870
66.00	338	170.00	856	272.00	989	374.00	19
69.00	227520	171.00	1377	273.00	9791	377.00	113
70.00	14	172.00	2303	274.00	27928	378.00	71
71.00	521	173.00	3251	275.00	123200	381.00	91
73.00	4033	174.00	6370	276.00	17128	383.00	882
74.00	25912	175.00	10733	277.00	9009	384.00	87

Report Date: 12-Apr-2013 09:42:29 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411001.D\8270_10.rslt\spectra.d
Injection Date: 11-Apr-2013 17:39:30
Spectrum: Tune Spec: Scans 1315-1317(10.01-10.02) Bgrd 1312(9.9
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 385

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	36752	176.00	3651	278.00	2051	385.00	172
76.00	27344	177.00	4179	279.00	276	388.00	97
77.00	250560	178.00	1811	280.00	74	390.00	417
78.00	19520	179.00	18696	281.00	195	391.00	482
79.00	17712	180.00	11627	282.00	138	392.00	465
80.00	14043	181.00	5374	283.00	1022	396.00	60
81.00	18392	182.00	897	284.00	974	399.00	79
82.00	4805	183.00	769	285.00	1986	400.00	79
83.00	4001	184.00	2247	286.00	272	401.00	199
84.00	848	185.00	13079	288.00	127	402.00	1472
85.00	3417	186.00	75008	289.00	454	403.00	2184
86.00	4675	187.00	22496	290.00	202	404.00	716
87.00	2571	188.00	2419	291.00	346	405.00	164
88.00	274	189.00	4058	292.00	570	407.00	109
89.00	836	190.00	897	293.00	2161	408.00	134
90.00	160	191.00	2966	294.00	881	410.00	71
91.00	3725	192.00	5910	295.00	109	417.00	146
92.00	6492	193.00	6983	296.00	29576	418.00	126
93.00	26160	194.00	1435	297.00	4516	420.00	289
94.00	1793	195.00	1255	298.00	291	421.00	1904
95.00	761	196.00	17432	299.00	65	422.00	2348
96.00	1296	197.00	2171	300.00	129	423.00	14037
97.00	1121	198.00	517376	301.00	491	424.00	2958
98.00	21920	199.00	35160	302.00	395	425.00	77
99.00	15290	200.00	3023	303.00	3110	426.00	120
100.00	1270	201.00	4360	304.00	1112	427.00	148
101.00	9165	203.00	5204	305.00	320	428.00	278
102.00	585	204.00	21000	306.00	74	430.00	184
103.00	3739	205.00	40272	307.00	170	431.00	158
104.00	6942	206.00	143424	308.00	473	432.00	232
105.00	7097	207.00	18984	309.00	233	433.00	296
107.00	73592	208.00	4725	310.00	552	434.00	308
108.00	11898	209.00	2098	311.00	175	435.00	172
110.00	131456	210.00	3733	313.00	672	436.00	338

Report Date: 12-Apr-2013 09:42:29 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411001.D\8270_10.rslt\spectra.d
Injection Date: 11-Apr-2013 17:39:30
Spectrum: Tune Spec: Scans 1315-1317(10.01-10.02) Bgrd 1312(9.9
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 385

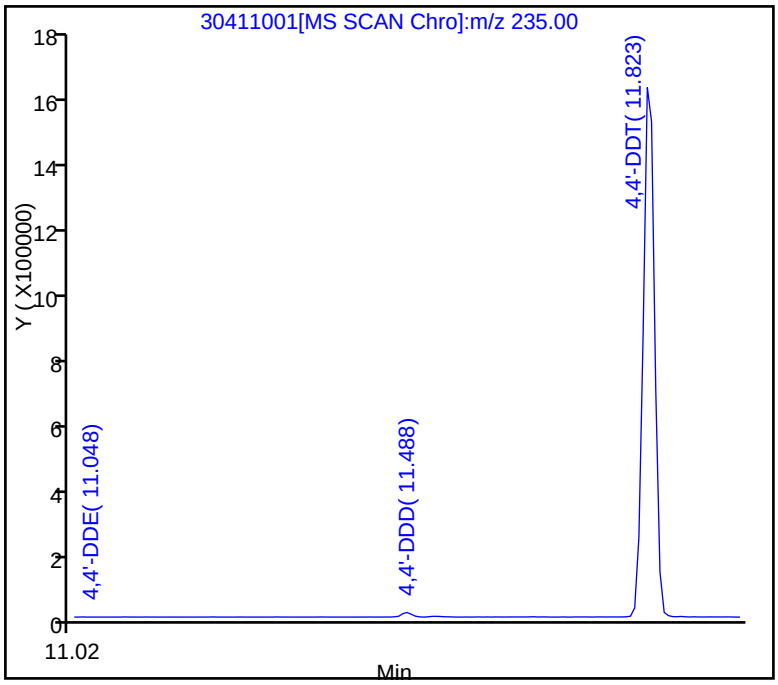
m/z	Y	m/z	Y	m/z	Y	m/z	Y
111.00	19112	211.00	5662	314.00	1290	437.00	385
112.00	2721	212.00	1747	315.00	3136	438.00	1138
113.00	695	213.00	604	316.00	1600	439.00	1819
114.00	226	214.00	602	317.00	336	441.00	52512
116.00	4285	215.00	2411	318.00	55	442.00	254272
117.00	55816	216.00	5676	319.00	77	443.00	52840
118.00	3894	217.00	33536	320.00	203	444.00	4995
119.00	809	218.00	5180	321.00	1101	445.00	233
120.00	1019	219.00	635	322.00	1080	447.00	66
121.00	543	220.00	262	323.00	9216	454.00	68
122.00	5555	221.00	30520	324.00	1989	456.00	70
123.00	7516	222.00	3560	325.00	96	458.00	58
124.00	3112	223.00	11492	327.00	1695	466.00	52
125.00	3056	224.00	77136	328.00	922	468.00	66
127.00	249984	225.00	18472	329.00	93	482.00	73
128.00	22736	226.00	3312	330.00	78	484.00	65
129.00	95488	227.00	32312	332.00	669	487.00	90
130.00	8250	228.00	4820	333.00	1107	488.00	50
131.00	1598	229.00	6930	334.00	6010	491.00	76
132.00	840	230.00	1295	335.00	1516	501.00	74
133.00	299	231.00	2787	336.00	346	505.00	69
134.00	3094	232.00	450	337.00	68	509.00	69
135.00	6672	233.00	268	338.00	70	511.00	59
136.00	3458	234.00	2024	339.00	305	513.00	161
137.00	3833	235.00	2454	340.00	321	514.00	69
138.00	1083	236.00	2151	341.00	1250	535.00	60
139.00	866	237.00	1828	342.00	406	548.00	88
140.00	1168	238.00	585	343.00	81		
141.00	12291	239.00	1351	344.00	131		
142.00	3668	240.00	1148	345.00	76		

Breakdown Report

TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411001.D		
Injection Date:	11-Apr-2013 17:39:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	1
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

172 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

172 4,4'-DDT, Area = 1775638
167 4,4'-DDD, Area = 13721
168 4,4'-DDE, Area = 1461

%Breakdown: 0.85%, Max Limit: 20.00%
Passed

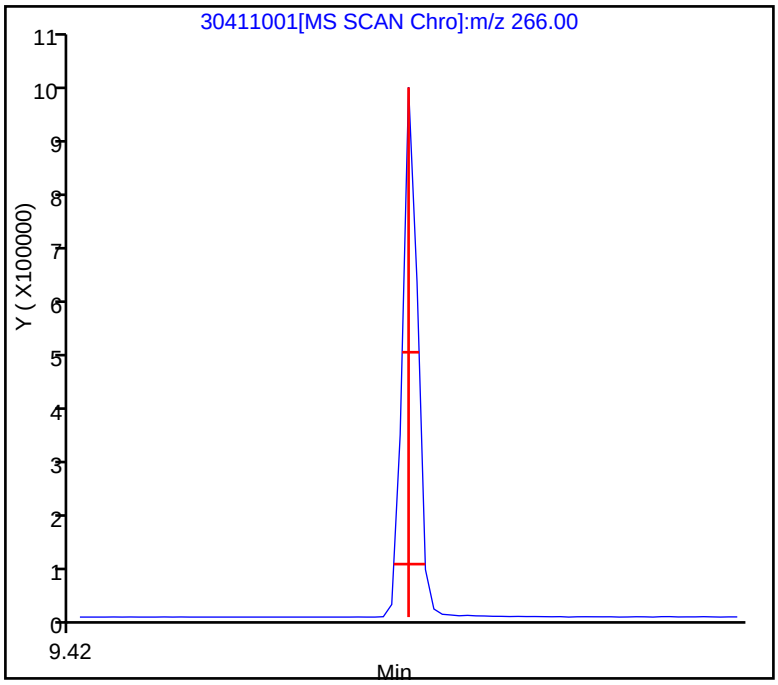
Peak Tailing Report

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411001.D

Injection Date:	11-Apr-2013 17:39:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	1
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

144 Pentachlorophenol, Detector: MS SCAN



Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.1, Max. Tailing < 5.00
Passed

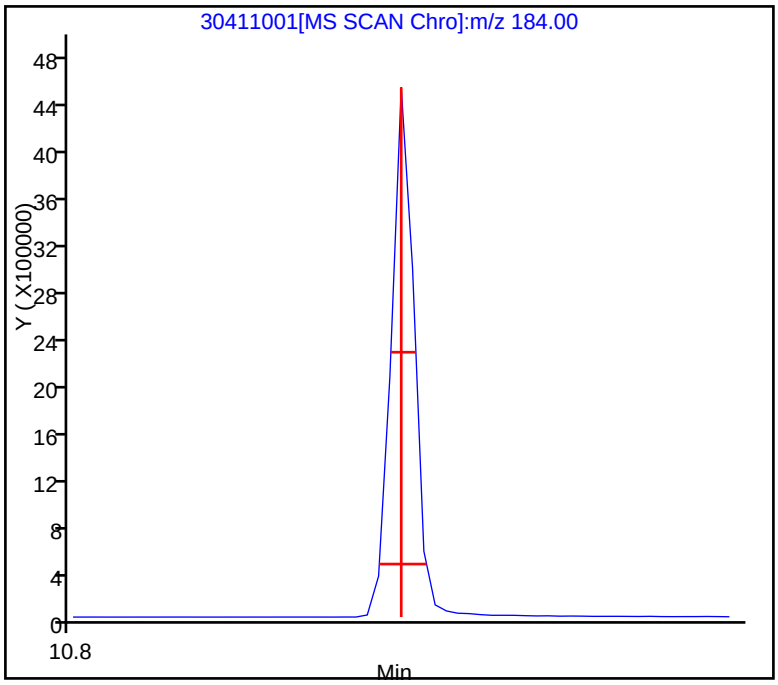
Peak Tailing Report

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411001.D

Injection Date:	11-Apr-2013 17:39:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	81609	Lims Sample ID:	1
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

161 Benzidine, Detector: MS SCAN



Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.2, Max. Tailing < 3.00
Passed

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419001.D		
Lims ID:	dftpp	Client ID:	
Inject. Date:	19-Apr-2013 10:23:30	Dil. Factor:	1.0000
Sample Type:	DFTPP		
Sample ID:	240-0019044-001		
Misc. Info.:	DFTPP		
Operator:	001710	Instrument ID:	A4HP10
Injection Vol:	1.0 ul	ALS Bottle#:	1
Lims Batch ID:	82653	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m		
Last Update:	22-Apr-2013 13:55:05	Calib Date:	12-Apr-2013 00:58:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK022		
First Level Reviewer: gruberj		Date:	19-Apr-2013 10:38:07

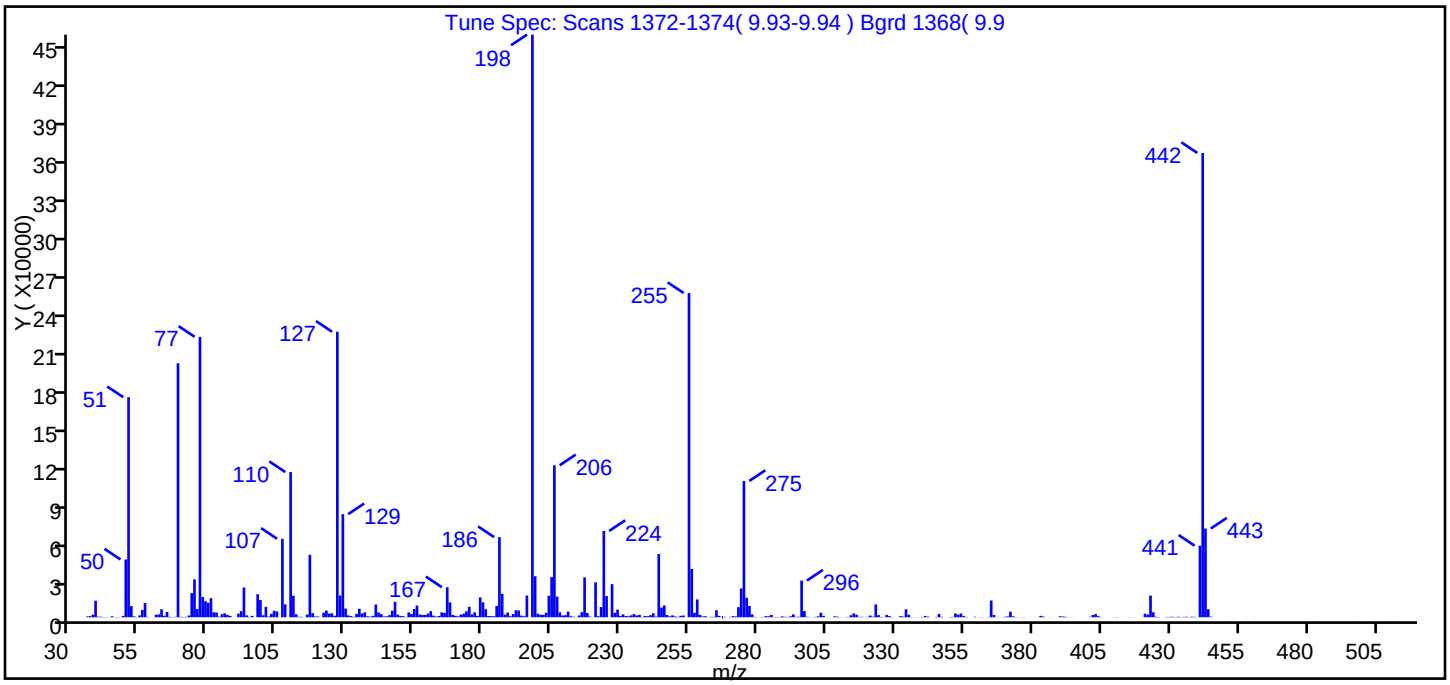
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
144 Pentachlorophenol	266	9.568	9.568	0.0	89	549092	0	
151 DFTPP								
161 Benzidine	184	10.872	10.872	0.0	99	2967178	0	
168 4,4'-DDE	246	11.036	11.036	0.0	1	680	0	
167 4,4'-DDD	235	11.371	11.371	0.0	52	3134	0	
172 4,4'-DDT	235	11.700	11.700	0.0	97	1464296	0	

MS Tune Report

TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419001.D		
Injection Date:	19-Apr-2013 10:23:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	1
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm
Tune Method:	DFTPP Method CLP OLM4.2		

151 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	37.77
68	Less than 2.00% of mass 69	0.07 (0.16)
69	Present	43.60
70	Less than 2.00% of mass 69	0.08 (0.19)
127	25.00 - 75.00% of mass 198	49.00
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.04
275	10.00 - 30.00% of mass 198	23.39
365	Greater than 0.75% of mass 198	2.88
441	Present, but less than mass 443%	12.28 (80.67)
442	40.00 - 110.00% of mass 198	79.68
443	15.00 - 24.00% of mass 442	15.23 (19.11)

Report Date: 22-Apr-2013 13:55:06 Chrom Revision: 2.0 01-Apr-2013 21:16:10

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419001.D\8270_10.rslt\spectra.d
Injection Date: 19-Apr-2013 10:23:30
Spectrum: Tune Spec: Scans 1372-1374(9.93-9.94) Bgrd 1368(9.9
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 370

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	619	134.00	2672	230.00	1140	328.00	928
37.00	918	135.00	6694	231.00	2250	329.00	146
38.00	2028	136.00	2991	232.00	978	332.00	865
39.00	13091	137.00	3895	233.00	800	333.00	545
40.00	448	138.00	750	234.00	1524	334.00	6307
41.00	410	139.00	545	235.00	2515	335.00	1994
42.00	223	140.00	1131	236.00	1404	336.00	176
43.00	121	141.00	10054	237.00	1924	337.00	58
44.00	76	142.00	3752	238.00	278	338.00	107
45.00	800	143.00	2427	239.00	1026	339.00	82
46.00	93	144.00	700	240.00	851	340.00	311
47.00	205	145.00	727	241.00	1612	341.00	1062
48.00	94	146.00	1647	242.00	3127	342.00	522
49.00	1067	147.00	5156	243.00	597	345.00	257
50.00	45600	148.00	12202	244.00	49896	346.00	2631
51.00	173696	149.00	2130	245.00	7618	347.00	388
52.00	8763	150.00	1032	246.00	9345	350.00	218
53.00	729	151.00	870	247.00	1795	351.00	292
54.00	151	152.00	192	248.00	745	352.00	2956
55.00	1429	153.00	3846	249.00	1483	353.00	2011
56.00	5752	154.00	2630	250.00	626	354.00	2913
57.00	11224	155.00	6573	251.00	327	355.00	939
58.00	264	156.00	9242	252.00	1157	356.00	268
61.00	2037	157.00	2153	253.00	1370	359.00	382
62.00	2281	158.00	1866	255.00	255872	361.00	154
63.00	6310	159.00	1810	256.00	38104	362.00	114
64.00	1208	160.00	2886	257.00	3503	364.00	240
65.00	4175	161.00	4812	258.00	14085	365.00	13233
66.00	416	162.00	1329	259.00	1970	366.00	1780
67.00	219	163.00	609	260.00	648	367.00	137
68.00	327	164.00	1014	261.00	838	368.00	76
69.00	200512	165.00	3888	262.00	145	370.00	332
70.00	372	166.00	3433	263.00	284	371.00	674

Report Date: 22-Apr-2013 13:55:06 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419001.D\8270_10.rslt\spectra.d
Injection Date: 19-Apr-2013 10:23:30
Spectrum: Tune Spec: Scans 1372-1374(9.93-9.94) Bgrd 1368(9.9
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 370

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	195	167.00	23664	264.00	364	372.00	4390
72.00	314	168.00	11739	265.00	5556	373.00	758
73.00	1362	169.00	1841	266.00	1087	374.00	188
74.00	19064	170.00	1131	267.00	1	375.00	60
75.00	29888	171.00	711	268.00	341	377.00	161
76.00	6431	172.00	2124	270.00	275	379.00	54
77.00	221312	173.00	2827	271.00	870	383.00	1103
78.00	15918	174.00	4715	272.00	645	384.00	574
79.00	12673	175.00	8264	273.00	7979	386.00	67
80.00	11387	176.00	2284	274.00	22704	387.00	78
81.00	15083	177.00	3887	275.00	107552	390.00	736
82.00	3954	178.00	1090	276.00	15319	391.00	628
83.00	3714	179.00	15663	277.00	8890	392.00	421
84.00	510	180.00	11776	278.00	2274	393.00	67
85.00	2460	181.00	6373	279.00	266	394.00	69
86.00	3101	182.00	988	280.00	53	395.00	81
87.00	1869	183.00	895	281.00	129	401.00	367
88.00	1038	184.00	839	282.00	242	402.00	1730
89.00	65	185.00	8935	283.00	885	403.00	2484
91.00	2847	186.00	63248	284.00	796	404.00	832
92.00	4787	187.00	18496	285.00	1836	405.00	235
93.00	23496	188.00	2118	286.00	235	409.00	56
94.00	1498	189.00	3691	287.00	182	410.00	93
95.00	350	190.00	829	288.00	280	411.00	169
96.00	1053	191.00	2516	289.00	715	415.00	121
98.00	18184	192.00	5519	290.00	348	416.00	90
99.00	13581	193.00	5341	291.00	235	417.00	79
100.00	1553	194.00	1302	292.00	801	419.00	20
101.00	8256	195.00	834	293.00	2252	420.00	70
102.00	569	196.00	17136	294.00	318	421.00	2785
103.00	2742	198.00	459840	295.00	414	422.00	2138
104.00	5117	199.00	32368	296.00	28968	423.00	17096
105.00	4613	200.00	2760	297.00	4878	424.00	3940
106.00	82	201.00	2051	298.00	412	425.00	426

Report Date: 22-Apr-2013 13:55:06 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419001.D\8270_10.rslt\spectra.d
Injection Date: 19-Apr-2013 10:23:30
Spectrum: Tune Spec: Scans 1372-1374(9.93-9.94) Bgrd 1368(9.9
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 370

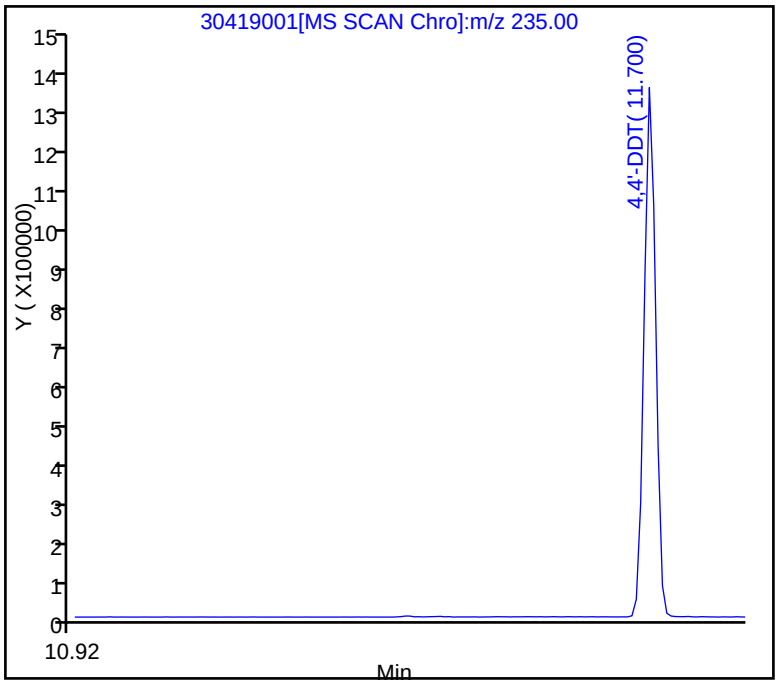
m/z	Y	m/z	Y	m/z	Y	m/z	Y
107.00	61936	202.00	1864	299.00	109	426.00	233
108.00	10225	203.00	3559	300.00	61	429.00	263
110.00	114568	204.00	16968	301.00	261	430.00	298
111.00	16960	205.00	31720	302.00	756	431.00	389
112.00	2386	206.00	119944	303.00	3604	432.00	187
113.00	395	207.00	16317	304.00	1146	433.00	402
114.00	321	208.00	3771	305.00	69	434.00	256
115.00	70	209.00	1373	308.00	693	435.00	274
116.00	2155	210.00	1625	309.00	517	436.00	420
117.00	49248	211.00	4448	310.00	151	437.00	153
118.00	3254	212.00	806	312.00	91	438.00	428
119.00	644	213.00	406	313.00	286	439.00	325
120.00	592	214.00	145	314.00	1620	441.00	56480
121.00	6	215.00	1390	315.00	3044	442.00	366400
122.00	3657	216.00	4030	316.00	1940	443.00	70016
123.00	5274	217.00	31440	317.00	294	444.00	6333
124.00	2806	218.00	3318	318.00	340	445.00	449
125.00	3155	219.00	541	319.00	71	446.00	51
126.00	1169	221.00	27584	320.00	335	450.00	55
127.00	225344	222.00	839	321.00	1302	458.00	79
128.00	17128	223.00	8056	322.00	494	461.00	68
129.00	81368	224.00	68104	323.00	10117	482.00	56
130.00	6840	225.00	16688	324.00	1691	499.00	56
131.00	1475	227.00	26152	325.00	329	511.00	72
132.00	900	228.00	3490	326.00	118		
133.00	342	229.00	6046	327.00	1859		

Breakdown Report

TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419001.D		
Injection Date:	19-Apr-2013 10:23:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	1
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

172 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

172 4,4'-DDT, Area = 1464296
167 4,4'-DDD, Area = 3134
168 4,4'-DDE, Area = 680

%Breakdown: 0.26%, Max Limit: 20.00%
Passed

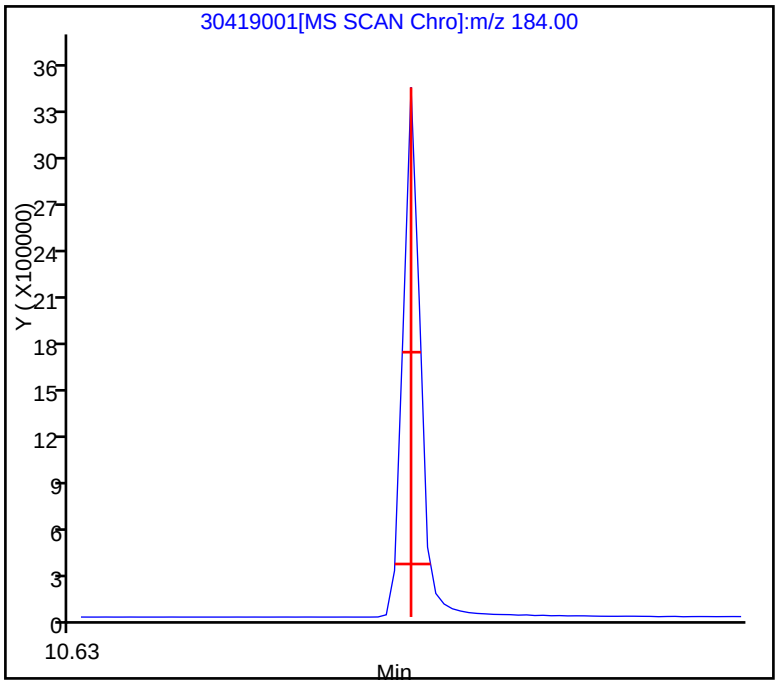
Peak Tailing Report

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419001.D

Injection Date:	19-Apr-2013 10:23:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	1
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

161 Benzidine, Detector: MS SCAN



Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.012 (min.)

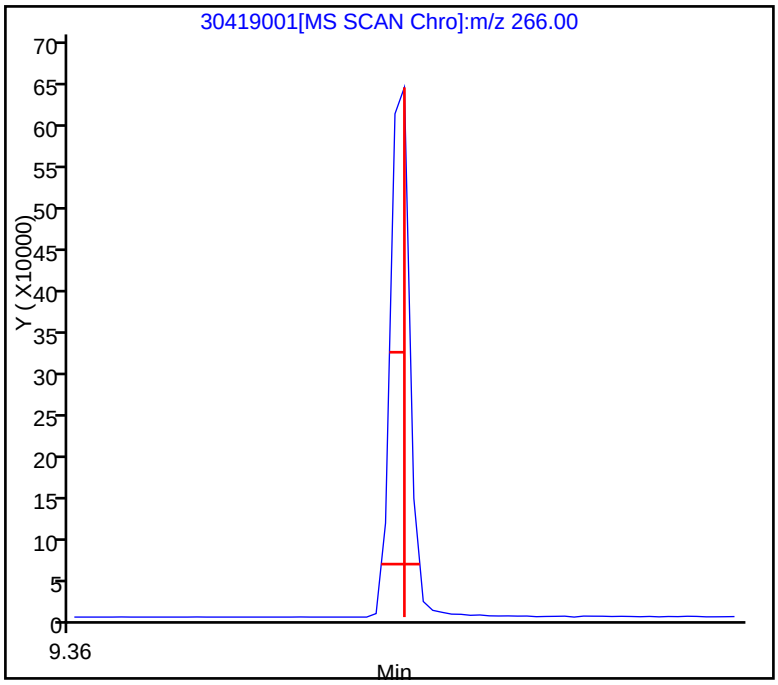
Tailing Factor = 1.2, Max. Tailing < 3.00
Passed

Peak Tailing Report

TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419001.D		
Injection Date:	19-Apr-2013 10:23:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	1
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

144 Pentachlorophenol, Detector: MS SCAN



Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.7, Max. Tailing < 5.00
Passed

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419101.D		
Lims ID:	dftpp	Client ID:	
Inject. Date:	19-Apr-2013 10:21:30	Dil. Factor:	1.0000
Sample Type:	DFTPP		
Sample ID:	dftpp,30419a.b,dftpp390		
Misc. Info.:	CCV TCL =CCV TCL		
Operator:	001574	Instrument ID:	A4HP9
Injection Vol:	1.0 ul	ALS Bottle#:	1
Lims Batch ID:	82668	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\8270 _9.m		
Last Update:	19-Apr-2013 15:20:08	Calib Date:	19-Apr-2013 14:12:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419110.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK006		
First Level Reviewer: ulmanm		Date:	19-Apr-2013 10:39:41

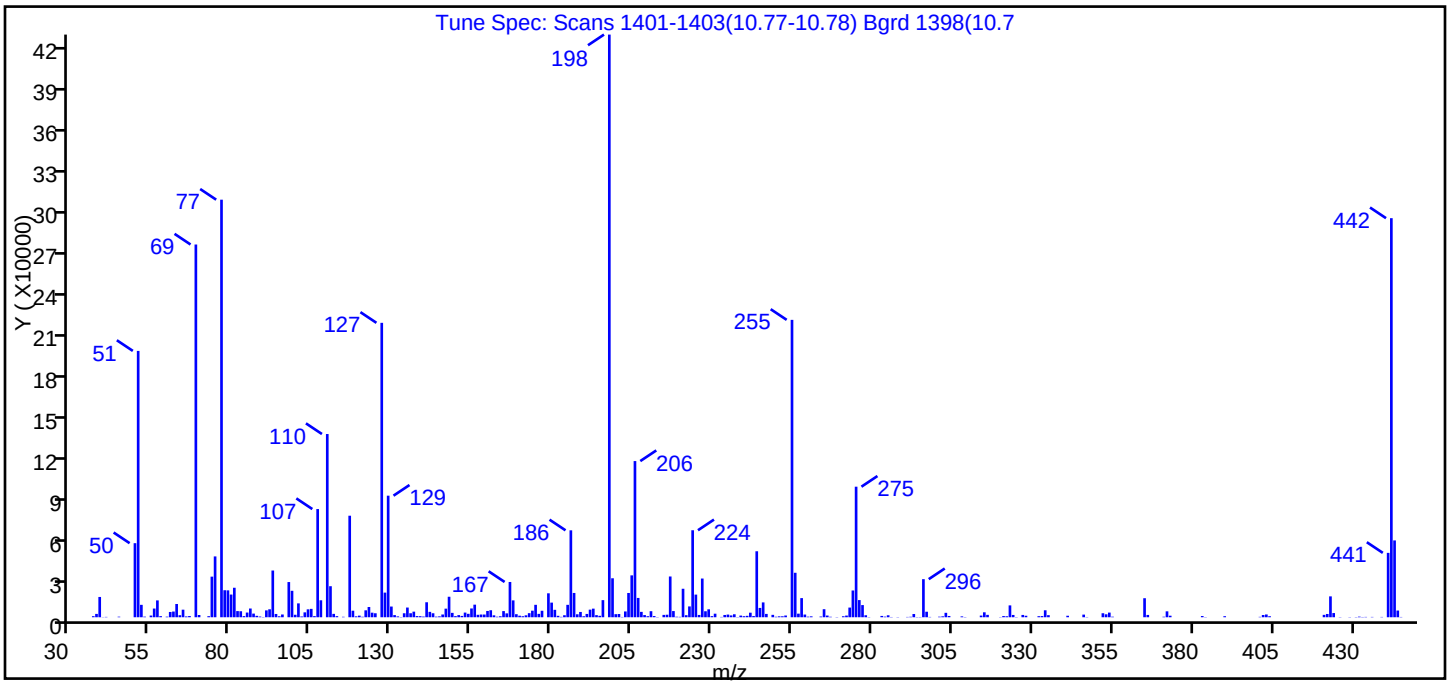
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
143 Pentachlorophenol	266	10.473	10.473	0.0	84	513343	0	
150 DFTPP								
160 Benzidine	184	11.750	11.750	0.0	98	2899500	0	
166 4,4'-DDE	246		11.931					
165 4,4'-DDD	235	12.241	12.241	0.0	1	2308	0	
170 4,4'-DDT	235	12.476	12.476	0.0	95	1399992	0	

MS Tune Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419101.D		
Injection Date:	19-Apr-2013 10:21:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	1
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm
Tune Method:	DFTPP Method CLP OLM4.2		

150 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	45.71
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Present	63.97
70	Less than 2.00% of mass 69	0.39 (0.60)
127	25.00 - 75.00% of mass 198	50.53
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.69
275	10.00 - 30.00% of mass 198	22.41
365	Greater than 0.75% of mass 198	3.27
441	Present, but less than mass 443%	11.05 (83.80)
442	40.00 - 110.00% of mass 198	68.49
443	15.00 - 24.00% of mass 442	13.19 (19.25)

Data File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419101.D\8270 _9.rslt\spectra.d
Injection Date: 19-Apr-2013 10:21:30
Spectrum: Tune Spec: Scans 1401-1403(10.77-10.78) Bgrd 1398(10.7
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 285

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	789	127.00	216064	201.00	2380	284.00	453
38.00	2455	128.00	18080	202.00	219	285.00	1444
39.00	14897	129.00	89216	203.00	4264	286.00	198
40.00	130	130.00	7859	204.00	17816	288.00	171
41.00	266	131.00	1584	205.00	30736	291.00	238
45.00	426	132.00	637	206.00	114608	292.00	349
50.00	54360	133.00	189	207.00	14174	293.00	2376
51.00	195456	134.00	2928	208.00	3957	294.00	181
52.00	9114	135.00	7127	209.00	1611	295.00	197
53.00	457	136.00	2943	210.00	774	296.00	27952
55.00	1248	137.00	4109	211.00	4443	297.00	4058
56.00	6392	138.00	867	212.00	869	298.00	243
57.00	12373	139.00	780	213.00	176	301.00	429
58.00	824	140.00	506	215.00	1739	302.00	681
60.00	433	141.00	11006	216.00	1862	303.00	3250
61.00	3876	142.00	3964	217.00	29920	304.00	934
62.00	4197	143.00	2933	218.00	4543	308.00	637
63.00	9733	144.00	442	219.00	389	309.00	193
64.00	1493	145.00	656	220.00	297	314.00	1234
65.00	5560	146.00	2025	221.00	20912	315.00	3636
66.00	584	147.00	6317	222.00	1509	316.00	1759
67.00	896	148.00	15047	223.00	7953	320.00	173
69.00	273536	149.00	3223	224.00	63848	321.00	872
70.00	1652	150.00	814	225.00	16624	322.00	721
73.00	790	151.00	1565	226.00	1691	323.00	8708
74.00	29800	152.00	988	227.00	28416	324.00	1694
75.00	44648	153.00	3426	228.00	4397	325.00	183
77.00	306432	154.00	2522	229.00	5832	327.00	1697
78.00	19832	155.00	6455	230.00	825	328.00	1101
79.00	19744	156.00	9238	231.00	2613	332.00	783
80.00	16664	157.00	1807	233.00	245	333.00	861
81.00	21648	158.00	2014	234.00	1675	334.00	5121
82.00	4523	159.00	1994	235.00	1966	335.00	1530

Report Date: 19-Apr-2013 15:20:09 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419101.D\8270 _9.rslt\spectra.d
Injection Date: 19-Apr-2013 10:21:30
Spectrum: Tune Spec: Scans 1401-1403(10.77-10.78) Bgrd 1398(10.7
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 285

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	4415	160.00	4618	236.00	1351	341.00	1103
84.00	836	161.00	5152	237.00	2194	346.00	1942
85.00	3458	162.00	1416	238.00	176	347.00	201
86.00	6417	163.00	401	239.00	1217	352.00	2945
87.00	2684	164.00	727	240.00	773	353.00	2173
88.00	1059	165.00	4521	241.00	1050	354.00	3421
89.00	526	166.00	2853	242.00	3344	355.00	415
90.00	192	167.00	25888	243.00	869	365.00	13971
91.00	5048	168.00	12382	244.00	48432	366.00	1707
92.00	5847	169.00	2245	245.00	6843	371.00	388
93.00	34296	170.00	1136	246.00	10896	372.00	4349
94.00	2409	171.00	749	247.00	2451	373.00	1131
95.00	736	172.00	1420	249.00	1768	383.00	898
96.00	2033	173.00	2996	250.00	372	384.00	172
98.00	25832	174.00	4811	251.00	673	390.00	775
99.00	19416	175.00	9126	252.00	708	401.00	306
100.00	1828	176.00	2482	253.00	1275	402.00	1650
101.00	10187	177.00	4762	255.00	218240	403.00	2046
102.00	570	179.00	17576	256.00	32640	404.00	761
103.00	3600	180.00	10744	257.00	2632	421.00	1760
104.00	5814	181.00	5459	258.00	14049	422.00	2404
105.00	6157	182.00	1063	259.00	1987	423.00	15328
106.00	823	183.00	287	260.00	443	424.00	3087
107.00	79400	184.00	1483	261.00	665	426.00	169
108.00	12459	185.00	9118	264.00	529	429.00	169
110.00	134464	186.00	63792	265.00	5911	431.00	179
111.00	22784	187.00	17832	266.00	1250	432.00	454
112.00	2486	188.00	2180	267.00	354	433.00	194
113.00	814	189.00	3887	269.00	177	434.00	257
115.00	343	190.00	723	271.00	735	436.00	251
117.00	74512	191.00	2429	272.00	1239	439.00	236
118.00	4800	192.00	5588	273.00	7105	441.00	47248
119.00	670	193.00	6320	274.00	19656	442.00	292864
120.00	1185	194.00	1554	275.00	95808	443.00	56384

Report Date: 19-Apr-2013 15:20:09 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419101.D\8270 _9.rslt\spectra.d
Injection Date: 19-Apr-2013 10:21:30
Spectrum: Tune Spec: Scans 1401-1403(10.77-10.78) Bgrd 1398(10.7
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 285

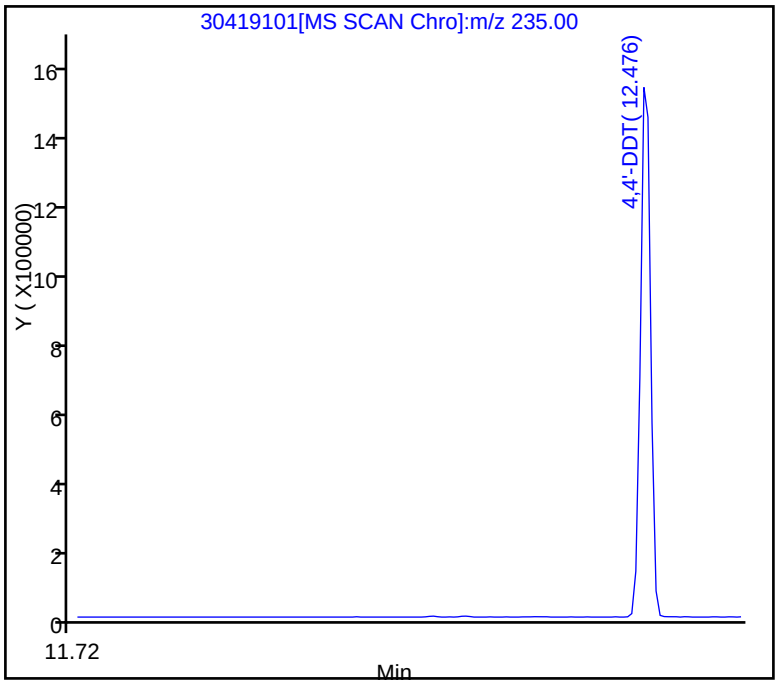
m/z	Y	m/z	Y	m/z	Y	m/z	Y
121.00	361	195.00	1055	276.00	12597	444.00	4929
122.00	5087	196.00	12561	277.00	8930	445.00	217
123.00	7521	198.00	427584	278.00	1467		
124.00	3344	199.00	28608	279.00	180		
125.00	2927	200.00	2267	283.00	975		

Breakdown Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419101.D		
Injection Date:	19-Apr-2013 10:21:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	1
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

170 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

170 4,4'-DDT, Area = 1399992
165 4,4'-DDD, Area = 2308
166 4,4'-DDE, Area = 0

%Breakdown: 0.16%, Max Limit: 20.00%
Passed

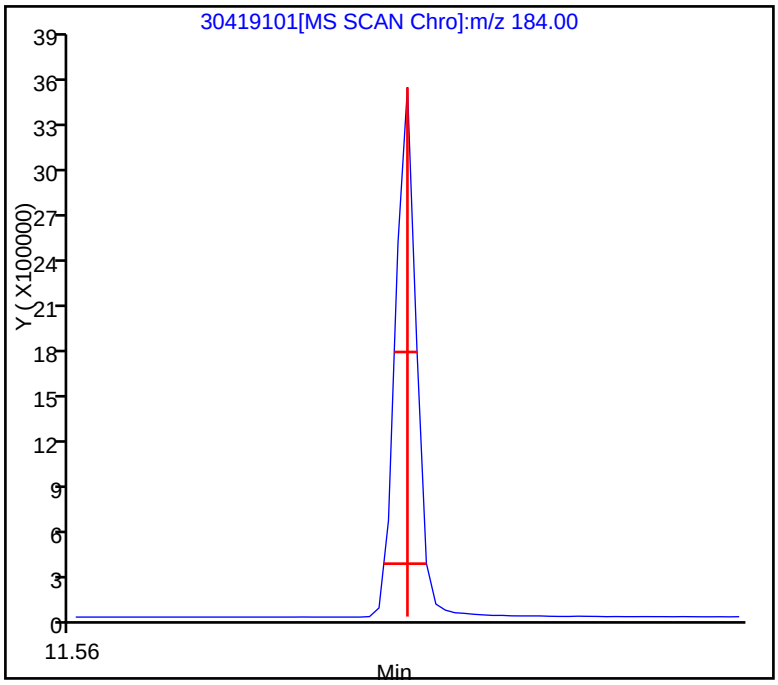
Report Date: 19-Apr-2013 15:20:09 Chrom Revision: 2.0 01-Apr-2013 21:16:10

Peak Tailing Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419101.D		
Injection Date:	19-Apr-2013 10:21:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	1
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

160 Benzidine, Detector: MS SCAN



Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.013 (min.)

Tailing Factor = 0.8, Max. Tailing < 3.00
Passed

Report Date: 19-Apr-2013 15:20:09 Chrom Revision: 2.0 01-Apr-2013 21:16:10

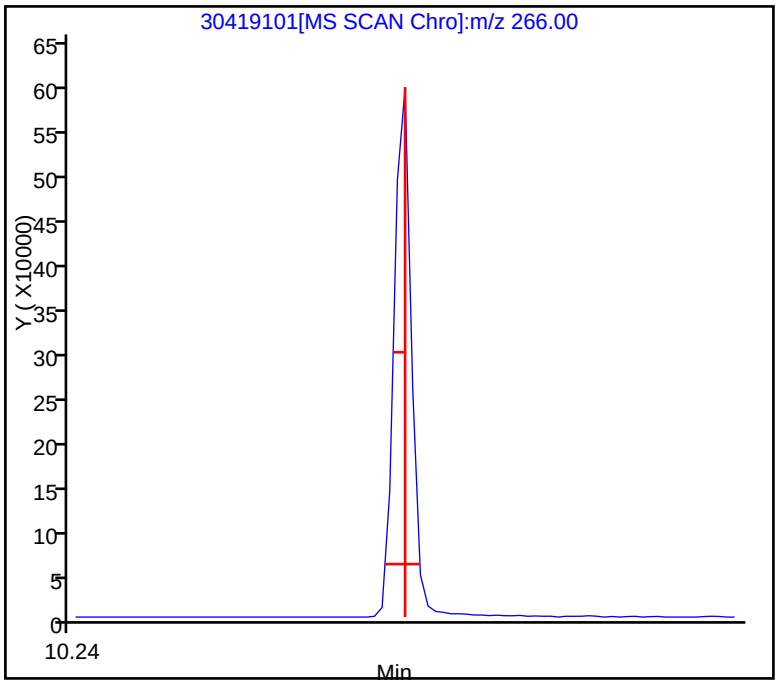
Peak Tailing Report

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419101.D

Injection Date:	19-Apr-2013 10:21:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	82668	Lims Sample ID:	1
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

143 Pentachlorophenol, Detector: MS SCAN



Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.7, Max. Tailing < 5.00
Passed

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425101.D		
Lims ID:	dftpp	Client ID:	
Inject. Date:	25-Apr-2013 15:15:30	Dil. Factor:	1.0000
Sample Type:	DFTPP		
Sample ID:	240-0019269-001		
Misc. Info.:	DFTPP =DFTPP		
Operator:	001574	Instrument ID:	A4HP9
Injection Vol:	1.0 ul	ALS Bottle#:	1
Lims Batch ID:	83588	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP9\20130425-19269.b\8270 _9.m		
Last Update:	26-Apr-2013 09:38:08	Calib Date:	19-Apr-2013 14:12:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419110.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK003		
First Level Reviewer: ulmanm		Date:	25-Apr-2013 15:42:33

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
143 Pentachlorophenol	266	10.393	10.393	0.0	82	614131	0	
150 DFTPP								
160 Benzidine	184	11.667	11.667	0.0	99	4736359	0	
166 4,4'-DDE	246		11.829					9
165 4,4'-DDD	235	12.109	12.109	0.0	75	11969	0	
170 4,4'-DDT	235	12.384	12.384	0.0	95	2050598	0	

QC Flag Legend

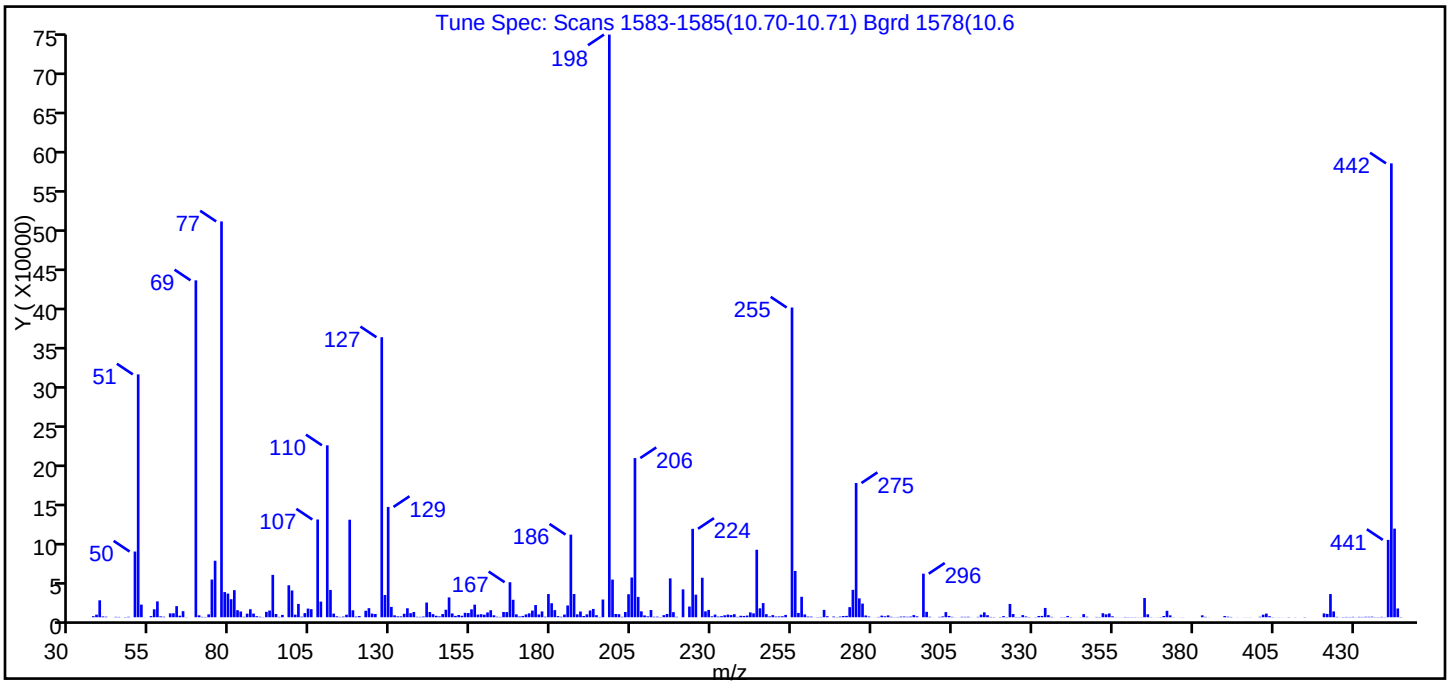
Processing Flags
9 - Failed A Reference Spectral Test

MS Tune Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425101.D		
Injection Date:	25-Apr-2013 15:15:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	83588	Lims Sample ID:	1
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm
Tune Method:	DFTPP Method CLP OLM4.2		

150 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	41.68
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Present	57.82
70	Less than 2.00% of mass 69	0.33 (0.57)
127	25.00 - 75.00% of mass 198	48.06
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.46
275	10.00 - 30.00% of mass 198	23.03
365	Greater than 0.75% of mass 198	3.30
441	Present, but less than mass 443%	13.28 (87.28)
442	40.00 - 110.00% of mass 198	77.90
443	15.00 - 24.00% of mass 442	15.21 (19.53)

Data File: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425101.D\8270 _9.rslt\spectra.d
Injection Date: 25-Apr-2013 15:15:30
Spectrum: Tune Spec: Scans 1583-1585(10.70-10.71) Bgrd 1578(10.6
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 360

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	34	140.00	927	234.00	2500	331.00	268
37.00	1380	141.00	18728	235.00	3387	332.00	1638
38.00	3307	142.00	6734	236.00	2799	333.00	1716
39.00	21584	143.00	3949	237.00	3906	334.00	11848
40.00	1062	144.00	1881	238.00	510	335.00	2699
41.00	700	145.00	1118	239.00	1895	336.00	532
44.00	523	146.00	4112	240.00	1666	337.00	82
45.00	454	147.00	9628	241.00	2176	339.00	316
47.00	323	148.00	25280	242.00	6185	340.00	285
48.00	588	149.00	4850	243.00	4969	341.00	1682
50.00	83672	150.00	1774	244.00	85944	342.00	341
51.00	309248	151.00	2883	245.00	11378	343.00	76
52.00	16100	152.00	1901	246.00	18040	344.00	51
53.00	146	153.00	5666	247.00	3921	345.00	235
55.00	1485	154.00	5378	248.00	1077	346.00	3967
56.00	10132	155.00	10122	249.00	2728	347.00	676
57.00	20176	156.00	16032	250.00	906	348.00	57
58.00	1087	157.00	3398	251.00	1038	350.00	421
59.00	694	158.00	3882	252.00	1277	351.00	287
61.00	4933	159.00	3281	253.00	2986	352.00	5119
62.00	5084	160.00	6151	255.00	394368	353.00	3745
63.00	14145	161.00	8951	256.00	58944	354.00	4793
64.00	1984	162.00	2484	257.00	5457	355.00	1187
65.00	7780	163.00	672	258.00	26056	356.00	126
66.00	199	164.00	468	259.00	3600	357.00	109
69.00	428992	165.00	6736	260.00	893	358.00	111
70.00	2438	166.00	6599	261.00	804	359.00	379
71.00	523	167.00	44608	262.00	81	360.00	247
72.00	397	168.00	22272	263.00	342	361.00	246
73.00	3678	169.00	3704	264.00	451	362.00	240
74.00	48016	170.00	1031	265.00	9406	363.00	149
75.00	71952	171.00	1698	266.00	1293	364.00	200
77.00	504000	172.00	3655	268.00	908	365.00	24480

Report Date: 26-Apr-2013 09:38:09 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425101.D\8270 _9.rslt\spectra.d
Injection Date: 25-Apr-2013 15:15:30
Spectrum: Tune Spec: Scans 1583-1585(10.70-10.71) Bgrd 1578(10.6
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 360

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	32056	173.00	4986	269.00	289	366.00	3746
79.00	30136	174.00	8478	270.00	871	367.00	266
80.00	22968	175.00	15566	271.00	1554	368.00	73
81.00	34512	176.00	3553	272.00	1753	369.00	106
82.00	9001	177.00	7430	273.00	12886	370.00	330
83.00	7328	178.00	670	274.00	34880	371.00	1608
84.00	589	179.00	29536	275.00	170880	372.00	8202
85.00	4598	180.00	17872	276.00	24040	373.00	2429
86.00	10195	181.00	9082	277.00	17392	374.00	221
87.00	4667	182.00	1467	278.00	2254	376.00	115
88.00	1318	183.00	665	279.00	950	377.00	152
89.00	673	184.00	3462	280.00	61	383.00	2447
90.00	199	185.00	14999	281.00	115	384.00	523
91.00	6872	186.00	105240	282.00	450	385.00	104
92.00	8581	187.00	29584	283.00	2076	390.00	1552
93.00	53952	188.00	3675	284.00	1270	391.00	754
94.00	4119	189.00	7348	285.00	2385	392.00	415
95.00	482	190.00	1606	286.00	560	394.00	111
96.00	3021	191.00	3696	287.00	240	396.00	121
98.00	40712	192.00	8623	288.00	394	397.00	99
99.00	34096	193.00	10598	289.00	854	398.00	155
100.00	3328	194.00	2668	290.00	929	401.00	628
101.00	16992	195.00	409	291.00	592	402.00	3294
102.00	734	196.00	22592	292.00	856	403.00	4667
103.00	5292	198.00	741888	293.00	2760	404.00	1335
104.00	11054	199.00	47952	294.00	1162	405.00	276
105.00	10295	200.00	4148	296.00	55488	406.00	84
107.00	124464	201.00	3895	297.00	6907	407.00	156
108.00	19936	202.00	590	298.00	642	408.00	104
110.00	218944	203.00	6717	299.00	61	410.00	334
111.00	34768	204.00	29312	301.00	471	412.00	177
112.00	4621	205.00	50632	302.00	1061	415.00	315
113.00	1226	206.00	202688	303.00	6554	421.00	4907
114.00	464	207.00	25912	304.00	1689	422.00	4238

Report Date: 26-Apr-2013 09:38:09 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425101.D\8270 _9.rslt\spectra.d
Injection Date: 25-Apr-2013 15:15:30
Spectrum: Tune Spec: Scans 1583-1585(10.70-10.71) Bgrd 1578(10.6
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 360

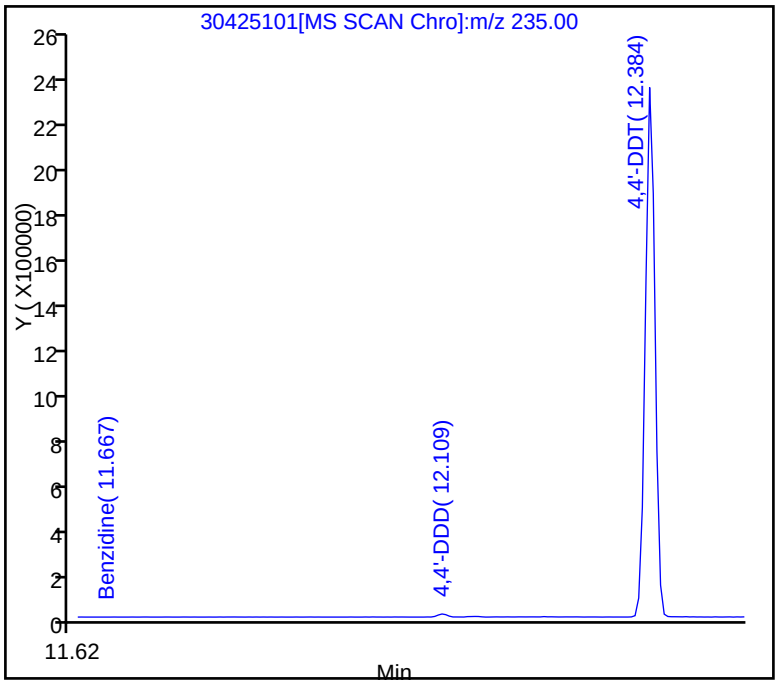
m/z	Y	m/z	Y	m/z	Y	m/z	Y
115.00	861	208.00	7538	305.00	518	423.00	29536
116.00	3224	209.00	2350	306.00	108	424.00	7447
117.00	124168	210.00	1155	307.00	84	425.00	521
118.00	8878	211.00	9218	308.00	575	426.00	90
119.00	866	212.00	637	309.00	529	427.00	320
120.00	1527	213.00	798	310.00	652	428.00	435
122.00	8310	214.00	311	311.00	94	429.00	344
123.00	11546	215.00	2695	313.00	509	430.00	535
124.00	4659	216.00	4190	314.00	3267	431.00	167
125.00	4118	217.00	49504	315.00	6231	432.00	535
127.00	356544	218.00	6505	316.00	2636	433.00	394
128.00	28336	219.00	574	317.00	432	434.00	616
129.00	140480	221.00	35520	318.00	336	435.00	604
130.00	13191	223.00	13657	320.00	364	436.00	726
131.00	2458	224.00	112600	321.00	1469	437.00	268
132.00	1188	225.00	28752	322.00	322	438.00	305
133.00	1114	227.00	50304	323.00	16960	439.00	509
134.00	4450	228.00	7533	324.00	4097	440.00	238
135.00	11457	229.00	9322	325.00	377	441.00	98496
136.00	5178	230.00	1185	326.00	321	442.00	577920
137.00	6683	231.00	3402	327.00	2745	443.00	112848
138.00	616	232.00	841	328.00	998	444.00	11209
139.00	543	233.00	1414	329.00	339	445.00	354

Breakdown Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425101.D		
Injection Date:	25-Apr-2013 15:15:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	83588	Lims Sample ID:	1
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

170 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

170 4,4'-DDT, Area = 2050598
165 4,4'-DDD, Area = 11969
166 4,4'-DDE, Area = 0

%Breakdown: 0.58%, Max Limit: 20.00%
Passed

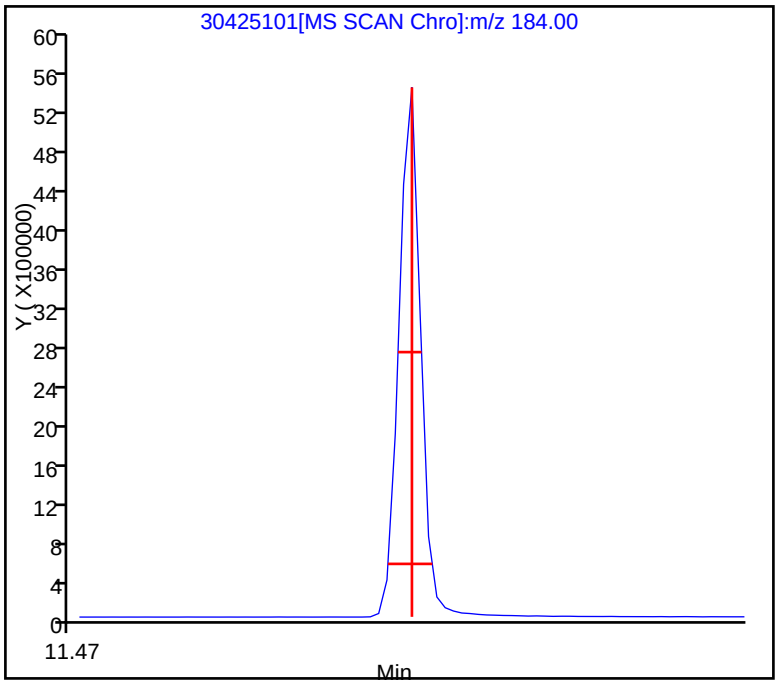
Report Date: 26-Apr-2013 09:38:08 Chrom Revision: 2.0 01-Apr-2013 21:16:10

Peak Tailing Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425101.D		
Injection Date:	25-Apr-2013 15:15:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	83588	Lims Sample ID:	1
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

160 Benzidine, Detector: MS SCAN



Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.8, Max. Tailing < 3.00
Passed

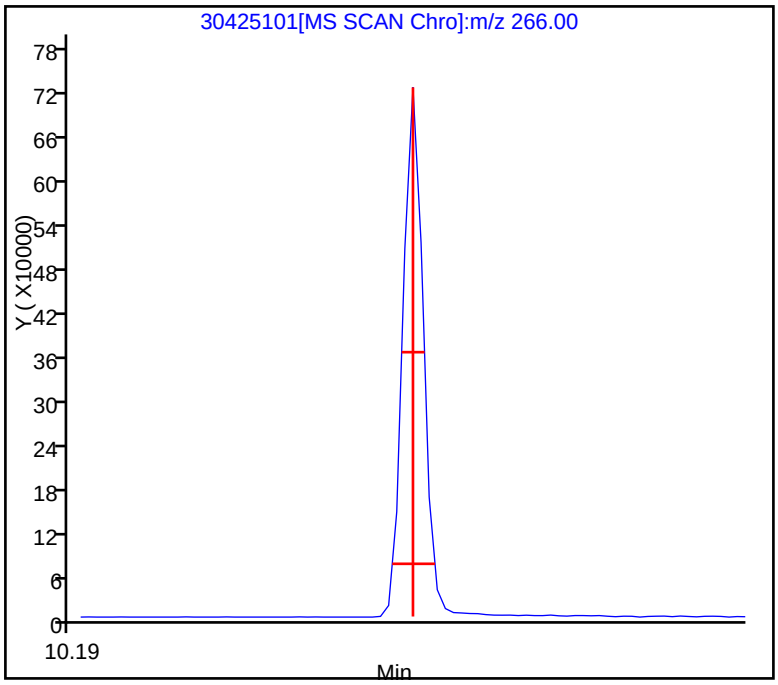
Report Date: 26-Apr-2013 09:38:08 Chrom Revision: 2.0 01-Apr-2013 21:16:10

Peak Tailing Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425101.D		
Injection Date:	25-Apr-2013 15:15:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	83588	Lims Sample ID:	1
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

143 Pentachlorophenol, Detector: MS SCAN



Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 1.1, Max. Tailing < 5.00
Passed

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-81947/23-A

Matrix: Solid | Lab File ID: 30419004.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.00(g) | Date Analyzed: 04/19/2013 11:30

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	3.3	U	6.7	3.3	3.3
208-96-8	Acenaphthylene	3.3	U	6.7	3.3	3.3
120-12-7	Anthracene	3.3	U	6.7	3.3	3.3
56-55-3	Benzo[a]anthracene	3.3	U	6.7	3.3	3.3
50-32-8	Benzo[a]pyrene	3.3	U	6.7	3.3	3.3
205-99-2	Benzo[b]fluoranthene	3.3	U	6.7	3.3	3.3
191-24-2	Benzo[g,h,i]perylene	3.3	U	6.7	3.3	3.3
65-85-0	Benzoic acid	330	U	660	330	330
207-08-9	Benzo[k]fluoranthene	3.3	U	6.7	3.3	3.3
100-51-6	Benzyl alcohol	27	U	330	27	21
111-91-1	Bis(2-chloroethoxy)methane	27	U	100	27	22
111-44-4	Bis(2-chloroethyl)ether	3.3	U	100	3.3	2.0
108-60-1	bis (2-chloroisopropyl) ether	27	U	100	27	9.5
117-81-7	Bis(2-ethylhexyl) phthalate	19.9	J	70	27	19
101-55-3	4-Bromophenyl phenyl ether	27	U	50	27	13
85-68-7	Butyl benzyl phthalate	27	U	70	27	10
86-74-8	Carbazole	27	U	50	27	27
106-47-8	4-Chloroaniline	27	U	150	27	17
59-50-7	4-Chloro-3-methylphenol	27	U	150	27	21
91-58-7	2-Chloronaphthalene	3.3	U	50	3.3	3.3
95-57-8	2-Chlorophenol	27	U	50	27	27
7005-72-3	4-Chlorophenyl phenyl ether	27	U	50	27	13
218-01-9	Chrysene	3.3	U	6.7	3.3	1.1
53-70-3	Dibenz(a,h)anthracene	3.3	U	6.7	3.3	3.3
132-64-9	Dibenzofuran	3.3	U	50	3.3	3.3
95-50-1	1,2-Dichlorobenzene	27	U	50	27	9.7
541-73-1	1,3-Dichlorobenzene	27	U	50	27	11
106-46-7	1,4-Dichlorobenzene	27	U	50	27	20
91-94-1	3,3'-Dichlorobenzidine	80	U	100	80	18
120-83-2	2,4-Dichlorophenol	27	U	150	27	20
84-66-2	Diethyl phthalate	27	U	70	27	16
105-67-9	2,4-Dimethylphenol	80	U	150	80	20
131-11-3	Dimethyl phthalate	27	U	70	27	17
84-74-2	Di-n-butyl phthalate	16.7	J	70	27	15

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-81947/23-A

Matrix: Solid | Lab File ID: 30419004.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.00(g) | Date Analyzed: 04/19/2013 11:30

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	80	U	150	80	80
51-28-5	2,4-Dinitrophenol	80	U	330	80	80
121-14-2	2,4-Dinitrotoluene	27	U	200	27	27
606-20-2	2,6-Dinitrotoluene	27	U	200	27	21
117-84-0	Di-n-octyl phthalate	27	U	70	27	27
206-44-0	Fluoranthene	3.3	U	6.7	3.3	3.3
86-73-7	Fluorene	3.3	U	6.7	3.3	3.3
118-74-1	Hexachlorobenzene	3.3	U	6.7	3.3	2.1
87-68-3	Hexachlorobutadiene	27	U	50	27	27
77-47-4	Hexachlorocyclopentadiene	27	U	330	27	27
67-72-1	Hexachloroethane	27	U	50	27	9.0
193-39-5	Indeno[1,2,3-cd]pyrene	3.3	U	6.7	3.3	3.3
78-59-1	Isophorone	27	U	50	27	13
91-57-6	2-Methylnaphthalene	3.3	U	6.7	3.3	3.3
95-48-7	2-Methylphenol	80	U	200	80	80
15831-10-4	3 & 4 Methylphenol	80	U	400	80	20
91-20-3	Naphthalene	3.3	U	6.7	3.3	3.3
88-74-4	2-Nitroaniline	27	U	200	27	9.1
99-09-2	3-Nitroaniline	80	U	200	80	16
100-01-6	4-Nitroaniline	27	U	200	27	26
98-95-3	Nitrobenzene	3.3	U	100	3.3	2.2
88-75-5	2-Nitrophenol	27	U	50	27	27
100-02-7	4-Nitrophenol	80	U	330	80	80
621-64-7	N-Nitrosodi-n-propylamine	27	U	50	27	27
86-30-6	N-Nitrosodiphenylamine	27	U	50	27	21
87-86-5	Pentachlorophenol	80	U	150	80	80
85-01-8	Phenanthrene	3.3	U	6.7	3.3	3.3
108-95-2	Phenol	27	U	50	27	27
129-00-0	Pyrene	3.3	U	6.7	3.3	3.3
120-82-1	1,2,4-Trichlorobenzene	27	U	50	27	27
95-95-4	2,4,5-Trichlorophenol	27	U	150	27	25
88-06-2	2,4,6-Trichlorophenol	80	U	150	80	80

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-81947/23-A

Matrix: Solid | Lab File ID: 30419004.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.00(g) | Date Analyzed: 04/19/2013 11:30

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	58		45-105
367-12-4	2-Fluorophenol (Surr)	68		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	60		35-100
4165-62-2	Phenol-d5 (Surr)	66		40-100
1718-51-0	Terphenyl-d14 (Surr)	65		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	50		35-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419004.D
Lims ID: MB 240-81947/23-A Client ID:
Inject. Date: 19-Apr-2013 11:30:30 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: 240-0019044-004
Misc. Info.: MB 240-81947/23-A
Operator: 001710 Instrument ID: A4HP10
Injection Vol: 1.0 ul ALS Bottle#: 4
Lims Batch ID: 82653 Lims Sample ID: 4
Detector: MS SCAN

Method: \\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m
Last Update: 22-Apr-2013 13:55:06 Calib Date: 12-Apr-2013 00:58:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: 5% phenyl Column Dia: 0.18 mm
Process Host: XAWRK022

First Level Reviewer: gruberj Date: 19-Apr-2013 12:34:27

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.848	5.848	0.0	98	125684	4.00	
* 2 Naphthalene-d8	136	6.971	6.970	0.001	99	473779	4.00	
* 3 Acenaphthene-d10	164	8.475	8.475	0.0	93	278331	4.00	
* 4 Phenanthrene-d10	188	9.738	9.738	0.0	97	458692	4.00	
* 5 Chrysene-d12	240	12.294	12.294	0.0	84	487011	4.00	
* 6 Perylene-d12	264	14.368	14.368	0.0	85	390340	4.00	
$ 7 2-Fluorophenol	112	4.579	4.573	0.006	92	371391	10.2	
$ 8 Phenol-d5	99	5.490	5.490	0.0	99	477059	9.84	
$ 9 Nitrobenzene-d5	82	6.336	6.336	0.0	89	265567	5.99	
$ 10 2-Fluorobiphenyl (Surr)	172	7.887	7.887	0.0	99	524874	5.85	
$ 11 2,4,6-Tribromophenol	330	9.139	9.144	-0.005	89	76288	7.49	
$ 12 Terphenyl-d14	244	11.101	11.101	0.0	98	618517	6.45	
243 n-Decane	57		0.000					
242 3-(1,1-Dimethylethyl Phenol) TIC	1		0.000					
21 2,5-Dichlorophenol	1		0.000					
18 Octachlorostyrene	1		0.000					
24 Bis(2-hydroxyphenyl)methane	1		0.000					
13 Dimethylformamide	1		0.000					
23 Bis(4-hydroxyphenyl)methane	1		0.000					
247 Hexadecane	57		0.000					
234 2-Isopropylphenol TIC	1		0.000					
236 4-isopropylphenol TIC	1		0.000					
16 2,3-Dichlorophenol	1		0.000					
20 Octachlorocyclopentene	1		0.000					
250 2,3,7,8-TCDD TIC	1		0.000					
249 4-Chlorophenol TIC	1		0.000					
245 Total Cresols	1		0.000					
239 3-isopropylphenol TIC	1		0.000					
244 n-Octadecane	57		0.000					
25 1,4-Dioxane	88		2.305					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
32 Malononitrile	66		2.451					
233 n,n'-Dimethylacetamide	44	2.470	2.478	-0.008	62	219	0	
35 3-Picoline	93		2.622					9
26 N-Nitrosodimethylamine	74		2.746					
27 Pyridine	79		2.799					9
40 4-Methylcyclohexanone	55	3.304	3.221	0.083	10	2750	0	
38 2-Methylcyclohexanone	68	3.234	3.221	0.013	2	133	0	
39 3-Methylcyclohexanone	69	3.210	3.221	-0.011	1	140	0	
232 1-Methyl-2-pyrrilidinone	99		3.351					14
30 2-Picoline	93		4.091					
67 1,3,5-Trichlorobenzene	180		4.145					
14 Catechol	110		4.161					1
31 N-Nitrosomethylethylamine	88		4.226					9
22 3-Methylcatechol	124	4.462	4.460	0.002	1	62	0	
34 Acrylamide	71	4.485	4.497	-0.012	19	386	0	
79 1,2,3-Trichlorobenzene	180		4.535					
33 Methyl methanesulfonate	80		4.550					9
17 4-Methylcatechol	124	4.462	4.583	-0.121	1	62	0	
36 N-Nitrosodiethylamine	102		4.955					
90 1,2,3,5-Tetrachlorobenzene	216		5.031					
97 2,4-Toluene diamine	121		5.234					
37 Ethyl methanesulfonate	79		5.237					
99 1,2,3,4 -Tetrachlorobenzene	216		5.250					9
41 Benzaldehyde	77		5.449					
43 Phenol	94		5.502					9
42 Phenylmercaptan	110		5.539					
44 Aniline	93		5.543					9
108 1,2-Dinitrobenzene	168		5.550					
45 Bis(2-chloroethyl)ether	93		5.601					9
47 2-Chlorophenol	128		5.648					
46 Pentachloroethane	167		5.701					
48 1,3-Dichlorobenzene	146		5.795					
49 1,4-Dichlorobenzene	146		5.866					
50 Benzyl alcohol	108		5.960					9
51 1,2-Dichlorobenzene	146		6.001					
52 2-Methylphenol	108		6.054					9
53 Indene	115		6.077					9
54 2,2'-oxybis[1-chloropropane]	45		6.083					
127 Tributyl phosphate	99		6.089					9
56 3 & 4 Methylphenol	108		6.183					9
57 N-Nitrosodi-n-propylamine	70		6.195					9
58 Acetophenone	105		6.201					9
55 N-Nitrosopyrrolidine	100		6.277					
61 Hexachloroethane	117		6.307					
59 N-Nitrosomorpholine	56		6.312					9
60 2-Toluidine	106		6.330					
62 Nitrobenzene	77		6.354					
64 Isophorone	82		6.559					9
63 N-Nitrosopiperidine	114		6.582					
66 2-Nitrophenol	139		6.636					
65 2,4-Dimethylphenol	107		6.653					
70 Benzoic acid	122	6.671	6.712	-0.041	75	6263	0.7991	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
69 Bis(2-chloroethoxy)methane	93		6.741					
68 o,o',o''-Triethylphosphorothioat	198		6.800					
72 2,4-Dichlorophenol	162		6.835					
71 alpha,alpha-Dimethyl phenethylam	58		6.906					
73 1,2,4-Trichlorobenzene	180		6.918					
74 Naphthalene	128		6.988					9
75 4-Chloroaniline	127		7.023					
78 Hexachlorobutadiene	225		7.088					
76 2,6-Dichlorophenol	162		7.123					
77 Hexachloropropene	213		7.158					
80 Benzothiazole	135	7.206	7.243	-0.037	71	8042	0	
83 Caprolactam	113		7.317					
81 Quinoline	129		7.364					
82 N-Nitrosodi-n-butylamine	84		7.387					9
84 p-Phenylene diamine	108		7.411					9
85 4-Chloro-3-methylphenol	107		7.423					
87 2-Methylnaphthalene	142		7.582					
86 Safrole, Total	162		7.587					
88 1-Methylnaphthalene	142		7.670					
89 Hexachlorocyclopentadiene	237		7.711					
92 1,2,4,5-Tetrachlorobenzene	216		7.723					
93 2,4,6-Trichlorophenol	196		7.811					
95 Isosafrole Peak 1	162		7.834					
94 2,4,5-Trichlorophenol	196		7.846					
96 3,4-Dichloronitrobenzene	109		7.967					9
98 1,1'-Biphenyl	154		7.975					9
100 2-Chloronaphthalene	162		7.999					9
91 Isosafrole Peak 2	162		8.028					9
102 2-Nitroaniline	65		8.075					
101 Phenyl ether	170		8.089					
246 1-Chloronaphthalene	162		8.116					1
105 Dimethyl phthalate	163		8.216					9
103 1,4-Naphthoquinone	158		8.239					9
106 1,3-Dinitrobenzene	168		8.251					
107 2,6-Dinitrotoluene	165		8.275					9
104 1,4-Dinitrobenzene	168		8.280					
109 Acenaphthylene	152		8.357					
110 3-Nitroaniline	138		8.422					
112 Acenaphthene	153		8.504					
111 2,4-Dinitrophenol	184		8.510					
113 4-Nitrophenol	109		8.539					9
114 2,4-Dinitrotoluene	165		8.616					9
116 Dibenzofuran	168		8.645					9
174 3,3'-Dimethoxybenzidine	244		8.648					
115 Pentachlorobenzene	250		8.704					
119 2,3,4,6-Tetrachlorophenol	232		8.739					
117 2,3,5,6-Tetrachlorophenol	232		8.798					
118 1-Naphthylamine	143		8.803					
121 Diethyl phthalate	149		8.815					
120 2-Naphthylamine	143		8.874					
123 4-Chlorophenyl phenyl ether	204		8.927					
126 Fluorene	166		8.939					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
125 4-Nitroaniline	138		8.939					
128 4,6-Dinitro-2-methylphenol	198		8.962					
122 Thionazin	97		8.974					
129 N-Nitrosodiphenylamine	169		9.027					9
124 N-Nitro-o-toluidine	152		9.033					9
132 Azobenzene	77		9.062					9
131 1,2-Diphenylhydrazine	77		9.062					9
130 Diphenylamine	169		9.115					9
133 Sulfotepp	202		9.232					
134 1,3,5-Trinitrobenzene	213		9.315					
139 4-Bromophenyl phenyl ether	248		9.344					
135 Diallate Peak 1	86		9.356					
136 Phenacetin	108		9.362					
137 Phorate	121		9.367					9
141 Hexachlorobenzene	284		9.403					
138 Diallate Peak 2	86		9.438					
142 Atrazine	200		9.462					
140 Dimethoate	87		9.514					
144 Pentachlorophenol	266		9.567					
143 4-Aminobiphenyl	169		9.661					9
146 Pentachloronitrobenzene	237		9.673					
145 Pronamide	173		9.691					
149 Phenanthrene	178		9.761					9
148 Dinoseb	211		9.802					
150 Anthracene	178		9.803					9
147 Disulfoton	88		9.808					9
152 Carbazole	167		9.932					9
153 Methyl parathion	109		10.131					9
154 Diphenylsulfone	125		10.147					9
155 Di-n-butyl phthalate	149	10.191	10.196	-0.005	76	29930	0.2511	
156 Ethyl Parathion	97		10.454					
157 4-Nitroquinoline-1-oxide	190		10.507					
158 Methapyrilene	58		10.554					9
159 Isodrin	66		10.748					9
160 Fluoranthene	202		10.772					9
161 Benzidine	184		10.872					
162 Pyrene	202		10.984					9
168 4,4'-DDE	246		11.036					9
29 3-Chloropropionitrile	54		11.148					
163 Aramite Peak 1	185		11.171					
164 Aramite Peak 2	185		11.242					
165 p-Dimethylamino azobenzene	225		11.353					9
167 4,4'-DDD	235		11.371					
166 Chlorobenzilate	139		11.389					
28 Ethyl methacrylate	69		11.477					
170 Butyl benzyl phthalate	149		11.583					9
172 4,4'-DDT	235		11.700					9
171 3,3'-Dimethylbenzidine	212		11.712					
173 2-Acetylaminofluorene	181		12.006					9
169 Famphur	218		12.223					9
177 3,3'-Dichlorobenzidine	252		12.229					9
175 Bis(2-ethylhexyl) phthalate	149	12.259	12.258	0.001	92	20075	0.2978	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
179 Benzo[a]anthracene	228		12.282					9
178 Hexabromobenzene	232	12.323	12.319	0.004	1	643	0	
180 Chrysene	228		12.329					9
176 4,4'-Methylene bis(2-chloroanili	231		12.382					9
181 6-Methylchrysene	242		13.104					
182 Di-n-octyl phthalate	149		13.175					
184 Benzo[b]fluoranthene	252		13.786					
185 Benzo[k]fluoranthene	252		13.827					
183 7,12-Dimethylbenz(a)anthracene	256		13.962					
186 Benzo[a]pyrene	252		14.286					9
187 3-Methylcholanthrene	268		15.037					9
188 Dibenz[a,j]acridine	279		15.657					
189 Dibenz[a,h]acridine	279		15.895					
190 Indeno[1,2,3-cd]pyrene	276		16.031					
191 Dibenz(a,h)anthracene	278		16.066					
192 Benzo[g,h,i]perylene	276		16.477					
S 193 Methyl Phenols,Total	100		0.000					7
S 194 Isosafrole	162		5.161					7
S 195 Diallate	86		6.289					7
S 196 Aramite, Total	185		7.806					7
T 197 Decane TIC	57		0.000					1
T 198 Hydroquinone TIC	110		0.000					1
T 238 Trimethyl phosphate TIC	110	4.579	4.000	0.579	0	1233	0	
T 200 Hexamethylphosphoramide TIC	135	7.206	7.200	0.006	1	8042	0	
T 248 2,3,7,8 TCDF TIC	322		8.600					1
T 202 Hexachlorophene TIC	198		8.600					1
T 201 Kepone TIC	272		8.600					1
T 19 2,3,7,8-TCDD	320	9.074	8.800	0.274	1	56	0	
T 199 Octadecane (TIC)	254	9.568	9.600	-0.032	1	64	0	
T 241 Triphenyl Phosphate TIC	326	12.030	12.250	-0.220	0	118	0	
T 240 Tricresyl phosphate TIC	368	12.288	12.750	-0.462	0	200	0	
T 237 Tris(2,3-dibromopropyl)phosphate	201	14.638	14.500	0.138	0	135	0	

QC Flag Legend

Processing Flags
1 - Missing Peaks
4 - Failed Signal Ratio Test
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

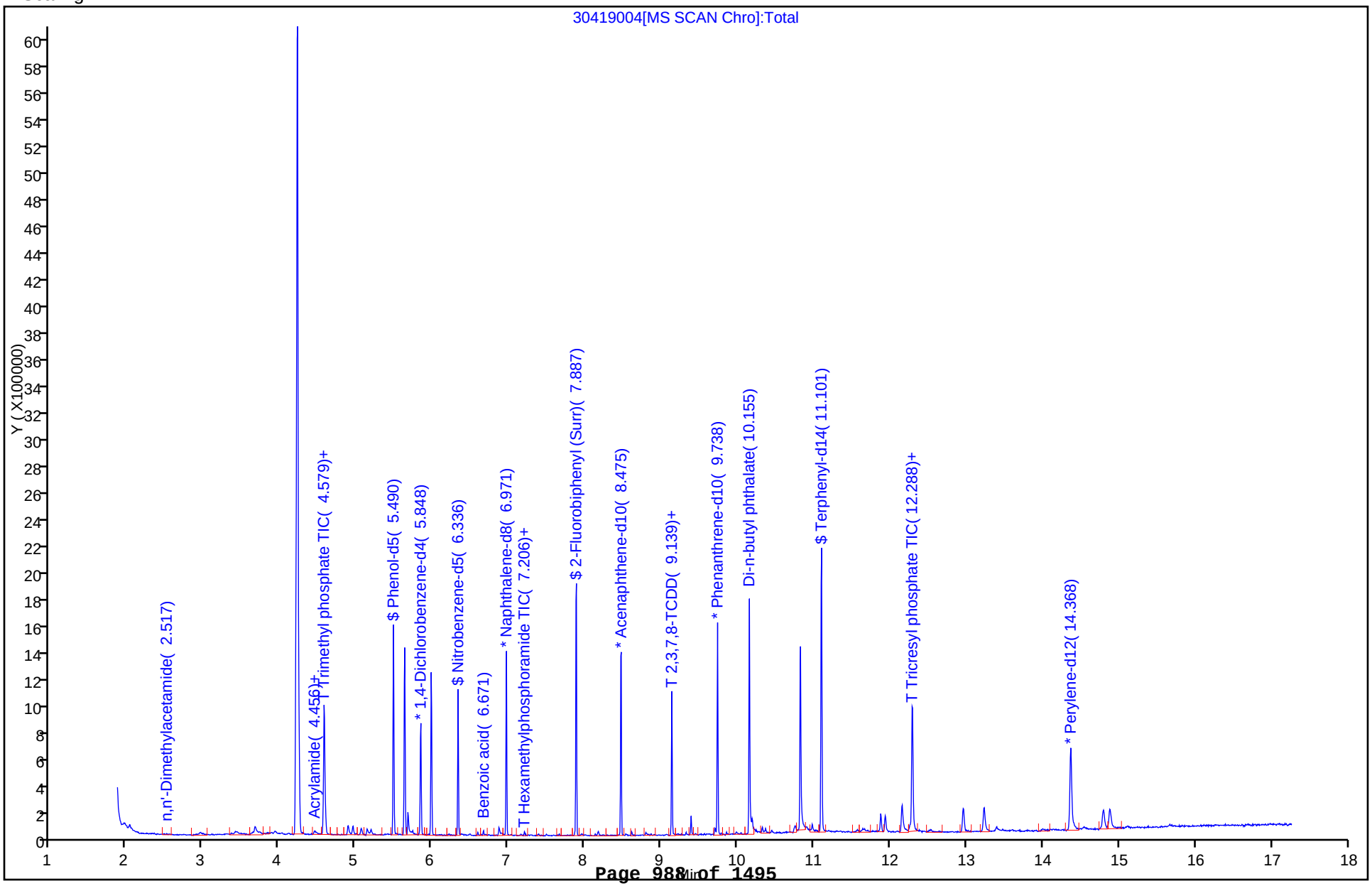
Report Date: 22-Apr-2013 13:55:09 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419004.D

Injection Date:	19-Apr-2013 11:30:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	4
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



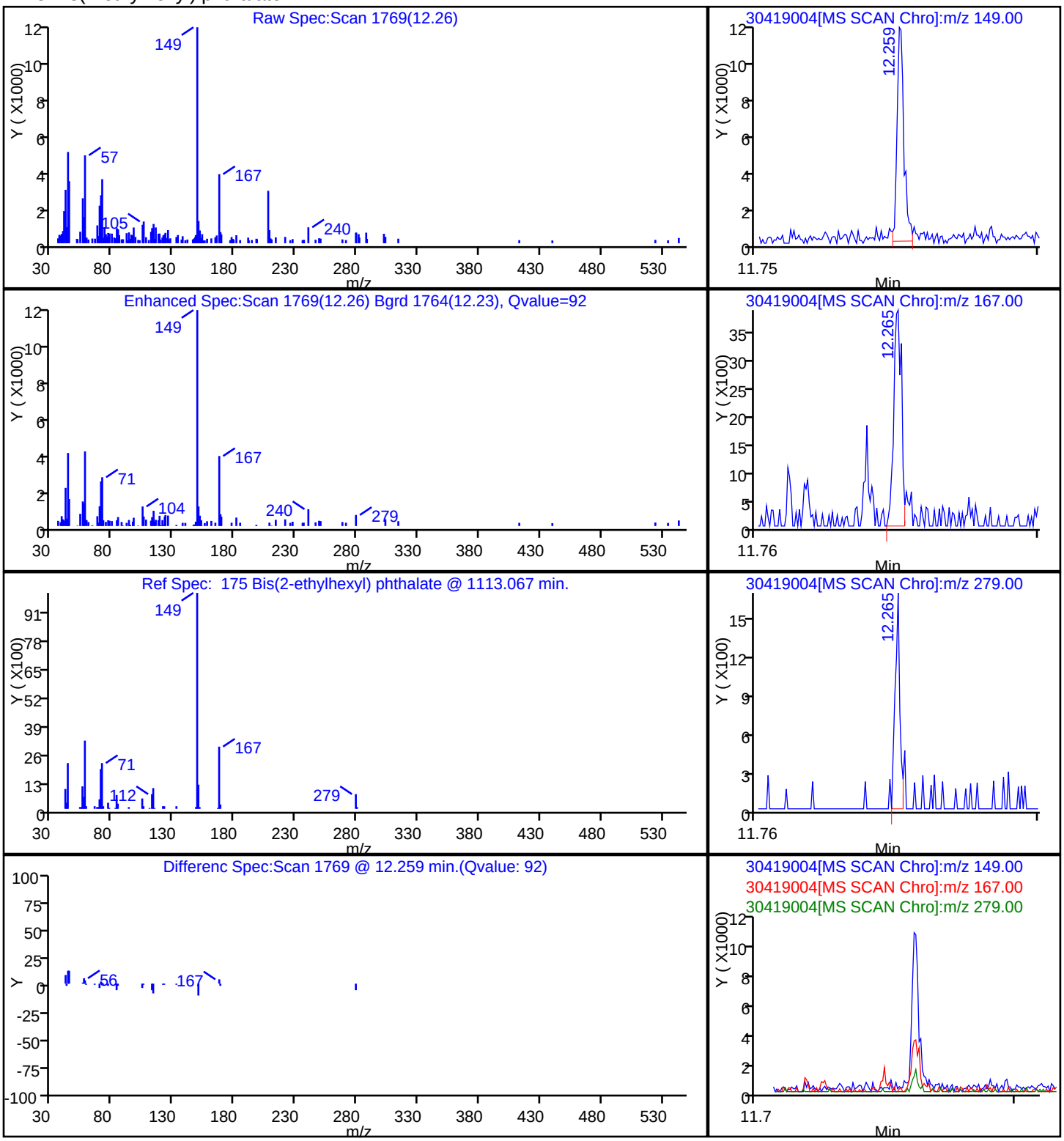
Report Date: 22-Apr-2013 13:55:09 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419004.D

Injection Date:	19-Apr-2013 11:30:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	4
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

175 Bis(2-ethylhexyl) phthalate



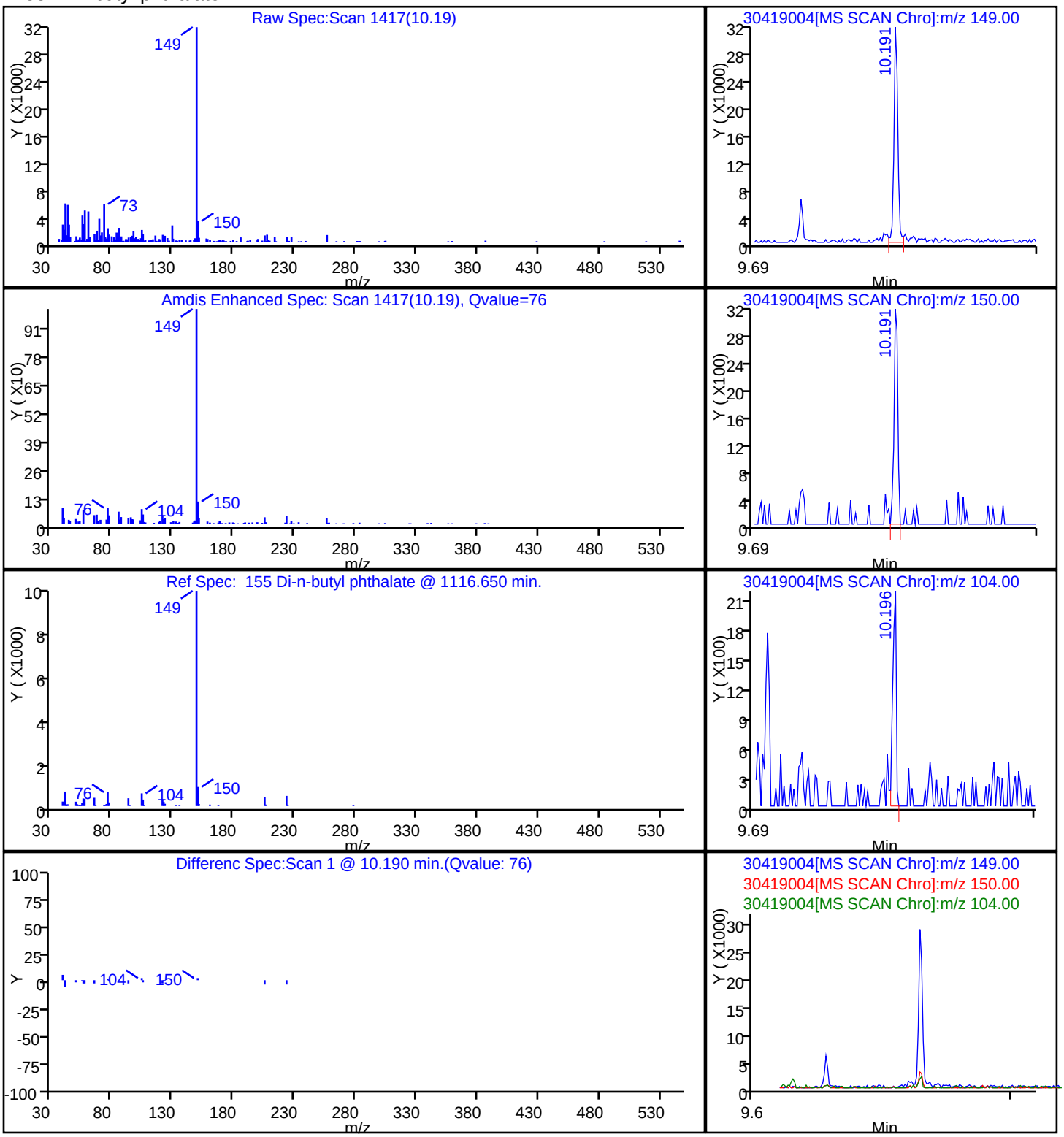
Report Date: 22-Apr-2013 13:55:09 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419004.D

Injection Date:	19-Apr-2013 11:30:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	4
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

155 Di-n-butyl phthalate



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-83163/15-A

Matrix: Solid | Lab File ID: 30425104.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/23/2013 10:03

Sample wt/vol: 30.00(g) | Date Analyzed: 04/25/2013 16:33

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 83588 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	3.3	U	6.7	3.3	3.3
208-96-8	Acenaphthylene	3.3	U	6.7	3.3	3.3
120-12-7	Anthracene	3.3	U	6.7	3.3	3.3
56-55-3	Benzo[a]anthracene	3.3	U	6.7	3.3	3.3
50-32-8	Benzo[a]pyrene	3.3	U	6.7	3.3	3.3
205-99-2	Benzo[b]fluoranthene	3.3	U	6.7	3.3	3.3
191-24-2	Benzo[g,h,i]perylene	3.3	U	6.7	3.3	3.3
65-85-0	Benzoic acid	330	U	660	330	330
207-08-9	Benzo[k]fluoranthene	3.3	U	6.7	3.3	3.3
100-51-6	Benzyl alcohol	27	U	330	27	21
111-91-1	Bis(2-chloroethoxy)methane	27	U	100	27	22
111-44-4	Bis(2-chloroethyl)ether	3.3	U	100	3.3	2.0
108-60-1	bis (2-chloroisopropyl) ether	27	U	100	27	9.5
117-81-7	Bis(2-ethylhexyl) phthalate	27	U	70	27	19
101-55-3	4-Bromophenyl phenyl ether	27	U	50	27	13
85-68-7	Butyl benzyl phthalate	27	U	70	27	10
86-74-8	Carbazole	27	U	50	27	27
106-47-8	4-Chloroaniline	27	U	150	27	17
59-50-7	4-Chloro-3-methylphenol	27	U	150	27	21
91-58-7	2-Chloronaphthalene	3.3	U	50	3.3	3.3
95-57-8	2-Chlorophenol	27	U	50	27	27
7005-72-3	4-Chlorophenyl phenyl ether	27	U	50	27	13
218-01-9	Chrysene	3.3	U	6.7	3.3	1.1
53-70-3	Dibenz(a,h)anthracene	3.3	U	6.7	3.3	3.3
132-64-9	Dibenzofuran	3.3	U	50	3.3	3.3
95-50-1	1,2-Dichlorobenzene	27	U	50	27	9.7
541-73-1	1,3-Dichlorobenzene	27	U	50	27	11
106-46-7	1,4-Dichlorobenzene	27	U	50	27	20
91-94-1	3,3'-Dichlorobenzidine	80	U	100	80	18
120-83-2	2,4-Dichlorophenol	27	U	150	27	20
84-66-2	Diethyl phthalate	27	U	70	27	16
105-67-9	2,4-Dimethylphenol	80	U	150	80	20
131-11-3	Dimethyl phthalate	27	U	70	27	17
84-74-2	Di-n-butyl phthalate	25.8	J	70	27	15

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-83163/15-A

Matrix: Solid | Lab File ID: 30425104.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/23/2013 10:03

Sample wt/vol: 30.00(g) | Date Analyzed: 04/25/2013 16:33

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 83588 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	80	U	150	80	80
51-28-5	2,4-Dinitrophenol	80	U	330	80	80
121-14-2	2,4-Dinitrotoluene	27	U	200	27	27
606-20-2	2,6-Dinitrotoluene	27	U	200	27	21
117-84-0	Di-n-octyl phthalate	27	U	70	27	27
206-44-0	Fluoranthene	3.3	U	6.7	3.3	3.3
86-73-7	Fluorene	3.3	U	6.7	3.3	3.3
118-74-1	Hexachlorobenzene	3.3	U	6.7	3.3	2.1
87-68-3	Hexachlorobutadiene	27	U	50	27	27
77-47-4	Hexachlorocyclopentadiene	27	U	330	27	27
67-72-1	Hexachloroethane	27	U	50	27	9.0
193-39-5	Indeno[1,2,3-cd]pyrene	3.3	U	6.7	3.3	3.3
78-59-1	Isophorone	27	U	50	27	13
91-57-6	2-Methylnaphthalene	3.3	U	6.7	3.3	3.3
95-48-7	2-Methylphenol	80	U	200	80	80
15831-10-4	3 & 4 Methylphenol	80	U	400	80	20
91-20-3	Naphthalene	3.3	U	6.7	3.3	3.3
88-74-4	2-Nitroaniline	27	U	200	27	9.1
99-09-2	3-Nitroaniline	80	U	200	80	16
100-01-6	4-Nitroaniline	27	U	200	27	26
98-95-3	Nitrobenzene	3.3	U	100	3.3	2.2
88-75-5	2-Nitrophenol	27	U	50	27	27
100-02-7	4-Nitrophenol	80	U	330	80	80
621-64-7	N-Nitrosodi-n-propylamine	27	U	50	27	27
86-30-6	N-Nitrosodiphenylamine	27	U	50	27	21
87-86-5	Pentachlorophenol	80	U	150	80	80
85-01-8	Phenanthrene	3.3	U	6.7	3.3	3.3
108-95-2	Phenol	27	U	50	27	27
129-00-0	Pyrene	3.3	U	6.7	3.3	3.3
120-82-1	1,2,4-Trichlorobenzene	27	U	50	27	27
95-95-4	2,4,5-Trichlorophenol	27	U	150	27	25
88-06-2	2,4,6-Trichlorophenol	80	U	150	80	80

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-83163/15-A

Matrix: Solid | Lab File ID: 30425104.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/23/2013 10:03

Sample wt/vol: 30.00(g) | Date Analyzed: 04/25/2013 16:33

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 83588 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	68		45-105
367-12-4	2-Fluorophenol (Surr)	74		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	66		35-100
4165-62-2	Phenol-d5 (Surr)	79		40-100
1718-51-0	Terphenyl-d14 (Surr)	64		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	68		35-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425104.D
Lims ID: MB 240-83163/15-A Client ID:
Inject. Date: 25-Apr-2013 16:33:30 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: 240-0019269-004
Misc. Info.: MB 240-83163/15-A =MB 240-83163/15-A
Operator: 001574 Instrument ID: A4HP9
Injection Vol: 1.0 ul ALS Bottle#: 4
Lims Batch ID: 83588 Lims Sample ID: 4
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\8270 _9.m
Last Update: 26-Apr-2013 09:38:09 Calib Date: 19-Apr-2013 14:12:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419110.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: 5% phenyl Column Dia: 0.18 mm
Process Host: XAWRK003

First Level Reviewer: ulmanm Date: 26-Apr-2013 09:23:36

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.684	6.686	-0.002	93	154735	4.00	
* 2 Naphthalene-d8	136	7.795	7.797	-0.002	99	668564	4.00	
* 3 Acenaphthene-d10	164	9.295	9.297	-0.002	86	361106	4.00	
* 4 Phenanthrene-d10	188	10.564	10.567	-0.003	97	640735	4.00	
* 5 Chrysene-d12	240	12.916	12.918	-0.002	79	760622	4.00	
* 6 Perylene-d12	264	14.916	14.923	-0.007	85	636947	4.00	
$ 7 2-Fluorophenol	112	5.482	5.460	0.022	94	699368	11.1	
$ 8 Phenol-d5	99	6.318	6.311	0.007	94	1003253	11.9	
$ 9 Nitrobenzene-d5	82	7.155	7.157	-0.002	85	650326	6.60	
$ 10 2-Fluorobiphenyl (Surr)	172	8.684	8.686	-0.002	99	728144	6.77	
$ 11 2,4,6-Tribromophenol	330	9.963	9.965	-0.002	87	118558	10.2	
$ 12 Terphenyl-d14	244	11.877	11.879	-0.002	98	873919	6.41	
248 2,3,7,8 TCDF TIC	1		0.000					
249 4-Chlorophenol TIC	1		0.000					
22 Bis(2-hydroxyphenyl)methane	1		0.000					
244 n-Octadecane	57		0.000					
16 2,3-Dichlorophenol	1		0.000					
13 Octachlorocyclopentene	1		0.000					
247 Hexadecane	57		0.000					
243 n-Decane	57		0.000					
19 Octachlorostyrene	1		0.000					
23 2,5-Dichlorophenol	1		0.000					
18 Bis(4-hydroxyphenyl)methane	1		0.000					
20 Dimethylformamide	73		1.920					
28 Ethyl methacrylate	69		1.926					
29 3-Chloropropionitrile	54		2.118					
31 2-Picoline	93		2.224					
32 N-Nitrosomethylethylamine	88		2.288					
33 Malononitrile	66		2.300					
30 3-Picoline	93		2.454					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
233 n,n'-Dimethylacetamide	44		2.465					
35 Acrylamide	71		2.475					
34 Methyl methanesulfonate	80		2.485					
36 N-Nitrosodiethylamine	102		2.763					
37 Ethyl methanesulfonate	79		2.961					
38 2-Methylcyclohexanone	68		3.047					
39 3-Methylcyclohexanone	69		3.079					
40 4-Methylcyclohexanone	55		3.117					
25 1,4-Dioxane	88		3.161					
45 Pentachloroethane	167		3.340					
232 1-Methyl-2-pyrrilidinone	99		3.555					
42 Phenylmercaptan	110		3.596					
26 N-Nitrosodimethylamine	74		3.738					
27 Pyridine	79		3.810					
56 N-Nitrosopyrrolidine	100		3.842					
59 N-Nitrosomorpholine	56		3.869					
60 2-Toluidine	106		3.885					
63 N-Nitrosopiperidine	114		4.120					
67 1,3,5-Trichlorobenzene	180		4.164					
68 o,o',o''-Triethylphosphorothioat	198		4.318					
24 Catechol	110		4.410					
72 alpha,alpha-Dimethyl phenethylam	58		4.414					9
80 1,2,3-Trichlorobenzene	180		4.602					
77 2,6-Dichlorophenol	162		4.628					
78 Hexachloropropene	213		4.654					
81 Benzothiazole	135		4.698					
15 3-Methylcatechol	124		4.794					
82 Quinoline	129		4.857					9
83 N-Nitrosodi-n-butylamine	84		4.884					9
85 p-Phenylene diamine	108		4.905					
14 4-Methylcatechol	124		5.036					
94 Safrole, Total	162		5.066					
90 1,2,3,5-Tetrachlorobenzene	216		5.179					
225 Isosafrole Peak 1	162		5.306					
97 2,4-Toluene diamine	121		5.419					
99 1,2,3,4 -Tetrachlorobenzene	216		5.425					9
96 3,4-Dichloronitrobenzene	109		5.467					9
227 Isosafrole Peak 2	162		5.498					9
101 Phenyl ether	170		5.521					
246 1-Chloronaphthalene	162		5.578					
103 1,4-Naphthoquinone	158		5.701					
104 1,4-Dinitrobenzene	168		5.744					
108 1,2-Dinitrobenzene	168		5.777					
115 Pentachlorobenzene	250		6.161					
118 2,3,5,6-Tetrachlorophenol	232		6.257					
117 1-Naphthylamine	143		6.257					
41 Benzaldehyde	77		6.292					9
120 2-Naphthylamine	143		6.321					
43 Phenol	94		6.325					9
44 Aniline	93		6.383					9
69 Bis(2-chloroethyl)ether	93		6.412					9
122 Thionazin	97		6.433					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
127 Tributyl phosphate	99		6.434					9
124 N-Nitro-o-toluidine	152		6.481					9
46 2-Chlorophenol	128		6.503					
130 Diphenylamine	169		6.567					
47 1,3-Dichlorobenzene	146		6.643					
134 Sulfotepp	202		6.684					
48 1,4-Dichlorobenzene	146		6.700					
135 1,3,5-Trinitrobenzene	213		6.775					
49 Benzyl alcohol	108		6.777					9
228 Diallate Peak 1	86		6.807					
138 Phorate	121		6.812					
137 Phenacetin	108		6.818					9
50 1,2-Dichlorobenzene	146		6.840					
51 2-Methylphenol	108		6.859					9
230 Diallate Peak 2	86		6.882					
53 2,2'-oxybis[1-chloropropane]	45		6.888					
52 Indene	115		6.917					9
140 Dimethoate	87		6.962					
21 3 & 4 Methylphenol	108		6.984					
57 N-Nitrosodi-n-propylamine	70		6.998					9
58 Acetophenone	105		7.013					
129 4-Aminobiphenyl	169		7.101					
145 Pentachloronitrobenzene	237		7.112					
144 Pronamide	173		7.138					
61 Hexachloroethane	117		7.147					
62 Nitrobenzene	77		7.172					
147 Dinoseb	211		7.245					
146 Disulfoton	88		7.250					
64 Isophorone	82		7.369					
65 2,4-Dimethylphenol	107		7.446					
66 2-Nitrophenol	139		7.450					
71 Benzoic acid	122		7.489					9
70 Bis(2-chloroethoxy)methane	93		7.523					9
152 Methyl parathion	109		7.566					
153 Diphenylsulfone	125		7.631					
73 2,4-Dichlorophenol	162		7.652					
74 1,2,4-Trichlorobenzene	180		7.734					
75 Naphthalene	128		7.811					9
76 4-Chloroaniline	127		7.826					
155 Ethyl Parathion	97		7.892					
79 Hexachlorobutadiene	225		7.907					
156 4-Nitroquinoline-1-oxide	190		7.934					
157 Methapyrilene	58		7.982					9
84 Caprolactam	113		8.100					9
158 Isodrin	66		8.164					
86 4-Chloro-3-methylphenol	107		8.210					
87 2-Methylnaphthalene	142		8.398					
88 1-Methylnaphthalene	142		8.484					
89 Hexachlorocyclopentadiene	237		8.537					
91 1,2,4,5-Tetrachlorobenzene	216		8.542					
226 Aramite Peak 1	185		8.565					9
92 2,4,6-Trichlorophenol	196		8.624					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
229 Aramite Peak 2	185		8.629					9
93 2,4,5-Trichlorophenol	196		8.657					
163 p-Dimethylamino azobenzene	225		8.714					
164 Chlorobenzilate	139		8.746					
98 1,1'-Biphenyl	154		8.778					
100 2-Chloronaphthalene	162		8.816					9
102 2-Nitroaniline	65		8.874					9
167 Famphur	218		8.949					
169 3,3'-Dimethylbenzidine	212		8.992					
105 Dimethyl phthalate	163		8.994					9
106 1,3-Dinitrobenzene	168		9.037					
107 2,6-Dinitrotoluene	165		9.057					
109 Acenaphthylene	152		9.177					
171 2-Acetylaminofluorene	181		9.211					
110 3-Nitroaniline	138		9.215					
111 2,4-Dinitrophenol	184		9.302					
172 3,3'-Dimethoxybenzidine	244		9.314					
113 4-Nitrophenol	109		9.316					9
112 Acenaphthene	153		9.326					
176 Hexabromobenzene	232		9.394					
114 2,4-Dinitrotoluene	165		9.408					
174 4,4'-Methylene bis(2-chloroanili	231		9.446					
116 Dibenzofuran	168		9.465					
119 2,3,4,6-Tetrachlorophenol	232		9.557					
121 Diethyl phthalate	149		9.586					9
123 4-Chlorophenyl phenyl ether	204		9.725					
125 4-Nitroaniline	138		9.735					
126 Fluorene	166		9.759					
128 4,6-Dinitro-2-methylphenol	198		9.763					
131 N-Nitrosodiphenylamine	169		9.816					
133 Azobenzene	77		9.860					
132 1,2-Diphenylhydrazine	77		9.860					
179 6-Methylchrysene	242		9.890					
139 4-Bromophenyl phenyl ether	248		10.148					
142 Atrazine	200		10.230					
141 Hexachlorobenzene	284		10.244					
143 Pentachlorophenol	266		10.393					9
181 7,12-Dimethylbenz(a)anthracene	256		10.418					
148 Phenanthrene	178		10.586					9
149 Anthracene	178		10.629					9
151 Carbazole	167		10.740					
154 Di-n-butyl phthalate	149	10.959	10.956	0.003	90	13192	0.3875	
185 3-Methylcholanthrene	268		11.188					
159 Fluoranthene	202		11.605					9
160 Benzidine	184		11.663					9
186 Dibenz[a,j]acridine	279		11.740					
161 Pyrene	202		11.807					9
166 4,4'-DDE	246		11.829					9
187 Dibenz[a,h]acridine	279		11.909					
165 4,4'-DDD	235		12.109					9
168 Butyl benzyl phthalate	149		12.245					9
170 4,4'-DDT	235		12.384					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
173 Bis(2-ethylhexyl) phthalate	149	12.752	12.759	-0.007	88	13968	0.1363	
175 3,3'-Dichlorobenzidine	252		12.822					
177 Benzo[a]anthracene	228		12.904					9
178 Chrysene	228		12.947					9
180 Di-n-octyl phthalate	149		13.485					9
182 Benzo[b]fluoranthene	252		14.289					9
183 Benzo[k]fluoranthene	252		14.327					9
184 Benzo[a]pyrene	252		14.832					9
188 Indeno[1,2,3-cd]pyrene	276		17.145					
189 Dibenz(a,h)anthracene	278		17.155					
190 Benzo[g,h,i]perylene	276		17.842					
S 191 Methyl Phenols,Total	100		0.000					7
S 245 Total Cresols	100		0.000					
S 95 Isosafrole	162		5.568					7
S 136 Diallate	86		6.701					7
S 162 Aramite, Total	185		8.271					7
T 195 Hydroquinone TIC	110		0.000					1
T 240 Trimethyl phosphate TIC	110		3.120					1
T 193 Hexamethylphosphoramide TIC	135		5.100					
T 194 Decane TIC	142		5.800					
T 234 2-Isopropylphenol TIC	121		7.750					
T 236 3-isopropylphenol TIC	121		7.900					
T 235 4-isopropylphenol TIC	121		7.900					
T 237 3-(1,1-Dimethylethyl Phenol) TIC	135		8.300					
T 242 Triphenyl Phosphate TIC	326		8.700					1
T 241 Tricresyl phosphate TIC	368		9.372					1
T 192 Octadecane (TIC)	254		9.600					
T 196 Kepone TIC	272		10.100					1
T 239 Tris(2,3-dibromopropyl)phosphate	201		10.600					
T 197 Hexachlorophene TIC	198		13.000					
T 231 2,3,7,8-TCDD	322		13.100					

QC Flag Legend

Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

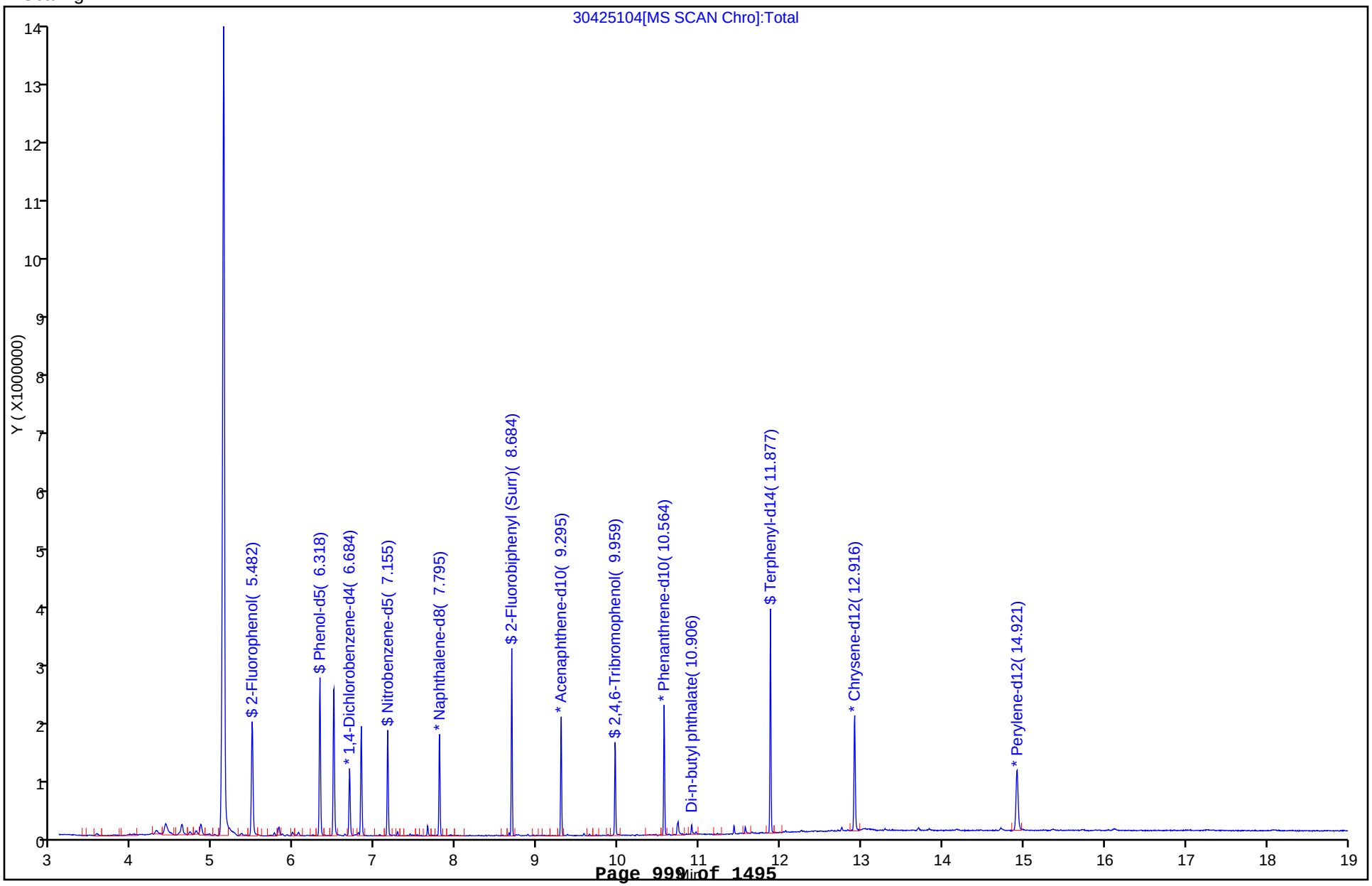
Report Date: 26-Apr-2013 09:38:12 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425104.D

Injection Date:	25-Apr-2013 16:33:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	83588	Lims Sample ID:	4
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



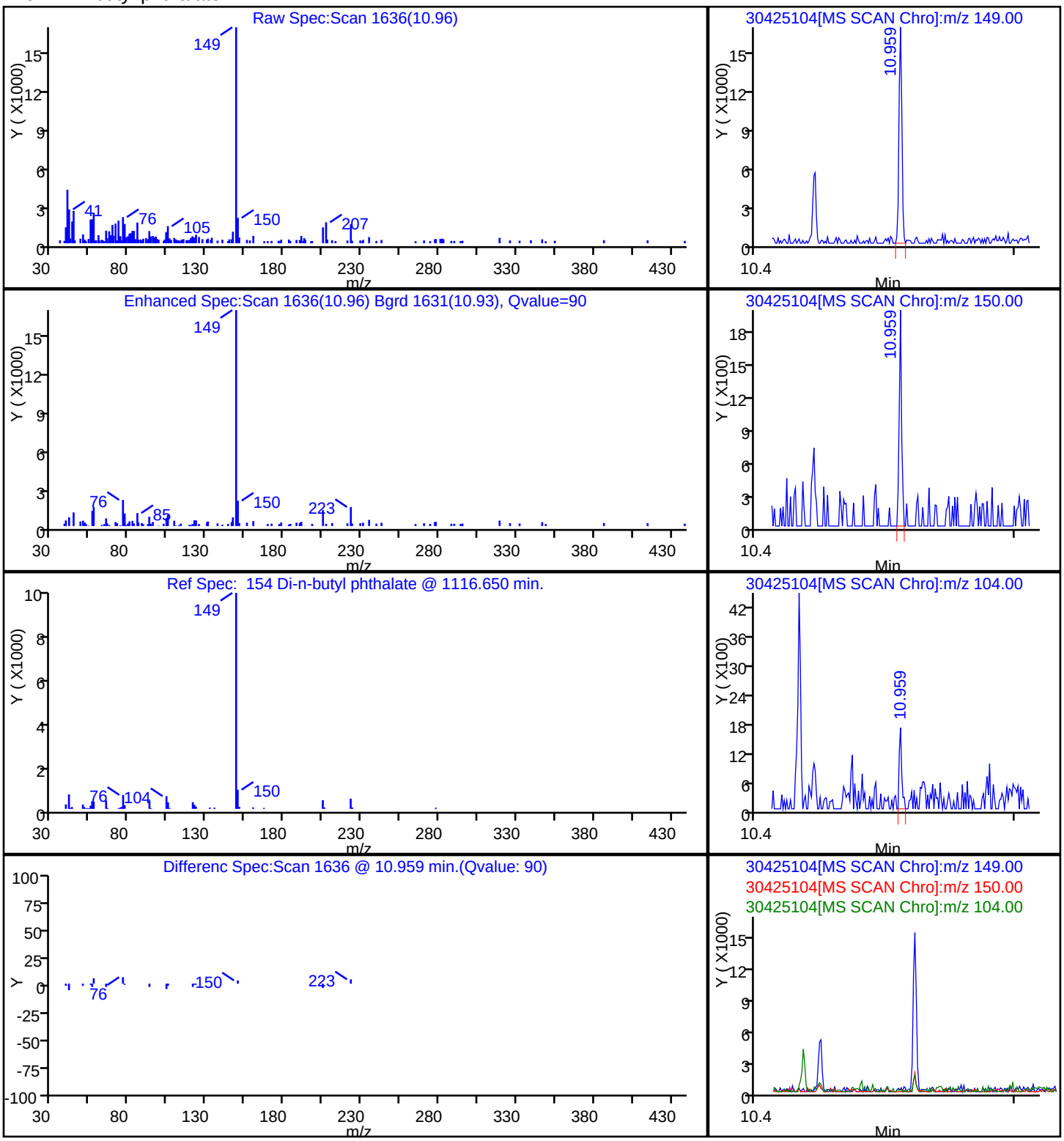
Report Date: 26-Apr-2013 09:38:12 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425104.D

Injection Date:	25-Apr-2013 16:33:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	83588	Lims Sample ID:	4
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

154 Di-n-butyl phthalate



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-81947/24-A

Matrix: Solid | Lab File ID: 30419005.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.00(g) | Date Analyzed: 04/19/2013 11:54

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	513		6.7	3.3	3.3
208-96-8	Acenaphthylene	557		6.7	3.3	3.3
120-12-7	Anthracene	642		6.7	3.3	3.3
56-55-3	Benzo[a]anthracene	578		6.7	3.3	3.3
50-32-8	Benzo[a]pyrene	580		6.7	3.3	3.3
205-99-2	Benzo[b]fluoranthene	561		6.7	3.3	3.3
191-24-2	Benzo[g,h,i]perylene	650		6.7	3.3	3.3
65-85-0	Benzoic acid	330	U	660	330	330
207-08-9	Benzo[k]fluoranthene	644		6.7	3.3	3.3
100-51-6	Benzyl alcohol	480		330	27	21
111-91-1	Bis(2-chloroethoxy)methane	566		100	27	22
111-44-4	Bis(2-chloroethyl)ether	536		100	3.3	2.0
108-60-1	bis (2-chloroisopropyl) ether	456		100	27	9.5
117-81-7	Bis(2-ethylhexyl) phthalate	751		70	27	19
101-55-3	4-Bromophenyl phenyl ether	625		50	27	13
85-68-7	Butyl benzyl phthalate	715		70	27	10
86-74-8	Carbazole	617		50	27	27
106-47-8	4-Chloroaniline	406		150	27	17
59-50-7	4-Chloro-3-methylphenol	569		150	27	21
91-58-7	2-Chloronaphthalene	561		50	3.3	3.3
95-57-8	2-Chlorophenol	556		50	27	27
7005-72-3	4-Chlorophenyl phenyl ether	517		50	27	13
218-01-9	Chrysene	634		6.7	3.3	1.1
53-70-3	Dibenz(a,h)anthracene	601		6.7	3.3	3.3
132-64-9	Dibenzofuran	564		50	3.3	3.3
95-50-1	1,2-Dichlorobenzene	513		50	27	9.7
541-73-1	1,3-Dichlorobenzene	515		50	27	11
106-46-7	1,4-Dichlorobenzene	534		50	27	20
91-94-1	3,3'-Dichlorobenzidine	270		100	80	18
120-83-2	2,4-Dichlorophenol	565		150	27	20
84-66-2	Diethyl phthalate	579		70	27	16
105-67-9	2,4-Dimethylphenol	438		150	80	20
131-11-3	Dimethyl phthalate	611		70	27	17
84-74-2	Di-n-butyl phthalate	711		70	27	15

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-81947/24-A

Matrix: Solid | Lab File ID: 30419005.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.00(g) | Date Analyzed: 04/19/2013 11:54

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	563		150	80	80
51-28-5	2,4-Dinitrophenol	508		330	80	80
121-14-2	2,4-Dinitrotoluene	568		200	27	27
606-20-2	2,6-Dinitrotoluene	621		200	27	21
117-84-0	Di-n-octyl phthalate	668		70	27	27
206-44-0	Fluoranthene	622		6.7	3.3	3.3
86-73-7	Fluorene	580		6.7	3.3	3.3
118-74-1	Hexachlorobenzene	618		6.7	3.3	2.1
87-68-3	Hexachlorobutadiene	462		50	27	27
77-47-4	Hexachlorocyclopentadiene	381		330	27	27
67-72-1	Hexachloroethane	494		50	27	9.0
193-39-5	Indeno[1,2,3-cd]pyrene	602		6.7	3.3	3.3
78-59-1	Isophorone	539		50	27	13
91-57-6	2-Methylnaphthalene	523		6.7	3.3	3.3
95-48-7	2-Methylphenol	526		200	80	80
15831-10-4	3 & 4 Methylphenol	1110		400	80	20
91-20-3	Naphthalene	528		6.7	3.3	3.3
88-74-4	2-Nitroaniline	589		200	27	9.1
99-09-2	3-Nitroaniline	498		200	80	16
100-01-6	4-Nitroaniline	615		200	27	26
98-95-3	Nitrobenzene	527		100	3.3	2.2
88-75-5	2-Nitrophenol	559		50	27	27
100-02-7	4-Nitrophenol	582		330	80	80
621-64-7	N-Nitrosodi-n-propylamine	511		50	27	27
86-30-6	N-Nitrosodiphenylamine	654		50	27	21
87-86-5	Pentachlorophenol	505		150	80	80
85-01-8	Phenanthrene	639		6.7	3.3	3.3
108-95-2	Phenol	557		50	27	27
129-00-0	Pyrene	621		6.7	3.3	3.3
120-82-1	1,2,4-Trichlorobenzene	511		50	27	27
95-95-4	2,4,5-Trichlorophenol	588		150	27	25
88-06-2	2,4,6-Trichlorophenol	565		150	80	80

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-81947/24-A

Matrix: Solid | Lab File ID: 30419005.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.00(g) | Date Analyzed: 04/19/2013 11:54

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	72		45-105
367-12-4	2-Fluorophenol (Surr)	80		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	71		35-100
4165-62-2	Phenol-d5 (Surr)	79		40-100
1718-51-0	Terphenyl-d14 (Surr)	65		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	73		35-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419005.D
Lims ID: LCS 240-81947/24-A Client ID:
Inject. Date: 19-Apr-2013 11:54:30 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0019044-005
Misc. Info.: LCS 240-81947/24-A
Operator: 001710 Instrument ID: A4HP10
Injection Vol: 1.0 ul ALS Bottle#: 5
Lims Batch ID: 82653 Lims Sample ID: 5
Detector: MS SCAN

Method: \\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m
Last Update: 22-Apr-2013 13:55:06 Calib Date: 12-Apr-2013 00:58:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: 5% phenyl Column Dia: 0.18 mm
Process Host: XAWRK022

First Level Reviewer: gruberj Date: 19-Apr-2013 12:35:39

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.848	5.848	0.0	99	122388	4.00	
* 2 Naphthalene-d8	136	6.971	6.970	0.001	99	469260	4.00	
* 3 Acenaphthene-d10	164	8.475	8.475	0.0	93	276167	4.00	
* 4 Phenanthrene-d10	188	9.738	9.738	0.0	97	460361	4.00	
* 5 Chrysene-d12	240	12.294	12.294	0.0	84	504329	4.00	
* 6 Perylene-d12	264	14.368	14.368	0.0	85	380327	4.00	
$ 7 2-Fluorophenol	112	4.585	4.573	0.012	92	426863	12.1	
$ 8 Phenol-d5	99	5.490	5.490	0.0	99	560745	11.9	
$ 9 Nitrobenzene-d5	82	6.336	6.336	0.0	89	311465	7.10	
$ 10 2-Fluorobiphenyl (Surr)	172	7.887	7.887	0.0	99	643192	7.22	
$ 11 2,4,6-Tribromophenol	330	9.139	9.144	-0.005	88	110755	11.0	
$ 12 Terphenyl-d14	244	11.101	11.101	0.0	98	645414	6.50	
25 1,4-Dioxane	88	2.288	2.305	-0.017	93	72819	4.22	M
26 N-Nitrosodimethylamine	74	2.740	2.746	-0.006	89	151259	7.41	M
27 Pyridine	79	2.787	2.799	-0.012	95	248513	6.57	M
30 2-Picoline	93	3.898	4.091	-0.193	95	282541	6.75	
37 Ethyl methanesulfonate	79	5.120	5.237	-0.117	96	226951	7.39	
41 Benzaldehyde	77	5.443	5.449	-0.006	91	238306	7.16	
43 Phenol	94	5.502	5.502	0.0	99	387688	8.35	
44 Aniline	93	5.543	5.543	0.0	97	271626	4.75	
108 1,2-Dinitrobenzene	168		5.550					
45 Bis(2-chloroethyl)ether	93	5.596	5.601	-0.005	96	288980	8.04	
47 2-Chlorophenol	128	5.655	5.648	0.007	91	312352	8.34	
48 1,3-Dichlorobenzene	146	5.796	5.795	0.001	97	312698	7.73	
49 1,4-Dichlorobenzene	146	5.860	5.866	-0.006	93	330546	8.01	
50 Benzyl alcohol	108	5.960	5.960	0.0	88	171089	7.20	
51 1,2-Dichlorobenzene	146	6.001	6.001	0.0	95	303106	7.70	
52 2-Methylphenol	108	6.054	6.054	0.0	97	266473	7.88	
54 2,2'-oxybis[1-chloropropane]	45	6.084	6.083	0.001	91	375485	6.84	
56 3 & 4 Methylphenol	108	6.183	6.183	0.0	94	588290	16.7	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
57 N-Nitrosodi-n-propylamine	70	6.195	6.195	0.0	90	193354	7.67	
58 Acetophenone	105	6.201	6.201	0.0	93	413595	7.88	
61 Hexachloroethane	117	6.301	6.307	-0.006	96	118136	7.40	
62 Nitrobenzene	77	6.354	6.354	0.0	84	315347	7.90	
64 Isophorone	82	6.559	6.559	0.0	97	579082	8.09	
66 2-Nitrophenol	139	6.630	6.636	-0.006	96	159753	8.39	
65 2,4-Dimethylphenol	107	6.653	6.653	0.0	92	240012	6.57	
70 Benzoic acid	122	6.683	6.712	-0.029	83	71470	4.19	
69 Bis(2-chloroethoxy)methane	93	6.736	6.741	-0.005	99	358107	8.49	
72 2,4-Dichlorophenol	162	6.836	6.835	0.001	95	254722	8.48	
73 1,2,4-Trichlorobenzene	180	6.918	6.918	0.0	94	269771	7.67	
74 Naphthalene	128	6.988	6.988	0.0	97	862104	7.92	
75 4-Chloroaniline	127	7.024	7.023	0.001	84	276607	6.10	
78 Hexachlorobutadiene	225	7.088	7.088	0.0	96	149283	6.94	
83 Caprolactam	113	7.300	7.317	-0.017	77	100259	9.74	
81 Quinoline	129	7.270	7.364	-0.094	96	596079	8.25	
85 4-Chloro-3-methylphenol	107	7.423	7.423	0.0	93	273880	8.53	
87 2-Methylnaphthalene	142	7.582	7.582	0.0	90	575024	7.85	
86 Safrole, Total	162	7.494	7.587	-0.093	88	234013	7.88	
88 1-Methylnaphthalene	142	7.664	7.670	-0.006	83	532699	7.76	
89 Hexachlorocyclopentadiene	237	7.711	7.711	0.0	97	125177	5.71	
93 2,4,6-Trichlorophenol	196	7.811	7.811	0.0	92	193034	8.47	
94 2,4,5-Trichlorophenol	196	7.840	7.846	-0.006	95	208343	8.82	
98 1,1'-Biphenyl	154	7.975	7.975	0.0	95	711722	7.97	
100 2-Chloronaphthalene	162	7.999	7.999	0.0	96	571328	8.41	
102 2-Nitroaniline	65	8.069	8.075	-0.006	80	184475	8.83	
105 Dimethyl phthalate	163	8.216	8.216	0.0	98	707109	9.16	
106 1,3-Dinitrobenzene	168	8.246	8.251	-0.005	84	110998	8.78	
107 2,6-Dinitrotoluene	165	8.275	8.275	0.0	88	157199	9.32	
104 1,4-Dinitrobenzene	168	8.187	8.280	-0.093	90	93262	7.51	
109 Acenaphthylene	152	8.357	8.357	0.0	90	904332	8.36	
110 3-Nitroaniline	138	8.416	8.422	-0.006	93	150670	7.46	
112 Acenaphthene	153	8.498	8.504	-0.006	95	578217	7.69	
111 2,4-Dinitrophenol	184	8.504	8.510	-0.006	67	79129	7.62	
113 4-Nitrophenol	109	8.534	8.539	-0.005	93	97207	8.74	
114 2,4-Dinitrotoluene	165	8.616	8.616	0.0	90	211549	8.52	
116 Dibenzofuran	168	8.645	8.645	0.0	84	856931	8.46	
119 2,3,4,6-Tetrachlorophenol	232	8.739	8.739	0.0	73	150830	7.31	
117 2,3,5,6-Tetrachlorophenol	232	8.739	8.798	-0.059	91	150830	6.51	
121 Diethyl phthalate	149	8.810	8.815	-0.005	97	692395	8.68	
123 4-Chlorophenyl phenyl ether	204	8.927	8.927	0.0	91	336233	7.75	
126 Fluorene	166	8.939	8.939	0.0	83	717130	8.70	
125 4-Nitroaniline	138	8.933	8.939	-0.006	80	174355	9.23	
128 4,6-Dinitro-2-methylphenol	198	8.963	8.962	0.001	72	123972	8.45	
129 N-Nitrosodiphenylamine	169	9.021	9.027	-0.006	87	533403	9.80	
132 Azobenzene	77	9.062	9.062	0.0	99	748603	10.2	
131 1,2-Diphenylhydrazine	77	9.062	9.062	0.0	95	748076	10.2	
139 4-Bromophenyl phenyl ether	248	9.344	9.344	0.0	66	192560	9.38	
136 Phenacetin	108	9.262	9.362	-0.100	92	365169	10.4	
137 Phorate	121	9.268	9.367	-0.099	93	127289	9.53	
141 Hexachlorobenzene	284	9.403	9.403	0.0	89	193054	9.28	
142 Atrazine	200	9.456	9.462	-0.006	92	202429	9.81	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
144 Pentachlorophenol	266	9.562	9.567	-0.005	84	108544	7.58	
145 Pronamide	173	9.591	9.691	-0.100	85	278360	8.85	
149 Phenanthrene	178	9.756	9.761	-0.005	97	1022728	9.58	
150 Anthracene	178	9.803	9.803	0.001	98	1022064	9.63	
152 Carbazole	167	9.926	9.932	-0.006	83	905776	9.26	
155 Di-n-butyl phthalate	149	10.191	10.196	-0.005	100	1275695	10.7	
160 Fluoranthene	202	10.772	10.772	0.0	98	1175077	9.33	
162 Pyrene	202	10.978	10.984	-0.006	95	1213510	9.32	
166 Chlorobenzilate	139	11.272	11.389	-0.117	90	346734	9.49	
170 Butyl benzyl phthalate	149	11.583	11.583	0.0	98	532432	10.7	
177 3,3'-Dichlorobenzidine	252	12.229	12.229	0.0	72	166491	4.05	
175 Bis(2-ethylhexyl) phthalate	149	12.259	12.258	0.001	96	786544	11.3	
179 Benzo[a]anthracene	228	12.276	12.282	-0.006	96	1088293	8.67	
180 Chrysene	228	12.323	12.329	-0.006	93	1095967	9.52	
182 Di-n-octyl phthalate	149	13.175	13.175	0.0	99	1181275	10.0	
184 Benzo[b]fluoranthene	252	13.786	13.786	0.0	85	859550	8.42	
185 Benzo[k]fluoranthene	252	13.828	13.827	0.001	89	1072244	9.66	
186 Benzo[a]pyrene	252	14.286	14.286	0.0	76	824754	8.70	
190 Indeno[1,2,3-cd]pyrene	276	16.031	16.031	0.0	93	938845	9.03	
191 Dibenz(a,h)anthracene	278	16.060	16.066	-0.006	73	781210	9.01	
192 Benzo[g,h,i]perylene	276	16.472	16.477	-0.005	91	864936	9.75	

QC Flag Legend

Review Flags
M - Manually Integrated

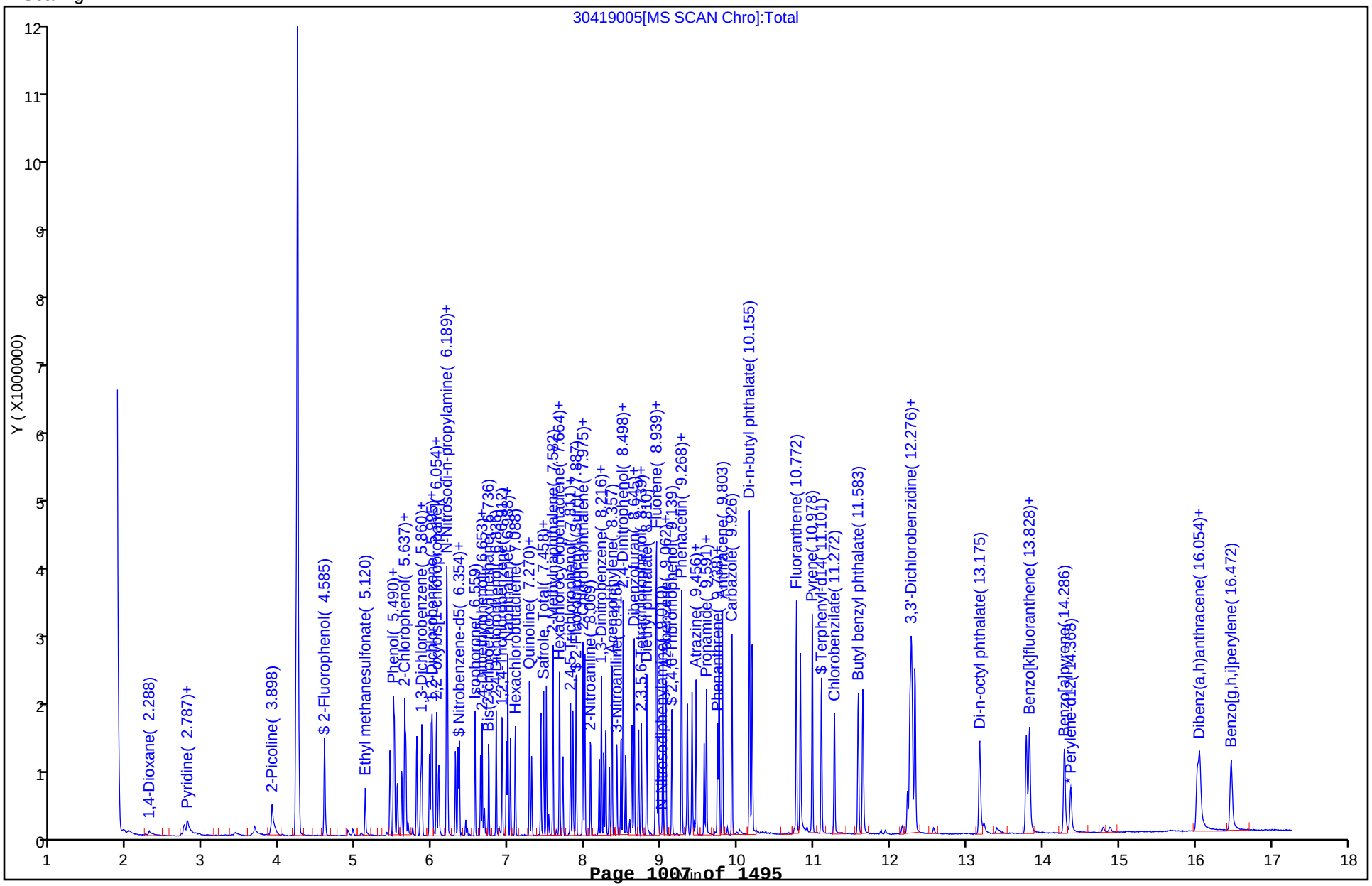
Report Date: 22-Apr-2013 13:55:11 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419005.D

Injection Date:	19-Apr-2013 11:54:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	5
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-83163/16-A

Matrix: Solid | Lab File ID: 30425105.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/23/2013 10:03

Sample wt/vol: 30.00(g) | Date Analyzed: 04/25/2013 17:00

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 83588 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	499		6.7	3.3	3.3
208-96-8	Acenaphthylene	519		6.7	3.3	3.3
120-12-7	Anthracene	547		6.7	3.3	3.3
56-55-3	Benzo[a]anthracene	549		6.7	3.3	3.3
50-32-8	Benzo[a]pyrene	502		6.7	3.3	3.3
205-99-2	Benzo[b]fluoranthene	536		6.7	3.3	3.3
191-24-2	Benzo[g,h,i]perylene	598		6.7	3.3	3.3
65-85-0	Benzoic acid	330	U M	660	330	330
207-08-9	Benzo[k]fluoranthene	531		6.7	3.3	3.3
100-51-6	Benzyl alcohol	512		330	27	21
111-91-1	Bis(2-chloroethoxy)methane	509		100	27	22
111-44-4	Bis(2-chloroethyl)ether	502		100	3.3	2.0
108-60-1	bis (2-chloroisopropyl) ether	508		100	27	9.5
117-81-7	Bis(2-ethylhexyl) phthalate	632		70	27	19
101-55-3	4-Bromophenyl phenyl ether	514		50	27	13
85-68-7	Butyl benzyl phthalate	614		70	27	10
86-74-8	Carbazole	527		50	27	27
106-47-8	4-Chloroaniline	394		150	27	17
59-50-7	4-Chloro-3-methylphenol	511		150	27	21
91-58-7	2-Chloronaphthalene	511		50	3.3	3.3
95-57-8	2-Chlorophenol	522		50	27	27
7005-72-3	4-Chlorophenyl phenyl ether	519		50	27	13
218-01-9	Chrysene	571		6.7	3.3	1.1
53-70-3	Dibenz(a,h)anthracene	597		6.7	3.3	3.3
132-64-9	Dibenzofuran	497		50	3.3	3.3
95-50-1	1,2-Dichlorobenzene	488		50	27	9.7
541-73-1	1,3-Dichlorobenzene	485		50	27	11
106-46-7	1,4-Dichlorobenzene	490		50	27	20
91-94-1	3,3'-Dichlorobenzidine	347		100	80	18
120-83-2	2,4-Dichlorophenol	513		150	27	20
84-66-2	Diethyl phthalate	603		70	27	16
105-67-9	2,4-Dimethylphenol	442		150	80	20
131-11-3	Dimethyl phthalate	561		70	27	17
84-74-2	Di-n-butyl phthalate	548		70	27	15

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-83163/16-A

Matrix: Solid | Lab File ID: 30425105.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/23/2013 10:03

Sample wt/vol: 30.00(g) | Date Analyzed: 04/25/2013 17:00

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 83588 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	449		150	80	80
51-28-5	2,4-Dinitrophenol	405		330	80	80
121-14-2	2,4-Dinitrotoluene	631		200	27	27
606-20-2	2,6-Dinitrotoluene	584		200	27	21
117-84-0	Di-n-octyl phthalate	512		70	27	27
206-44-0	Fluoranthene	541		6.7	3.3	3.3
86-73-7	Fluorene	523		6.7	3.3	3.3
118-74-1	Hexachlorobenzene	480		6.7	3.3	2.1
87-68-3	Hexachlorobutadiene	435		50	27	27
77-47-4	Hexachlorocyclopentadiene	404		330	27	27
67-72-1	Hexachloroethane	470		50	27	9.0
193-39-5	Indeno[1,2,3-cd]pyrene	575		6.7	3.3	3.3
78-59-1	Isophorone	497		50	27	13
91-57-6	2-Methylnaphthalene	455		6.7	3.3	3.3
95-48-7	2-Methylphenol	516		200	80	80
15831-10-4	3 & 4 Methylphenol	1090		400	80	20
91-20-3	Naphthalene	475		6.7	3.3	3.3
88-74-4	2-Nitroaniline	601		200	27	9.1
99-09-2	3-Nitroaniline	555		200	80	16
100-01-6	4-Nitroaniline	535		200	27	26
98-95-3	Nitrobenzene	502		100	3.3	2.2
88-75-5	2-Nitrophenol	515		50	27	27
100-02-7	4-Nitrophenol	644		330	80	80
621-64-7	N-Nitrosodi-n-propylamine	495		50	27	27
86-30-6	N-Nitrosodiphenylamine	499		50	27	21
87-86-5	Pentachlorophenol	390		150	80	80
85-01-8	Phenanthrene	525		6.7	3.3	3.3
108-95-2	Phenol	528		50	27	27
129-00-0	Pyrene	597		6.7	3.3	3.3
120-82-1	1,2,4-Trichlorobenzene	468		50	27	27
95-95-4	2,4,5-Trichlorophenol	556		150	27	25
88-06-2	2,4,6-Trichlorophenol	526		150	80	80

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-83163/16-A

Matrix: Solid | Lab File ID: 30425105.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/23/2013 10:03

Sample wt/vol: 30.00(g) | Date Analyzed: 04/25/2013 17:00

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 83588 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	66		45-105
367-12-4	2-Fluorophenol (Surr)	71		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	67		35-100
4165-62-2	Phenol-d5 (Surr)	73		40-100
1718-51-0	Terphenyl-d14 (Surr)	63		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	78		35-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425105.D
Lims ID: LCS 240-83163/16-A Client ID:
Inject. Date: 25-Apr-2013 17:00:30 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0019269-005
Misc. Info.: LCS 240-83163/16-A =LCS 240-83163/16-A
Operator: 001574 Instrument ID: A4HP9
Injection Vol: 1.0 ul ALS Bottle#: 5
Lims Batch ID: 83588 Lims Sample ID: 5
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\8270 _9.m
Last Update: 26-Apr-2013 09:38:09 Calib Date: 19-Apr-2013 14:12:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419110.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: 5% phenyl Column Dia: 0.18 mm
Process Host: XAWRK003

First Level Reviewer: ulmanm Date: 26-Apr-2013 09:26:23

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.684	6.686	-0.002	78	161988	4.00	
* 2 Naphthalene-d8	136	7.795	7.797	-0.002	99	691766	4.00	
* 3 Acenaphthene-d10	164	9.295	9.297	-0.002	92	367211	4.00	
* 4 Phenanthrene-d10	188	10.565	10.567	-0.003	97	669314	4.00	
* 5 Chrysene-d12	240	12.916	12.918	-0.002	80	831276	4.00	
* 6 Perylene-d12	264	14.916	14.923	-0.007	92	687772	4.00	
$ 7 2-Fluorophenol	112	5.482	5.460	0.022	94	696949	10.6	
$ 8 Phenol-d5	99	6.318	6.311	0.007	89	972802	11.0	
$ 9 Nitrobenzene-d5	82	7.155	7.157	-0.002	85	688500	6.75	
$ 10 2-Fluorobiphenyl (Surr)	172	8.684	8.686	-0.002	98	724104	6.62	
$ 11 2,4,6-Tribromophenol	330	9.963	9.965	-0.002	86	138267	11.7	
$ 12 Terphenyl-d14	244	11.877	11.879	-0.002	98	934302	6.27	
31 2-Picoline	93		2.224					
37 Ethyl methanesulfonate	79		2.961					
25 1,4-Dioxane	88	3.159	3.161	-0.002	94	118796	3.60	M
26 N-Nitrosodimethylamine	74	3.741	3.738	0.003	86	376086	6.89	M
27 Pyridine	79	3.808	3.810	-0.002	93	535132	5.88	M
82 Quinoline	129	4.789	4.857	-0.068	54	6252	0	
94 Safrole, Total	162		5.066					
104 1,4-Dinitrobenzene	168		5.744					
108 1,2-Dinitrobenzene	168		5.777					
118 2,3,5,6-Tetrachlorophenol	232		6.257					
41 Benzaldehyde	77	6.289	6.292	-0.003	88	502293	7.13	
43 Phenol	94	6.328	6.325	0.003	92	720727	7.92	
44 Aniline	93	6.381	6.383	-0.002	96	416295	3.54	
69 Bis(2-chloroethyl)ether	93	6.410	6.412	-0.002	94	613535	7.53	
46 2-Chlorophenol	128	6.506	6.503	0.003	90	409837	7.84	
47 1,3-Dichlorobenzene	146	6.641	6.643	-0.002	82	398744	7.27	
48 1,4-Dichlorobenzene	146	6.698	6.700	-0.002	84	415161	7.36	
49 Benzyl alcohol	108	6.775	6.777	-0.002	85	313498	7.68	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
138 Phorate	121		6.812					9
137 Phenacetin	108		6.818					9
50 1,2-Dichlorobenzene	146	6.842	6.840	0.002	86	383662	7.32	
51 2-Methylphenol	108	6.862	6.859	0.003	86	447723	7.74	
53 2,2'-oxybis[1-chloropropane]	45	6.886	6.888	-0.002	95	581640	7.62	
21 3 & 4 Methylphenol	108	6.987	6.984	0.003	95	984876	16.4	
57 N-Nitrosodi-n-propylamine	70	6.996	6.998	-0.002	77	456351	7.42	
58 Acetophenone	105	7.016	7.013	0.003	69	702992	7.31	
144 Pronamide	173		7.138					
61 Hexachloroethane	117	7.145	7.147	-0.002	80	188796	7.05	
62 Nitrobenzene	77	7.169	7.172	-0.003	76	696164	7.54	
64 Isophorone	82	7.367	7.369	-0.002	96	1140193	7.46	
65 2,4-Dimethylphenol	107	7.444	7.446	-0.002	91	429919	6.63	
66 2-Nitrophenol	139	7.448	7.450	-0.002	80	211826	7.72	
71 Benzoic acid	122	7.463	7.489	-0.026	59	48165	2.74	M
70 Bis(2-chloroethoxy)methane	93	7.521	7.523	-0.002	98	675481	7.63	
73 2,4-Dichlorophenol	162	7.650	7.652	-0.002	89	326419	7.69	
74 1,2,4-Trichlorobenzene	180	7.737	7.734	0.003	85	341249	7.02	
75 Naphthalene	128	7.814	7.811	0.003	98	1192070	7.12	
76 4-Chloroaniline	127	7.823	7.826	-0.003	71	520440	5.92	
79 Hexachlorobutadiene	225	7.905	7.907	-0.002	91	187984	6.53	
84 Caprolactam	113	8.093	8.100	-0.007	77	166406	8.83	
86 4-Chloro-3-methylphenol	107	8.208	8.210	-0.002	84	443557	7.67	
87 2-Methylnaphthalene	142	8.396	8.398	-0.002	84	720414	6.83	
88 1-Methylnaphthalene	142	8.482	8.484	-0.002	79	691125	7.01	
89 Hexachlorocyclopentadiene	237	8.535	8.537	-0.002	88	177796	6.06	
92 2,4,6-Trichlorophenol	196	8.622	8.624	-0.002	86	210999	7.89	
93 2,4,5-Trichlorophenol	196	8.655	8.657	-0.002	86	227332	8.33	
164 Chlorobenzilate	139		8.746					
98 1,1'-Biphenyl	154	8.780	8.778	0.002	96	888702	7.26	
100 2-Chloronaphthalene	162	8.819	8.816	0.003	98	699513	7.67	
102 2-Nitroaniline	65	8.872	8.874	-0.002	71	362434	9.02	
105 Dimethyl phthalate	163	8.992	8.994	-0.002	93	804488	8.42	
106 1,3-Dinitrobenzene	168	9.035	9.037	-0.002	79	146930	9.46	
107 2,6-Dinitrotoluene	165	9.059	9.057	0.002	61	193061	8.76	
109 Acenaphthylene	152	9.180	9.177	0.003	92	1099851	7.79	
110 3-Nitroaniline	138	9.213	9.215	-0.002	86	197124	8.32	
111 2,4-Dinitrophenol	184	9.300	9.302	-0.002	63	68116	6.08	
113 4-Nitrophenol	109	9.314	9.316	-0.002	86	189386	9.66	
112 Acenaphthene	153	9.324	9.326	-0.002	93	666411	7.48	
114 2,4-Dinitrotoluene	165	9.406	9.408	-0.002	79	265224	9.46	
116 Dibenzofuran	168	9.463	9.465	-0.002	82	958126	7.46	
119 2,3,4,6-Tetrachlorophenol	232	9.559	9.557	0.002	73	166831	7.86	
121 Diethyl phthalate	149	9.584	9.586	-0.002	94	805533	9.05	
123 4-Chlorophenyl phenyl ether	204	9.723	9.725	-0.002	94	391484	7.78	
125 4-Nitroaniline	138	9.733	9.735	-0.002	77	215689	8.03	
126 Fluorene	166	9.757	9.759	-0.002	81	790582	7.85	
128 4,6-Dinitro-2-methylphenol	198	9.761	9.763	-0.002	71	142579	6.74	
131 N-Nitrosodiphenylamine	169	9.814	9.816	-0.002	98	590452	7.49	
133 Azobenzene	77	9.862	9.860	0.002	95	1433891	7.38	
132 1,2-Diphenylhydrazine	77	9.862	9.860	0.002	99	1433891	7.38	
139 4-Bromophenyl phenyl ether	248	10.146	10.148	-0.002	70	228952	7.70	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
142 Atrazine	200	10.228	10.230	-0.002	81	275270	7.89	
141 Hexachlorobenzene	284	10.242	10.244	-0.002	85	218080	7.20	
143 Pentachlorophenol	266	10.391	10.393	-0.002	77	105501	5.85	
148 Phenanthrene	178	10.584	10.586	-0.002	98	1300563	7.88	
149 Anthracene	178	10.627	10.629	-0.002	99	1339256	8.20	
151 Carbazole	167	10.738	10.740	-0.002	83	1278269	7.90	
154 Di-n-butyl phthalate	149	10.959	10.956	0.003	100	1650296	8.22	
159 Fluoranthene	202	11.603	11.605	-0.002	99	1621787	8.11	
161 Pyrene	202	11.805	11.807	-0.002	95	1643761	8.96	
168 Butyl benzyl phthalate	149	12.248	12.245	0.003	90	769893	9.21	
173 Bis(2-ethylhexyl) phthalate	149	12.757	12.759	-0.002	94	1061785	9.48	
175 3,3'-Dichlorobenzidine	252	12.820	12.822	-0.002	68	329526	5.21	
177 Benzo[a]anthracene	228	12.902	12.904	-0.002	90	1619585	8.24	
178 Chrysene	228	12.945	12.947	-0.002	96	1620636	8.57	
180 Di-n-octyl phthalate	149	13.483	13.485	-0.002	99	1756673	7.67	
182 Benzo[b]fluoranthene	252	14.287	14.289	-0.002	94	1430036	8.04	
183 Benzo[k]fluoranthene	252	14.325	14.327	-0.002	99	1606214	7.97	
184 Benzo[a]pyrene	252	14.830	14.832	-0.002	77	1311883	7.53	
188 Indeno[1,2,3-cd]pyrene	276	17.148	17.145	0.003	88	1526031	8.63	
189 Dibenz(a,h)anthracene	278	17.148	17.155	-0.007	71	1289010	8.96	
190 Benzo[g,h,i]perylene	276	17.840	17.842	-0.002	92	1309539	8.97	

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

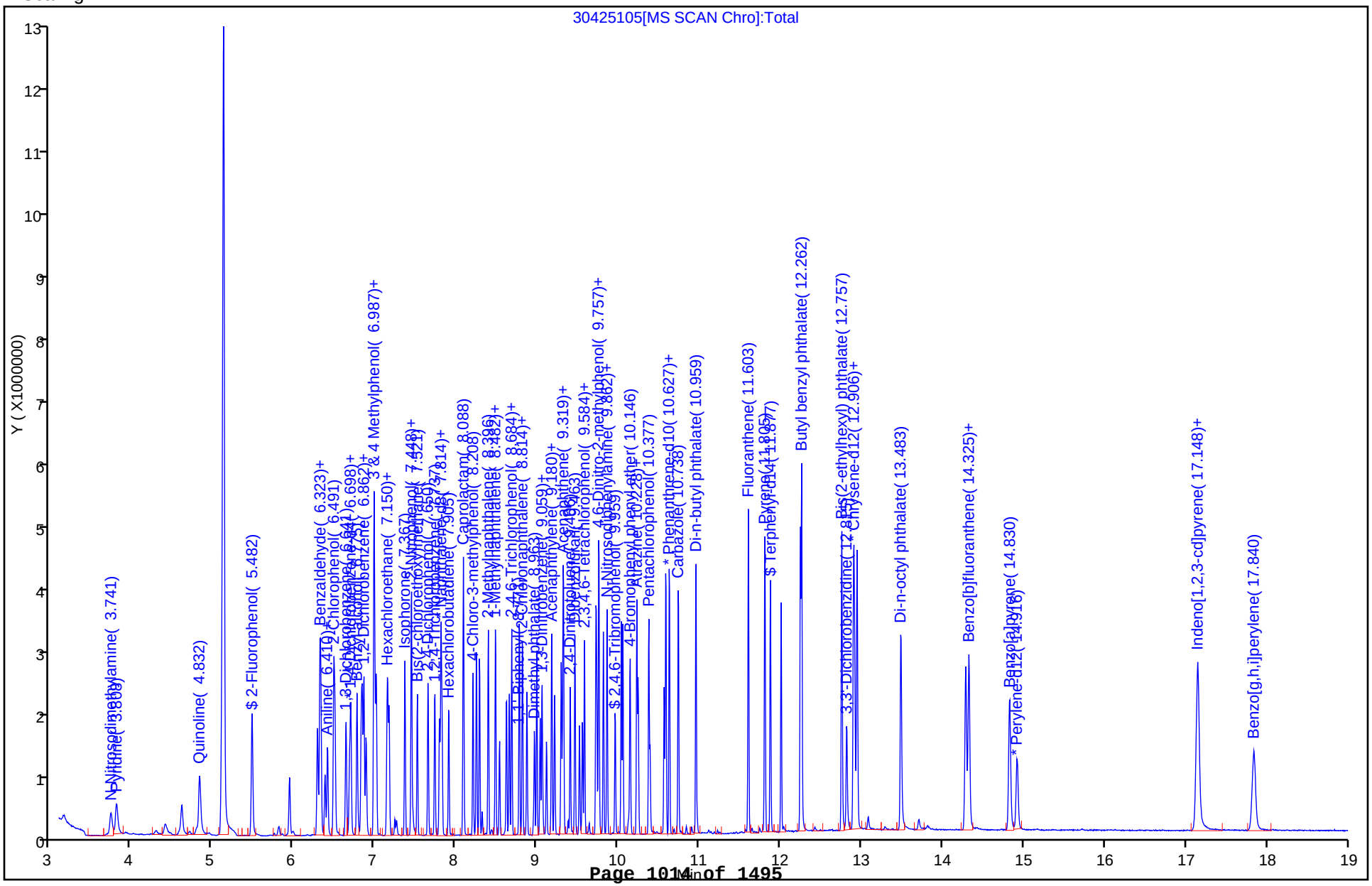
Report Date: 26-Apr-2013 09:38:13 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425105.D

Injection Date:	25-Apr-2013 17:00:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	83588	Lims Sample ID:	5
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

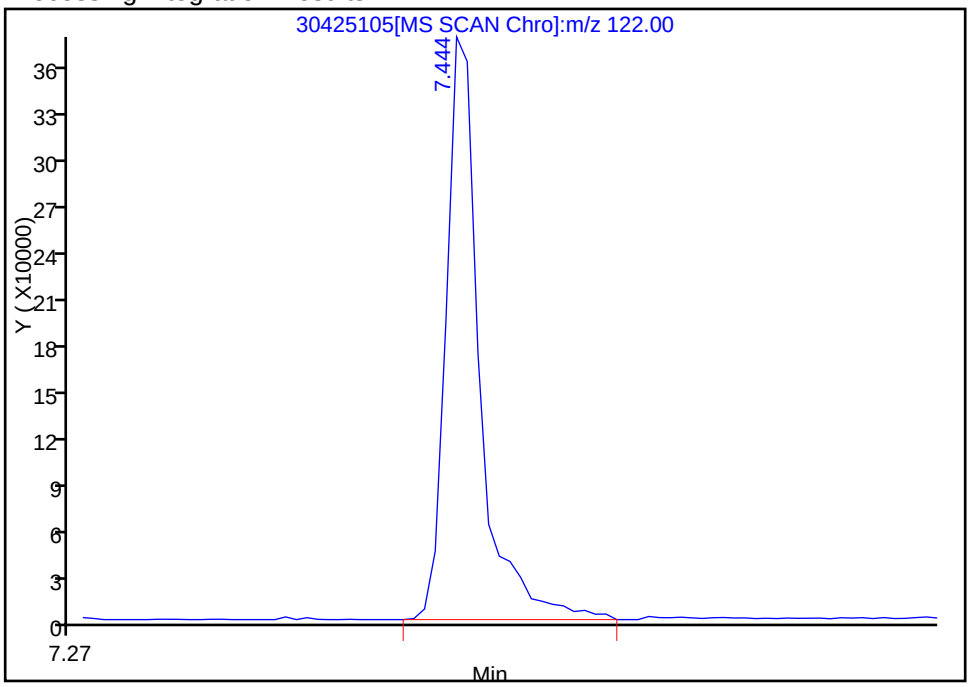
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425105.D		
Injection Date:	25-Apr-2013 17:00:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	83588	Lims Sample ID:	5
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

71 Benzoic acid, Signal: 1, m/z: 122.0 Type: quant, RT: 7.49

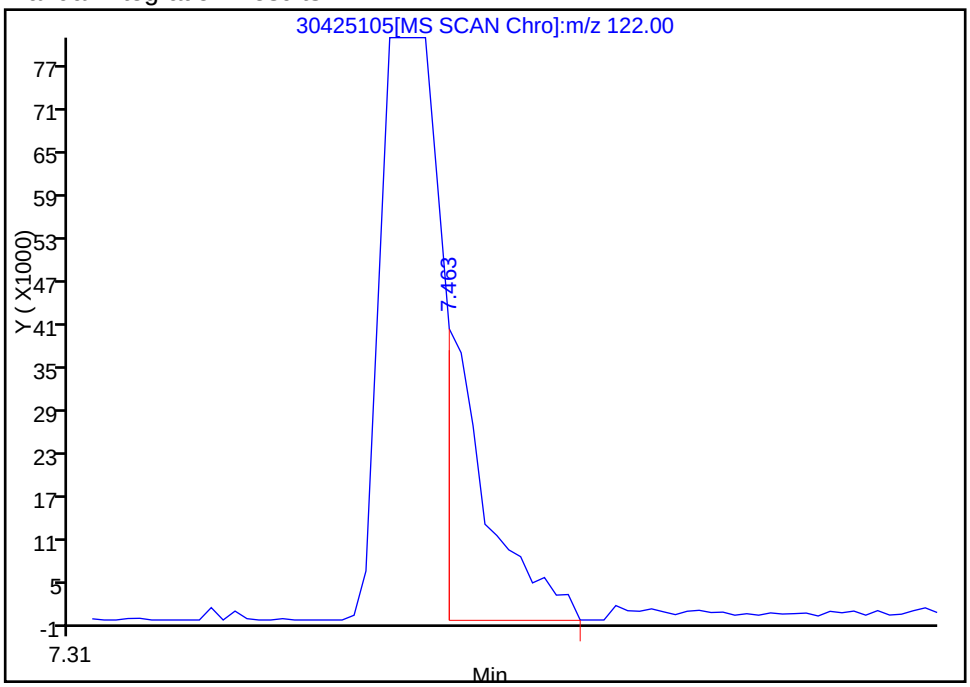
Processing Integration Results

RT: 7.44
Response: 394737
Amount: 12.125574



Manual Integration Results

RT: 7.46
Response: 48165
Amount: 2.735333



Reviewer: ulmanm, 26-Apr-2013 09:26:23
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-82653/3

Matrix: Solid | Lab File ID: 30419003.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/19/2013 11:07

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	4.40		0.00020	0.00010	0.00010
208-96-8	Acenaphthylene	4.71		0.00020	0.00010	0.00010
120-12-7	Anthracene	5.26		0.00020	0.00010	0.00010
56-55-3	Benzo[a]anthracene	4.74		0.00020	0.00010	0.00010
50-32-8	Benzo[a]pyrene	5.14		0.00020	0.00010	0.00010
205-99-2	Benzo[b]fluoranthene	4.71		0.00020	0.00010	0.00010
191-24-2	Benzo[g,h,i]perylene	5.10		0.00020	0.00010	0.00010
65-85-0	Benzoic acid	7.64	M	0.025	0.010	0.010
207-08-9	Benzo[k]fluoranthene	5.51		0.00020	0.00010	0.00010
100-51-6	Benzyl alcohol	4.19		0.0050	0.00080	0.00038
111-91-1	Bis(2-chloroethoxy)methane	5.11		0.0010	0.00080	0.00032
111-44-4	Bis(2-chloroethyl)ether	5.20		0.0010	0.00010	0.00010
108-60-1	bis (2-chloroisopropyl) ether	4.40		1.0	0.00080	0.00040
117-81-7	Bis(2-ethylhexyl) phthalate	5.52		0.0020	0.00080	0.00080
101-55-3	4-Bromophenyl phenyl ether	4.92		0.0020	0.00080	0.00080
85-68-7	Butyl benzyl phthalate	5.42		0.0020	0.00080	0.00080
86-74-8	Carbazole	5.22		0.0010	0.00080	0.00028
106-47-8	4-Chloroaniline	5.01		0.0020	0.00080	0.00080
59-50-7	4-Chloro-3-methylphenol	4.52		0.0020	0.00080	0.00080
91-58-7	2-Chloronaphthalene	5.03		0.0010	0.00010	0.00010
95-57-8	2-Chlorophenol	5.03		0.0010	0.00080	0.00029
7005-72-3	4-Chlorophenyl phenyl ether	4.24		0.0020	0.00080	0.00030
218-01-9	Chrysene	4.60		0.00020	0.00010	0.00010
53-70-3	Dibenz(a,h)anthracene	4.78		0.00020	0.00010	0.00010
132-64-9	Dibenzofuran	4.56		0.0010	0.00010	0.00010
95-50-1	1,2-Dichlorobenzene	5.14		0.0010	0.00080	0.00029
541-73-1	1,3-Dichlorobenzene	5.22		0.0010	0.00080	0.00080
106-46-7	1,4-Dichlorobenzene	5.32		0.0010	0.00080	0.00034
91-94-1	3,3'-Dichlorobenzidine	10.1		0.0050	0.00080	0.00037
120-83-2	2,4-Dichlorophenol	5.09		0.0020	0.00080	0.00080
84-66-2	Diethyl phthalate	4.58		0.0020	0.00080	0.00060
105-67-9	2,4-Dimethylphenol	4.64		0.0020	0.00080	0.00080
131-11-3	Dimethyl phthalate	4.85		0.0020	0.00080	0.00029
84-74-2	Di-n-butyl phthalate	5.39		0.0020	0.00080	0.00067

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-82653/3

Matrix: Solid | Lab File ID: 30419003.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/19/2013 11:07

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	9.23		0.0050	0.0024	0.0024
51-28-5	2,4-Dinitrophenol	8.43		0.0050	0.0024	0.0024
121-14-2	2,4-Dinitrotoluene	4.55		0.0050	0.00080	0.00027
606-20-2	2,6-Dinitrotoluene	5.04		0.0050	0.00080	0.00080
117-84-0	Di-n-octyl phthalate	5.05		0.0020	0.00080	0.00080
206-44-0	Fluoranthene	4.80		0.00020	0.00010	0.00010
86-73-7	Fluorene	4.73		0.00020	0.00010	0.00010
118-74-1	Hexachlorobenzene	4.97		0.00020	0.00010	0.00010
87-68-3	Hexachlorobutadiene	4.59		0.0010	0.00080	0.00027
77-47-4	Hexachlorocyclopentadiene	3.97		0.010	0.00080	0.00080
67-72-1	Hexachloroethane	4.90		0.0010	0.00080	0.00080
193-39-5	Indeno[1,2,3-cd]pyrene	5.15		0.00020	0.00010	0.00010
78-59-1	Isophorone	4.97		0.0010	0.00080	0.00027
91-57-6	2-Methylnaphthalene	4.77		0.00020	0.00010	0.00010
95-48-7	2-Methylphenol	4.75		0.0010	0.00080	0.00080
15831-10-4	3 & 4 Methylphenol	4.89		0.0020	0.00080	0.00080
91-20-3	Naphthalene	4.92		0.00020	0.00010	0.00010
88-74-4	2-Nitroaniline	4.74		0.0020	0.00080	0.00080
99-09-2	3-Nitroaniline	4.75		0.0020	0.00080	0.00028
100-01-6	4-Nitroaniline	5.30		0.0020	0.00080	0.00080
98-95-3	Nitrobenzene	5.07		0.0010	0.00010	0.000040
88-75-5	2-Nitrophenol	5.03		0.0020	0.00080	0.00028
100-02-7	4-Nitrophenol	9.22		0.0050	0.0024	0.0024
621-64-7	N-Nitrosodi-n-propylamine	4.86		0.0010	0.00080	0.00080
86-30-6	N-Nitrosodiphenylamine	10.3		0.0010	0.00080	0.00031
87-86-5	Pentachlorophenol	8.50		0.0050	0.0024	0.0024
85-01-8	Phenanthrene	5.03		0.00020	0.00010	0.00010
108-95-2	Phenol	5.18		0.0010	0.00080	0.00060
129-00-0	Pyrene	4.95		0.00020	0.00010	0.00010
120-82-1	1,2,4-Trichlorobenzene	4.83		0.0010	0.00080	0.00028
95-95-4	2,4,5-Trichlorophenol	4.84		0.0050	0.00080	0.00030
88-06-2	2,4,6-Trichlorophenol	4.69		0.0050	0.00080	0.00080

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-82653/3

Matrix: Solid | Lab File ID: 30419003.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/19/2013 11:07

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	88		50-150
367-12-4	2-Fluorophenol (Surr)	105		50-150
4165-60-0	Nitrobenzene-d5 (Surr)	96		50-150
4165-62-2	Phenol-d5 (Surr)	102	Q	50-150
1718-51-0	Terphenyl-d14 (Surr)	87		50-150
118-79-6	2,4,6-Tribromophenol (Surr)	86		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419003.D
Lims ID: mrl qc
Client ID:
Inject. Date: 19-Apr-2013 11:07:30
Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019044-003
Misc. Info.: MRL QC =MRL QC
Operator: 001710
Instrument ID: A4HP10
Injection Vol: 1.0 ul
ALS Bottle#: 3
Lims Batch ID: 82653
Lims Sample ID: 3
Detector: MS SCAN

Method: \\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m
Last Update: 22-Apr-2013 13:55:06
Calib Date: 12-Apr-2013 00:58:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: 5% phenyl
Column Dia: 0.18 mm
Process Host: XAWRK022

First Level Reviewer: gruberj
Date: 19-Apr-2013 12:33:53

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.848	5.848	0.0	99	151978	4.00	
* 2 Naphthalene-d8	136	6.971	6.970	0.001	100	587771	4.00	
* 3 Acenaphthene-d10	164	8.475	8.475	0.0	87	359735	4.00	
* 4 Phenanthrene-d10	188	9.738	9.738	0.0	97	595179	4.00	
* 5 Chrysene-d12	240	12.288	12.294	-0.006	77	638938	4.00	
* 6 Perylene-d12	264	14.368	14.368	0.0	97	467018	4.00	
$ 7 2-Fluorophenol	112	4.573	4.573	0.0	94	230380	5.24	
$ 8 Phenol-d5	99	5.484	5.490	-0.006	78	297606	5.08	
$ 9 Nitrobenzene-d5	82	6.336	6.336	0.0	87	264052	4.80	
$ 10 2-Fluorobiphenyl (Surr)	172	7.887	7.887	0.0	99	512795	4.42	
$ 11 2,4,6-Tribromophenol	330	9.139	9.144	-0.005	89	56465	4.29	
$ 12 Terphenyl-d14	244	11.101	11.101	0.0	99	549751	4.37	
243 n-Decane	57		0.000					
242 3-(1,1-Dimethylethyl Phenol) TIC	1		0.000					
21 2,5-Dichlorophenol	1		0.000					
18 Octachlorostyrene	1		0.000					
24 Bis(2-hydroxyphenyl)methane	1		0.000					
13 Dimethylformamide	1		0.000					
23 Bis(4-hydroxyphenyl)methane	1		0.000					
247 Hexadecane	57		0.000					
234 2-Isopropylphenol TIC	1		0.000					
236 4-isopropylphenol TIC	1		0.000					
16 2,3-Dichlorophenol	1		0.000					
20 Octachlorocyclopentene	1		0.000					
250 2,3,7,8-TCDD TIC	1		0.000					
249 4-Chlorophenol TIC	1		0.000					
245 Total Cresols	1		0.000					
239 3-isopropylphenol TIC	1		0.000					
244 n-Octadecane	57		0.000					
25 1,4-Dioxane	88	2.305	2.305	0.0	83	107585	5.06	M

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
32 Malononitrile	66		2.451					
233 n,n'-Dimethylacetamide	44		2.478					
35 3-Picoline	93		2.622					
26 N-Nitrosodimethylamine	74	2.746	2.746	0.0	83	133473	5.27	M
27 Pyridine	79	2.799	2.799	0.0	96	246365	5.24	M
40 4-Methylcyclohexanone	55	3.369	3.221	0.148	1	2791	0	
38 2-Methylcyclohexanone	68	3.269	3.221	0.048	1	121	0	
39 3-Methylcyclohexanone	69	3.263	3.221	0.042	1	220	0	
232 1-Methyl-2-pyrrilidinone	99		3.351					14
30 2-Picoline	93		4.091					
67 1,3,5-Trichlorobenzene	180		4.145					
14 Catechol	110	4.332	4.161	0.171	1	54	0	
31 N-Nitrosomethylethylamine	88		4.226					
22 3-Methylcatechol	124		4.460					19
34 Acrylamide	71	4.491	4.497	-0.006	1	304	0	
79 1,2,3-Trichlorobenzene	180		4.535					
33 Methyl methanesulfonate	80		4.550					9
17 4-Methylcatechol	124		4.583					19
36 N-Nitrosodiethylamine	102		4.955					
90 1,2,3,5-Tetrachlorobenzene	216		5.031					
97 2,4-Toluene diamine	121		5.234					
37 Ethyl methanesulfonate	79		5.237					
99 1,2,3,4 -Tetrachlorobenzene	216		5.250					
41 Benzaldehyde	77	5.443	5.449	-0.006	92	412415	9.97	
43 Phenol	94	5.496	5.502	-0.006	98	298306	5.18	
42 Phenylmercaptan	110		5.539					
44 Aniline	93	5.543	5.543	0.0	98	368023	5.18	
108 1,2-Dinitrobenzene	168		5.550					
45 Bis(2-chloroethyl)ether	93	5.596	5.601	-0.005	96	231881	5.20	
47 2-Chlorophenol	128	5.649	5.648	0.001	96	233797	5.03	
46 Pentachloroethane	167		5.701					
48 1,3-Dichlorobenzene	146	5.795	5.795	0.0	97	262051	5.22	
49 1,4-Dichlorobenzene	146	5.860	5.866	-0.006	91	272813	5.32	
50 Benzyl alcohol	108	5.960	5.960	0.0	91	123733	4.19	
51 1,2-Dichlorobenzene	146	6.001	6.001	0.0	96	251488	5.14	
52 2-Methylphenol	108	6.048	6.054	-0.006	98	199243	4.75	
53 Indene	115	6.078	6.077	0.001	72	867296	10.0	
54 2,2'-oxybis[1-chloropropane]	45	6.083	6.083	0.0	90	300351	4.40	
127 Tributyl phosphate	99		6.089					9
56 3 & 4 Methylphenol	108	6.183	6.183	0.0	96	213739	4.89	
57 N-Nitrosodi-n-propylamine	70	6.195	6.195	0.0	87	152257	4.86	
58 Acetophenone	105	6.201	6.201	0.0	94	320138	4.91	
55 N-Nitrosopyrrolidine	100		6.277					9
61 Hexachloroethane	117	6.301	6.307	-0.006	96	97078	4.90	
59 N-Nitrosomorpholine	56		6.312					9
60 2-Toluidine	106		6.330					
62 Nitrobenzene	77	6.354	6.354	0.0	84	253157	5.07	
64 Isophorone	82	6.559	6.559	0.0	97	445620	4.97	
63 N-Nitrosopiperidine	114		6.582					
66 2-Nitrophenol	139	6.630	6.636	-0.006	97	119925	5.03	
65 2,4-Dimethylphenol	107	6.653	6.653	0.0	94	212350	4.64	
70 Benzoic acid	122	6.694	6.712	-0.018	86	176789	7.64	M

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
69 Bis(2-chloroethoxy)methane	93	6.741	6.741	0.0	99	269818	5.11	
68 o,o',o''-Triethylphosphorothioat	198		6.800					
72 2,4-Dichlorophenol	162	6.835	6.835	0.0	94	191395	5.09	
71 alpha,alpha-Dimethyl phenethylam	58		6.906					9
73 1,2,4-Trichlorobenzene	180	6.918	6.918	0.0	93	212818	4.83	
74 Naphthalene	128	6.988	6.988	0.0	95	670493	4.92	
75 4-Chloroaniline	127	7.023	7.023	0.0	85	284926	5.01	
78 Hexachlorobutadiene	225	7.088	7.088	0.0	94	123608	4.59	
76 2,6-Dichlorophenol	162		7.123					
77 Hexachloropropene	213		7.158					9
80 Benzothiazole	135		7.243					9
83 Caprolactam	113	7.306	7.317	-0.011	77	140145	10.9	
81 Quinoline	129		7.364					
82 N-Nitrosodi-n-butylamine	84		7.387					9
84 p-Phenylene diamine	108		7.411					9
85 4-Chloro-3-methylphenol	107	7.423	7.423	0.0	94	181820	4.52	
87 2-Methylnaphthalene	142	7.582	7.582	0.0	91	437136	4.77	
86 Safrole, Total	162		7.587					
88 1-Methylnaphthalene	142	7.670	7.670	0.0	82	415082	4.83	
89 Hexachlorocyclopentadiene	237	7.711	7.711	0.0	91	113497	3.97	
92 1,2,4,5-Tetrachlorobenzene	216	7.723	7.723	0.0	94	214381	4.49	
93 2,4,6-Trichlorophenol	196	7.811	7.811	0.0	92	139083	4.69	
95 Isosafrole Peak 1	162		7.834					
94 2,4,5-Trichlorophenol	196	7.840	7.846	-0.006	96	148832	4.84	
96 3,4-Dichloronitrobenzene	109		7.967					
98 1,1'-Biphenyl	154	7.975	7.975	0.0	95	525074	4.51	
100 2-Chloronaphthalene	162	7.999	7.999	0.0	95	444810	5.03	
91 Isosafrole Peak 2	162		8.028					
102 2-Nitroaniline	65	8.075	8.075	0.0	86	129043	4.74	
101 Phenyl ether	170		8.089					9
246 1-Chloronaphthalene	162		8.116					1
105 Dimethyl phthalate	163	8.216	8.216	0.0	99	488208	4.85	
103 1,4-Naphthoquinone	158		8.239					
106 1,3-Dinitrobenzene	168	8.251	8.251	0.0	86	75089	4.85	
107 2,6-Dinitrotoluene	165	8.275	8.275	0.0	89	110830	5.04	
104 1,4-Dinitrobenzene	168		8.280					
109 Acenaphthylene	152	8.357	8.357	0.0	91	664145	4.71	
110 3-Nitroaniline	138	8.416	8.422	-0.006	93	122283	4.75	
112 Acenaphthene	153	8.498	8.504	-0.006	93	430968	4.40	
111 2,4-Dinitrophenol	184	8.504	8.510	-0.006	73	116521	8.43	
113 4-Nitrophenol	109	8.534	8.539	-0.005	94	134061	9.22	
114 2,4-Dinitrotoluene	165	8.616	8.616	0.0	84	142970	4.55	
116 Dibenzofuran	168	8.645	8.645	0.0	88	601715	4.56	
174 3,3'-Dimethoxybenzidine	244		8.648					
115 Pentachlorobenzene	250		8.704					
119 2,3,4,6-Tetrachlorophenol	232	8.739	8.739	0.0	73	118951	4.43	
117 2,3,5,6-Tetrachlorophenol	232		8.798					
118 1-Naphthylamine	143		8.803					9
121 Diethyl phthalate	149	8.810	8.815	-0.005	97	476063	4.58	
120 2-Naphthylamine	143		8.874					9
123 4-Chlorophenyl phenyl ether	204	8.927	8.927	0.0	92	239386	4.24	
126 Fluorene	166	8.939	8.939	0.0	82	507139	4.73	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
125 4-Nitroaniline	138	8.939	8.939	0.0	81	130490	5.30	
128 4,6-Dinitro-2-methylphenol	198	8.962	8.962	0.0	86	176873	9.23	
122 Thionazin	97		8.974					
129 N-Nitrosodiphenylamine	169	9.021	9.027	-0.006	86	721539	10.3	
124 N-Nitro-o-toluidine	152		9.033					
132 Azobenzene	77	9.062	9.062	0.0	99	521569	5.51	
131 1,2-Diphenylhydrazine	77	9.062	9.062	0.0	95	520843	5.51	
130 Diphenylamine	169	9.021	9.115	-0.094	93	721539	8.73	
133 Sulfotepp	202		9.232					
134 1,3,5-Trinitrobenzene	213		9.315					
139 4-Bromophenyl phenyl ether	248	9.344	9.344	0.0	66	130623	4.92	
135 Diallate Peak 1	86		9.356					
136 Phenacetin	108		9.362					9
137 Phorate	121		9.367					9
141 Hexachlorobenzene	284	9.403	9.403	0.0	89	133607	4.97	
138 Diallate Peak 2	86		9.438					
142 Atrazine	200	9.462	9.462	0.0	94	281212	10.5	
140 Dimethoate	87		9.514					9
144 Pentachlorophenol	266	9.562	9.567	-0.005	86	158638	8.50	
143 4-Aminobiphenyl	169	9.562	9.661	-0.099	52	26978	0	
146 Pentachloronitrobenzene	237		9.673					9
145 Pronamide	173		9.691					9
149 Phenanthrene	178	9.761	9.761	0.0	97	693592	5.03	
148 Dinoseb	211		9.802					
150 Anthracene	178	9.803	9.803	0.001	97	721356	5.26	
147 Disulfoton	88		9.808					
152 Carbazole	167	9.926	9.932	-0.006	94	660617	5.22	
151 DFTPP								
153 Methyl parathion	109		10.131					9
154 Diphenylsulfone	125		10.147					9
155 Di-n-butyl phthalate	149	10.190	10.196	-0.006	100	833807	5.39	
156 Ethyl Parathion	97		10.454					9
157 4-Nitroquinoline-1-oxide	190		10.507					
158 Methapyrilene	58		10.554					
159 Isodrin	66		10.748					9
160 Fluoranthene	202	10.772	10.772	0.0	98	780771	4.80	
161 Benzidine	184	10.872	10.872	0.0	99	604697	9.10	
162 Pyrene	202	10.978	10.984	-0.006	95	815992	4.95	
168 4,4'-DDE	246		11.036					9
29 3-Chloropropionitrile	54		11.148					
163 Aramite Peak 1	185		11.171					
164 Aramite Peak 2	185		11.242					
165 p-Dimethylamino azobenzene	225		11.353					
167 4,4'-DDD	235		11.371					9
166 Chlorobenzilate	139		11.389					
28 Ethyl methacrylate	69		11.477					9
170 Butyl benzyl phthalate	149	11.583	11.583	0.0	97	340653	5.42	
172 4,4'-DDT	235		11.700					9
171 3,3'-Dimethylbenzidine	212		11.712					9
173 2-Acetylaminofluorene	181		12.006					
169 Famphur	218		12.223					9
177 3,3'-Dichlorobenzidine	252	12.229	12.229	0.0	72	525657	10.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
175 Bis(2-ethylhexyl) phthalate	149	12.259	12.258	0.001	97	488628	5.52	
179 Benzo[a]anthracene	228	12.276	12.282	-0.006	88	753338	4.74	
178 Hexabromobenzene	232	12.294	12.319	-0.025	1	27139	0	
180 Chrysene	228	12.323	12.329	-0.006	93	670822	4.60	
176 4,4'-Methylene bis(2-chloroanili	231		12.382					9
181 6-Methylchrysene	242		13.104					
182 Di-n-octyl phthalate	149	13.175	13.175	0.0	99	701088	5.05	
184 Benzo[b]fluoranthene	252	13.786	13.786	0.0	87	589774	4.71	
185 Benzo[k]fluoranthene	252	13.827	13.827	0.0	90	751423	5.51	
183 7,12-Dimethylbenz(a)anthracene	256		13.962					
186 Benzo[a]pyrene	252	14.286	14.286	0.0	76	598192	5.14	
187 3-Methylcholanthrene	268		15.037					
188 Dibenz[a,j]acridine	279		15.657					
189 Dibenz[a,h]acridine	279		15.895					9
190 Indeno[1,2,3-cd]pyrene	276	16.031	16.031	0.0	95	657096	5.15	
191 Dibenz(a,h)anthracene	278	16.060	16.066	-0.006	82	509032	4.78	
192 Benzo[g,h,i]perylene	276	16.471	16.477	-0.006	92	555621	5.10	
S 193 Methyl Phenols,Total	100				0		9.63	
S 194 Isosafrole	162		5.161					7
S 195 Diallate	86		6.289					7
S 196 Aramite, Total	185		7.806					7
T 197 Decane TIC	57	5.690	0.0	5.690	95	250581	0	
T 198 Hydroquinone TIC	110		0.000					1
T 238 Trimethyl phosphate TIC	110		4.000					1
T 200 Hexamethylphosphoramide TIC	135	7.206	7.200	0.006	1	821	0	
T 248 2,3,7,8 TCDF TIC	322		8.600					1
T 202 Hexachlorophene TIC	198		8.600					1
T 201 Kepone TIC	272		8.600					
T 19 2,3,7,8-TCDD	320		8.800					1
T 199 Octadecane (TIC)	254	9.597	9.600	-0.003	97	293546	0	
T 241 Triphenyl Phosphate TIC	326	12.153	12.250	-0.097	0	158	0	
T 240 Tricresyl phosphate TIC	368		12.750					1
T 237 Tris(2,3-dibromopropyl)phosphate	201	14.568	14.500	0.068	0	134	0	

QC Flag Legend

Processing Flags
1 - Missing Peaks
4 - Failed Signal Ratio Test
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

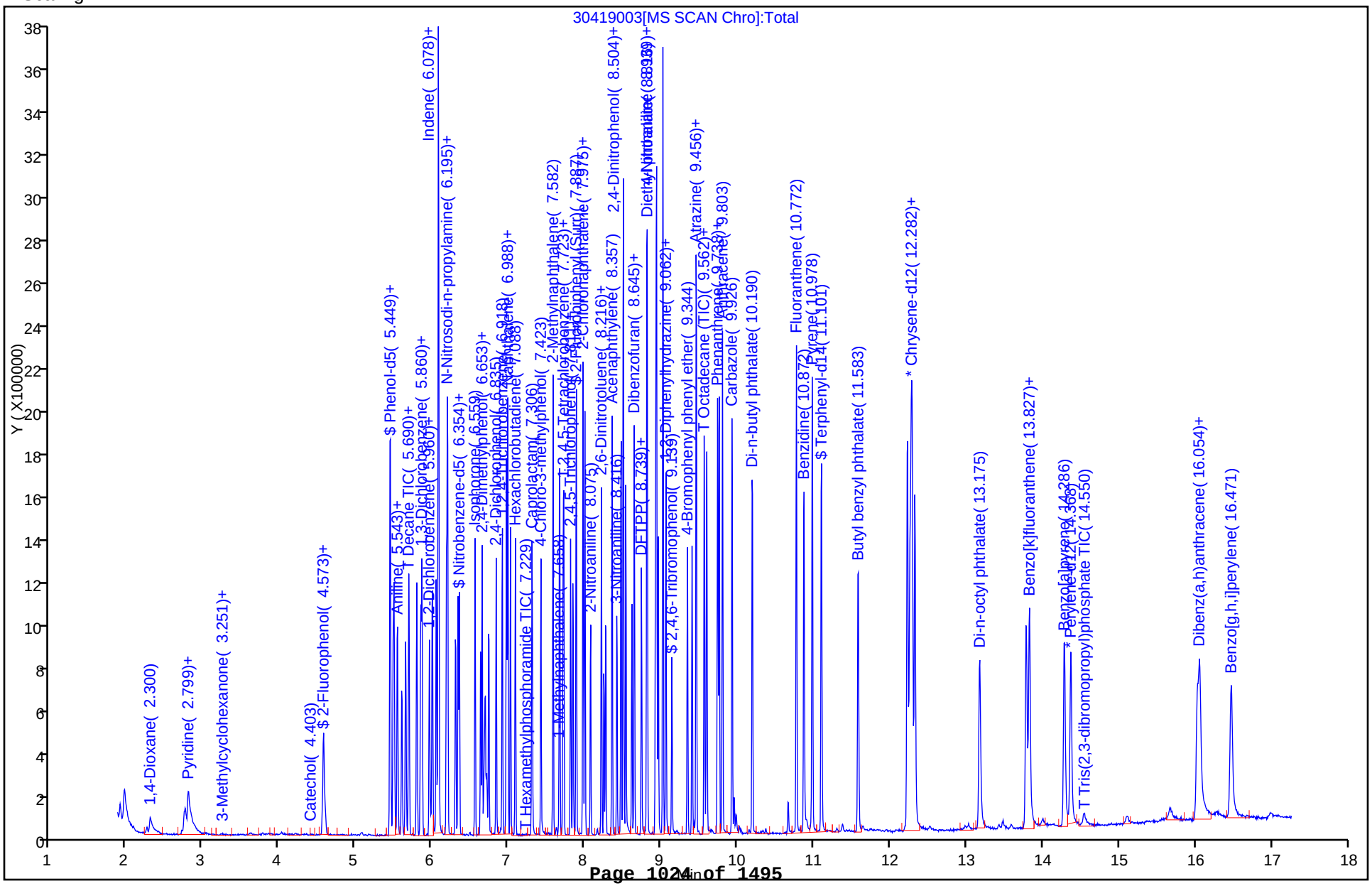
Report Date: 22-Apr-2013 13:55:09 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419003.D

Injection Date:	19-Apr-2013 11:07:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	3
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

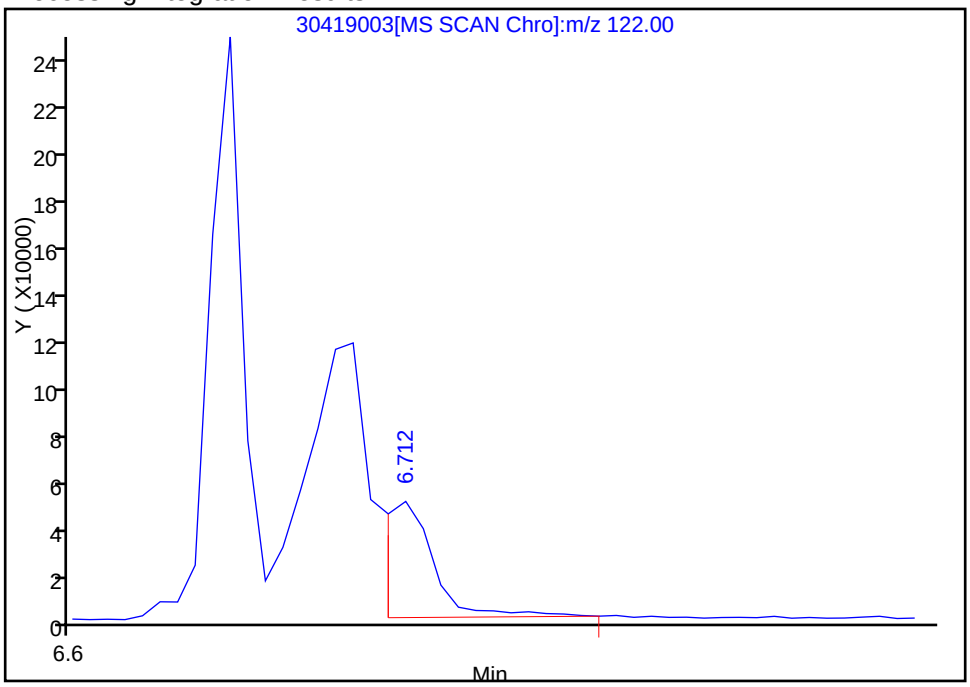
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419003.D		
Injection Date:	19-Apr-2013 11:07:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	3
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

70 Benzoic acid, Signal: 1, m/z: 122.0 Type: quant, RT: 6.71

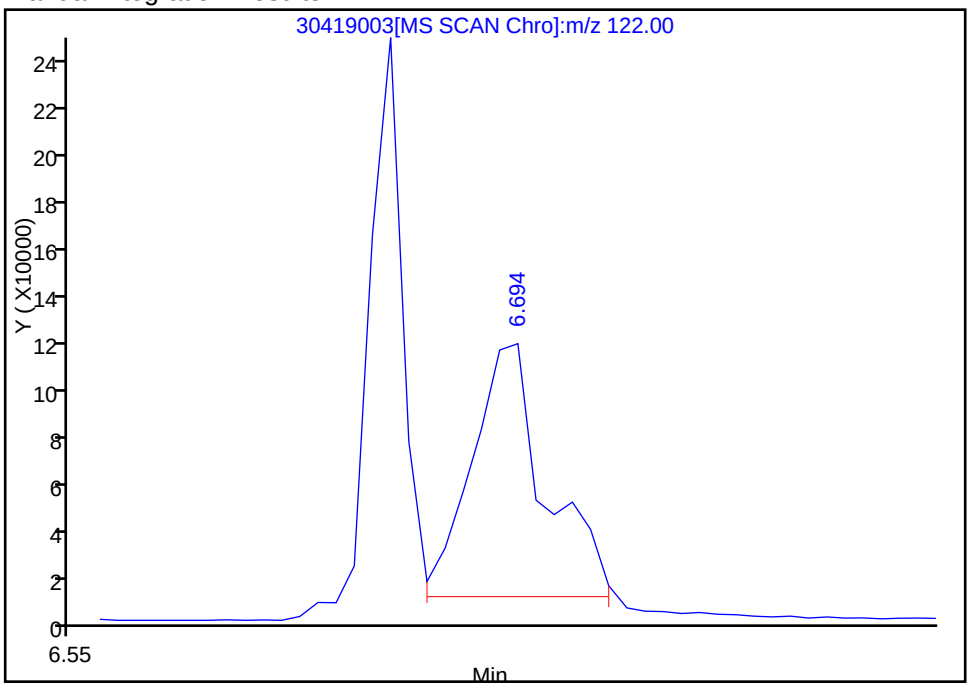
Processing Integration Results

RT: 6.71
Response: 56376
Amount: 2.836848



Manual Integration Results

RT: 6.69
Response: 176789
Amount: 7.640449



Reviewer: gruberj, 19-Apr-2013 12:33:53
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-82653/28

Matrix: Solid | Lab File ID: 30419028.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/19/2013 20:51

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	4.42		0.00020	0.00010	0.00010
208-96-8	Acenaphthylene	4.85		0.00020	0.00010	0.00010
120-12-7	Anthracene	5.47		0.00020	0.00010	0.00010
56-55-3	Benzo[a]anthracene	4.66		0.00020	0.00010	0.00010
50-32-8	Benzo[a]pyrene	5.27		0.00020	0.00010	0.00010
205-99-2	Benzo[b]fluoranthene	5.18		0.00020	0.00010	0.00010
191-24-2	Benzo[g,h,i]perylene	4.40		0.00020	0.00010	0.00010
65-85-0	Benzoic acid	8.00	M	0.025	0.010	0.010
207-08-9	Benzo[k]fluoranthene	5.01		0.00020	0.00010	0.00010
100-51-6	Benzyl alcohol	5.22		0.0050	0.00080	0.00038
111-91-1	Bis(2-chloroethoxy)methane	5.14		0.0010	0.00080	0.00032
111-44-4	Bis(2-chloroethyl)ether	5.10		0.0010	0.00010	0.00010
108-60-1	bis (2-chloroisopropyl) ether	4.60		1.0	0.00080	0.00040
117-81-7	Bis(2-ethylhexyl) phthalate	5.72		0.0020	0.00080	0.00080
101-55-3	4-Bromophenyl phenyl ether	4.95		0.0020	0.00080	0.00080
85-68-7	Butyl benzyl phthalate	5.67		0.0020	0.00080	0.00080
86-74-8	Carbazole	5.46		0.0010	0.00080	0.00028
106-47-8	4-Chloroaniline	5.14		0.0020	0.00080	0.00080
59-50-7	4-Chloro-3-methylphenol	4.92		0.0020	0.00080	0.00080
91-58-7	2-Chloronaphthalene	4.98		0.0010	0.00010	0.00010
95-57-8	2-Chlorophenol	5.25		0.0010	0.00080	0.00029
7005-72-3	4-Chlorophenyl phenyl ether	4.39		0.0020	0.00080	0.00030
218-01-9	Chrysene	4.65		0.00020	0.00010	0.00010
53-70-3	Dibenz(a,h)anthracene	4.68		0.00020	0.00010	0.00010
132-64-9	Dibenzofuran	4.68		0.0010	0.00010	0.00010
95-50-1	1,2-Dichlorobenzene	5.17		0.0010	0.00080	0.00029
541-73-1	1,3-Dichlorobenzene	5.31		0.0010	0.00080	0.00080
106-46-7	1,4-Dichlorobenzene	5.36		0.0010	0.00080	0.00034
91-94-1	3,3'-Dichlorobenzidine	10.3		0.0050	0.00080	0.00037
120-83-2	2,4-Dichlorophenol	5.20		0.0020	0.00080	0.00080
84-66-2	Diethyl phthalate	4.74		0.0020	0.00080	0.00060
105-67-9	2,4-Dimethylphenol	4.75		0.0020	0.00080	0.00080
131-11-3	Dimethyl phthalate	4.89		0.0020	0.00080	0.00029
84-74-2	Di-n-butyl phthalate	5.53		0.0020	0.00080	0.00067

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-82653/28

Matrix: Solid | Lab File ID: 30419028.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/19/2013 20:51

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	5.67	^	0.0050	0.0024	0.0024
51-28-5	2,4-Dinitrophenol	4.03	^	0.0050	0.0024	0.0024
121-14-2	2,4-Dinitrotoluene	4.60		0.0050	0.00080	0.00027
606-20-2	2,6-Dinitrotoluene	5.16		0.0050	0.00080	0.00080
117-84-0	Di-n-octyl phthalate	5.65		0.0020	0.00080	0.00080
206-44-0	Fluoranthene	5.01		0.00020	0.00010	0.00010
86-73-7	Fluorene	4.80		0.00020	0.00010	0.00010
118-74-1	Hexachlorobenzene	5.19		0.00020	0.00010	0.00010
87-68-3	Hexachlorobutadiene	4.56		0.0010	0.00080	0.00027
77-47-4	Hexachlorocyclopentadiene	0.452	^	0.010	0.00080	0.00080
67-72-1	Hexachloroethane	4.11		0.0010	0.00080	0.00080
193-39-5	Indeno[1,2,3-cd]pyrene	4.70		0.00020	0.00010	0.00010
78-59-1	Isophorone	5.05		0.0010	0.00080	0.00027
91-57-6	2-Methylnaphthalene	4.90		0.00020	0.00010	0.00010
95-48-7	2-Methylphenol	5.20		0.0010	0.00080	0.00080
15831-10-4	3 & 4 Methylphenol	5.17		0.0020	0.00080	0.00080
91-20-3	Naphthalene	4.90		0.00020	0.00010	0.00010
88-74-4	2-Nitroaniline	4.90		0.0020	0.00080	0.00080
99-09-2	3-Nitroaniline	4.87		0.0020	0.00080	0.00028
100-01-6	4-Nitroaniline	5.52		0.0020	0.00080	0.00080
98-95-3	Nitrobenzene	4.94		0.0010	0.00010	0.000040
88-75-5	2-Nitrophenol	4.91		0.0020	0.00080	0.00028
100-02-7	4-Nitrophenol	9.34		0.0050	0.0024	0.0024
621-64-7	N-Nitrosodi-n-propylamine	5.05		0.0010	0.00080	0.00080
86-30-6	N-Nitrosodiphenylamine	10.9		0.0010	0.00080	0.00031
87-86-5	Pentachlorophenol	8.80		0.0050	0.0024	0.0024
85-01-8	Phenanthrene	5.22		0.00020	0.00010	0.00010
108-95-2	Phenol	5.19		0.0010	0.00080	0.00060
129-00-0	Pyrene	4.82		0.00020	0.00010	0.00010
120-82-1	1,2,4-Trichlorobenzene	4.90		0.0010	0.00080	0.00028
95-95-4	2,4,5-Trichlorophenol	4.98		0.0050	0.00080	0.00030
88-06-2	2,4,6-Trichlorophenol	4.97		0.0050	0.00080	0.00080

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-82653/28

Matrix: Solid | Lab File ID: 30419028.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/19/2013 20:51

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	90		50-150
367-12-4	2-Fluorophenol (Surr)	107	Q	50-150
4165-60-0	Nitrobenzene-d5 (Surr)	97		50-150
4165-62-2	Phenol-d5 (Surr)	106	Q	50-150
1718-51-0	Terphenyl-d14 (Surr)	88		50-150
118-79-6	2,4,6-Tribromophenol (Surr)	94		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419028.D
Lims ID: mrl qccl
Client ID:
Inject. Date: 19-Apr-2013 20:51:30
Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019044-028
Misc. Info.: MRL QCCL
Operator: 001710
Instrument ID: A4HP10
Injection Vol: 1.0 ul
ALS Bottle#: 28
Lims Batch ID: 82653
Lims Sample ID: 28
Detector: MS SCAN

Method: \\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m
Last Update: 22-Apr-2013 13:55:53
Calib Date: 12-Apr-2013 00:58:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: 5% phenyl
Column Dia: 0.18 mm
Process Host: XAWRK022

First Level Reviewer: gruberj
Date: 22-Apr-2013 09:29:00

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.848	5.848	0.0	98	206637	4.00	
* 2 Naphthalene-d8	136	6.971	6.970	0.001	99	821770	4.00	
* 3 Acenaphthene-d10	164	8.475	8.475	0.0	93	499497	4.00	
* 4 Phenanthrene-d10	188	9.738	9.738	0.0	98	831601	4.00	
* 5 Chrysene-d12	240	12.294	12.294	0.0	82	944701	4.00	
* 6 Perylene-d12	264	14.374	14.368	0.006	97	711000	4.00	
$ 7 2-Fluorophenol	112	4.573	4.573	0.0	92	318863	5.33	
$ 8 Phenol-d5	99	5.490	5.490	0.0	94	421088	5.28	
$ 9 Nitrobenzene-d5	82	6.336	6.336	0.0	87	372931	4.85	
$ 10 2-Fluorobiphenyl (Surr)	172	7.887	7.887	0.0	99	721353	4.48	
$ 11 2,4,6-Tribromophenol	330	9.139	9.144	-0.005	85	85839	4.70	
$ 12 Terphenyl-d14	244	11.101	11.101	0.0	99	820908	4.42	
245 Total Cresols	1		0.000					
239 3-isopropylphenol TIC	1		0.000					
244 n-Octadecane	57		0.000					
13 Dimethylformamide	1		0.000					
23 Bis(4-hydroxyphenyl)methane	1		0.000					
18 Octachlorostyrene	1		0.000					
24 Bis(2-hydroxyphenyl)methane	1		0.000					
21 2,5-Dichlorophenol	1		0.000					
243 n-Decane	57		0.000					
242 3-(1,1-Dimethylethyl Phenol) TIC	1		0.000					
250 2,3,7,8-TCDD TIC	1		0.000					
249 4-Chlorophenol TIC	1		0.000					
16 2,3-Dichlorophenol	1		0.000					
20 Octachlorocyclopentene	1		0.000					
236 4-isopropylphenol TIC	1		0.000					
247 Hexadecane	57		0.000					
234 2-Isopropylphenol TIC	1		0.000					
25 1,4-Dioxane	88	2.299	2.305	-0.006	92	134655	4.64	M

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
32 Malononitrile	66		2.451					
233 n,n'-Dimethylacetamide	44		2.478					
35 3-Picoline	93		2.622					
26 N-Nitrosodimethylamine	74	2.752	2.746	0.006	82	186908	5.43	M
27 Pyridine	79	2.805	2.799	0.006	94	330668	5.18	M
40 4-Methylcyclohexanone	55	3.140	3.221	-0.081	1	1302	0	
38 2-Methylcyclohexanone	68	3.146	3.221	-0.075	1	289	0	
39 3-Methylcyclohexanone	69	3.128	3.221	-0.093	22	761	0	
232 1-Methyl-2-pyrrilidinone	99	3.310	3.351	-0.041	0	129	0	
30 2-Picoline	93		4.091					
67 1,3,5-Trichlorobenzene	180		4.145					
14 Catechol	110		4.161					14
31 N-Nitrosomethylethylamine	88		4.226					9
22 3-Methylcatechol	124		4.460					149
34 Acrylamide	71	4.491	4.497	-0.006	8	184	0	
79 1,2,3-Trichlorobenzene	180		4.535					
33 Methyl methanesulfonate	80		4.550					9
17 4-Methylcatechol	124		4.583					149
36 N-Nitrosodiethylamine	102		4.955					
90 1,2,3,5-Tetrachlorobenzene	216		5.031					
97 2,4-Toluene diamine	121		5.234					
37 Ethyl methanesulfonate	79		5.237					
99 1,2,3,4 -Tetrachlorobenzene	216		5.250					
41 Benzaldehyde	77	5.449	5.449	0.0	92	565487	10.1	
43 Phenol	94	5.502	5.502	0.0	99	406499	5.19	
42 Phenylmercaptan	110		5.539					9
44 Aniline	93	5.543	5.543	0.0	97	504750	5.23	
108 1,2-Dinitrobenzene	168		5.550					
45 Bis(2-chloroethyl)ether	93	5.602	5.601	0.001	97	309281	5.10	
47 2-Chlorophenol	128	5.649	5.648	0.001	97	331725	5.25	
46 Pentachloroethane	167		5.701					9
48 1,3-Dichlorobenzene	146	5.795	5.795	0.0	97	363085	5.31	
49 1,4-Dichlorobenzene	146	5.860	5.866	-0.006	92	373523	5.36	
50 Benzyl alcohol	108	5.960	5.960	0.0	89	209380	5.22	
51 1,2-Dichlorobenzene	146	6.001	6.001	0.0	95	343722	5.17	
52 2-Methylphenol	108	6.054	6.054	0.0	97	296803	5.20	
53 Indene	115	6.077	6.077	0.0	71	1200409	10.2	
54 2,2'-oxybis[1-chloropropane]	45	6.083	6.083	0.0	90	426933	4.60	
127 Tributyl phosphate	99		6.089					9
56 3 & 4 Methylphenol	108	6.183	6.183	0.0	95	307279	5.17	
57 N-Nitrosodi-n-propylamine	70	6.195	6.195	0.0	91	214933	5.05	
58 Acetophenone	105	6.201	6.201	0.0	93	451088	5.09	
55 N-Nitrosopyrrolidine	100		6.277					
61 Hexachloroethane	117	6.301	6.307	-0.006	96	110757	4.11	
59 N-Nitrosomorpholine	56		6.312					
60 2-Toluidine	106		6.330					
62 Nitrobenzene	77	6.354	6.354	0.0	85	345008	4.94	
64 Isophorone	82	6.559	6.559	0.0	97	632795	5.05	
63 N-Nitrosopiperidine	114		6.582					
66 2-Nitrophenol	139	6.630	6.636	-0.006	97	163778	4.91	
65 2,4-Dimethylphenol	107	6.653	6.653	0.0	89	304208	4.75	
70 Benzoic acid	122	6.694	6.712	-0.018	85	260363	8.00	M

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
69 Bis(2-chloroethoxy)methane	93	6.741	6.741	0.0	95	379621	5.14	
68 o,o',o''-Triethylphosphorothioat	198		6.800					
72 2,4-Dichlorophenol	162	6.835	6.835	0.0	96	273739	5.20	
71 alpha,alpha-Dimethyl phenethylam	58		6.906					9
73 1,2,4-Trichlorobenzene	180	6.918	6.918	0.0	90	302014	4.90	
74 Naphthalene	128	6.988	6.988	0.0	96	933575	4.90	
75 4-Chloroaniline	127	7.023	7.023	0.0	94	408005	5.14	
78 Hexachlorobutadiene	225	7.088	7.088	0.0	93	171900	4.56	
76 2,6-Dichlorophenol	162		7.123					
77 Hexachloropropene	213		7.158					9
80 Benzothiazole	135		7.243					9
83 Caprolactam	113	7.311	7.317	-0.006	75	203339	11.3	
81 Quinoline	129		7.364					9
82 N-Nitrosodi-n-butylamine	84		7.387					
84 p-Phenylene diamine	108		7.411					9
85 4-Chloro-3-methylphenol	107	7.423	7.423	0.0	96	276689	4.92	
87 2-Methylnaphthalene	142	7.582	7.582	0.0	88	628650	4.90	
86 Safrole, Total	162		7.587					
88 1-Methylnaphthalene	142	7.664	7.670	-0.006	83	587968	4.89	
89 Hexachlorocyclopentadiene	237	7.711	7.711	0.0	84	17918	0.4519	
92 1,2,4,5-Tetrachlorobenzene	216	7.723	7.723	0.0	94	303647	4.58	
93 2,4,6-Trichlorophenol	196	7.811	7.811	0.0	94	204930	4.97	
95 Isosafrole Peak 1	162		7.834					
94 2,4,5-Trichlorophenol	196	7.846	7.846	0.0	95	212907	4.98	
96 3,4-Dichloronitrobenzene	109		7.967					
98 1,1'-Biphenyl	154	7.975	7.975	0.0	95	743591	4.60	
100 2-Chloronaphthalene	162	7.999	7.999	0.0	96	611801	4.98	
91 Isosafrole Peak 2	162		8.028					
102 2-Nitroaniline	65	8.075	8.075	0.0	84	185359	4.90	
101 Phenyl ether	170	8.058	8.089	-0.031	60	2984	0	
246 1-Chloronaphthalene	162	8.016	8.116	-0.100	0	1445	0	
105 Dimethyl phthalate	163	8.216	8.216	0.0	98	682867	4.89	
103 1,4-Naphthoquinone	158		8.239					9
106 1,3-Dinitrobenzene	168	8.251	8.251	0.0	89	107014	4.97	
107 2,6-Dinitrotoluene	165	8.275	8.275	0.0	93	157529	5.16	
104 1,4-Dinitrobenzene	168		8.280					
109 Acenaphthylene	152	8.357	8.357	0.0	92	949666	4.85	
110 3-Nitroaniline	138	8.422	8.422	0.0	96	174317	4.87	
112 Acenaphthene	153	8.498	8.504	-0.006	95	600724	4.42	
111 2,4-Dinitrophenol	184	8.504	8.510	-0.006	69	61759	4.03	
113 4-Nitrophenol	109	8.539	8.539	0.0	92	188861	9.34	
114 2,4-Dinitrotoluene	165	8.616	8.616	0.0	90	200562	4.60	
116 Dibenzofuran	168	8.645	8.645	0.0	88	858280	4.68	
174 3,3'-Dimethoxybenzidine	244		8.648					
115 Pentachlorobenzene	250		8.704					
119 2,3,4,6-Tetrachlorophenol	232	8.739	8.739	0.0	73	171207	4.59	
117 2,3,5,6-Tetrachlorophenol	232	8.739	8.798	-0.059	87	171207	4.22	
118 1-Naphthylamine	143		8.803					9
121 Diethyl phthalate	149	8.810	8.815	-0.005	97	683562	4.74	
120 2-Naphthylamine	143		8.874					9
123 4-Chlorophenyl phenyl ether	204	8.927	8.927	0.0	90	343987	4.39	
126 Fluorene	166	8.939	8.939	0.0	82	714666	4.80	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
125 4-Nitroaniline	138	8.939	8.939	0.0	61	188532	5.52	
128 4,6-Dinitro-2-methylphenol	198	8.962	8.962	0.0	84	142201	5.67	
122 Thionazin	97		8.974					
129 N-Nitrosodiphenylamine	169	9.021	9.027	-0.006	86	1072806	10.9	
124 N-Nitro-o-toluidine	152		9.033					
132 Azobenzene	77	9.062	9.062	0.0	99	736958	5.58	
131 1,2-Diphenylhydrazine	77	9.062	9.062	0.0	95	735560	5.57	
130 Diphenylamine	169	9.021	9.115	-0.094	93	1072806	9.29	
133 Sulfotepp	202		9.232					
134 1,3,5-Trinitrobenzene	213		9.315					9
139 4-Bromophenyl phenyl ether	248	9.344	9.344	0.0	68	183608	4.95	
135 Diallate Peak 1	86		9.356					
136 Phenacetin	108		9.362					9
137 Phorate	121		9.367					9
141 Hexachlorobenzene	284	9.403	9.403	0.0	87	194987	5.19	
138 Diallate Peak 2	86		9.438					
142 Atrazine	200	9.462	9.462	0.0	94	415935	11.2	
140 Dimethoate	87		9.514					
144 Pentachlorophenol	266	9.568	9.567	0.001	86	230145	8.80	
143 4-Aminobiphenyl	169		9.661					
146 Pentachloronitrobenzene	237		9.673					9
145 Pronamide	173		9.691					9
149 Phenanthrene	178	9.761	9.761	0.0	96	1006818	5.22	
148 Dinoseb	211		9.802					9
150 Anthracene	178	9.803	9.803	0.001	98	1047977	5.47	
147 Disulfoton	88		9.808					9
152 Carbazole	167	9.932	9.932	0.0	82	965244	5.46	
151 DFTPP								
153 Methyl parathion	109		10.131					
154 Diphenylsulfone	125		10.147					9
155 Di-n-butyl phthalate	149	10.196	10.196	0.0	100	1194181	5.53	
156 Ethyl Parathion	97		10.454					
157 4-Nitroquinoline-1-oxide	190		10.507					
158 Methapyrilene	58		10.554					
159 Isodrin	66		10.748					9
160 Fluoranthene	202	10.772	10.772	0.0	98	1140576	5.01	
161 Benzidine	184	10.872	10.872	0.0	98	1120738	11.4	
162 Pyrene	202	10.984	10.984	0.0	96	1174974	4.82	
168 4,4'-DDE	246		11.036					
29 3-Chloropropionitrile	54		11.148					9
163 Aramite Peak 1	185		11.171					
164 Aramite Peak 2	185		11.242					
165 p-Dimethylamino azobenzene	225		11.353					
167 4,4'-DDD	235		11.371					
166 Chlorobenzilate	139		11.389					9
28 Ethyl methacrylate	69		11.477					
170 Butyl benzyl phthalate	149	11.583	11.583	0.0	97	526860	5.67	
172 4,4'-DDT	235		11.700					9
171 3,3'-Dimethylbenzidine	212		11.712					
173 2-Acetylaminofluorene	181		12.006					
169 Famphur	218		12.223					9
177 3,3'-Dichlorobenzidine	252	12.229	12.229	0.0	63	794723	10.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
175 Bis(2-ethylhexyl) phthalate	149	12.259	12.258	0.001	96	747891	5.72	
179 Benzo[a]anthracene	228	12.282	12.282	0.0	85	1096492	4.66	
178 Hexabromobenzene	232	12.323	12.319	0.004	1	789	0	
180 Chrysene	228	12.329	12.329	0.0	93	1002839	4.65	
176 4,4'-Methylene bis(2-chloroanili	231		12.382					9
181 6-Methylchrysene	242		13.104					
182 Di-n-octyl phthalate	149	13.175	13.175	0.0	99	1206405	5.65	
184 Benzo[b]fluoranthene	252	13.786	13.786	0.0	86	988778	5.18	
185 Benzo[k]fluoranthene	252	13.827	13.827	0.0	85	1040674	5.01	
183 7,12-Dimethylbenz(a)anthracene	256		13.962					
186 Benzo[a]pyrene	252	14.286	14.286	0.0	76	932906	5.27	
187 3-Methylcholanthrene	268		15.037					9
188 Dibenz[a,j]acridine	279		15.657					
189 Dibenz[a,h]acridine	279		15.895					
190 Indeno[1,2,3-cd]pyrene	276	16.031	16.031	0.0	98	913845	4.70	
191 Dibenz(a,h)anthracene	278	16.066	16.066	0.0	90	757888	4.68	
192 Benzo[g,h,i]perylene	276	16.477	16.477	0.0	90	729115	4.40	
S 193 Methyl Phenols,Total	100				0		10.4	
S 194 Isosafrole	162		5.161					7
S 195 Diallate	86		6.289					7
S 196 Aramite, Total	185		7.806					7
T 197 Decane TIC	57	5.690	0.0	5.690	97	344629	0	
T 198 Hydroquinone TIC	110		0.000					1
T 238 Trimethyl phosphate TIC	110	4.567	4.000	0.567	0	557	0	
T 200 Hexamethylphosphoramide TIC	135	7.211	7.200	0.011	33	1634	0	
T 248 2,3,7,8 TCDF TIC	322		8.600					1
T 202 Hexachlorophene TIC	198		8.600					1
T 201 Kepone TIC	272		8.600					
T 19 2,3,7,8-TCDD	320	8.398	8.800	-0.402	1	82	0	
T 199 Octadecane (TIC)	254	9.597	9.600	-0.003	98	432986	0	
T 241 Triphenyl Phosphate TIC	326	12.476	12.250	0.226	0	97	0	
T 240 Tricresyl phosphate TIC	368	12.717	12.750	-0.033	0	150	0	
T 237 Tris(2,3-dibromopropyl)phosphate	201	14.474	14.500	-0.026	0	403	0	

QC Flag Legend

Processing Flags
1 - Missing Peaks
4 - Failed Signal Ratio Test
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

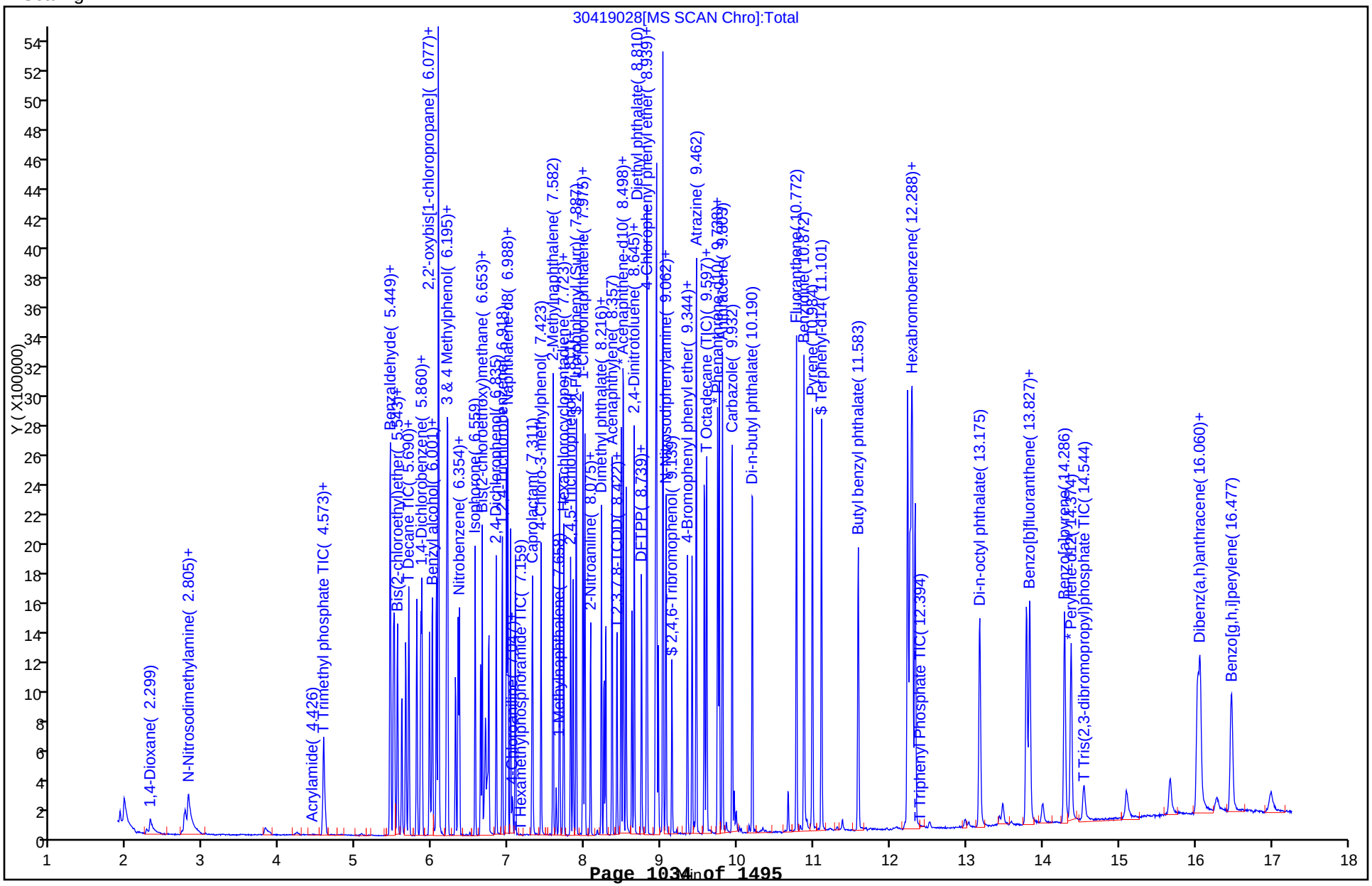
Report Date: 22-Apr-2013 14:33:48 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419028.D

Injection Date:	19-Apr-2013 20:51:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	28
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

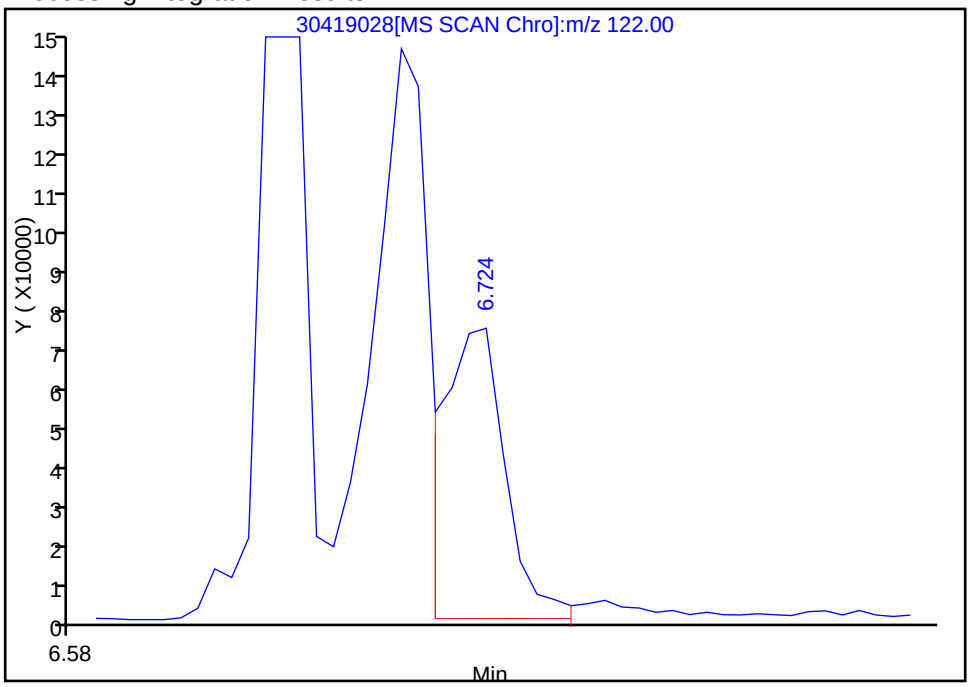
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419028.D		
Injection Date:	19-Apr-2013 20:51:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	28
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

70 Benzoic acid, Signal: 1, m/z: 122.0 Type: quant, RT: 6.71

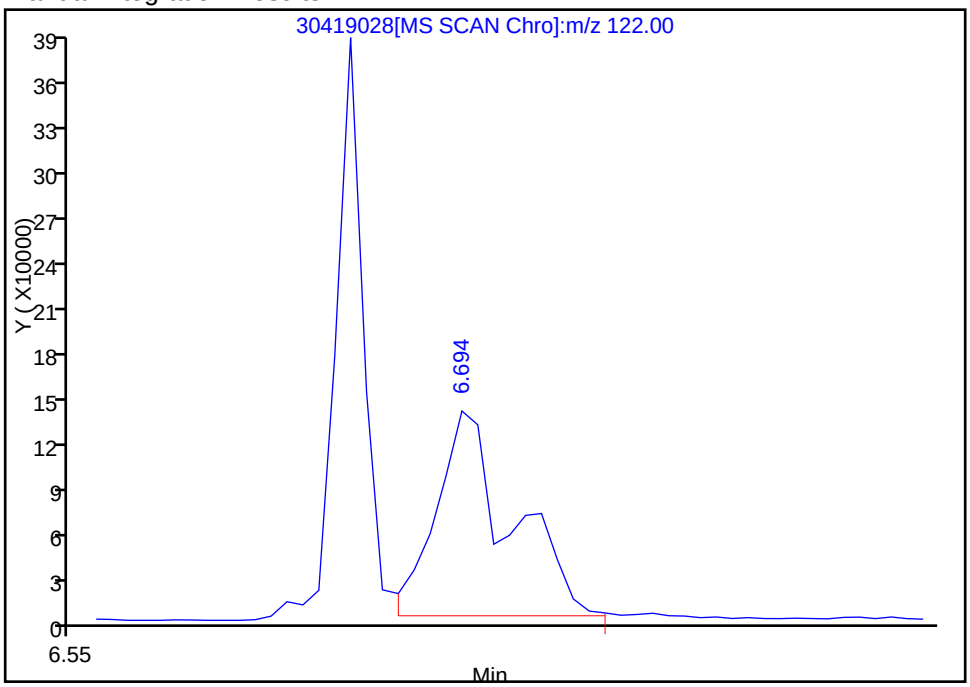
Processing Integration Results

RT: 6.72
Response: 109918
Amount: 3.749327



Manual Integration Results

RT: 6.69
Response: 260363
Amount: 8.003573



Reviewer: gruberj, 22-Apr-2013 09:29:00
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-83588/3

Matrix: Solid | Lab File ID: 30425103.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/25/2013 16:06

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 83588 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	5.03		0.00020	0.00010	0.00010
208-96-8	Acenaphthylene	5.15		0.00020	0.00010	0.00010
120-12-7	Anthracene	5.23		0.00020	0.00010	0.00010
56-55-3	Benzo[a]anthracene	5.11		0.00020	0.00010	0.00010
50-32-8	Benzo[a]pyrene	5.13		0.00020	0.00010	0.00010
205-99-2	Benzo[b]fluoranthene	5.40		0.00020	0.00010	0.00010
191-24-2	Benzo[g,h,i]perylene	5.71		0.00020	0.00010	0.00010
65-85-0	Benzoic acid	9.39	M	0.025	0.010	0.010
207-08-9	Benzo[k]fluoranthene	4.96		0.00020	0.00010	0.00010
100-51-6	Benzyl alcohol	5.49		0.0050	0.00080	0.00038
111-91-1	Bis(2-chloroethoxy)methane	5.29		0.0010	0.00080	0.00032
111-44-4	Bis(2-chloroethyl)ether	5.36		0.0010	0.00010	0.00010
108-60-1	bis (2-chloroisopropyl) ether	5.50		1.0	0.00080	0.00040
117-81-7	Bis(2-ethylhexyl) phthalate	5.65		0.0020	0.00080	0.00080
101-55-3	4-Bromophenyl phenyl ether	4.78		0.0020	0.00080	0.00080
85-68-7	Butyl benzyl phthalate	5.55		0.0020	0.00080	0.00080
86-74-8	Carbazole	5.07		0.0010	0.00080	0.00028
106-47-8	4-Chloroaniline	5.21		0.0020	0.00080	0.00080
59-50-7	4-Chloro-3-methylphenol	5.00		0.0020	0.00080	0.00080
91-58-7	2-Chloronaphthalene	5.29		0.0010	0.00010	0.00010
95-57-8	2-Chlorophenol	5.35		0.0010	0.00080	0.00029
7005-72-3	4-Chlorophenyl phenyl ether	4.89		0.0020	0.00080	0.00030
218-01-9	Chrysene	5.02		0.00020	0.00010	0.00010
53-70-3	Dibenz(a,h)anthracene	5.67		0.00020	0.00010	0.00010
132-64-9	Dibenzofuran	4.92		0.0010	0.00010	0.00010
95-50-1	1,2-Dichlorobenzene	5.32		0.0010	0.00080	0.00029
541-73-1	1,3-Dichlorobenzene	5.31		0.0010	0.00080	0.00080
106-46-7	1,4-Dichlorobenzene	5.19		0.0010	0.00080	0.00034
91-94-1	3,3'-Dichlorobenzidine	10.9		0.0050	0.00080	0.00037
120-83-2	2,4-Dichlorophenol	5.20		0.0020	0.00080	0.00080
84-66-2	Diethyl phthalate	5.27		0.0020	0.00080	0.00060
105-67-9	2,4-Dimethylphenol	5.15		0.0020	0.00080	0.00080
131-11-3	Dimethyl phthalate	5.17		0.0020	0.00080	0.00029
84-74-2	Di-n-butyl phthalate	5.13		0.0020	0.00080	0.00067

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-83588/3

Matrix: Solid | Lab File ID: 30425103.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/25/2013 16:06

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 83588 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	9.10		0.0050	0.0024	0.0024
51-28-5	2,4-Dinitrophenol	10.4		0.0050	0.0024	0.0024
121-14-2	2,4-Dinitrotoluene	5.35		0.0050	0.00080	0.00027
606-20-2	2,6-Dinitrotoluene	5.40		0.0050	0.00080	0.00080
117-84-0	Di-n-octyl phthalate	4.86		0.0020	0.00080	0.00080
206-44-0	Fluoranthene	4.95		0.00020	0.00010	0.00010
86-73-7	Fluorene	4.94		0.00020	0.00010	0.00010
118-74-1	Hexachlorobenzene	4.48		0.00020	0.00010	0.00010
87-68-3	Hexachlorobutadiene	4.90		0.0010	0.00080	0.00027
77-47-4	Hexachlorocyclopentadiene	5.12		0.010	0.00080	0.00080
67-72-1	Hexachloroethane	5.25		0.0010	0.00080	0.00080
193-39-5	Indeno[1,2,3-cd]pyrene	5.54		0.00020	0.00010	0.00010
78-59-1	Isophorone	5.23		0.0010	0.00080	0.00027
91-57-6	2-Methylnaphthalene	4.83		0.00020	0.00010	0.00010
95-48-7	2-Methylphenol	5.44		0.0010	0.00080	0.00080
15831-10-4	3 & 4 Methylphenol	5.51		0.0020	0.00080	0.00080
91-20-3	Naphthalene	4.96		0.00020	0.00010	0.00010
88-74-4	2-Nitroaniline	5.68		0.0020	0.00080	0.00080
99-09-2	3-Nitroaniline	6.00		0.0020	0.00080	0.00028
100-01-6	4-Nitroaniline	4.85		0.0020	0.00080	0.00080
98-95-3	Nitrobenzene	5.12		0.0010	0.00010	0.000040
88-75-5	2-Nitrophenol	5.26		0.0020	0.00080	0.00028
100-02-7	4-Nitrophenol	10.6		0.0050	0.0024	0.0024
621-64-7	N-Nitrosodi-n-propylamine	5.35		0.0010	0.00080	0.00080
86-30-6	N-Nitrosodiphenylamine	9.67		0.0010	0.00080	0.00031
87-86-5	Pentachlorophenol	8.70		0.0050	0.0024	0.0024
85-01-8	Phenanthrene	4.95		0.00020	0.00010	0.00010
108-95-2	Phenol	5.41		0.0010	0.00080	0.00060
129-00-0	Pyrene	5.55		0.00020	0.00010	0.00010
120-82-1	1,2,4-Trichlorobenzene	4.94		0.0010	0.00080	0.00028
95-95-4	2,4,5-Trichlorophenol	5.39		0.0050	0.00080	0.00030
88-06-2	2,4,6-Trichlorophenol	5.33		0.0050	0.00080	0.00080

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-83588/3

Matrix: Solid | Lab File ID: 30425103.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/25/2013 16:06

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 83588 | Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	101		50-150
367-12-4	2-Fluorophenol (Surr)	105		50-150
4165-60-0	Nitrobenzene-d5 (Surr)	100		50-150
4165-62-2	Phenol-d5 (Surr)	107	Q	50-150
1718-51-0	Terphenyl-d14 (Surr)	99		50-150
118-79-6	2,4,6-Tribromophenol (Surr)	105		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425103.D
Lims ID: mrl qc
Client ID:
Inject. Date: 25-Apr-2013 16:06:30
Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019269-003
Misc. Info.: MRL QC =MRL QC
Operator: 001574
Instrument ID: A4HP9
Injection Vol: 1.0 ul
ALS Bottle#: 3
Lims Batch ID: 83588
Lims Sample ID: 3
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\8270 _9.m
Last Update: 26-Apr-2013 09:38:09
Calib Date: 19-Apr-2013 14:12:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419110.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: 5% phenyl
Column Dia: 0.18 mm
Process Host: XAWRK003

First Level Reviewer: ulmanm
Date: 26-Apr-2013 09:22:56

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.685	6.686	-0.001	92	220389	4.00	
* 2 Naphthalene-d8	136	7.796	7.797	-0.001	99	946949	4.00	
* 3 Acenaphthene-d10	164	9.296	9.297	-0.001	77	490868	4.00	
* 4 Phenanthrene-d10	188	10.566	10.567	-0.001	96	843877	4.00	
* 5 Chrysene-d12	240	12.917	12.918	-0.001	85	1049362	4.00	
* 6 Perylene-d12	264	14.918	14.923	-0.005	93	853509	4.00	
$ 7 2-Fluorophenol	112	5.459	5.460	-0.001	93	471487	5.26	
$ 8 Phenol-d5	99	6.310	6.311	-0.001	94	644375	5.36	
$ 9 Nitrobenzene-d5	82	7.156	7.157	-0.001	85	699926	5.01	
$ 10 2-Fluorobiphenyl (Surr)	172	8.686	8.686	0.0	99	736179	5.04	
$ 11 2,4,6-Tribromophenol	330	9.960	9.965	-0.005	83	83294	5.25	
$ 12 Terphenyl-d14	244	11.874	11.879	-0.005	97	934568	4.97	
248 2,3,7,8 TCDF TIC	1		0.000					
249 4-Chlorophenol TIC	1		0.000					
22 Bis(2-hydroxyphenyl)methane	1		0.000					
244 n-Octadecane	57		0.000					
16 2,3-Dichlorophenol	1		0.000					
13 Octachlorocyclopentene	1		0.000					
247 Hexadecane	57		0.000					
243 n-Decane	57		0.000					
19 Octachlorostyrene	1		0.000					
23 2,5-Dichlorophenol	1		0.000					
18 Bis(4-hydroxyphenyl)methane	1		0.000					
20 Dimethylformamide	73		1.920					
28 Ethyl methacrylate	69		1.926					
29 3-Chloropropionitrile	54		2.118					
31 2-Picoline	93		2.224					
32 N-Nitrosomethylethylamine	88		2.288					
33 Malononitrile	66		2.300					
30 3-Picoline	93		2.454					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
233 n,n'-Dimethylacetamide	44		2.465					
35 Acrylamide	71		2.475					
34 Methyl methanesulfonate	80		2.485					
36 N-Nitrosodiethylamine	102		2.763					
37 Ethyl methanesulfonate	79		2.961					
38 2-Methylcyclohexanone	68	3.131	3.047	0.084	7	288	0	
39 3-Methylcyclohexanone	69	3.117	3.079	0.038	1	361	0	
40 4-Methylcyclohexanone	55	3.155	3.117	0.038	1	3260	0	
25 1,4-Dioxane	88	3.175	3.161	0.014	95	220882	4.91	
45 Pentachloroethane	167		3.340					
232 1-Methyl-2-pyrrilidinone	99	3.574	3.555	0.019	0	61	0	
42 Phenylmercaptan	110		3.596					9
26 N-Nitrosodimethylamine	74	3.747	3.738	0.009	85	400398	5.39	
27 Pyridine	79	3.814	3.810	0.004	92	655061	5.29	
56 N-Nitrosopyrrolidine	100		3.842					
59 N-Nitrosomorpholine	56		3.869					
60 2-Toluidine	106		3.885					
63 N-Nitrosopiperidine	114		4.120					
67 1,3,5-Trichlorobenzene	180		4.164					
68 o,o',o''-Triethylphosphorothioat	198		4.318					
24 Catechol	110		4.410					
72 alpha,alpha-Dimethyl phenethylam	58		4.414					
80 1,2,3-Trichlorobenzene	180		4.602					
77 2,6-Dichlorophenol	162		4.628					
78 Hexachloropropene	213		4.654					
81 Benzothiazole	135		4.698					
15 3-Methylcatechol	124		4.794					9
82 Quinoline	129		4.857					
83 N-Nitrosodi-n-butylamine	84		4.884					
85 p-Phenylene diamine	108		4.905					
14 4-Methylcatechol	124		5.036					
94 Safrole, Total	162		5.066					
90 1,2,3,5-Tetrachlorobenzene	216		5.179					
225 Isosafrole Peak 1	162		5.306					9
97 2,4-Toluene diamine	121		5.419					
99 1,2,3,4 -Tetrachlorobenzene	216		5.425					
96 3,4-Dichloronitrobenzene	109		5.467					
227 Isosafrole Peak 2	162		5.498					9
101 Phenyl ether	170		5.521					
246 1-Chloronaphthalene	162		5.578					9
103 1,4-Naphthoquinone	158		5.701					
104 1,4-Dinitrobenzene	168		5.744					
108 1,2-Dinitrobenzene	168		5.777					
115 Pentachlorobenzene	250		6.161					
118 2,3,5,6-Tetrachlorophenol	232		6.257					
117 1-Naphthylamine	143		6.257					
41 Benzaldehyde	77	6.291	6.292	-0.001	88	1059564	11.1	
120 2-Naphthylamine	143		6.321					
43 Phenol	94	6.320	6.325	-0.005	87	669705	5.41	
44 Aniline	93	6.382	6.383	-0.001	95	860698	5.38	
69 Bis(2-chloroethyl)ether	93	6.411	6.412	-0.001	93	594778	5.36	
122 Thionazin	97		6.433					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
127 Tributyl phosphate	99		6.434					9
124 N-Nitro-o-toluidine	152		6.481					9
46 2-Chlorophenol	128	6.498	6.503	-0.005	89	380522	5.35	
130 Diphenylamine	169		6.567					
47 1,3-Dichlorobenzene	146	6.642	6.643	-0.001	82	395767	5.31	
134 Sulfotepp	202		6.684					
48 1,4-Dichlorobenzene	146	6.700	6.700	0.0	84	398854	5.19	
135 1,3,5-Trinitrobenzene	213		6.775					
49 Benzyl alcohol	108	6.772	6.777	-0.005	85	304772	5.49	
228 Diallate Peak 1	86		6.807					
138 Phorate	121		6.812					9
137 Phenacetin	108		6.818					
50 1,2-Dichlorobenzene	146	6.839	6.840	-0.001	85	379188	5.32	
51 2-Methylphenol	108	6.858	6.859	-0.001	95	427810	5.44	
230 Diallate Peak 2	86		6.882					
53 2,2'-oxybis[1-chloropropane]	45	6.887	6.888	-0.001	93	570484	5.50	
52 Indene	115	6.916	6.917	-0.001	68	1569756	10.8	
140 Dimethoate	87		6.962					9
21 3 & 4 Methylphenol	108	6.983	6.984	-0.001	94	451369	5.51	
57 N-Nitrosodi-n-propylamine	70	6.998	6.998	0.0	74	447864	5.35	
58 Acetophenone	105	7.012	7.013	-0.001	76	685370	5.24	
129 4-Aminobiphenyl	169		7.101					9
145 Pentachloronitrobenzene	237		7.112					
144 Pronamide	173		7.138					
61 Hexachloroethane	117	7.147	7.147	0.0	81	191097	5.25	
62 Nitrobenzene	77	7.171	7.172	-0.001	79	646940	5.12	
147 Dinoseb	211		7.245					
146 Disulfoton	88		7.250					9
64 Isophorone	82	7.368	7.369	-0.001	95	1094239	5.23	
65 2,4-Dimethylphenol	107	7.445	7.446	-0.001	92	456978	5.15	
66 2-Nitrophenol	139	7.450	7.450	0.0	84	197755	5.26	
71 Benzoic acid	122	7.483	7.489	-0.006	58	402312	9.39	M
70 Bis(2-chloroethoxy)methane	93	7.522	7.523	-0.001	96	641021	5.29	
152 Methyl parathion	109		7.566					9
153 Diphenylsulfone	125		7.631					
73 2,4-Dichlorophenol	162	7.652	7.652	0.0	94	302053	5.20	
74 1,2,4-Trichlorobenzene	180	7.733	7.734	-0.001	83	329183	4.94	
75 Naphthalene	128	7.810	7.811	-0.001	99	1137084	4.96	
76 4-Chloroaniline	127	7.825	7.826	-0.001	76	627565	5.21	
155 Ethyl Parathion	97		7.892					9
79 Hexachlorobutadiene	225	7.907	7.907	0.0	91	193095	4.90	
156 4-Nitroquinoline-1-oxide	190		7.934					9
157 Methapyrilene	58		7.982					
84 Caprolactam	113	8.099	8.100	-0.001	81	263484	10.2	
158 Isodrin	66		8.164					9
86 4-Chloro-3-methylphenol	107	8.209	8.210	-0.001	84	395502	5.00	
87 2-Methylnaphthalene	142	8.397	8.398	-0.001	85	697078	4.83	
88 1-Methylnaphthalene	142	8.484	8.484	0.0	80	653779	4.84	
89 Hexachlorocyclopentadiene	237	8.536	8.537	-0.001	93	200685	5.12	
91 1,2,4,5-Tetrachlorobenzene	216	8.541	8.542	-0.001	91	305122	5.41	
226 Aramite Peak 1	185		8.565					
92 2,4,6-Trichlorophenol	196	8.618	8.624	-0.006	90	190375	5.33	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
229 Aramite Peak 2	185		8.629					
93 2,4,5-Trichlorophenol	196	8.657	8.657	0.0	87	196632	5.39	
163 p-Dimethylamino azobenzene	225		8.714					
164 Chlorobenzilate	139		8.746					
98 1,1'-Biphenyl	154	8.777	8.778	-0.001	95	828246	5.06	
100 2-Chloronaphthalene	162	8.815	8.816	-0.001	98	644709	5.29	
102 2-Nitroaniline	65	8.873	8.874	-0.001	72	305430	5.68	
167 Famphur	218		8.949					
169 3,3'-Dimethylbenzidine	212		8.992					
105 Dimethyl phthalate	163	8.993	8.994	-0.001	94	660557	5.17	
106 1,3-Dinitrobenzene	168	9.037	9.037	0.0	80	120369	5.80	
107 2,6-Dinitrotoluene	165	9.056	9.057	-0.001	58	158961	5.40	
109 Acenaphthylene	152	9.176	9.177	-0.001	89	971729	5.15	
171 2-Acetylaminofluorene	181		9.211					
110 3-Nitroaniline	138	9.215	9.215	0.0	87	189972	6.00	
111 2,4-Dinitrophenol	184	9.301	9.302	-0.001	77	173470	10.4	
172 3,3'-Dimethoxybenzidine	244		9.314					
113 4-Nitrophenol	109	9.316	9.316	0.0	87	278676	10.6	
112 Acenaphthene	153	9.325	9.326	-0.001	92	598264	5.03	
176 Hexabromobenzene	232		9.394					
114 2,4-Dinitrotoluene	165	9.407	9.408	-0.001	73	200605	5.35	
174 4,4'-Methylene bis(2-chloroanili	231		9.446					
116 Dibenzofuran	168	9.465	9.465	0.0	86	844136	4.92	
119 2,3,4,6-Tetrachlorophenol	232	9.556	9.557	-0.001	80	152933	5.39	
121 Diethyl phthalate	149	9.585	9.586	-0.001	94	627693	5.27	
123 4-Chlorophenyl phenyl ether	204	9.724	9.725	-0.001	93	329061	4.89	
125 4-Nitroaniline	138	9.734	9.735	-0.001	77	162466	4.85	
126 Fluorene	166	9.758	9.759	-0.001	80	664602	4.94	
128 4,6-Dinitro-2-methylphenol	198	9.763	9.763	0.0	81	254493	9.10	
131 N-Nitrosodiphenylamine	169	9.816	9.816	0.0	99	961540	9.67	
133 Azobenzene	77	9.859	9.860	-0.001	95	1161939	4.74	
132 1,2-Diphenylhydrazine	77	9.859	9.860	-0.001	99	1159535	4.73	
179 6-Methylchrysene	242		9.890					
139 4-Bromophenyl phenyl ether	248	10.147	10.148	-0.001	70	179257	4.78	
142 Atrazine	200	10.229	10.230	-0.001	86	436262	9.84	
141 Hexachlorobenzene	284	10.244	10.244	0.0	71	171233	4.48	
143 Pentachlorophenol	266	10.393	10.393	0.0	83	210339	8.70	
181 7,12-Dimethylbenz(a)anthracene	256		10.418					
148 Phenanthrene	178	10.585	10.586	-0.001	98	1031657	4.95	
149 Anthracene	178	10.628	10.629	-0.001	99	1077371	5.23	
150 DFTPP								
151 Carbazole	167	10.739	10.740	-0.001	84	1016786	5.07	
154 Di-n-butyl phthalate	149	10.960	10.956	0.004	100	1265679	5.13	
185 3-Methylcholanthrene	268		11.188					
159 Fluoranthene	202	11.605	11.605	-0.001	99	1246031	4.95	
160 Benzidine	184	11.662	11.663	-0.001	98	1166341	11.4	
186 Dibenz[a,j]acridine	279		11.740					
161 Pyrene	202	11.806	11.807	-0.001	94	1285881	5.55	
166 4,4'-DDE	246		11.829					9
187 Dibenz[a,h]acridine	279		11.909					
165 4,4'-DDD	235		12.109					9
168 Butyl benzyl phthalate	149	12.244	12.245	-0.001	89	585418	5.55	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
170 4,4'-DDT	235		12.384					
173 Bis(2-ethylhexyl) phthalate	149	12.759	12.759	0.0	94	798425	5.65	
175 3,3'-Dichlorobenzidine	252	12.816	12.822	-0.006	66	871067	10.9	
177 Benzo[a]anthracene	228	12.903	12.904	-0.001	100	1267255	5.11	
178 Chrysene	228	12.946	12.947	-0.001	94	1198927	5.02	
180 Di-n-octyl phthalate	149	13.485	13.485	0.0	99	1346748	4.86	
182 Benzo[b]fluoranthene	252	14.288	14.289	-0.001	91	1191151	5.40	
183 Benzo[k]fluoranthene	252	14.321	14.327	-0.006	96	1242095	4.96	
184 Benzo[a]pyrene	252	14.831	14.832	-0.001	75	1109324	5.13	
188 Indeno[1,2,3-cd]pyrene	276	17.139	17.145	-0.006	93	1215835	5.54	
189 Dibenz(a,h)anthracene	278	17.144	17.155	-0.011	62	1013225	5.67	
190 Benzo[g,h,i]perylene	276	17.842	17.842	0.0	90	1034658	5.71	
S 191 Methyl Phenols,Total	100				0		11.0	
S 245 Total Cresols	100				0		11.0	
S 95 Isosafrole	162		5.568					7
S 136 Diallate	86		6.701					7
S 162 Aramite, Total	185		8.271					7
T 195 Hydroquinone TIC	110		0.000					1
T 240 Trimethyl phosphate TIC	110		3.120					1
T 193 Hexamethylphosphoramide TIC	135		5.100					
T 194 Decane TIC	142		5.800					
T 234 2-Isopropylphenol TIC	121		7.750					
T 236 3-isopropylphenol TIC	121		7.900					
T 235 4-isopropylphenol TIC	121		7.900					
T 237 3-(1,1-Dimethylethyl Phenol) TIC	135		8.300					
T 242 Triphenyl Phosphate TIC	326		8.700					1
T 241 Tricresyl phosphate TIC	368		9.372					1
T 192 Octadecane (TIC)	254		9.600					
T 196 Kepone TIC	272		10.100					
T 239 Tris(2,3-dibromopropyl)phosphate	201		10.600					
T 197 Hexachlorophene TIC	198		13.000					
T 231 2,3,7,8-TCDD	322		13.100					

QC Flag Legend

Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

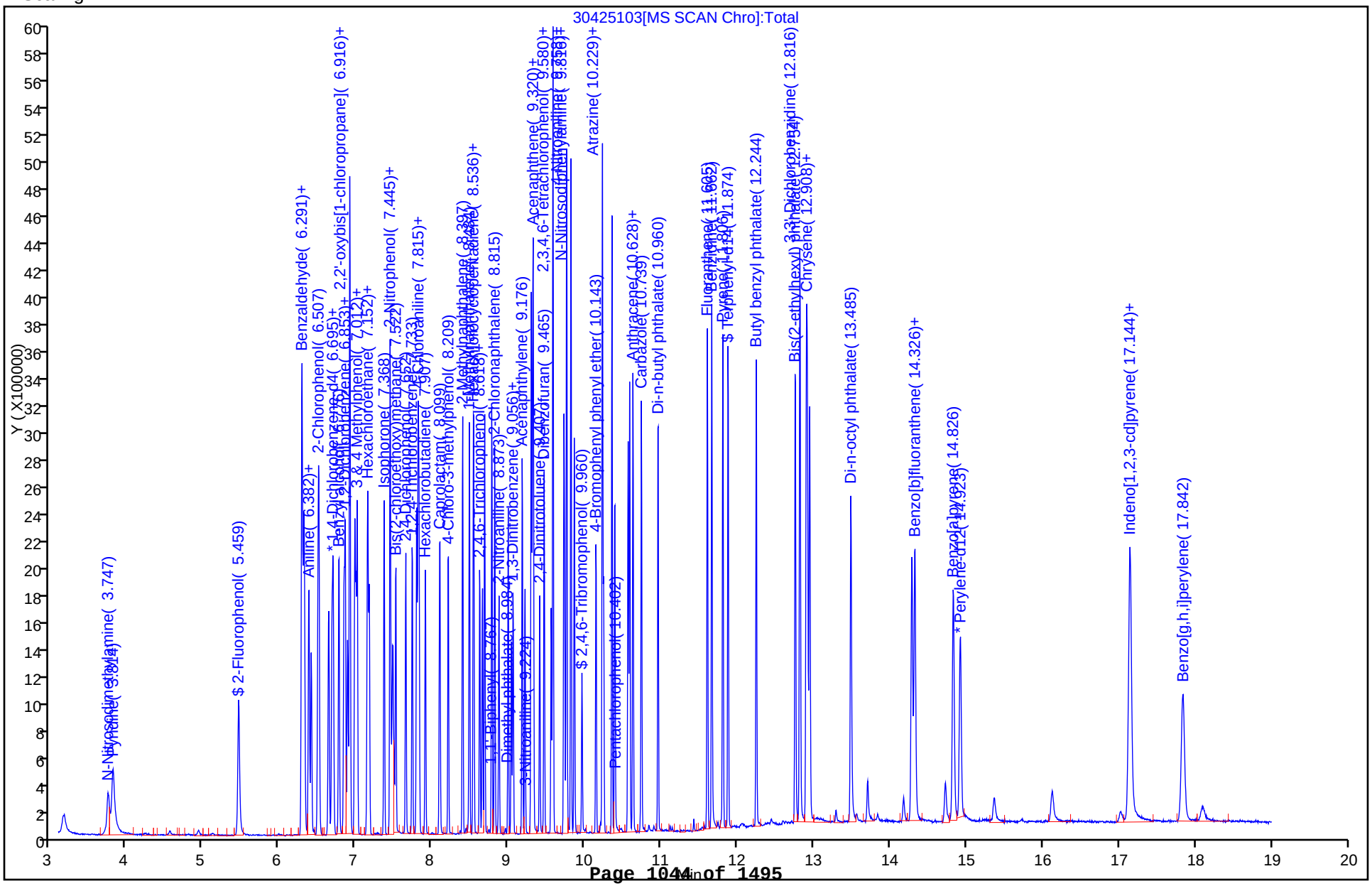
Report Date: 26-Apr-2013 09:38:11 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425103.D

Injection Date:	25-Apr-2013 16:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	83588	Lims Sample ID:	3
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



Report Date: 26-Apr-2013 09:38:11 Chrom Revision: 2.0 01-Apr-2013 21:16:10

Manual Integration/User Assign Peak Report

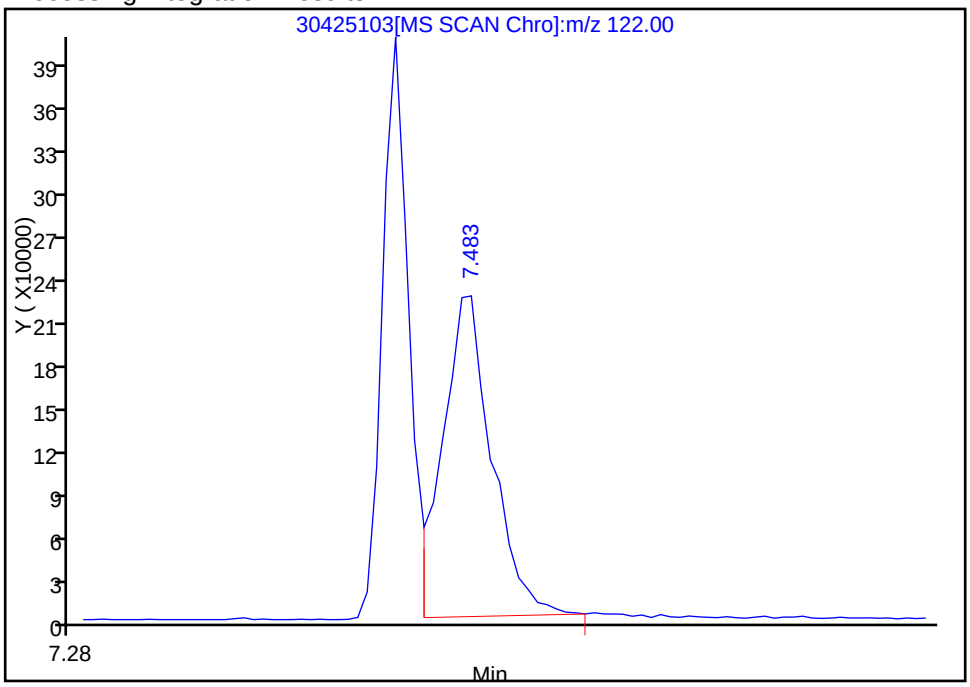
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425103.D		
Injection Date:	25-Apr-2013 16:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	83588	Lims Sample ID:	3
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

71 Benzoic acid, Signal: 1, m/z: 122.0 Type: quant, RT: 7.49

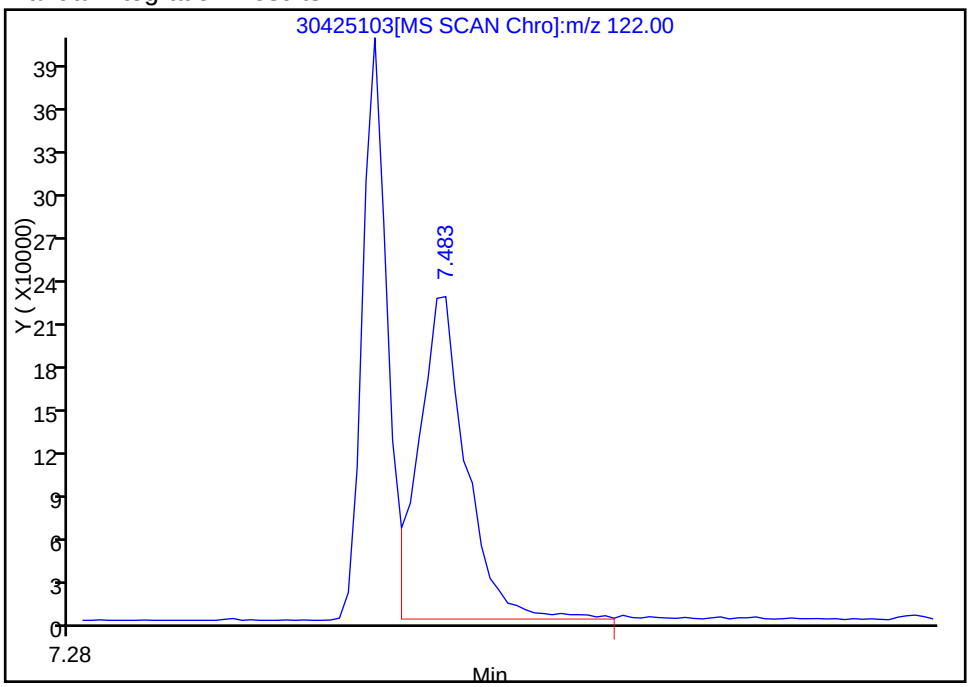
Processing Integration Results

RT: 7.48
Response: 388259
Amount: 9.115206



Manual Integration Results

RT: 7.48
Response: 402312
Amount: 9.393360



Reviewer: ulmanm, 26-Apr-2013 09:22:56
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-83588/12

Matrix: Solid | Lab File ID: 30425112.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/25/2013 20:07

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 83588 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	4.89		0.00020	0.00010	0.00010
208-96-8	Acenaphthylene	5.07		0.00020	0.00010	0.00010
120-12-7	Anthracene	5.09		0.00020	0.00010	0.00010
56-55-3	Benzo[a]anthracene	4.98		0.00020	0.00010	0.00010
50-32-8	Benzo[a]pyrene	4.95		0.00020	0.00010	0.00010
205-99-2	Benzo[b]fluoranthene	5.01		0.00020	0.00010	0.00010
191-24-2	Benzo[g,h,i]perylene	5.51		0.00020	0.00010	0.00010
65-85-0	Benzoic acid	7.82		0.025	0.010	0.010
207-08-9	Benzo[k]fluoranthene	5.02		0.00020	0.00010	0.00010
100-51-6	Benzyl alcohol	5.14		0.0050	0.00080	0.00038
111-91-1	Bis(2-chloroethoxy)methane	5.14		0.0010	0.00080	0.00032
111-44-4	Bis(2-chloroethyl)ether	5.03		0.0010	0.00010	0.00010
108-60-1	bis (2-chloroisopropyl) ether	5.21		1.0	0.00080	0.00040
117-81-7	Bis(2-ethylhexyl) phthalate	5.41		0.0020	0.00080	0.00080
101-55-3	4-Bromophenyl phenyl ether	4.63		0.0020	0.00080	0.00080
85-68-7	Butyl benzyl phthalate	5.33		0.0020	0.00080	0.00080
86-74-8	Carbazole	4.91		0.0010	0.00080	0.00028
106-47-8	4-Chloroaniline	5.00		0.0020	0.00080	0.00080
59-50-7	4-Chloro-3-methylphenol	4.71		0.0020	0.00080	0.00080
91-58-7	2-Chloronaphthalene	5.12		0.0010	0.00010	0.00010
95-57-8	2-Chlorophenol	5.21		0.0010	0.00080	0.00029
7005-72-3	4-Chlorophenyl phenyl ether	4.84		0.0020	0.00080	0.00030
218-01-9	Chrysene	4.98		0.00020	0.00010	0.00010
53-70-3	Dibenz(a,h)anthracene	5.38		0.00020	0.00010	0.00010
132-64-9	Dibenzofuran	4.78		0.0010	0.00010	0.00010
95-50-1	1,2-Dichlorobenzene	5.03		0.0010	0.00080	0.00029
541-73-1	1,3-Dichlorobenzene	5.09		0.0010	0.00080	0.00080
106-46-7	1,4-Dichlorobenzene	5.08		0.0010	0.00080	0.00034
91-94-1	3,3'-Dichlorobenzidine	10.6		0.0050	0.00080	0.00037
120-83-2	2,4-Dichlorophenol	4.84		0.0020	0.00080	0.00080
84-66-2	Diethyl phthalate	5.14		0.0020	0.00080	0.00060
105-67-9	2,4-Dimethylphenol	4.84		0.0020	0.00080	0.00080
131-11-3	Dimethyl phthalate	5.17		0.0020	0.00080	0.00029
84-74-2	Di-n-butyl phthalate	4.92		0.0020	0.00080	0.00067

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-83588/12

Matrix: Solid | Lab File ID: 30425112.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/25/2013 20:07

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 83588 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	8.53		0.0050	0.0024	0.0024
51-28-5	2,4-Dinitrophenol	8.31		0.0050	0.0024	0.0024
121-14-2	2,4-Dinitrotoluene	5.52		0.0050	0.00080	0.00027
606-20-2	2,6-Dinitrotoluene	5.34		0.0050	0.00080	0.00080
117-84-0	Di-n-octyl phthalate	4.57		0.0020	0.00080	0.00080
206-44-0	Fluoranthene	4.80		0.00020	0.00010	0.00010
86-73-7	Fluorene	4.82		0.00020	0.00010	0.00010
118-74-1	Hexachlorobenzene	4.48		0.00020	0.00010	0.00010
87-68-3	Hexachlorobutadiene	4.64		0.0010	0.00080	0.00027
77-47-4	Hexachlorocyclopentadiene	4.84		0.010	0.00080	0.00080
67-72-1	Hexachloroethane	4.98		0.0010	0.00080	0.00080
193-39-5	Indeno[1,2,3-cd]pyrene	5.39		0.00020	0.00010	0.00010
78-59-1	Isophorone	5.02		0.0010	0.00080	0.00027
91-57-6	2-Methylnaphthalene	4.69		0.00020	0.00010	0.00010
95-48-7	2-Methylphenol	5.15		0.0010	0.00080	0.00080
15831-10-4	3 & 4 Methylphenol	5.20		0.0020	0.00080	0.00080
91-20-3	Naphthalene	4.86		0.00020	0.00010	0.00010
88-74-4	2-Nitroaniline	5.42		0.0020	0.00080	0.00080
99-09-2	3-Nitroaniline	5.72		0.0020	0.00080	0.00028
100-01-6	4-Nitroaniline	5.04		0.0020	0.00080	0.00080
98-95-3	Nitrobenzene	4.95		0.0010	0.00010	0.000040
88-75-5	2-Nitrophenol	5.18		0.0020	0.00080	0.00028
100-02-7	4-Nitrophenol	10.4		0.0050	0.0024	0.0024
621-64-7	N-Nitrosodi-n-propylamine	4.99		0.0010	0.00080	0.00080
86-30-6	N-Nitrosodiphenylamine	9.60		0.0010	0.00080	0.00031
87-86-5	Pentachlorophenol	8.45		0.0050	0.0024	0.0024
85-01-8	Phenanthrene	4.89		0.00020	0.00010	0.00010
108-95-2	Phenol	5.18		0.0010	0.00080	0.00060
129-00-0	Pyrene	5.45		0.00020	0.00010	0.00010
120-82-1	1,2,4-Trichlorobenzene	4.89		0.0010	0.00080	0.00028
95-95-4	2,4,5-Trichlorophenol	5.05		0.0050	0.00080	0.00030
88-06-2	2,4,6-Trichlorophenol	5.38		0.0050	0.00080	0.00080

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-83588/12

Matrix: Solid | Lab File ID: 30425112.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/25/2013 20:07

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 83588 | Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	99		50-150
367-12-4	2-Fluorophenol (Surr)	100		50-150
4165-60-0	Nitrobenzene-d5 (Surr)	97		50-150
4165-62-2	Phenol-d5 (Surr)	103	Q	50-150
1718-51-0	Terphenyl-d14 (Surr)	98		50-150
118-79-6	2,4,6-Tribromophenol (Surr)	95		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425112.D
Lims ID: mrl qccl Client ID:
Inject. Date: 25-Apr-2013 20:07:30 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019269-012
Misc. Info.: MRL QCCL =MRL QCCL
Operator: 001574 Instrument ID: A4HP9
Injection Vol: 1.0 ul ALS Bottle#: 12
Lims Batch ID: 83588 Lims Sample ID: 12
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\8270 _9.m
Last Update: 26-Apr-2013 09:38:09 Calib Date: 19-Apr-2013 14:12:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20130419-19052.b\30419110.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: 5% phenyl Column Dia: 0.18 mm
Process Host: XAWRK003

First Level Reviewer: ulmanm Date: 26-Apr-2013 09:37:46

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.682	6.686	-0.004	88	218759	4.00	
* 2 Naphthalene-d8	136	7.793	7.797	-0.004	99	915971	4.00	
* 3 Acenaphthene-d10	164	9.293	9.297	-0.004	88	463306	4.00	
* 4 Phenanthrene-d10	188	10.563	10.567	-0.004	97	795330	4.00	
* 5 Chrysene-d12	240	12.914	12.918	-0.004	80	976118	4.00	
* 6 Perylene-d12	264	14.915	14.923	-0.009	93	789292	4.00	
$ 7 2-Fluorophenol	112	5.460	5.460	0.0	95	444148	5.00	
$ 8 Phenol-d5	99	6.307	6.311	-0.004	90	616252	5.16	
$ 9 Nitrobenzene-d5	82	7.153	7.157	-0.004	86	652148	4.83	
$ 10 2-Fluorobiphenyl (Surr)	172	8.682	8.686	-0.004	99	684230	4.96	
$ 11 2,4,6-Tribromophenol	330	9.961	9.965	-0.004	85	70991	4.74	
$ 12 Terphenyl-d14	244	11.875	11.879	-0.004	98	854037	4.88	
248 2,3,7,8 TCDF TIC	1		0.000					
249 4-Chlorophenol TIC	1		0.000					
22 Bis(2-hydroxyphenyl)methane	1		0.000					
244 n-Octadecane	57		0.000					
16 2,3-Dichlorophenol	1		0.000					
13 Octachlorocyclopentene	1		0.000					
247 Hexadecane	57		0.000					
243 n-Decane	57		0.000					
19 Octachlorostyrene	1		0.000					
23 2,5-Dichlorophenol	1		0.000					
18 Bis(4-hydroxyphenyl)methane	1		0.000					
20 Dimethylformamide	73		1.920					
28 Ethyl methacrylate	69		1.926					
29 3-Chloropropionitrile	54		2.118					
31 2-Picoline	93		2.224					
32 N-Nitrosomethylethylamine	88		2.288					
33 Malononitrile	66		2.300					
30 3-Picoline	93		2.454					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
233 n,n'-Dimethylacetamide	44		2.465					
35 Acrylamide	71		2.475					
34 Methyl methanesulfonate	80		2.485					
36 N-Nitrosodiethylamine	102		2.763					
37 Ethyl methanesulfonate	79		2.961					
38 2-Methylcyclohexanone	68		3.047					
39 3-Methylcyclohexanone	69		3.079					
40 4-Methylcyclohexanone	55		3.117					
25 1,4-Dioxane	88	3.176	3.161	0.015	89	201003	4.51	M
45 Pentachloroethane	167		3.340					
232 1-Methyl-2-pyrrilidinone	99		3.555					
42 Phenylmercaptan	110		3.596					
26 N-Nitrosodimethylamine	74	3.744	3.738	0.006	87	382177	5.19	M
27 Pyridine	79	3.811	3.810	0.001	93	601883	4.89	M
56 N-Nitrosopyrrolidine	100		3.842					
59 N-Nitrosomorpholine	56		3.869					
60 2-Toluidine	106		3.885					9
63 N-Nitrosopiperidine	114		4.120					
67 1,3,5-Trichlorobenzene	180		4.164					
68 o,o',o''-Triethylphosphorothioat	198		4.318					
24 Catechol	110		4.410					
72 alpha,alpha-Dimethyl phenethylam	58		4.414					
80 1,2,3-Trichlorobenzene	180		4.602					
77 2,6-Dichlorophenol	162		4.628					
78 Hexachloropropene	213		4.654					9
81 Benzothiazole	135		4.698					
15 3-Methylcatechol	124		4.794					
82 Quinoline	129		4.857					
83 N-Nitrosodi-n-butylamine	84		4.884					9
85 p-Phenylene diamine	108		4.905					
14 4-Methylcatechol	124		5.036					
94 Safrole, Total	162		5.066					
90 1,2,3,5-Tetrachlorobenzene	216		5.179					
225 Isosafrole Peak 1	162		5.306					9
97 2,4-Toluene diamine	121		5.419					
99 1,2,3,4 -Tetrachlorobenzene	216		5.425					
96 3,4-Dichloronitrobenzene	109		5.467					
227 Isosafrole Peak 2	162		5.498					9
101 Phenyl ether	170		5.521					
246 1-Chloronaphthalene	162		5.578					
103 1,4-Naphthoquinone	158		5.701					
104 1,4-Dinitrobenzene	168		5.744					
108 1,2-Dinitrobenzene	168		5.777					
115 Pentachlorobenzene	250		6.161					
118 2,3,5,6-Tetrachlorophenol	232		6.257					
117 1-Naphthylamine	143		6.257					
41 Benzaldehyde	77	6.288	6.292	-0.004	88	986796	10.4	
120 2-Naphthylamine	143		6.321					
43 Phenol	94	6.321	6.325	-0.004	75	636781	5.18	
44 Aniline	93	6.379	6.383	-0.004	95	832944	5.25	
69 Bis(2-chloroethyl)ether	93	6.408	6.412	-0.004	93	553760	5.03	
122 Thionazin	97		6.433					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
127 Tributyl phosphate	99		6.434					9
124 N-Nitro-o-toluidine	152		6.481					
46 2-Chlorophenol	128	6.499	6.503	-0.004	90	368184	5.21	
130 Diphenylamine	169		6.567					
47 1,3-Dichlorobenzene	146	6.639	6.643	-0.004	88	376849	5.09	
134 Sulfotepp	202		6.684					
48 1,4-Dichlorobenzene	146	6.696	6.700	-0.004	83	387130	5.08	
135 1,3,5-Trinitrobenzene	213		6.775					
49 Benzyl alcohol	108	6.773	6.777	-0.004	84	283260	5.14	
228 Diallate Peak 1	86		6.807					
138 Phorate	121		6.812					9
137 Phenacetin	108		6.818					
50 1,2-Dichlorobenzene	146	6.841	6.840	0.001	85	355908	5.03	
51 2-Methylphenol	108	6.855	6.859	-0.004	95	402134	5.15	
230 Diallate Peak 2	86		6.882					
53 2,2'-oxybis[1-chloropropane]	45	6.884	6.888	-0.004	94	536842	5.21	
52 Indene	115	6.917	6.917	0.0	68	1482694	10.2	
140 Dimethoate	87		6.962					9
21 3 & 4 Methylphenol	108	6.980	6.984	-0.004	94	422668	5.20	
57 N-Nitrosodi-n-propylamine	70	6.994	6.998	-0.004	76	414529	4.99	
58 Acetophenone	105	7.014	7.013	0.001	75	651663	5.02	
129 4-Aminobiphenyl	169		7.101					9
145 Pentachloronitrobenzene	237		7.112					
144 Pronamide	173		7.138					
61 Hexachloroethane	117	7.143	7.147	-0.004	76	179867	4.98	
62 Nitrobenzene	77	7.172	7.172	0.0	80	605754	4.95	
147 Dinoseb	211		7.245					
146 Disulfoton	88		7.250					9
64 Isophorone	82	7.365	7.369	-0.004	96	1015966	5.02	
65 2,4-Dimethylphenol	107	7.442	7.446	-0.004	92	415366	4.84	
66 2-Nitrophenol	139	7.446	7.450	-0.004	79	188261	5.18	
71 Benzoic acid	122	7.475	7.489	-0.014	87	312361	7.82	
70 Bis(2-chloroethoxy)methane	93	7.519	7.523	-0.004	96	601981	5.14	
152 Methyl parathion	109		7.566					9
153 Diphenylsulfone	125		7.631					9
73 2,4-Dichlorophenol	162	7.648	7.652	-0.004	93	272162	4.84	
74 1,2,4-Trichlorobenzene	180	7.735	7.734	0.001	83	314652	4.89	
75 Naphthalene	128	7.812	7.811	0.001	98	1077663	4.86	
76 4-Chloroaniline	127	7.822	7.826	-0.004	72	582088	5.00	
155 Ethyl Parathion	97		7.892					9
79 Hexachlorobutadiene	225	7.908	7.907	0.001	92	177022	4.64	
156 4-Nitroquinoline-1-oxide	190		7.934					9
157 Methapyrilene	58		7.982					
84 Caprolactam	113	8.096	8.100	-0.004	80	250272	10.0	
158 Isodrin	66		8.164					9
86 4-Chloro-3-methylphenol	107	8.206	8.210	-0.004	86	360573	4.71	
87 2-Methylnaphthalene	142	8.394	8.398	-0.004	83	654582	4.69	
88 1-Methylnaphthalene	142	8.480	8.484	-0.004	77	607047	4.65	
89 Hexachlorocyclopentadiene	237	8.533	8.537	-0.004	93	179160	4.84	
91 1,2,4,5-Tetrachlorobenzene	216	8.538	8.542	-0.004	91	283716	5.33	
226 Aramite Peak 1	185		8.565					9
92 2,4,6-Trichlorophenol	196	8.620	8.624	-0.004	88	181482	5.38	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
229 Aramite Peak 2	185		8.629					
93 2,4,5-Trichlorophenol	196	8.653	8.657	-0.004	87	173676	5.05	
163 p-Dimethylamino azobenzene	225		8.714					
164 Chlorobenzilate	139		8.746					9
98 1,1'-Biphenyl	154	8.778	8.778	0.0	95	791858	5.13	
100 2-Chloronaphthalene	162	8.817	8.816	0.001	98	588910	5.12	
102 2-Nitroaniline	65	8.870	8.874	-0.004	71	274802	5.42	
167 Famphur	218		8.949					
169 3,3'-Dimethylbenzidine	212		8.992					
105 Dimethyl phthalate	163	8.990	8.994	-0.004	94	624182	5.17	
106 1,3-Dinitrobenzene	168	9.033	9.037	-0.004	80	107133	5.47	
107 2,6-Dinitrotoluene	165	9.057	9.057	0.0	63	148509	5.34	
109 Acenaphthylene	152	9.178	9.177	0.001	92	903426	5.07	
171 2-Acetylaminofluorene	181		9.211					
110 3-Nitroaniline	138	9.211	9.215	-0.004	87	170928	5.72	
111 2,4-Dinitrophenol	184	9.298	9.302	-0.004	71	125158	8.31	
172 3,3'-Dimethoxybenzidine	244		9.314					
113 4-Nitrophenol	109	9.312	9.316	-0.004	87	257571	10.4	
112 Acenaphthene	153	9.322	9.326	-0.004	91	548875	4.89	
176 Hexabromobenzene	232		9.394					
114 2,4-Dinitrotoluene	165	9.404	9.408	-0.004	79	195188	5.52	
174 4,4'-Methylene bis(2-chloroanili	231		9.446					
116 Dibenzofuran	168	9.461	9.465	-0.004	85	774860	4.78	
119 2,3,4,6-Tetrachlorophenol	232	9.557	9.557	0.0	75	146271	5.46	
121 Diethyl phthalate	149	9.582	9.586	-0.004	95	577818	5.14	
123 4-Chlorophenyl phenyl ether	204	9.721	9.725	-0.004	93	307428	4.84	
125 4-Nitroaniline	138	9.731	9.735	-0.004	76	160379	5.04	
126 Fluorene	166	9.755	9.759	-0.004	80	612121	4.82	
128 4,6-Dinitro-2-methylphenol	198	9.759	9.763	-0.004	80	222881	8.53	
131 N-Nitrosodiphenylamine	169	9.812	9.816	-0.004	99	899409	9.60	
133 Azobenzene	77	9.860	9.860	0.0	95	1074374	4.65	
132 1,2-Diphenylhydrazine	77	9.860	9.860	0.0	99	1074101	4.65	
179 6-Methylchrysene	242		9.890					
139 4-Bromophenyl phenyl ether	248	10.144	10.148	-0.004	73	163377	4.63	
142 Atrazine	200	10.226	10.230	-0.004	84	395358	9.47	
141 Hexachlorobenzene	284	10.240	10.244	-0.004	86	161218	4.48	
143 Pentachlorophenol	266	10.389	10.393	-0.004	79	191887	8.45	
181 7,12-Dimethylbenz(a)anthracene	256		10.418					
148 Phenanthrene	178	10.582	10.586	-0.004	98	959866	4.89	
149 Anthracene	178	10.625	10.629	-0.004	99	987347	5.09	
150 DFTPP								
151 Carbazole	167	10.736	10.740	-0.004	83	927247	4.91	
154 Di-n-butyl phthalate	149	10.957	10.956	0.001	100	1142175	4.92	
185 3-Methylcholanthrene	268		11.188					
159 Fluoranthene	202	11.601	11.605	-0.004	99	1137443	4.80	
160 Benzidine	184	11.659	11.663	-0.004	99	1093346	11.5	
186 Dibenz[a,j]acridine	279		11.740					
161 Pyrene	202	11.803	11.807	-0.004	96	1173370	5.45	
166 4,4'-DDE	246		11.829					9
187 Dibenz[a,h]acridine	279		11.909					
165 4,4'-DDD	235		12.109					
168 Butyl benzyl phthalate	149	12.241	12.245	-0.004	88	523751	5.33	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
170 4,4'-DDT	235		12.384					9
173 Bis(2-ethylhexyl) phthalate	149	12.751	12.759	-0.008	94	711147	5.41	
175 3,3'-Dichlorobenzidine	252	12.813	12.822	-0.009	70	791121	10.6	
177 Benzo[a]anthracene	228	12.900	12.904	-0.004	90	1148505	4.98	
178 Chrysene	228	12.943	12.947	-0.004	93	1106019	4.98	
180 Di-n-octyl phthalate	149	13.481	13.485	-0.004	99	1163939	4.57	
182 Benzo[b]fluoranthene	252	14.280	14.289	-0.009	94	1023023	5.01	
183 Benzo[k]fluoranthene	252	14.318	14.327	-0.009	99	1161259	5.02	
184 Benzo[a]pyrene	252	14.823	14.832	-0.009	76	989738	4.95	
188 Indeno[1,2,3-cd]pyrene	276	17.136	17.145	-0.009	88	1092863	5.39	
189 Dibenz(a,h)anthracene	278	17.136	17.155	-0.019	71	889386	5.38	
190 Benzo[g,h,i]perylene	276	17.829	17.842	-0.013	89	922974	5.51	
S 191 Methyl Phenols,Total	100				0		10.4	
S 245 Total Cresols	100				0		10.4	
S 95 Isosafrole	162		5.568					7
S 136 Diallate	86		6.701					7
S 162 Aramite, Total	185		8.271					7
T 195 Hydroquinone TIC	110		0.000					1
T 240 Trimethyl phosphate TIC	110		3.120					1
T 193 Hexamethylphosphoramide TIC	135		5.100					1
T 194 Decane TIC	142		5.800					
T 234 2-Isopropylphenol TIC	121		7.750					
T 236 3-isopropylphenol TIC	121		7.900					
T 235 4-isopropylphenol TIC	121		7.900					
T 237 3-(1,1-Dimethylethyl Phenol) TIC	135		8.300					
T 242 Triphenyl Phosphate TIC	326		8.700					1
T 241 Tricresyl phosphate TIC	368		9.372					1
T 192 Octadecane (TIC)	254		9.600					
T 196 Kepone TIC	272		10.100					
T 239 Tris(2,3-dibromopropyl)phosphate	201		10.600					
T 197 Hexachlorophene TIC	198		13.000					
T 231 2,3,7,8-TCDD	322		13.100					

QC Flag Legend

Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

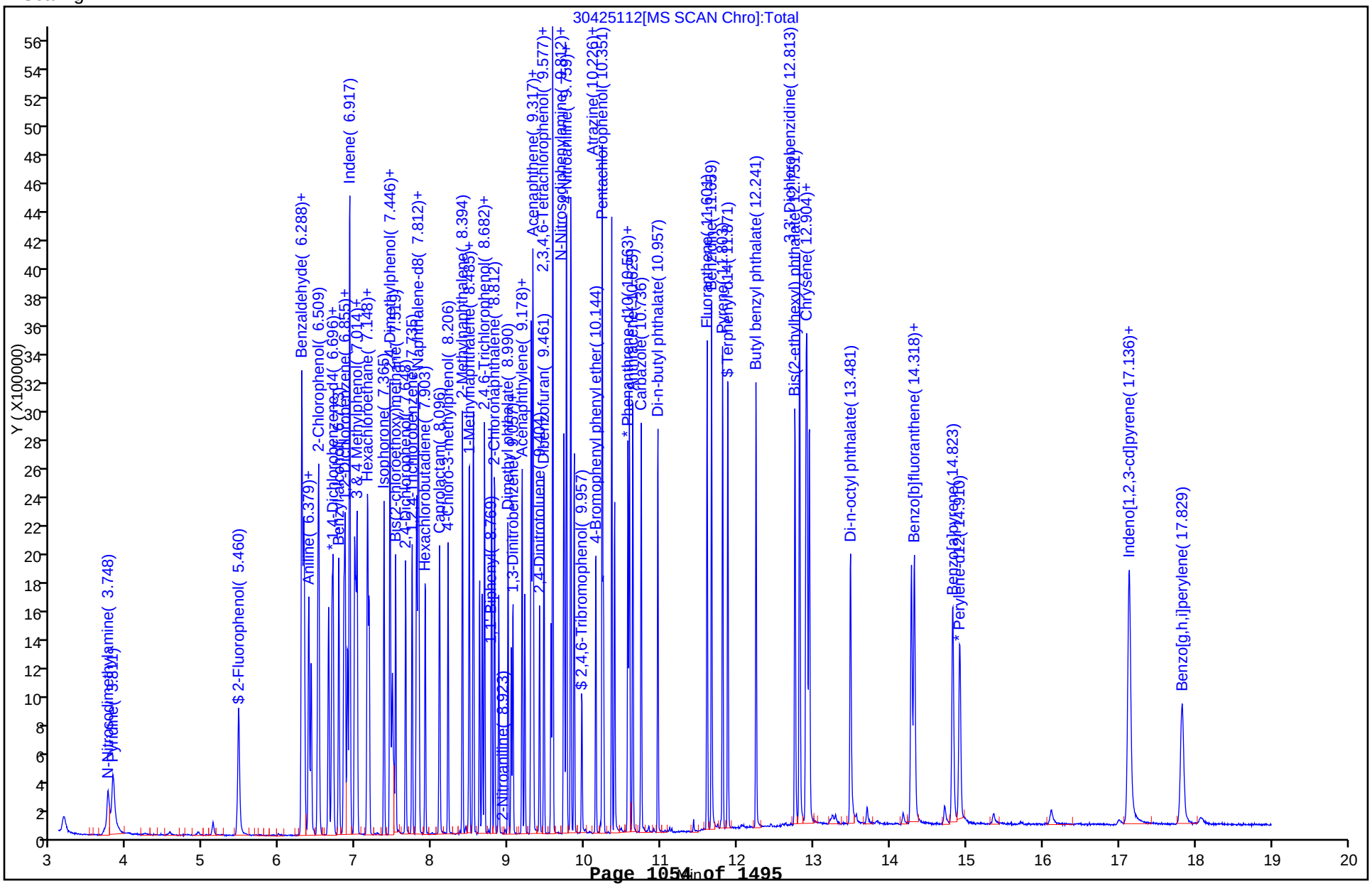
Report Date: 26-Apr-2013 09:38:18 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20130425-19269.b\30425112.D

Injection Date:	25-Apr-2013 20:07:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP9
Lims Batch ID:	83588	Lims Sample ID:	12
Operator ID:	001574	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0001-0001,0002-SO | Lab Sample ID: 240-22756-1 MS

Matrix: Solid | Lab File ID: 30419007.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 08:42

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.15(g) | Date Analyzed: 04/19/2013 12:41

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	578		7.7	3.8	3.8
208-96-8	Acenaphthylene	628		7.7	3.8	3.8
120-12-7	Anthracene	734		7.7	3.8	3.8
56-55-3	Benzo[a]anthracene	642		7.7	3.8	3.8
50-32-8	Benzo[a]pyrene	639		7.7	3.8	3.8
205-99-2	Benzo[b]fluoranthene	628		7.7	3.8	3.8
191-24-2	Benzo[g,h,i]perylene	703		7.7	3.8	3.8
65-85-0	Benzoic acid	831		760	380	380
207-08-9	Benzo[k]fluoranthene	702		7.7	3.8	3.8
100-51-6	Benzyl alcohol	487		380	31	24
111-91-1	Bis(2-chloroethoxy)methane	668		120	31	25
111-44-4	Bis(2-chloroethyl)ether	641		120	3.8	2.3
108-60-1	bis (2-chloroisopropyl) ether	533		120	31	11
117-81-7	Bis(2-ethylhexyl) phthalate	836		81	31	22
101-55-3	4-Bromophenyl phenyl ether	664		58	31	15
85-68-7	Butyl benzyl phthalate	808		81	31	12
86-74-8	Carbazole	665		58	31	31
106-47-8	4-Chloroaniline	352		170	31	20
59-50-7	4-Chloro-3-methylphenol	653		170	31	24
91-58-7	2-Chloronaphthalene	639		58	3.8	3.8
95-57-8	2-Chlorophenol	628		58	31	31
7005-72-3	4-Chlorophenyl phenyl ether	575		58	31	15
218-01-9	Chrysene	715		7.7	3.8	1.3
53-70-3	Dibenz(a,h)anthracene	661		7.7	3.8	3.8
132-64-9	Dibenzofuran	625		58	3.8	3.8
95-50-1	1,2-Dichlorobenzene	618		58	31	11
541-73-1	1,3-Dichlorobenzene	603		58	31	13
106-46-7	1,4-Dichlorobenzene	618		58	31	23
91-94-1	3,3'-Dichlorobenzidine	146		120	92	21
120-83-2	2,4-Dichlorophenol	680		170	31	23
84-66-2	Diethyl phthalate	651		81	31	18
105-67-9	2,4-Dimethylphenol	679		170	92	23
131-11-3	Dimethyl phthalate	676		81	31	20
84-74-2	Di-n-butyl phthalate	793		81	31	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0001-0001,0002-SO | Lab Sample ID: 240-22756-1 MS

Matrix: Solid | Lab File ID: 30419007.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 08:42

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.15(g) | Date Analyzed: 04/19/2013 12:41

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	574		170	92	92
51-28-5	2,4-Dinitrophenol	554		380	92	92
121-14-2	2,4-Dinitrotoluene	632		230	31	31
606-20-2	2,6-Dinitrotoluene	699		230	31	24
117-84-0	Di-n-octyl phthalate	748		81	31	31
206-44-0	Fluoranthene	700		7.7	3.8	3.8
86-73-7	Fluorene	654		7.7	3.8	3.8
118-74-1	Hexachlorobenzene	689		7.7	3.8	2.4
87-68-3	Hexachlorobutadiene	541		58	31	31
77-47-4	Hexachlorocyclopentadiene	262	J	380	31	31
67-72-1	Hexachloroethane	591		58	31	10
193-39-5	Indeno[1,2,3-cd]pyrene	653		7.7	3.8	3.8
78-59-1	Isophorone	612		58	31	15
91-57-6	2-Methylnaphthalene	608		7.7	3.8	3.8
95-48-7	2-Methylphenol	659		230	92	92
15831-10-4	3 & 4 Methylphenol	1330		460	92	23
91-20-3	Naphthalene	612		7.7	3.8	3.8
88-74-4	2-Nitroaniline	682		230	31	10
99-09-2	3-Nitroaniline	427		230	92	18
100-01-6	4-Nitroaniline	470		230	31	30
98-95-3	Nitrobenzene	622		120	3.8	2.5
88-75-5	2-Nitrophenol	640		58	31	31
100-02-7	4-Nitrophenol	667		380	92	92
621-64-7	N-Nitrosodi-n-propylamine	604		58	31	31
86-30-6	N-Nitrosodiphenylamine	735		58	31	24
87-86-5	Pentachlorophenol	557		170	92	92
85-01-8	Phenanthrene	731		7.7	3.8	3.8
108-95-2	Phenol	668		58	31	31
129-00-0	Pyrene	696		7.7	3.8	3.8
120-82-1	1,2,4-Trichlorobenzene	586		58	31	31
95-95-4	2,4,5-Trichlorophenol	684		170	31	29
88-06-2	2,4,6-Trichlorophenol	665		170	92	92

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0001-0001,0002-SO | Lab Sample ID: 240-22756-1 MS

Matrix: Solid | Lab File ID: 30419007.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 08:42

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 30.15(g) | Date Analyzed: 04/19/2013 12:41

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	69		45-105
367-12-4	2-Fluorophenol (Surr)	84		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	76		35-100
4165-62-2	Phenol-d5 (Surr)	81		40-100
1718-51-0	Terphenyl-d14 (Surr)	63		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	77		35-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419007.D
Lims ID: 240-22756-D-1-B MS
Client ID: 074SB-0001-0001,0002-SO
Inject. Date: 19-Apr-2013 12:41:30
Dil. Factor: 1.0000
Sample Type: MS
Sample ID: 240-0019044-007
Misc. Info.: 240-22756-D-1-B MS
Operator: 001710
Instrument ID: A4HP10
Injection Vol: 1.0 ul
ALS Bottle#: 7
Lims Batch ID: 82653
Lims Sample ID: 7
Detector: MS SCAN

Method: \\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m
Last Update: 22-Apr-2013 13:55:06
Calib Date: 12-Apr-2013 00:58:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: 5% phenyl
Column Dia: 0.18 mm
Process Host: XAWRK022

First Level Reviewer: gruberj
Date: 22-Apr-2013 09:38:56

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.848	5.848	0.0	99	115865	4.00	
* 2 Naphthalene-d8	136	6.971	6.970	0.001	100	448964	4.00	
* 3 Acenaphthene-d10	164	8.475	8.475	0.0	91	273602	4.00	
* 4 Phenanthrene-d10	188	9.738	9.738	0.0	97	458326	4.00	
* 5 Chrysene-d12	240	12.294	12.294	0.0	73	500585	4.00	
* 6 Perylene-d12	264	14.368	14.368	0.0	81	396461	4.00	
$ 7 2-Fluorophenol	112	4.585	4.573	0.012	92	421418	12.6	
$ 8 Phenol-d5	99	5.490	5.490	0.0	90	544621	12.2	
$ 9 Nitrobenzene-d5	82	6.336	6.336	0.0	88	319121	7.60	
$ 10 2-Fluorobiphenyl (Surr)	172	7.887	7.887	0.0	99	609447	6.91	
$ 11 2,4,6-Tribromophenol	330	9.139	9.144	-0.005	88	115764	11.6	
$ 12 Terphenyl-d14	244	11.101	11.101	0.0	98	616603	6.26	
43 Phenol	94	5.502	5.502	0.0	99	382764	8.71	
45 Bis(2-chloroethyl)ether	93	5.596	5.601	-0.005	97	284023	8.35	
47 2-Chlorophenol	128	5.654	5.648	0.006	92	290004	8.18	
48 1,3-Dichlorobenzene	146	5.795	5.795	0.0	97	300902	7.86	
49 1,4-Dichlorobenzene	146	5.860	5.866	-0.006	93	314957	8.06	
50 Benzyl alcohol	108	5.960	5.960	0.0	87	142721	6.34	
51 1,2-Dichlorobenzene	146	6.001	6.001	0.0	96	300141	8.05	
52 2-Methylphenol	108	6.054	6.054	0.0	96	274705	8.59	
54 2,2'-oxybis[1-chloropropane]	45	6.083	6.083	0.0	90	361398	6.95	
56 3 & 4 Methylphenol	108	6.189	6.183	0.006	94	579941	17.4	
57 N-Nitrosodi-n-propylamine	70	6.195	6.195	0.0	86	188011	7.88	
61 Hexachloroethane	117	6.301	6.307	-0.006	97	116285	7.70	
62 Nitrobenzene	77	6.354	6.354	0.0	88	309285	8.10	
64 Isophorone	82	6.559	6.559	0.0	98	546685	7.98	
66 2-Nitrophenol	139	6.630	6.636	-0.006	97	151890	8.34	
65 2,4-Dimethylphenol	107	6.653	6.653	0.0	92	309342	8.85	
70 Benzoic acid	122	6.694	6.712	-0.018	81	199682	10.8	
69 Bis(2-chloroethoxy)methane	93	6.736	6.741	-0.005	99	351373	8.71	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
72 2,4-Dichlorophenol	162	6.835	6.835	0.0	93	254678	8.86	
73 1,2,4-Trichlorobenzene	180	6.918	6.918	0.0	94	256879	7.63	
74 Naphthalene	128	6.988	6.988	0.0	97	831037	7.98	
75 4-Chloroaniline	127	7.023	7.023	0.0	91	199248	4.59	
78 Hexachlorobutadiene	225	7.088	7.088	0.0	91	145061	7.05	
85 4-Chloro-3-methylphenol	107	7.423	7.423	0.0	93	261132	8.50	
87 2-Methylnaphthalene	142	7.582	7.582	0.0	87	555538	7.93	
89 Hexachlorocyclopentadiene	237	7.711	7.711	0.0	96	74063	3.41	
93 2,4,6-Trichlorophenol	196	7.811	7.811	0.0	90	195688	8.67	
94 2,4,5-Trichlorophenol	196	7.840	7.846	-0.006	94	208687	8.92	
100 2-Chloronaphthalene	162	7.999	7.999	0.0	96	560565	8.33	
102 2-Nitroaniline	65	8.075	8.075	0.0	85	184107	8.89	
105 Dimethyl phthalate	163	8.216	8.216	0.0	99	673603	8.81	
107 2,6-Dinitrotoluene	165	8.275	8.275	0.0	88	152307	9.12	
109 Acenaphthylene	152	8.357	8.357	0.0	89	876943	8.18	
110 3-Nitroaniline	138	8.422	8.422	0.0	96	109847	5.56	
112 Acenaphthene	153	8.498	8.504	-0.006	95	560925	7.53	
111 2,4-Dinitrophenol	184	8.504	8.510	-0.006	69	73268	7.22	
113 4-Nitrophenol	109	8.533	8.539	-0.006	94	95818	8.69	
114 2,4-Dinitrotoluene	165	8.616	8.616	0.0	92	202340	8.23	
116 Dibenzofuran	168	8.645	8.645	0.0	87	817372	8.14	
121 Diethyl phthalate	149	8.810	8.815	-0.005	97	670725	8.49	
123 4-Chlorophenyl phenyl ether	204	8.927	8.927	0.0	92	322137	7.50	
126 Fluorene	166	8.939	8.939	0.0	90	695275	8.52	
125 4-Nitroaniline	138	8.939	8.939	0.0	54	114667	6.13	
128 4,6-Dinitro-2-methylphenol	198	8.962	8.962	0.0	84	107830	7.49	
129 N-Nitrosodiphenylamine	169	9.021	9.027	-0.006	88	518884	9.58	
139 4-Bromophenyl phenyl ether	248	9.344	9.344	0.0	67	176954	8.66	
141 Hexachlorobenzene	284	9.403	9.403	0.0	86	186178	8.99	
144 Pentachlorophenol	266	9.562	9.567	-0.005	82	103331	7.27	
149 Phenanthrene	178	9.761	9.761	0.0	97	1012064	9.52	
150 Anthracene	178	9.803	9.803	0.001	97	1011210	9.57	
152 Carbazole	167	9.926	9.932	-0.006	94	844060	8.67	
155 Di-n-butyl phthalate	149	10.196	10.196	0.0	100	1230828	10.3	
160 Fluoranthene	202	10.772	10.772	0.0	98	1143540	9.12	
162 Pyrene	202	10.978	10.984	-0.006	97	1172151	9.07	
170 Butyl benzyl phthalate	149	11.583	11.583	0.0	98	518363	10.5	
177 3,3'-Dichlorobenzidine	252	12.229	12.229	0.0	64	77753	1.90	
175 Bis(2-ethylhexyl) phthalate	149	12.259	12.258	0.001	96	755045	10.9	
179 Benzo[a]anthracene	228	12.276	12.282	-0.006	99	1042900	8.37	
180 Chrysene	228	12.323	12.329	-0.006	93	1065309	9.32	
182 Di-n-octyl phthalate	149	13.175	13.175	0.0	99	1196250	9.75	
184 Benzo[b]fluoranthene	252	13.786	13.786	0.0	88	871381	8.19	
185 Benzo[k]fluoranthene	252	13.827	13.827	0.0	89	1059233	9.15	
186 Benzo[a]pyrene	252	14.286	14.286	0.0	75	823294	8.33	
190 Indeno[1,2,3-cd]pyrene	276	16.025	16.031	-0.006	93	922202	8.51	
191 Dibenz(a,h)anthracene	278	16.060	16.066	-0.006	82	778547	8.62	
192 Benzo[g,h,i]perylene	276	16.471	16.477	-0.006	93	847616	9.16	

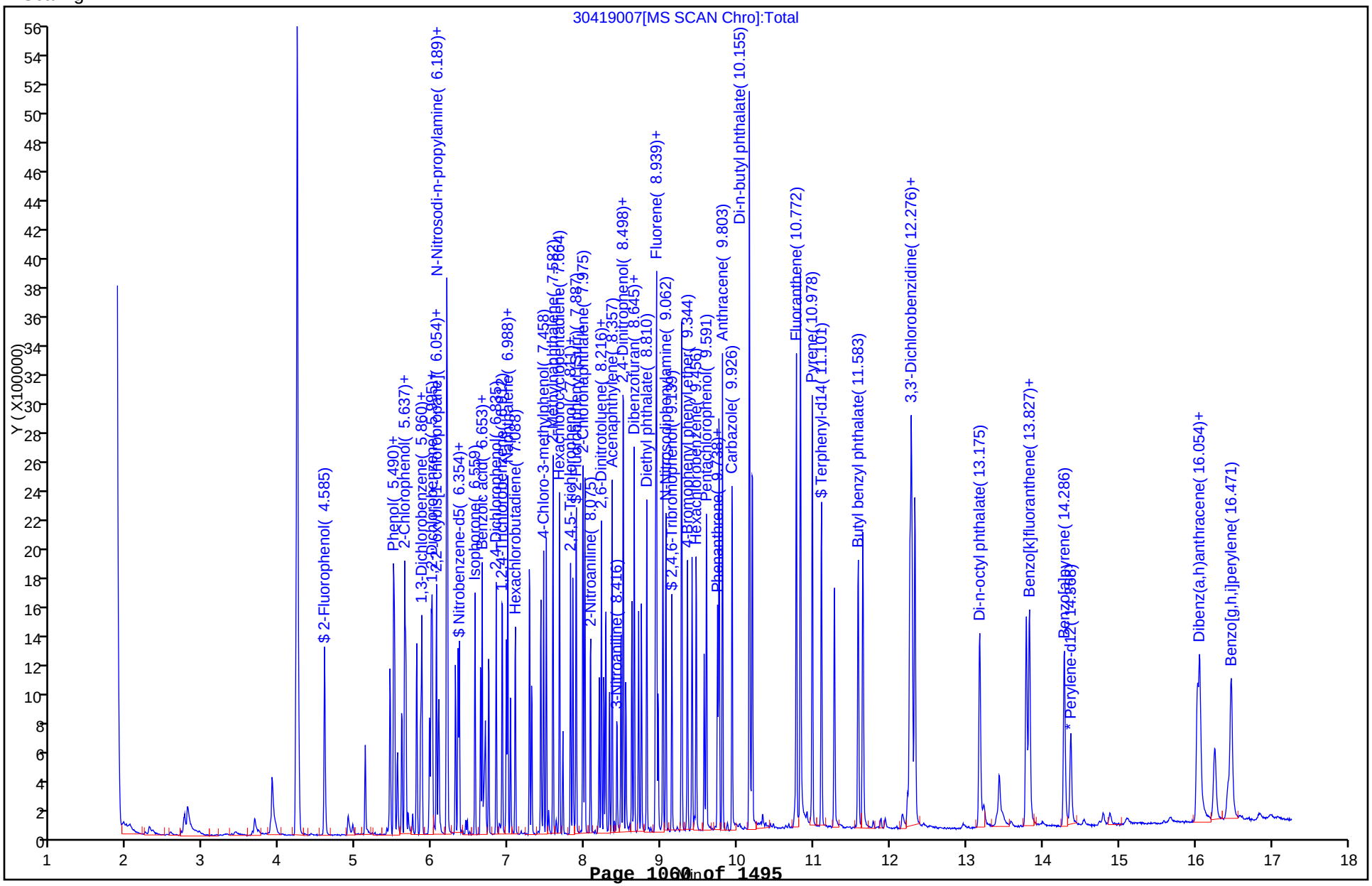
Report Date: 22-Apr-2013 13:55:12 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A4HP10\20130419-19044.b\30419007.D

Injection Date:	19-Apr-2013 12:41:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0001-0001,0002-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	7
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0001-0001,0002-SO | Lab Sample ID: 240-22756-1 MSD

Matrix: Solid | Lab File ID: 30419008.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 08:42

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 29.55(g) | Date Analyzed: 04/19/2013 13:04

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	545		7.8	3.9	3.9
208-96-8	Acenaphthylene	609		7.8	3.9	3.9
120-12-7	Anthracene	706		7.8	3.9	3.9
56-55-3	Benzo[a]anthracene	628		7.8	3.9	3.9
50-32-8	Benzo[a]pyrene	600		7.8	3.9	3.9
205-99-2	Benzo[b]fluoranthene	586		7.8	3.9	3.9
191-24-2	Benzo[g,h,i]perylene	639		7.8	3.9	3.9
65-85-0	Benzoic acid	801		780	390	390
207-08-9	Benzo[k]fluoranthene	639		7.8	3.9	3.9
100-51-6	Benzyl alcohol	409		390	32	25
111-91-1	Bis(2-chloroethoxy)methane	574		120	32	26
111-44-4	Bis(2-chloroethyl)ether	553		120	3.9	2.3
108-60-1	bis (2-chloroisopropyl) ether	476		120	32	11
117-81-7	Bis(2-ethylhexyl) phthalate	773		82	32	22
101-55-3	4-Bromophenyl phenyl ether	660		59	32	15
85-68-7	Butyl benzyl phthalate	769		82	32	12
86-74-8	Carbazole	642		59	32	32
106-47-8	4-Chloroaniline	389		180	32	20
59-50-7	4-Chloro-3-methylphenol	619		180	32	25
91-58-7	2-Chloronaphthalene	588		59	3.9	3.9
95-57-8	2-Chlorophenol	572		59	32	32
7005-72-3	4-Chlorophenyl phenyl ether	564		59	32	15
218-01-9	Chrysene	662		7.8	3.9	1.3
53-70-3	Dibenz(a,h)anthracene	624		7.8	3.9	3.9
132-64-9	Dibenzofuran	603		59	3.9	3.9
95-50-1	1,2-Dichlorobenzene	515		59	32	11
541-73-1	1,3-Dichlorobenzene	519		59	32	13
106-46-7	1,4-Dichlorobenzene	526		59	32	23
91-94-1	3,3'-Dichlorobenzidine	172		120	94	21
120-83-2	2,4-Dichlorophenol	624		180	32	23
84-66-2	Diethyl phthalate	631		82	32	19
105-67-9	2,4-Dimethylphenol	603		180	94	23
131-11-3	Dimethyl phthalate	651		82	32	20
84-74-2	Di-n-butyl phthalate	746		82	32	18

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0001-0001,0002-SO | Lab Sample ID: 240-22756-1 MSD

Matrix: Solid | Lab File ID: 30419008.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 08:42

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 29.55(g) | Date Analyzed: 04/19/2013 13:04

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	572		180	94	94
51-28-5	2,4-Dinitrophenol	532		390	94	94
121-14-2	2,4-Dinitrotoluene	596		230	32	32
606-20-2	2,6-Dinitrotoluene	667		230	32	25
117-84-0	Di-n-octyl phthalate	673		82	32	32
206-44-0	Fluoranthene	661		7.8	3.9	3.9
86-73-7	Fluorene	618		7.8	3.9	3.9
118-74-1	Hexachlorobenzene	658		7.8	3.9	2.5
87-68-3	Hexachlorobutadiene	462		59	32	32
77-47-4	Hexachlorocyclopentadiene	262	J	390	32	32
67-72-1	Hexachloroethane	519		59	32	11
193-39-5	Indeno[1,2,3-cd]pyrene	610		7.8	3.9	3.9
78-59-1	Isophorone	550		59	32	15
91-57-6	2-Methylnaphthalene	543		7.8	3.9	3.9
95-48-7	2-Methylphenol	618		230	94	94
15831-10-4	3 & 4 Methylphenol	1240		470	94	23
91-20-3	Naphthalene	536		7.8	3.9	3.9
88-74-4	2-Nitroaniline	640		230	32	11
99-09-2	3-Nitroaniline	414		230	94	19
100-01-6	4-Nitroaniline	501		230	32	31
98-95-3	Nitrobenzene	556		120	3.9	2.6
88-75-5	2-Nitrophenol	545		59	32	32
100-02-7	4-Nitrophenol	619		390	94	94
621-64-7	N-Nitrosodi-n-propylamine	540		59	32	32
86-30-6	N-Nitrosodiphenylamine	699		59	32	25
87-86-5	Pentachlorophenol	542		180	94	94
85-01-8	Phenanthrene	692		7.8	3.9	3.9
108-95-2	Phenol	593		59	32	32
129-00-0	Pyrene	662		7.8	3.9	3.9
120-82-1	1,2,4-Trichlorobenzene	512		59	32	32
95-95-4	2,4,5-Trichlorophenol	671		180	32	29
88-06-2	2,4,6-Trichlorophenol	648		180	94	94

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0001-0001,0002-SO | Lab Sample ID: 240-22756-1 MSD

Matrix: Solid | Lab File ID: 30419008.D

Analysis Method: 8270C/DoD | Date Collected: 04/02/2013 08:42

Extract. Method: 3540C | Date Extracted: 04/15/2013 11:33

Sample wt/vol: 29.55(g) | Date Analyzed: 04/19/2013 13:04

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82653 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	63		45-105
367-12-4	2-Fluorophenol (Surr)	71		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	63		35-100
4165-62-2	Phenol-d5 (Surr)	73		40-100
1718-51-0	Terphenyl-d14 (Surr)	57		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	72		35-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419008.D		
Lims ID:	240-22756-D-1-C MSD	Client ID:	074SB-0001-0001,0002-SO
Inject. Date:	19-Apr-2013 13:04:30	Dil. Factor:	1.0000
Sample Type:	MSD		
Sample ID:	240-0019044-008		
Misc. Info.:	240-22756-D-1-C MSD		
Operator:	001710	Instrument ID:	A4HP10
Injection Vol:	1.0 ul	ALS Bottle#:	8
Lims Batch ID:	82653	Lims Sample ID:	8
Detector:	MS SCAN		
Method:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\8270_10.m		
Last Update:	22-Apr-2013 13:55:06	Calib Date:	12-Apr-2013 00:58:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A4HP10\20130411-18790.b\30411019.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK022		
First Level Reviewer: gruberj		Date:	22-Apr-2013 09:39:17

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.848	5.848	0.0	98	113928	4.00	
* 2 Naphthalene-d8	136	6.971	6.970	0.001	99	448595	4.00	
* 3 Acenaphthene-d10	164	8.475	8.475	0.0	91	269054	4.00	
* 4 Phenanthrene-d10	188	9.738	9.738	0.0	96	454835	4.00	
* 5 Chrysene-d12	240	12.294	12.294	0.0	78	499246	4.00	
* 6 Perylene-d12	264	14.368	14.368	0.0	81	401121	4.00	
$ 7 2-Fluorophenol	112	4.585	4.573	0.012	91	353033	10.7	
$ 8 Phenol-d5	99	5.490	5.490	0.0	99	478361	10.9	
$ 9 Nitrobenzene-d5	82	6.336	6.336	0.0	88	264460	6.30	
$ 10 2-Fluorobiphenyl (Surr)	172	7.887	7.887	0.0	99	548859	6.33	
$ 11 2,4,6-Tribromophenol	330	9.139	9.144	-0.005	86	105823	10.8	
$ 12 Terphenyl-d14	244	11.101	11.101	0.0	98	564036	5.74	
43 Phenol	94	5.502	5.502	0.0	99	327081	7.57	
45 Bis(2-chloroethyl)ether	93	5.596	5.601	-0.005	96	236221	7.06	
47 2-Chlorophenol	128	5.649	5.648	0.001	92	254402	7.30	
48 1,3-Dichlorobenzene	146	5.796	5.795	0.001	98	249712	6.63	
49 1,4-Dichlorobenzene	146	5.860	5.866	-0.006	92	258316	6.72	
50 Benzyl alcohol	108	5.960	5.960	0.0	90	115695	5.23	
51 1,2-Dichlorobenzene	146	5.995	6.001	-0.006	92	241302	6.58	
52 2-Methylphenol	108	6.054	6.054	0.0	95	248286	7.89	
54 2,2'-oxybis[1-chloropropane]	45	6.083	6.083	0.0	91	310601	6.08	
56 3 & 4 Methylphenol	108	6.189	6.183	0.006	92	521208	15.9	
57 N-Nitrosodi-n-propylamine	70	6.195	6.195	0.0	89	161959	6.90	
61 Hexachloroethane	117	6.301	6.307	-0.006	97	98482	6.63	
62 Nitrobenzene	77	6.354	6.354	0.0	81	270690	7.10	
64 Isophorone	82	6.559	6.559	0.0	98	480592	7.02	
66 2-Nitrophenol	139	6.630	6.636	-0.006	97	126853	6.97	
65 2,4-Dimethylphenol	107	6.653	6.653	0.0	91	269196	7.71	
70 Benzoic acid	122	6.694	6.712	-0.018	84	186992	10.2	
69 Bis(2-chloroethoxy)methane	93	6.736	6.741	-0.005	99	295814	7.34	

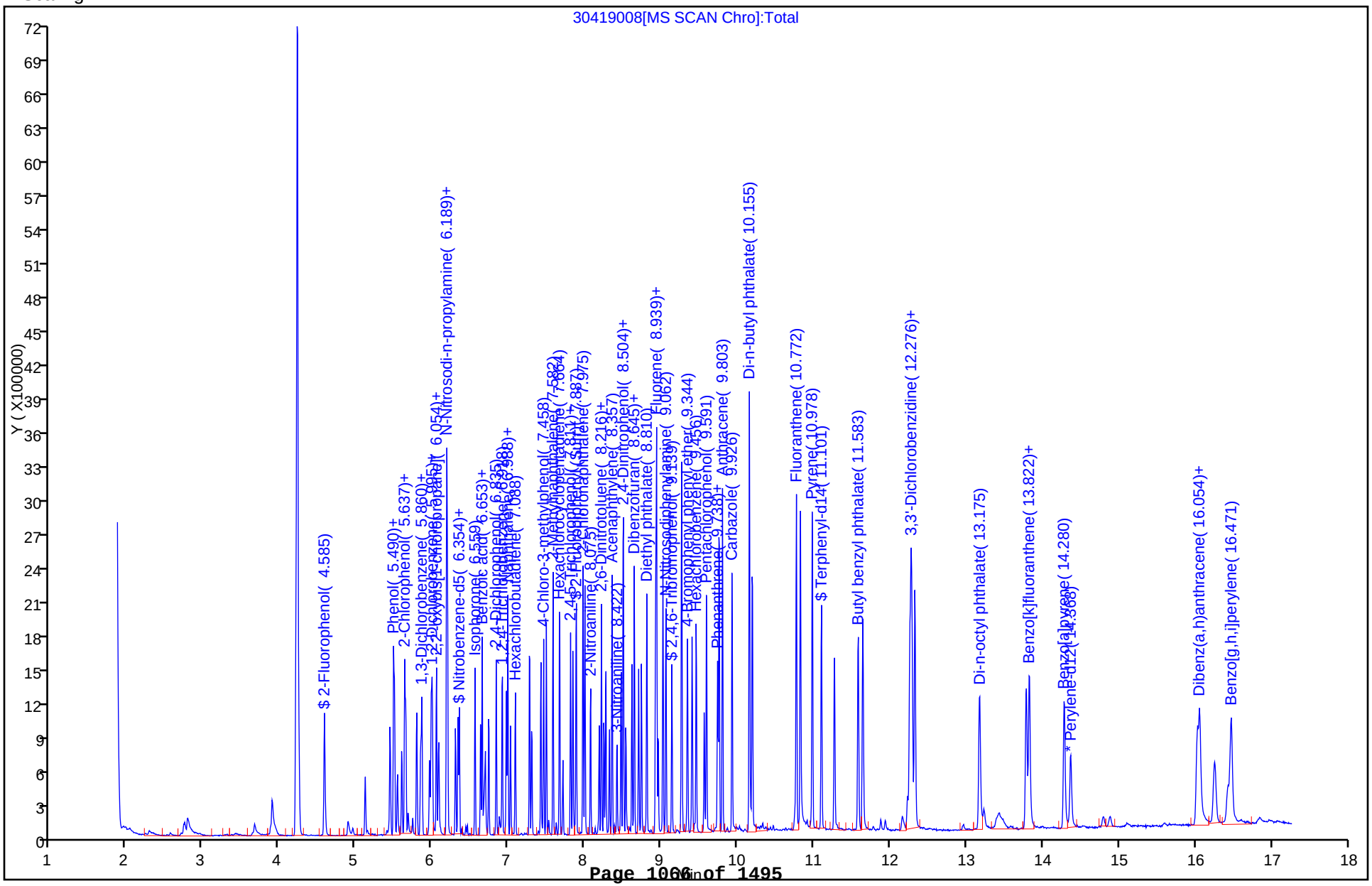
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
72 2,4-Dichlorophenol	162	6.835	6.835	0.0	95	228726	7.97	
73 1,2,4-Trichlorobenzene	180	6.918	6.918	0.0	93	219870	6.54	
74 Naphthalene	128	6.988	6.988	0.0	96	711912	6.84	
75 4-Chloroaniline	127	7.024	7.023	0.001	85	215517	4.97	
78 Hexachlorobutadiene	225	7.088	7.088	0.0	93	121529	5.91	
85 4-Chloro-3-methylphenol	107	7.423	7.423	0.0	92	242738	7.91	
87 2-Methylnaphthalene	142	7.582	7.582	0.0	86	485645	6.94	
89 Hexachlorocyclopentadiene	237	7.711	7.711	0.0	96	71381	3.34	
93 2,4,6-Trichlorophenol	196	7.811	7.811	0.0	90	183711	8.28	
94 2,4,5-Trichlorophenol	196	7.840	7.846	-0.006	95	197399	8.58	
100 2-Chloronaphthalene	162	7.999	7.999	0.0	96	497282	7.51	
102 2-Nitroaniline	65	8.075	8.075	0.0	87	166458	8.18	
105 Dimethyl phthalate	163	8.216	8.216	0.0	98	625324	8.31	
107 2,6-Dinitrotoluene	165	8.275	8.275	0.0	93	139918	8.52	
109 Acenaphthylene	152	8.357	8.357	0.0	90	820150	7.78	
110 3-Nitroaniline	138	8.422	8.422	0.0	95	102484	5.29	
112 Acenaphthene	153	8.498	8.504	-0.006	95	509573	6.96	
111 2,4-Dinitrophenol	184	8.504	8.510	-0.006	69	66773	6.79	
113 4-Nitrophenol	109	8.534	8.539	-0.005	92	85146	7.91	
114 2,4-Dinitrotoluene	165	8.616	8.616	0.0	91	183442	7.61	
116 Dibenzofuran	168	8.645	8.645	0.0	83	760670	7.70	
121 Diethyl phthalate	149	8.810	8.815	-0.005	97	626303	8.06	
123 4-Chlorophenyl phenyl ether	204	8.927	8.927	0.0	92	304539	7.21	
126 Fluorene	166	8.939	8.939	0.0	82	633622	7.89	
125 4-Nitroaniline	138	8.939	8.939	0.0	52	117860	6.40	
128 4,6-Dinitro-2-methylphenol	198	8.962	8.962	0.0	84	104103	7.31	
129 N-Nitrosodiphenylamine	169	9.021	9.027	-0.006	98	479717	8.92	
139 4-Bromophenyl phenyl ether	248	9.344	9.344	0.0	67	171142	8.44	
141 Hexachlorobenzene	284	9.403	9.403	0.0	86	172750	8.40	
144 Pentachlorophenol	266	9.562	9.567	-0.005	81	97351	6.92	
149 Phenanthrene	178	9.762	9.761	0.001	97	932175	8.84	
150 Anthracene	178	9.803	9.803	0.001	97	945412	9.02	
152 Carbazole	167	9.926	9.932	-0.006	94	792524	8.20	
155 Di-n-butyl phthalate	149	10.196	10.196	0.0	100	1126755	9.53	
160 Fluoranthene	202	10.772	10.772	0.0	97	1050789	8.45	
162 Pyrene	202	10.978	10.984	-0.006	97	1090933	8.46	
170 Butyl benzyl phthalate	149	11.583	11.583	0.0	97	482650	9.83	
177 3,3'-Dichlorobenzidine	252	12.229	12.229	0.0	63	89410	2.19	
175 Bis(2-ethylhexyl) phthalate	149	12.259	12.258	0.001	96	682766	9.88	
179 Benzo[a]anthracene	228	12.276	12.282	-0.006	97	996971	8.03	
180 Chrysene	228	12.323	12.329	-0.006	95	963418	8.45	
182 Di-n-octyl phthalate	149	13.175	13.175	0.0	99	1060558	8.59	
184 Benzo[b]fluoranthene	252	13.786	13.786	0.0	85	805428	7.48	
185 Benzo[k]fluoranthene	252	13.822	13.827	-0.005	86	956532	8.17	
186 Benzo[a]pyrene	252	14.280	14.286	-0.006	74	765569	7.66	
190 Indeno[1,2,3-cd]pyrene	276	16.031	16.031	0.0	98	853911	7.79	
191 Dibenz(a,h)anthracene	278	16.060	16.066	-0.006	73	728454	7.97	
192 Benzo[g,h,i]perylene	276	16.471	16.477	-0.006	89	764170	8.17	

Report Date: 22-Apr-2013 13:55:13 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File:	\\NCChrom\ChromData\A4HP10\20130419-19044.b\30419008.D		
Injection Date:	19-Apr-2013 13:04:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	074SB-0001-0001,0002-SO	Instrument ID:	A4HP10
Lims Batch ID:	82653	Lims Sample ID:	8
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: A4HP10 Start Date: 04/11/2013 17:39

Analysis Batch Number: 81609 End Date: 04/12/2013 00:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-81609/1		04/11/2013 17:39	1	30411001.D	DB-624 0.18(mm)
STD5 240-81609/2 IC		04/11/2013 18:04	1	30411002.D	DB-624 0.18(mm)
STD4 240-81609/3 IC		04/11/2013 18:28	1	30411003.D	DB-624 0.18(mm)
STD3 240-81609/4 IC		04/11/2013 18:53	1	30411004.D	DB-624 0.18(mm)
STD2 240-81609/5 IC		04/11/2013 19:17	1	30411005.D	DB-624 0.18(mm)
STD1 240-81609/6 IC		04/11/2013 19:41	1	30411006.D	DB-624 0.18(mm)
STD9 240-81609/7 IC		04/11/2013 20:06	1	30411007.D	DB-624 0.18(mm)
STD8 240-81609/8 IC		04/11/2013 20:30	1	30411008.D	DB-624 0.18(mm)
STD7 240-81609/9 IC		04/11/2013 20:54	1	30411009.D	DB-624 0.18(mm)
STD6 240-81609/10 ICIS		04/11/2013 21:19	1	30411010.D	DB-624 0.18(mm)
ICV 240-81609/11		04/11/2013 21:43	1	30411011.D	DB-624 0.18(mm)
STD5 240-81609/12 IC		04/11/2013 22:08	1		DB-624 0.18(mm)
STD4 240-81609/13 IC		04/11/2013 22:32	1		DB-624 0.18(mm)
STD3 240-81609/14 IC		04/11/2013 22:56	1		DB-624 0.18(mm)
STD2 240-81609/15 IC		04/11/2013 23:21	1		DB-624 0.18(mm)
STD6 240-81609/16 IC		04/11/2013 23:45	1		DB-624 0.18(mm)
STD7 240-81609/17 IC		04/12/2013 00:09	1		DB-624 0.18(mm)
STD8 240-81609/18 IC		04/12/2013 00:34	1		DB-624 0.18(mm)
STD9 240-81609/19 IC		04/12/2013 00:58	1		DB-624 0.18(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: A4HP10 Start Date: 04/19/2013 10:23

Analysis Batch Number: 82653 End Date: 04/19/2013 22:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-82653/1		04/19/2013 10:23	1	30419001.D	DB-624 0.18(mm)
CCV 240-82653/2		04/19/2013 10:43	1	30419002.D	DB-624 0.18(mm)
MRL 240-82653/3		04/19/2013 11:07	1	30419003.D	DB-624 0.18(mm)
MB 240-81947/23-A		04/19/2013 11:30	1	30419004.D	DB-624 0.18(mm)
LCS 240-81947/24-A		04/19/2013 11:54	1	30419005.D	DB-624 0.18(mm)
240-22756-1	074SB-0001-0001,0002-SO	04/19/2013 12:17	1	30419006.D	DB-624 0.18(mm)
240-22756-1 MS	074SB-0001-0001,0002-SO MS	04/19/2013 12:41	1	30419007.D	DB-624 0.18(mm)
240-22756-1 MSD	074SB-0001-0001,0002-SO MSD	04/19/2013 13:04	1	30419008.D	DB-624 0.18(mm)
240-22756-13	074SB-0019-0001-SO	04/19/2013 13:28	10	30419009.D	DB-624 0.18(mm)
240-22756-10	074SB-0016-0001-SO	04/19/2013 13:51	2.5	30419010.D	DB-624 0.18(mm)
240-22756-14	074SB-0020-0001-SO	04/19/2013 14:14	2.5	30419011.D	DB-624 0.18(mm)
240-22756-12	074SB-0018-0001-SO	04/19/2013 14:38	2.5	30419012.D	DB-624 0.18(mm)
ZZZZZ		04/19/2013 15:01	2.5		DB-624 0.18(mm)
ZZZZZ		04/19/2013 15:25	2.5		DB-624 0.18(mm)
ZZZZZ		04/19/2013 15:48	1		DB-624 0.18(mm)
ZZZZZ		04/19/2013 16:11	1		DB-624 0.18(mm)
ZZZZZ		04/19/2013 16:35	1		DB-624 0.18(mm)
240-22756-15	074SB-0021-0001-SO	04/19/2013 16:58	1	30419018.D	DB-624 0.18(mm)
240-22756-4	074SB-0005-0001-SO	04/19/2013 17:21	1	30419019.D	DB-624 0.18(mm)
240-22756-11	074SB-0017-0001-SO	04/19/2013 17:45	1	30419020.D	DB-624 0.18(mm)
ZZZZZ		04/19/2013 18:08	1		DB-624 0.18(mm)
240-22756-5	074SB-0006-0001-SO	04/19/2013 18:31	1	30419022.D	DB-624 0.18(mm)
240-22756-2	074SB-0002-0001-SO	04/19/2013 18:55	1	30419023.D	DB-624 0.18(mm)
240-22756-6	074SB-0007-0001-SO	04/19/2013 19:18	1	30419024.D	DB-624 0.18(mm)
ZZZZZ		04/19/2013 19:41	1		DB-624 0.18(mm)
240-22756-8	074SB-0009-0001-SO	04/19/2013 20:05	1	30419026.D	DB-624 0.18(mm)
240-22756-7	074SB-0008-0001-SO	04/19/2013 20:28	1	30419027.D	DB-624 0.18(mm)
MRL 240-82653/28		04/19/2013 20:51	1	30419028.D	DB-624 0.18(mm)
mdll1 LODV		04/19/2013 21:14	1	30419029.D	DB-624 0.18(mm)
mdll2 LODV		04/19/2013 21:38	1	30419030.D	DB-624 0.18(mm)
mdll3 LODV		04/19/2013 22:01	1	30419031.D	DB-624 0.18(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: A4HP9 Start Date: 04/19/2013 10:21

Analysis Batch Number: 82668 End Date: 04/19/2013 14:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-82668/1		04/19/2013 10:21	1	30419101.D	RXI-5SILMS 0.45(mm)
STD5 240-82668/2 IC		04/19/2013 10:42	1	30419102.D	RXI-5SILMS 0.45(mm)
STD4 240-82668/3 IC		04/19/2013 11:08	1	30419103.D	RXI-5SILMS 0.45(mm)
STD3 240-82668/4 IC		04/19/2013 11:34	1	30419104.D	RXI-5SILMS 0.45(mm)
STD2 240-82668/5 IC		04/19/2013 12:01	1	30419105.D	RXI-5SILMS 0.45(mm)
STD1 240-82668/6 IC		04/19/2013 12:27	1	30419106.D	RXI-5SILMS 0.45(mm)
STD9 240-82668/7 IC		04/19/2013 12:53	1	30419107.D	RXI-5SILMS 0.45(mm)
STD8 240-82668/8 IC		04/19/2013 13:19	1	30419108.D	RXI-5SILMS 0.45(mm)
STD7 240-82668/9 IC		04/19/2013 13:45	1	30419109.D	RXI-5SILMS 0.45(mm)
STD6 240-82668/10 ICIS		04/19/2013 14:12	1	30419110.D	RXI-5SILMS 0.45(mm)
ICV 240-82668/11		04/19/2013 14:38	1	30419111.D	RXI-5SILMS 0.45(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: A4HP9 Start Date: 04/25/2013 15:15

Analysis Batch Number: 83588 End Date: 04/25/2013 20:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-83588/1		04/25/2013 15:15	1	30425101.D	RXI-5SILMS 0.45(mm)
CCV 240-83588/2		04/25/2013 15:39	1	30425102.D	RXI-5SILMS 0.45(mm)
MRL 240-83588/3		04/25/2013 16:06	1	30425103.D	RXI-5SILMS 0.45(mm)
MB 240-83163/15-A		04/25/2013 16:33	1	30425104.D	RXI-5SILMS 0.45(mm)
LCS 240-83163/16-A		04/25/2013 17:00	1	30425105.D	RXI-5SILMS 0.45(mm)
240-22756-3 RE	074SB-0003-0001-SO RE	04/25/2013 19:14	1	30425110.D	RXI-5SILMS 0.45(mm)
ZZZZZ		04/25/2013 19:40	4		RXI-5SILMS 0.45(mm)
MRL 240-83588/12		04/25/2013 20:07	1	30425112.D	RXI-5SILMS 0.45(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Batch Number: 81947 Batch Start Date: 04/15/13 14:00 Batch Analyst: Mills, Lisa

Batch Method: 3540C Batch End Date: 04/16/13 06:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EXBNALCS1 00035	EXBNASURRW 00024	EXRESTEKSPKW 00019	
240-22756-D-1	074SB-0001-0001, 0002-SO	3540C, 8270C/DoD	T	29.66 g	2 mL		1 mL		
240-22756-D-1 MS	074SB-0001-0001, 0002-SO	3540C, 8270C/DoD	T	30.15 g	2 mL	1 mL	1 mL	1 mL	
240-22756-D-1 MSD	074SB-0001-0001, 0002-SO	3540C, 8270C/DoD	T	29.55 g	2 mL	1 mL	1 mL	1 mL	
240-22756-B-2	074SB-0002-0001-SO	3540C, 8270C/DoD	T	29.79 g	2 mL		1 mL		
240-22756-B-4	074SB-0005-0001-SO	3540C, 8270C/DoD	T	29.57 g	2 mL		1 mL		
240-22756-E-5	074SB-0006-0001-SO	3540C, 8270C/DoD	T	30.28 g	2 mL		1 mL		
240-22756-B-6	074SB-0007-0001-SO	3540C, 8270C/DoD	T	30.39 g	2 mL		1 mL		
240-22756-B-7	074SB-0008-0001-SO	3540C, 8270C/DoD	T	30.10 g	2 mL		1 mL		
240-22756-B-8	074SB-0009-0001-SO	3540C, 8270C/DoD	T	30.39 g	2 mL		1 mL		
240-22756-B-10	074SB-0016-0001-SO	3540C, 8270C/DoD	T	30.01 g	2 mL		1 mL		
240-22756-B-11	074SB-0017-0001-SO	3540C, 8270C/DoD	T	30.05 g	2 mL		1 mL		
240-22756-B-12	074SB-0018-0001-SO	3540C, 8270C/DoD	T	29.98 g	2 mL		1 mL		
240-22756-B-13	074SB-0019-0001-SO	3540C, 8270C/DoD	T	30.39 g	2 mL		1 mL		
240-22756-B-14	074SB-0020-0001-SO	3540C, 8270C/DoD	T	30.19 g	2 mL		1 mL		
240-22756-B-15	074SB-0021-0001-SO	3540C, 8270C/DoD	T	29.75 g	2 mL		1 mL		
MB 240-81947/23		3540C, 8270C/DoD		30.00 g	2 mL		1 mL		
LCS 240-81947/24		3540C, 8270C/DoD		30.00 g	2 mL	1 mL	1 mL	1 mL	

Batch Notes	
Balance ID	b037
Na2SO4 Lot Number	857442
Prep Solvent Lot #	928642

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Batch Number: 81947 Batch Start Date: 04/15/13 14:00 Batch Analyst: Mills, Lisa

Batch Method: 3540C Batch End Date: 04/16/13 06:00

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Batch Number: 83163 Batch Start Date: 04/23/13 12:15 Batch Analyst: Shabani, Jawad

Batch Method: 3540C Batch End Date: 04/24/13 04:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EXBNALCS1 00035	EXBNASURRW 00024	EXRESTEKSPKW 00019	
240-22756-B-3	074SB-0003-0001-SO	3540C, 8270C/DoD	T	29.83 g	2 mL		1 mL		
MB 240-83163/15		3540C, 8270C/DoD		30.00 g	2 mL		1 mL		
LCS 240-83163/16		3540C, 8270C/DoD		30.00 g	2 mL	1 mL	1 mL	1 mL	

Batch Notes	
Balance ID	B036
Na2SO4 Lot Number	857442
Prep Solvent Lot #	950631

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8015B - DRO DOD

Diesel Range Organics (DRO) (GC) by Method 8015B DOD

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): ID:

Client Sample ID	Lab Sample ID	C9 #
074SB-0001-0001,0002-SO	240-22756-1	55
074SB-0002-0001-SO	240-22756-2	49
074SB-0003-0001-SO	240-22756-3	52
074SB-0005-0001-SO	240-22756-4	58
074SB-0006-0001-SO	240-22756-5	51
074SB-0007-0001-SO	240-22756-6	61
074SB-0008-0001-SO	240-22756-7	52
074SB-0009-0001-SO	240-22756-8	53
074SB-0016-0001-SO	240-22756-10	51
074SB-0017-0001-SO	240-22756-11	53
074SB-0018-0001-SO	240-22756-12	46
074SB-0019-0001-SO	240-22756-13	50
074SB-0020-0001-SO	240-22756-14	45
074SB-0021-0001-SO	240-22756-15	43
	MB 240-82081/23-A	49
	MB 240-82097/23-A	50
	LCS 240-82081/24-A	58
	LCS 240-82097/24-A	48
074SB-0001-0001,0002-SO MS	240-22756-1 MS	53
074SB-0001-0001,0002-SO MSD	240-22756-1 MSD	50

	QC LIMITS
C9 = n-Nonane	10-110

Column to be used to flag recovery values

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): ID:

Client Sample ID	Lab Sample ID	C9	#
	MRL 240-82317/14	110	
	MRL 240-82317/42	103	
	MRL 240-82531/19	112	Q
	MRL 240-82531/47	117	Q
	MRL 240-82537/6	90	
	MRL 240-82537/39	105	
	MRL 240-82770/6	99	
	MRL 240-82770/26	103	

	QC LIMITS
C9 = n-Nonane	70-130

Column to be used to flag recovery values

FORM II 8015B_DRO/DOD

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P5F17016.D

Lab ID: LCS 240-82081/24-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
Diesel	83.3	67.3	81	47-138	

Column to be used to flag recovery and RPD values

FORM III 8015B_DRO/DOD

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P6F18013.D

Lab ID: LCS 240-82097/24-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
Diesel	83.3	59.4	71	47-138	

Column to be used to flag recovery and RPD values

FORM III 8015B_DRO/DOD

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P5F17014.D

Lab ID: MRL 240-82317/14 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Diesel	100	103	103	70-130	

Column to be used to flag recovery and RPD values

FORM III 8015B_DRO/DOD

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P5F17042.D

Lab ID: MRL 240-82317/42 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Diesel	100	101	101	70-130	

Column to be used to flag recovery and RPD values

FORM III 8015B_DRO/DOD

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P5F18019.D

Lab ID: MRL 240-82531/19 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Diesel	100	101	101	70-130	

Column to be used to flag recovery and RPD values

FORM III 8015B_DRO/DOD

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P5F18047.D

Lab ID: MRL 240-82531/47 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Diesel	100	110	110	70-130	

Column to be used to flag recovery and RPD values

FORM III 8015B_DRO/DOD

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P6F18006.D

Lab ID: MRL 240-82537/6 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Diesel	100	102	102	70-130	

Column to be used to flag recovery and RPD values

FORM III 8015B_DRO/DOD

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P6F18039.D

Lab ID: MRL 240-82537/39 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Diesel	100	98.1 J	98	70-130	

Column to be used to flag recovery and RPD values

FORM III 8015B_DRO/DOD

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P6F19006.D

Lab ID: MRL 240-82770/6 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Diesel	100	98.4 J	98	70-130	

Column to be used to flag recovery and RPD values

FORM III 8015B_DRO/DOD

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P6F19026.D

Lab ID: MRL 240-82770/26 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Diesel	100	97.9 J	98	70-130	

Column to be used to flag recovery and RPD values

FORM III 8015B_DRO/DOD

FORM III
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P5F17032.D

Lab ID: 240-22756-1 MS Client ID: 074SB-0001-0001,0002-SO MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
Diesel	97.8	11 U	76.5	78	10-199	

Column to be used to flag recovery and RPD values

FORM III 8015B_DRO/DOD

FORM III
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P5F17033.D

Lab ID: 240-22756-1 MSD Client ID: 074SB-0001-0001,0002-SO MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Diesel	96.1	73.1	76	5	30	10-199	

Column to be used to flag recovery and RPD values

FORM III 8015B_DRO/DOD

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab File ID: P5F17015.D Lab Sample ID: MB 240-82081/23-A

Matrix: Solid Date Extracted: 04/16/2013 09:42

Instrument ID: A2HP5F Date Analyzed: 04/17/2013 20:56

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-82081/24-A	P5F17016.D	04/17/2013 21:26
074SB-0001-0001,0002-SO	240-22756-1	P5F17031.D	04/18/2013 05:04
074SB-0001-0001,0002-SO MS	240-22756-1 MS	P5F17032.D	04/18/2013 05:35
074SB-0001-0001,0002-SO MSD	240-22756-1 MSD	P5F17033.D	04/18/2013 06:05
074SB-0002-0001-SO	240-22756-2	P5F17034.D	04/18/2013 06:36
074SB-0003-0001-SO	240-22756-3	P5F17035.D	04/18/2013 07:06
074SB-0006-0001-SO	240-22756-5	P5F17038.D	04/18/2013 08:37
074SB-0007-0001-SO	240-22756-6	P5F17039.D	04/18/2013 09:07
074SB-0005-0001-SO	240-22756-4	P5F18023.D	04/19/2013 02:09
074SB-0008-0001-SO	240-22756-7	P5F18024.D	04/19/2013 02:39

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab File ID: P6F18012.D Lab Sample ID: MB 240-82097/23-A

Matrix: Solid Date Extracted: 04/16/2013 10:04

Instrument ID: A2HP6F Date Analyzed: 04/18/2013 20:41

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-82097/24-A	P6F18013.D	04/18/2013 21:13
074SB-0009-0001-SO	240-22756-8	P6F18014.D	04/18/2013 21:44
074SB-0016-0001-SO	240-22756-10	P6F18015.D	04/18/2013 22:16
074SB-0017-0001-SO	240-22756-11	P6F18016.D	04/18/2013 22:47
074SB-0021-0001-SO	240-22756-15	P6F18021.D	04/19/2013 01:23
074SB-0018-0001-SO	240-22756-12	P6F19008.D	04/19/2013 20:29
074SB-0019-0001-SO	240-22756-13	P6F19009.D	04/19/2013 21:00
074SB-0020-0001-SO	240-22756-14	P6F19010.D	04/19/2013 21:31

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Sample No.: CCV 240-82317/13 Date Analyzed: 04/17/2013 19:55

Instrument ID: A2HP5F GC Column: ID: ()

Lab File ID (Standard): P5F17013.D Heated Purge: (Y/N) N

Calibration ID: 14026

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				C9 RT #		
CONTINUING CALIBRATION SURROGATE				4.38		
UPPER LIMIT				4.48		
LOWER LIMIT				4.28		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-82317/13 CCVRT		04/17/2013 19:55	P5F17013.D	4.38		
MB 240-82081/23-A		04/17/2013 20:56	P5F17015.D	4.37		
LCS 240-82081/24-A		04/17/2013 21:26	P5F17016.D	4.37		
CCV 240-82317/25		04/18/2013 02:01	P5F17025.D	4.40		
240-22756-1	074SB-0001-0001,0002-SO	04/18/2013 05:04	P5F17031.D	4.39		
240-22756-1 MS	074SB-0001-0001,0002-SO MS	04/18/2013 05:35	P5F17032.D	4.38		
240-22756-1 MSD	074SB-0001-0001,0002-SO MSD	04/18/2013 06:05	P5F17033.D	4.38		
240-22756-2	074SB-0002-0001-SO	04/18/2013 06:36	P5F17034.D	4.38		
240-22756-3	074SB-0003-0001-SO	04/18/2013 07:06	P5F17035.D	4.38		
CCV 240-82317/36		04/18/2013 07:37	P5F17036.D	4.40		
240-22756-5	074SB-0006-0001-SO	04/18/2013 08:37	P5F17038.D	4.38		
240-22756-6	074SB-0007-0001-SO	04/18/2013 09:07	P5F17039.D	4.39		
CCV 240-82317/41		04/18/2013 10:07	P5F17041.D	4.40		

C9 = n-Nonane

C9 RT Limit = ± 0.1 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8015B_DRO/DOD

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Sample No.: CCV 240-82531/18 Date Analyzed: 04/18/2013 23:35

Instrument ID: A2HP5F GC Column: ID: ()

Lab File ID (Standard): P5F18018.D Heated Purge: (Y/N) N

Calibration ID: 14026

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				C9 RT #		
CONTINUING CALIBRATION SURROGATE				4.42		
UPPER LIMIT				4.52		
LOWER LIMIT				4.32		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-82531/18 CCVRT		04/18/2013 23:35	P5F18018.D	4.42		
240-22756-4	074SB-0005-0001-SO	04/19/2013 02:09	P5F18023.D	4.40		
240-22756-7	074SB-0008-0001-SO	04/19/2013 02:39	P5F18024.D	4.40		
CCV 240-82531/30		04/19/2013 05:44	P5F18030.D	4.42		
CCV 240-82531/46		04/19/2013 13:51	P5F18046.D	4.41		

C9 = n-Nonane

C9 RT Limit = ± 0.1 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8015B_DRO/DOD

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Sample No.: CCV 240-82537/5 Date Analyzed: 04/18/2013 17:00

Instrument ID: A2HP6F GC Column: RTX-5 ID: 0.53(mm)

Lab File ID (Standard): P6F18005.D Heated Purge: (Y/N) N

Calibration ID: 14621

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				C9 RT #		
CONTINUING CALIBRATION SURROGATE				4.07		
UPPER LIMIT				4.17		
LOWER LIMIT				3.97		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-82537/5 CCVRT		04/18/2013 17:00	P6F18005.D	4.07		
MB 240-82097/23-A		04/18/2013 20:41	P6F18012.D	4.06		
LCS 240-82097/24-A		04/18/2013 21:13	P6F18013.D	4.06		
240-22756-8	074SB-0009-0001-SO	04/18/2013 21:44	P6F18014.D	4.06		
240-22756-10	074SB-0016-0001-SO	04/18/2013 22:16	P6F18015.D	4.06		
240-22756-11	074SB-0017-0001-SO	04/18/2013 22:47	P6F18016.D	4.06		
CCV 240-82537/17		04/18/2013 23:18	P6F18017.D	4.07		
240-22756-15	074SB-0021-0001-SO	04/19/2013 01:23	P6F18021.D	4.06		
CCV 240-82537/28		04/19/2013 05:03	P6F18028.D	4.07		
CCV 240-82537/38		04/19/2013 10:18	P6F18038.D	4.07		

C9 = n-Nonane

C9 RT Limit = ± 0.1 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8015B_DRO/DOD

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Sample No.: CCV 240-82770/5 Date Analyzed: 04/19/2013 18:57

Instrument ID: A2HP6F GC Column: RTX-5 ID: 0.53(mm)

Lab File ID (Standard): P6F19005.D Heated Purge: (Y/N) N

Calibration ID: 14621

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				C9 RT #		
CONTINUING CALIBRATION SURROGATE				4.06		
UPPER LIMIT				4.16		
LOWER LIMIT				3.96		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-82770/5 CCVRT		04/19/2013 18:57	P6F19005.D	4.06		
240-22756-12	074SB-0018-0001-SO	04/19/2013 20:29	P6F19008.D	4.06		
240-22756-13	074SB-0019-0001-SO	04/19/2013 21:00	P6F19009.D	4.06		
240-22756-14	074SB-0020-0001-SO	04/19/2013 21:31	P6F19010.D	4.06		
CCV 240-82770/17		04/20/2013 01:05	P6F19017.D	4.06		

C9 = n-Nonane

C9 RT Limit = ± 0.1 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8015B_DRO/DOD

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0001-0001,0002-SO Lab Sample ID: 240-22756-1

Matrix: Solid Lab File ID: P5F17031.D

Analysis Method: 8015B_DRO/DOD Date Collected: 04/02/2013 08:42

Extraction Method: 3540C Date Extracted: 04/16/2013 09:42

Sample wt/vol: 29.82(g) Date Analyzed: 04/18/2013 05:04

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ID:

% Moisture: 13.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 82317 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	11	U	19	11	11
STL00272	C20-C34	11	U	19	11	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	55		10-110

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17031.D		
Lims ID:	240-22756-E-1-A	Client ID:	074SB-0001-0001,0002-SO
Inject. Date:	18-Apr-2013 05:04:40	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018961-031		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP5F
Injection Vol:	1.0 ul	ALS Bottle#:	31
Lims Batch ID:	82317	Lims Sample ID:	31
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\TPH5F.m		
Last Update:	18-Apr-2013 11:06:27	Calib Date:	05-Mar-2013 14:42:58
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK028		

	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
1	Tetratetracontane					1
	23.885					
A 2	C28-C36					
	15.218	13.694	-16.742	4445804	0	
A 3	C10-C34					
	10.464	5.323	- 15.605	7548147	39.5	
A 4	C32-C44					1
		0.0	- 0.100			
A 5	C12-C22					
		6.669	- 11.142			
A 6	C22-C32					
		11.142	-14.824			
7	n-Octane					
	2.981	2.967	0.014	208108	0	
$ 8	n-Nonane					
	4.386	4.383	0.003	11286463	55.0	
9	n-Decane					
	5.334	5.323	0.011	18525	0	
10	Dodecane					
	6.686	6.669	0.017	1416	0	
11	n-Tetradecane					
	7.746	7.728	0.018	1214	0	
A 12	C10-C20					
		5.323	- 10.225			
13	Hexadecane					
	8.688	8.655	0.033	3414	0	
A 14	C10-C28					
	9.481	5.169	- 13.794	2571401	0	

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A 15 Diesel					
5.323 - 13.629					
16 n-Octadecane					
9.505	9.492	0.013	1265	0	
A 17 C10-C32					
5.323 - 14.824					
18 icosane					
10.226	10.256	-0.030	14036	0	
19 n-Docosane					
11.155	11.142	0.013	4579	0	
A 20 C12-C24					
3.039 - 6.058					
21 n-Tetracosane					
12.155	12.148	0.007	5784	0	
A 22 C20-C34					
12.948	10.256	-15.605	6163418	32.2	
23 n-Hexacosane					
12.971	12.955	0.016	2865	0	
24 n-Octacosane					
13.625	13.629	-0.004	28138	0	
25 Triacontane					
14.225	14.217	0.008	67462	0	
26 Dotriacontane					
14.832	14.824	0.008	88277	0	
27 Tetratriacontane					
15.623	15.605	0.018	73727	0	
A 28 C24-C40					
16.313	12.148	-20.478	15314626	80.1	
29 n-Hexatriacontane					
16.705	16.684	0.021	76526	0	
30 C38					
18.205	18.220	-0.015	22858	0	
31 C40					
20.470	20.478	-0.008	33777	0	
A 32 C20-C36					
13.470	10.256	-16.684	8970145	46.9	
A 34 C24-C44					
18.017	12.148	-23.885	16623083	86.9	
A 35 C10-C24					
5.323 - 12.148					

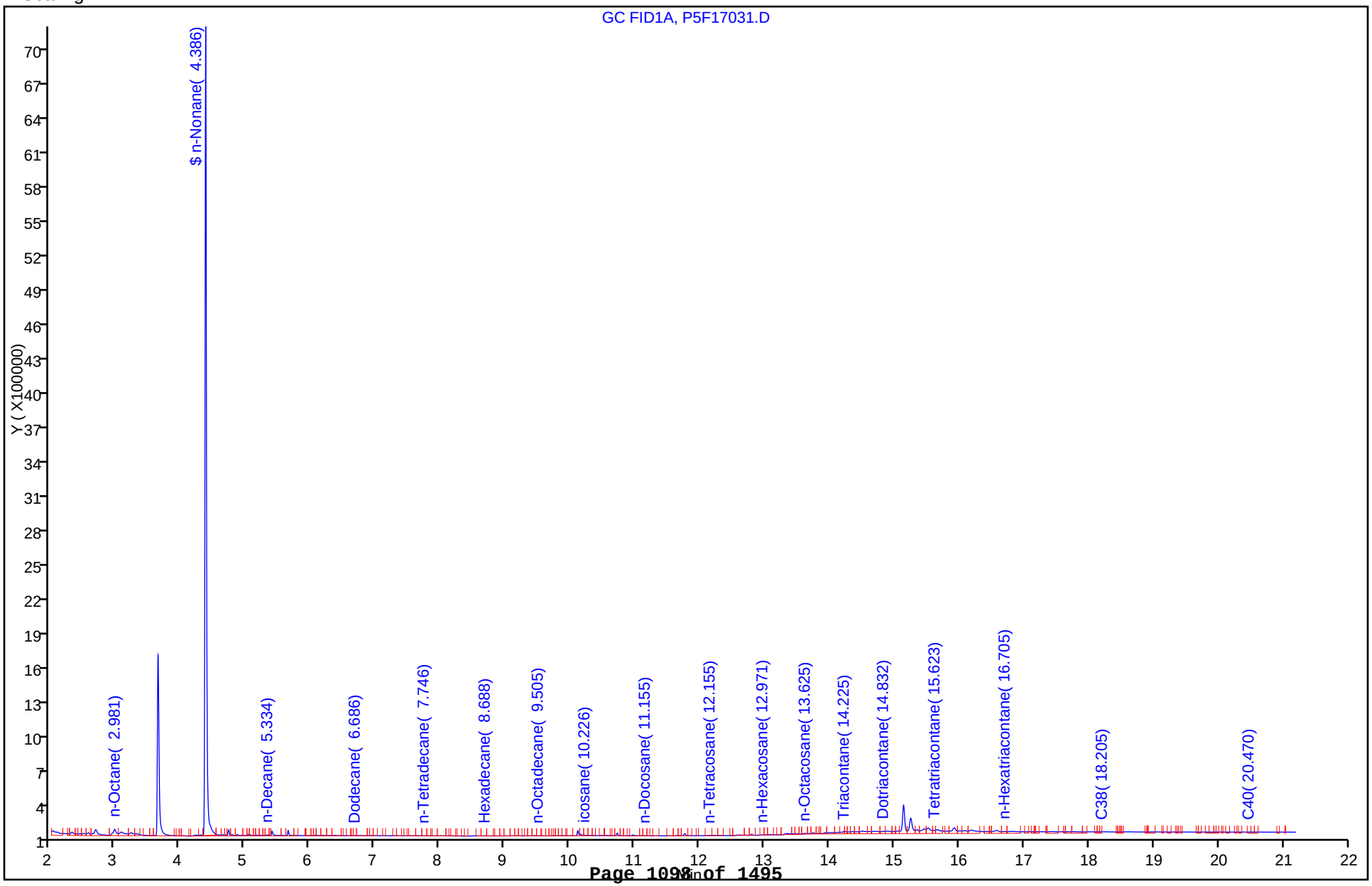
QC Flag Legend

Processing Flags
1 - Missing Peaks

Report Date: 18-Apr-2013 11:06:30 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17031.D		
Injection Date:	18-Apr-2013 05:04:40	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0001-0001,0002-SO	Instrument ID:	A2HP5F
Lims Batch ID:	82317	Lims Sample ID:	31
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Y Scaling:			



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0002-0001-SO | Lab Sample ID: 240-22756-2

Matrix: Solid | Lab File ID: P5F17034.D

Analysis Method: 8015B_DRO/DOD | Date Collected: 04/02/2013 09:50

Extraction Method: 3540C | Date Extracted: 04/16/2013 09:42

Sample wt/vol: 29.99(g) | Date Analyzed: 04/18/2013 06:36

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 14.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82317 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	11	U	19	11	11
STL00272	C20-C34	11	U	19	11	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	49		10-110

TestAmerica Canton
Target Compound Quantitation Report

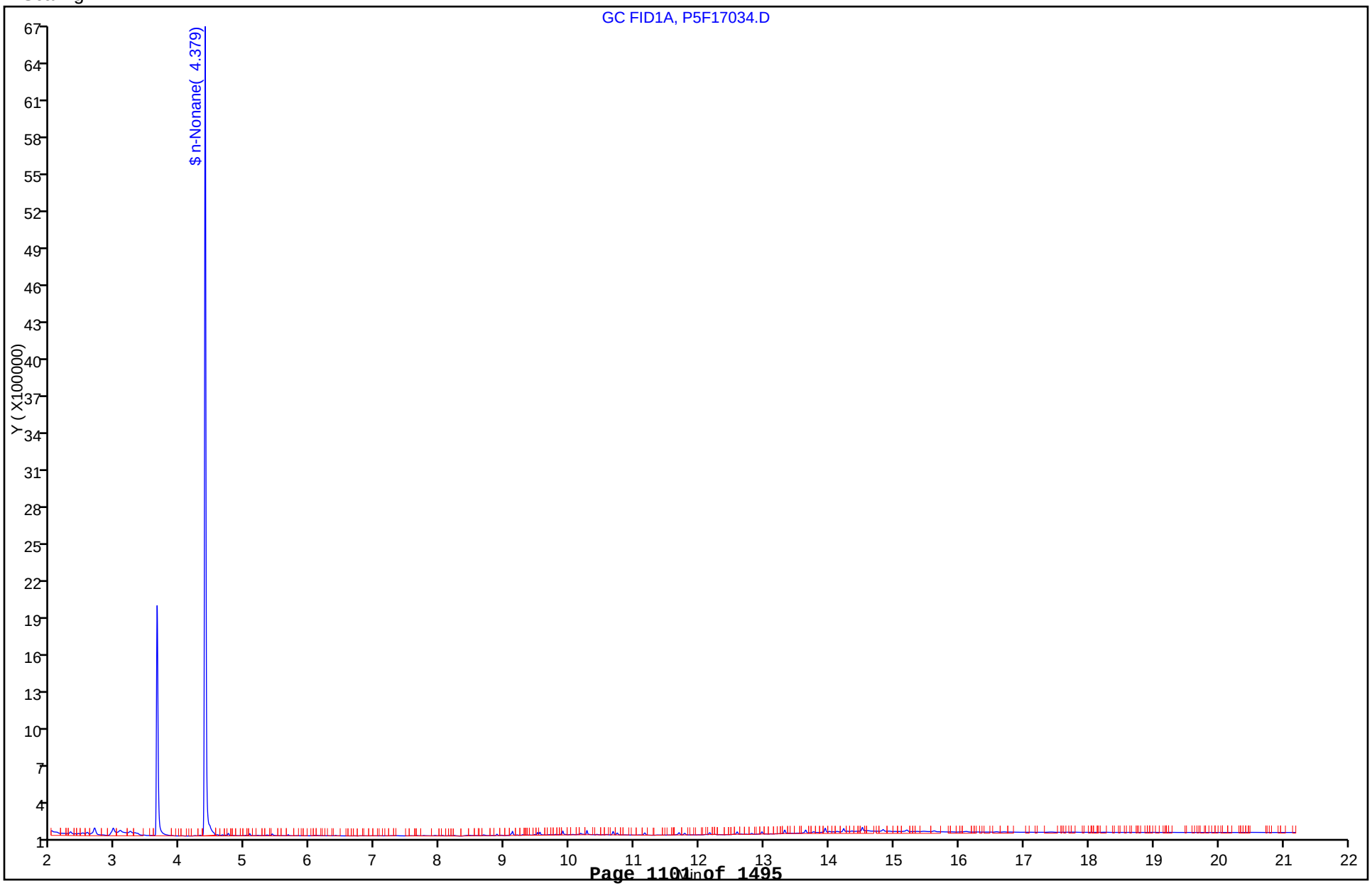
Data File:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17034.D		
Lims ID:	240-22756-B-2-B	Client ID:	074SB-0002-0001-SO
Inject. Date:	18-Apr-2013 06:36:05	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018961-034		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP5F
Injection Vol:	1.0 ul	ALS Bottle#:	34
Lims Batch ID:	82317	Lims Sample ID:	34
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\TPH5F.m		
Last Update:	18-Apr-2013 11:06:27	Calib Date:	05-Mar-2013 14:42:58
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK028		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.379	4.383	-0.004	10102071	49.2	
A 12 C10-C20					
5.323 - 10.225					
A 15 Diesel					
5.323 - 13.629					
A 22 C20-C34					
10.256 -15.605					

Report Date: 18-Apr-2013 11:06:33 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17034.D		
Injection Date:	18-Apr-2013 06:36:05	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0002-0001-SO	Instrument ID:	A2HP5F
Lims Batch ID:	82317	Lims Sample ID:	34
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Y Scaling:			



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0003-0001-SO | Lab Sample ID: 240-22756-3

Matrix: Solid | Lab File ID: P5F17035.D

Analysis Method: 8015B_DRO/DOD | Date Collected: 04/02/2013 09:50

Extraction Method: 3540C | Date Extracted: 04/16/2013 09:42

Sample wt/vol: 29.56(g) | Date Analyzed: 04/18/2013 07:06

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 14.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82317 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	11	U	20	11	11
STL00272	C20-C34	11	U	20	11	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	52		10-110

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17035.D		
Lims ID:	240-22756-B-3-B	Client ID:	074SB-0003-0001-SO
Inject. Date:	18-Apr-2013 07:06:43	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018961-035		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP5F
Injection Vol:	1.0 ul	ALS Bottle#:	35
Lims Batch ID:	82317	Lims Sample ID:	35
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\TPH5F.m		
Last Update:	18-Apr-2013 11:06:27	Calib Date:	05-Mar-2013 14:42:58
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK028		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.381	4.383	-0.002	10732329	52.3	
A 12 C10-C20					
5.323 - 10.225					
A 15 Diesel					
5.323 - 13.629					
A 22 C20-C34					
10.256 -15.605					

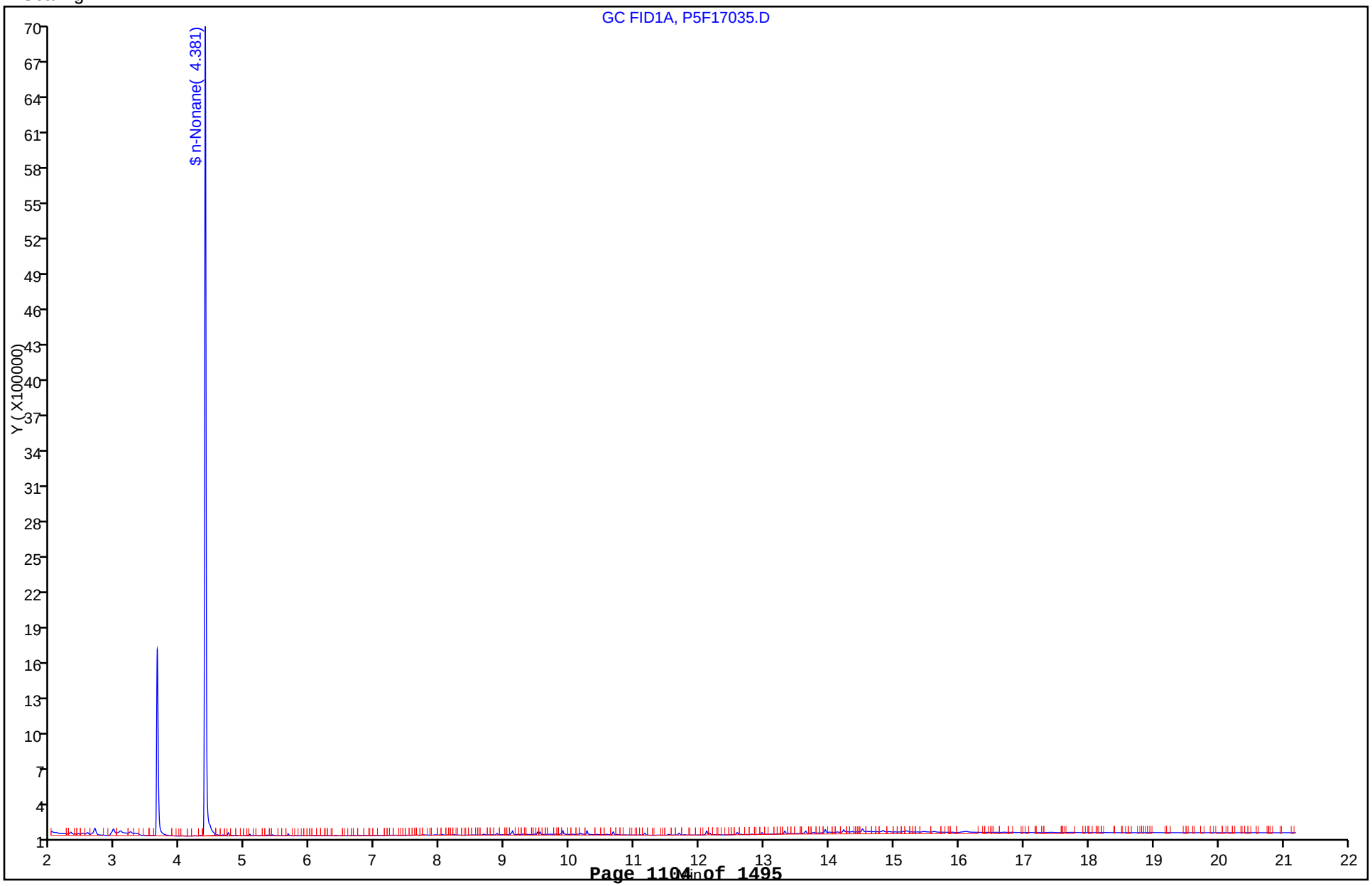
Report Date: 18-Apr-2013 11:06:34 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17035.D

Injection Date:	18-Apr-2013 07:06:43	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0003-0001-SO	Instrument ID:	A2HP5F
Lims Batch ID:	82317	Lims Sample ID:	35
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0005-0001-SO Lab Sample ID: 240-22756-4

Matrix: Solid Lab File ID: P5F18023.D

Analysis Method: 8015B_DRO/DOD Date Collected: 04/02/2013 09:18

Extraction Method: 3540C Date Extracted: 04/16/2013 09:42

Sample wt/vol: 30.04(g) Date Analyzed: 04/19/2013 02:09

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ID:

% Moisture: 22.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 82531 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	12	U	21	12	12
STL00272	C20-C34	58		21	12	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	58		10-110

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP5F\20130418-19013.b\P5F18023.D		
Lims ID:	240-22756-B-4-B	Client ID:	074SB-0005-0001-SO
Inject. Date:	19-Apr-2013 02:09:08	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0019013-023		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP5F
Injection Vol:	1.0 ul	ALS Bottle#:	23
Lims Batch ID:	82531	Lims Sample ID:	23
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP5F\20130418-19013.b\TPH5F.m		
Last Update:	19-Apr-2013 11:40:12	Calib Date:	18-Apr-2013 18:28:53
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5F\20130418-19013.b\P5F18008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$	8 n-Nonane					
	4.402	4.383	0.019	11919116	58.1	
A	12 C10-C20					
		5.355 - 10.274				
A	15 Diesel					
	9.502	5.355 - 13.648		18759626	98.1	
A	22 C20-C34					
	12.955	10.274 - 15.635		52234980	273.2	

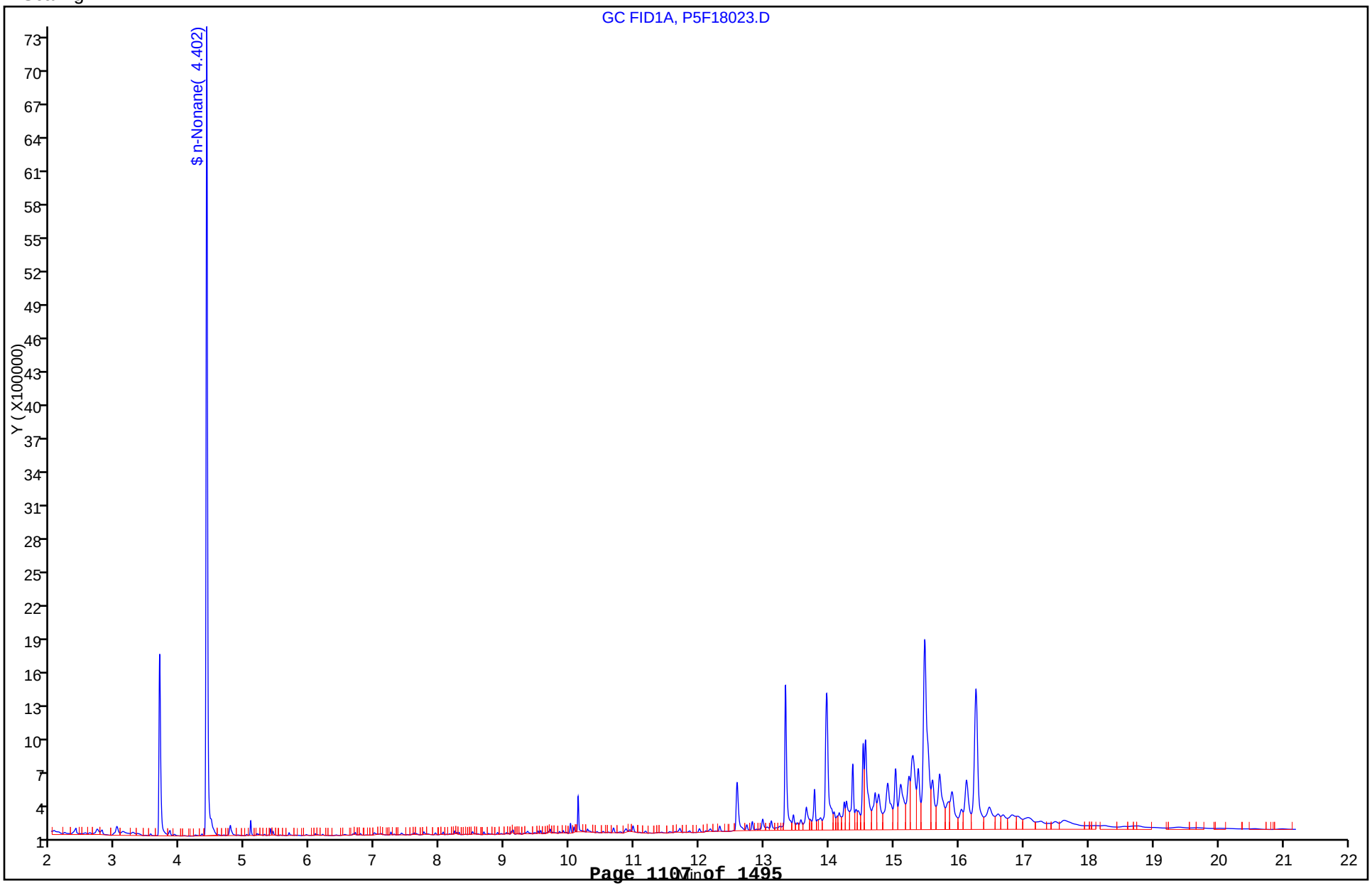
Report Date: 19-Apr-2013 11:40:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130418-19013.b\P5F18023.D

Injection Date:	19-Apr-2013 02:09:08	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0005-0001-SO	Instrument ID:	A2HP5F
Lims Batch ID:	82531	Lims Sample ID:	23
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



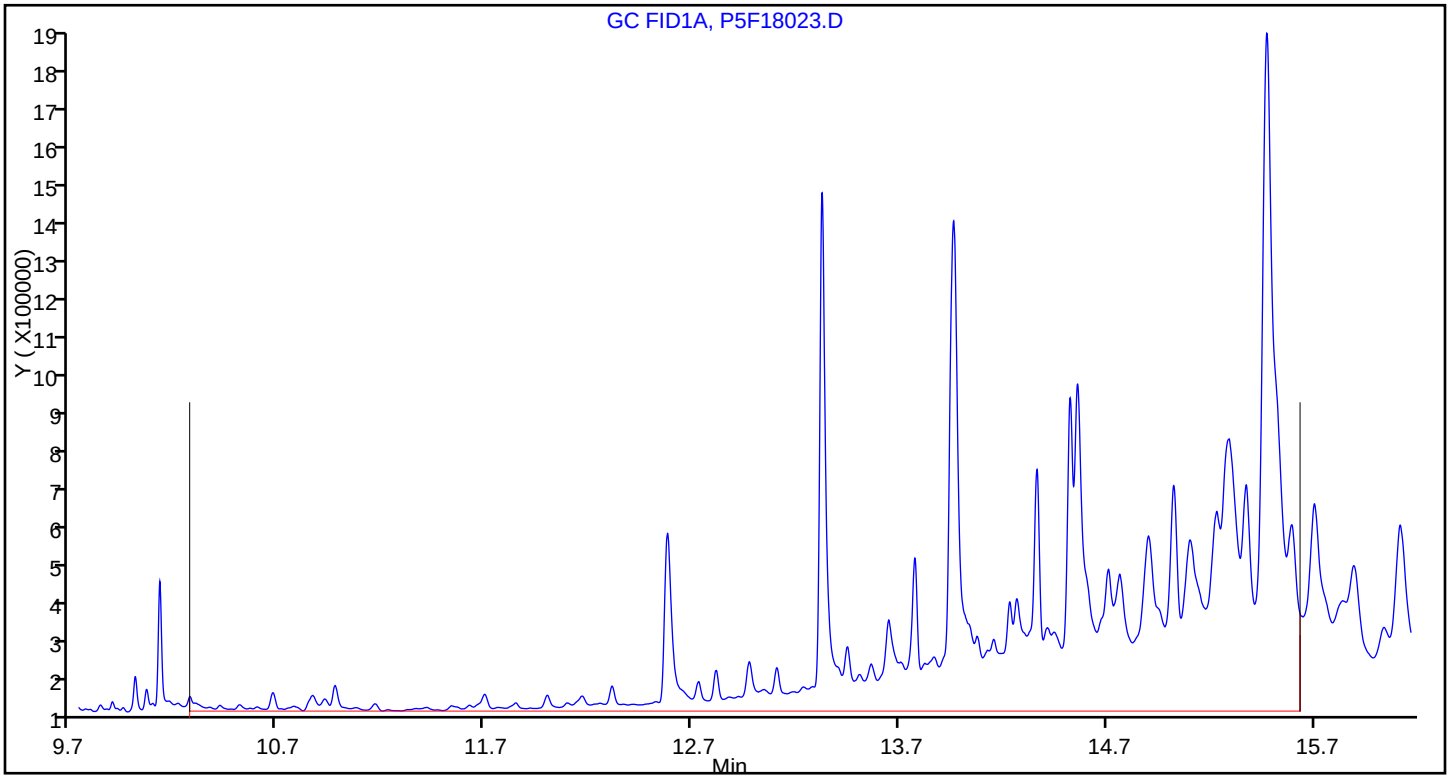
Report Date: 19-Apr-2013 11:40:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130418-19013.b\P5F18023.D

Injection Date:	19-Apr-2013 02:09:08	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0005-0001-SO	Instrument ID:	A2HP5F
Lims Batch ID:	82531	Lims Sample ID:	23
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

A 22 C20-C34, Detector: 1, GC FID1A



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0006-0001-SO | Lab Sample ID: 240-22756-5

Matrix: Solid | Lab File ID: P5F17038.D

Analysis Method: 8015B_DRO/DOD | Date Collected: 04/02/2013 10:13

Extraction Method: 3540C | Date Extracted: 04/16/2013 09:42

Sample wt/vol: 29.88(g) | Date Analyzed: 04/18/2013 08:37

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 17.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82317 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	11	U	20	11	11
STL00272	C20-C34	11	U	20	11	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	51		10-110

TestAmerica Canton
Target Compound Quantitation Report

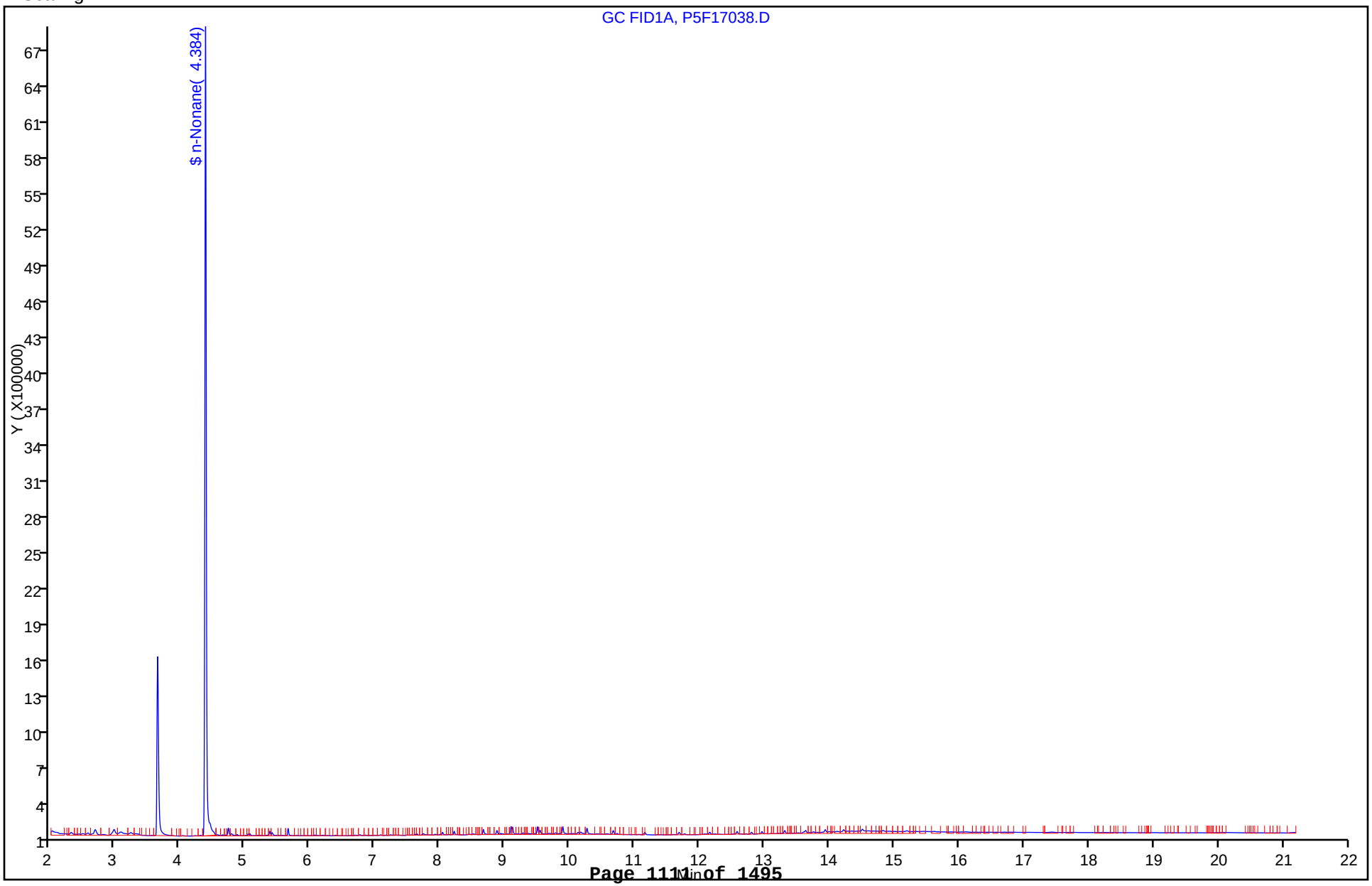
Data File:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17038.D		
Lims ID:	240-22756-E-5-B	Client ID:	074SB-0006-0001-SO
Inject. Date:	18-Apr-2013 08:37:17	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018961-038		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP5F
Injection Vol:	1.0 ul	ALS Bottle#:	38
Lims Batch ID:	82317	Lims Sample ID:	38
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\TPH5F.m		
Last Update:	18-Apr-2013 11:06:34	Calib Date:	05-Mar-2013 14:42:58
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK028		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.384	4.383	0.001	10504409	51.2	
A 12 C10-C20					
	5.323 - 10.225				
A 15 Diesel					
9.476	5.323 - 13.629		6289450	32.9	
A 22 C20-C34					
	10.256 -15.605				

Report Date: 18-Apr-2013 11:06:35 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17038.D		
Injection Date:	18-Apr-2013 08:37:17	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0006-0001-SO	Instrument ID:	A2HP5F
Lims Batch ID:	82317	Lims Sample ID:	38
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Y Scaling:			



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0007-0001-SO Lab Sample ID: 240-22756-6

Matrix: Solid Lab File ID: P5F17039.D

Analysis Method: 8015B_DRO/DOD Date Collected: 04/02/2013 11:33

Extraction Method: 3540C Date Extracted: 04/16/2013 09:42

Sample wt/vol: 29.56(g) Date Analyzed: 04/18/2013 09:07

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ID:

% Moisture: 14.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 82317 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	11	U	20	11	11
STL00272	C20-C34	11	U	20	11	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	61		10-110

TestAmerica Canton
Target Compound Quantitation Report

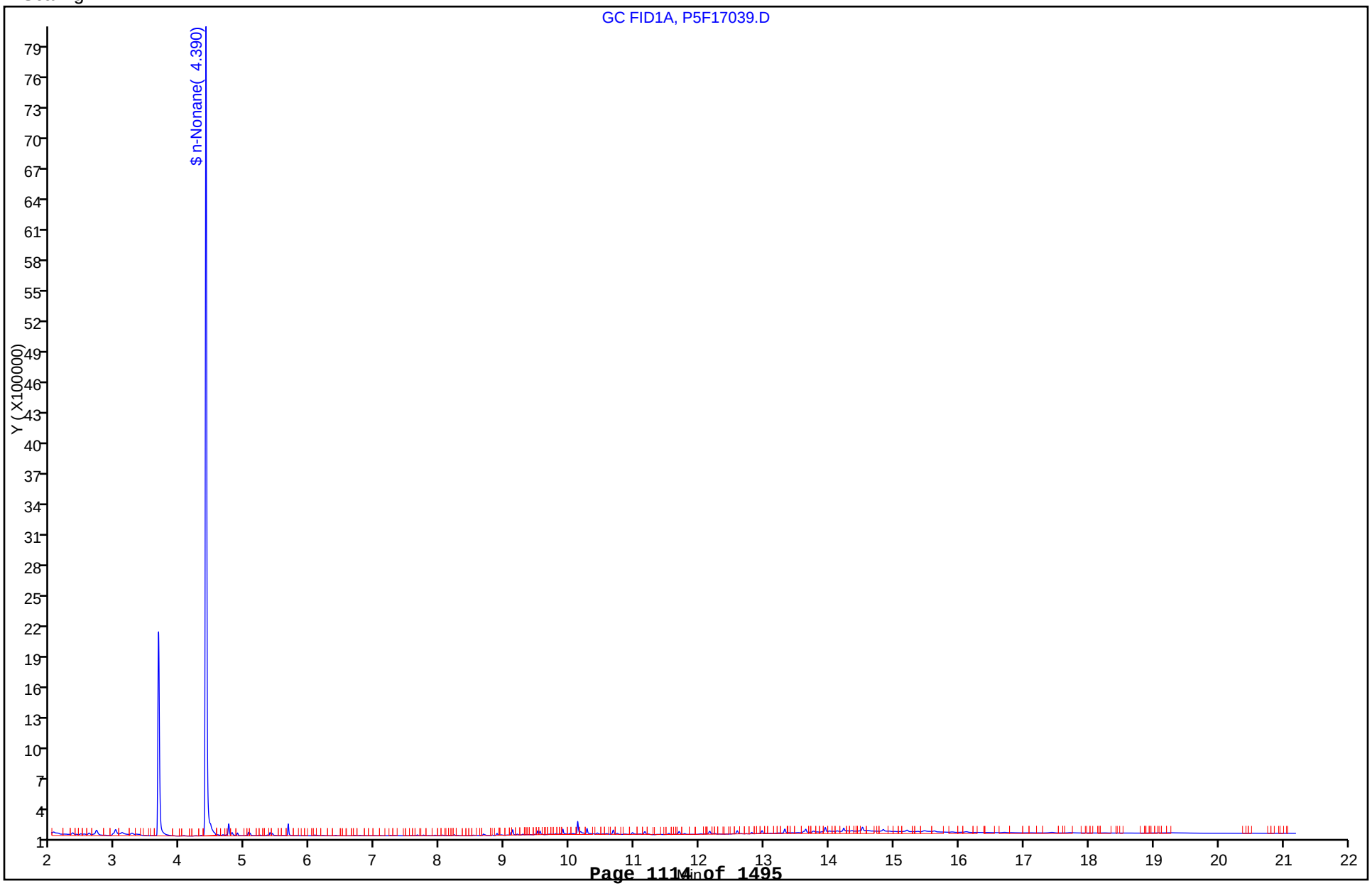
Data File:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17039.D		
Lims ID:	240-22756-B-6-B	Client ID:	074SB-0007-0001-SO
Inject. Date:	18-Apr-2013 09:07:36	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018961-039		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP5F
Injection Vol:	1.0 ul	ALS Bottle#:	39
Lims Batch ID:	82317	Lims Sample ID:	39
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\TPH5F.m		
Last Update:	18-Apr-2013 11:06:34	Calib Date:	05-Mar-2013 14:42:58
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK028		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.390	4.383	0.007	12597565	61.4	
A 12 C10-C20					
	5.323 - 10.225				
A 15 Diesel					
9.476	5.323 - 13.629		6780131	35.5	
A 22 C20-C34					
12.931	10.256 - 15.605		6168919	32.3	

Report Date: 18-Apr-2013 11:06:36 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17039.D		
Injection Date:	18-Apr-2013 09:07:36	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0007-0001-SO	Instrument ID:	A2HP5F
Lims Batch ID:	82317	Lims Sample ID:	39
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Y Scaling:			



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0008-0001-SO | Lab Sample ID: 240-22756-7

Matrix: Solid | Lab File ID: P5F18024.D

Analysis Method: 8015B_DRO/DOD | Date Collected: 04/02/2013 12:01

Extraction Method: 3540C | Date Extracted: 04/16/2013 09:42

Sample wt/vol: 29.61(g) | Date Analyzed: 04/19/2013 02:39

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 17.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82531 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	25		20	11	11
STL00272	C20-C34	11	U	20	11	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	52		10-110

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP5F\20130418-19013.b\P5F18024.D		
Lims ID:	240-22756-B-7-B	Client ID:	074SB-0008-0001-SO
Inject. Date:	19-Apr-2013 02:39:40	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0019013-024		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP5F
Injection Vol:	1.0 ul	ALS Bottle#:	24
Lims Batch ID:	82531	Lims Sample ID:	24
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP5F\20130418-19013.b\TPH5F.m		
Last Update:	19-Apr-2013 11:40:12	Calib Date:	18-Apr-2013 18:28:53
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5F\20130418-19013.b\P5F18008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.399	4.383	0.016	10609654	51.7	
A 12 C10-C20					
7.795	5.355 - 10.274		23481586	122.8	
A 15 Diesel					
9.502	5.355 - 13.648		28994419	151.6	
A 22 C20-C34					
12.955	10.274 -15.635		9381648	49.1	

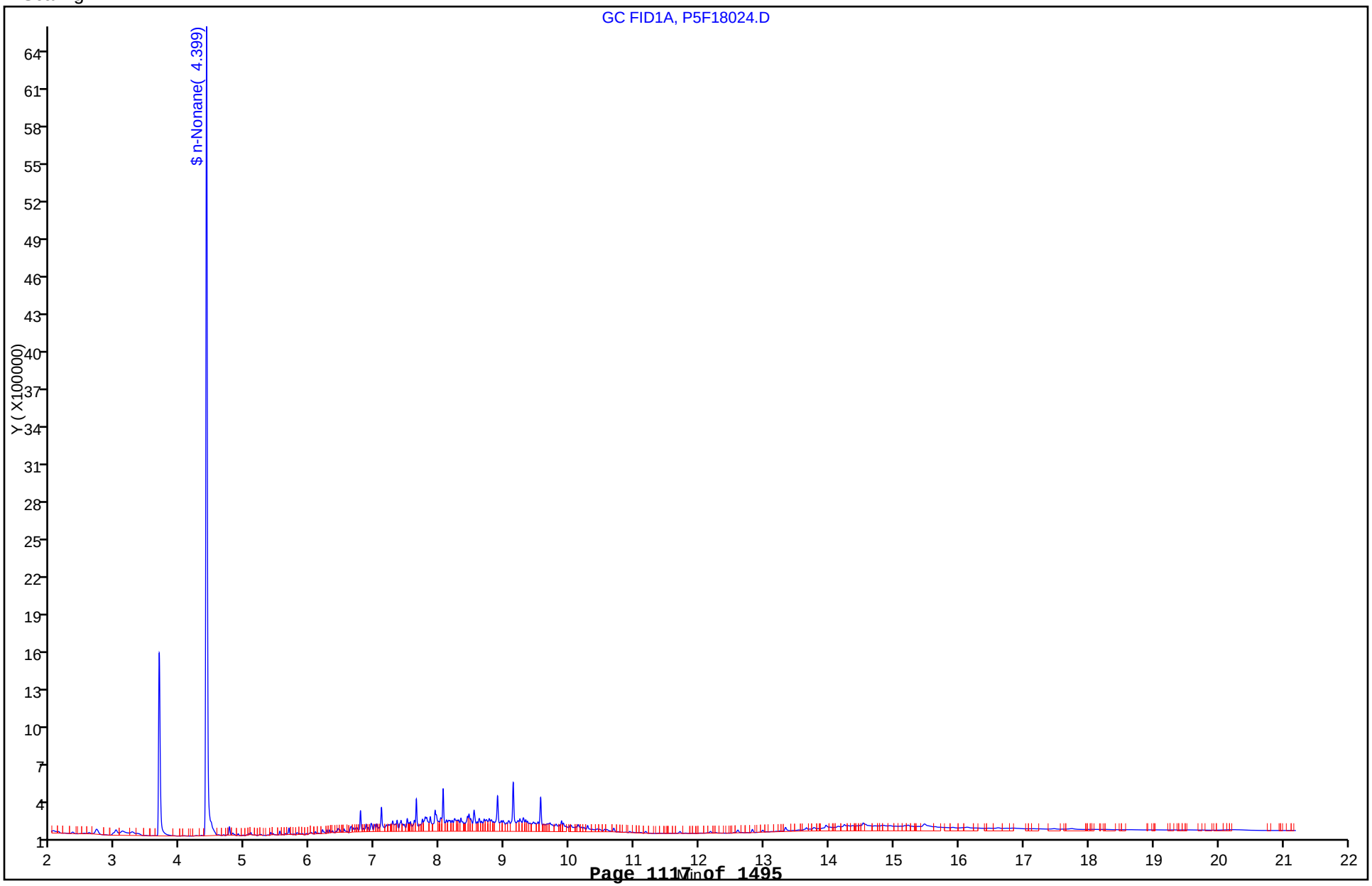
Report Date: 19-Apr-2013 11:40:16 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130418-19013.b\P5F18024.D

Injection Date:	19-Apr-2013 02:39:40	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0008-0001-SO	Instrument ID:	A2HP5F
Lims Batch ID:	82531	Lims Sample ID:	24
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



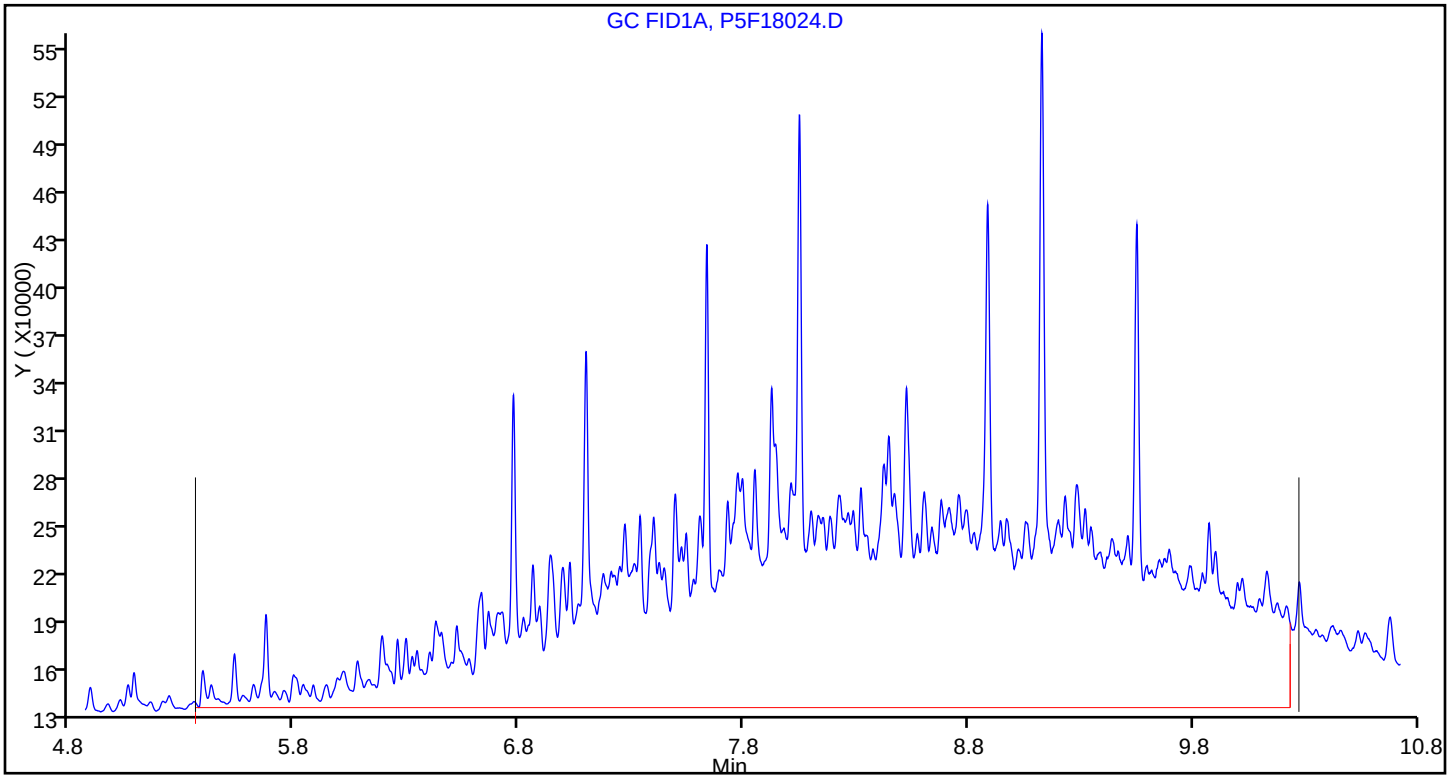
Report Date: 19-Apr-2013 11:40:16 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130418-19013.b\P5F18024.D

Injection Date:	19-Apr-2013 02:39:40	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0008-0001-SO	Instrument ID:	A2HP5F
Lims Batch ID:	82531	Lims Sample ID:	24
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

A 12 C10-C20, Detector: 1, GC FID1A



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0009-0001-SO Lab Sample ID: 240-22756-8

Matrix: Solid Lab File ID: P6F18014.D

Analysis Method: 8015B_DRO/DOD Date Collected: 04/02/2013 12:38

Extraction Method: 3540C Date Extracted: 04/16/2013 10:04

Sample wt/vol: 30.08(g) Date Analyzed: 04/18/2013 21:44

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 14.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 82537 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	11	U	20	11	11
STL00272	C20-C34	11	U	20	11	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	53		10-110

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18014.D		
Lims ID:	240-22756-B-8-B	Client ID:	074SB-0009-0001-SO
Inject. Date:	18-Apr-2013 21:44:40	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0019017-014		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP6F
Injection Vol:	1.0 ul	ALS Bottle#:	14
Lims Batch ID:	82537	Lims Sample ID:	14
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\TPH6F.m		
Last Update:	19-Apr-2013 11:26:41	Calib Date:	17-Apr-2013 20:46:28
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

		RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
	1 Tetratetracontane	26.357					1
A	2 C28-C36	15.076	13.664	-16.488	1475048	0	
A	3 C10-C34		5.098	- 15.366			
A	4 C32-C44		14.684	-26.357			
A	5 C12-C22		6.497	- 10.932			
A	6 C22-C32		10.932	-14.684			
	7 n-Octane	2.412	2.413	-0.001	56193	0	
$	8 n-Nonane	4.058	4.065	-0.007	10069217	52.9	
	9 n-Decane	5.103	5.098	0.005	751	0	
	10 Dodecane	6.497					1
	11 n-Tetradecane	7.547	7.584	-0.037	1891	0	
A	12 C10-C20		5.098	- 10.153			
	13 Hexadecane	8.550	8.529	0.021	4776	0	
A	14 C10-C28	9.364	5.064	- 13.664	2113642	0	

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A 15 Diesel					
5.098 - 13.526					
16 n-Octadecane					1
9.379					
A 17 C10-C32					
5.098 - 14.684					
18 icosane					
10.187	10.153	0.034	9982	0	
19 n-Docosane					
10.958	10.932	0.026	12797	0	
A 20 C12-C24					
6.497 - 11.967					
21 n-Tetracosane					
11.989	11.967	0.022	2035	0	
A 22 C20-C34					
10.153 -15.366					
23 n-Hexacosane					
12.842	12.824	0.018	15396	0	
24 n-Octacosane					
13.535	13.526	0.009	15444	0	
25 Triacontane					
14.133	14.128	0.005	4229	0	
26 Dotriacontane					
14.709	14.684	0.025	15319	0	
27 Tetratriacontane					
15.348	15.366	-0.018	2948	0	
A 28 C24-C40					
11.967 -19.526					
29 n-Hexatriacontane					
16.327	16.295	0.032	555	0	
30 C38					1
17.616					
31 C40					1
19.526					
A 32 C20-C36					
10.153 -16.295					
A 33 C24-C44					
11.967 -26.357					
A 34 C10-C24					
5.098 - 11.967					
$ 35 o-Terphenyl					
0.032	0.0	0.032	2564	0	

QC Flag Legend

Processing Flags
1 - Missing Peaks

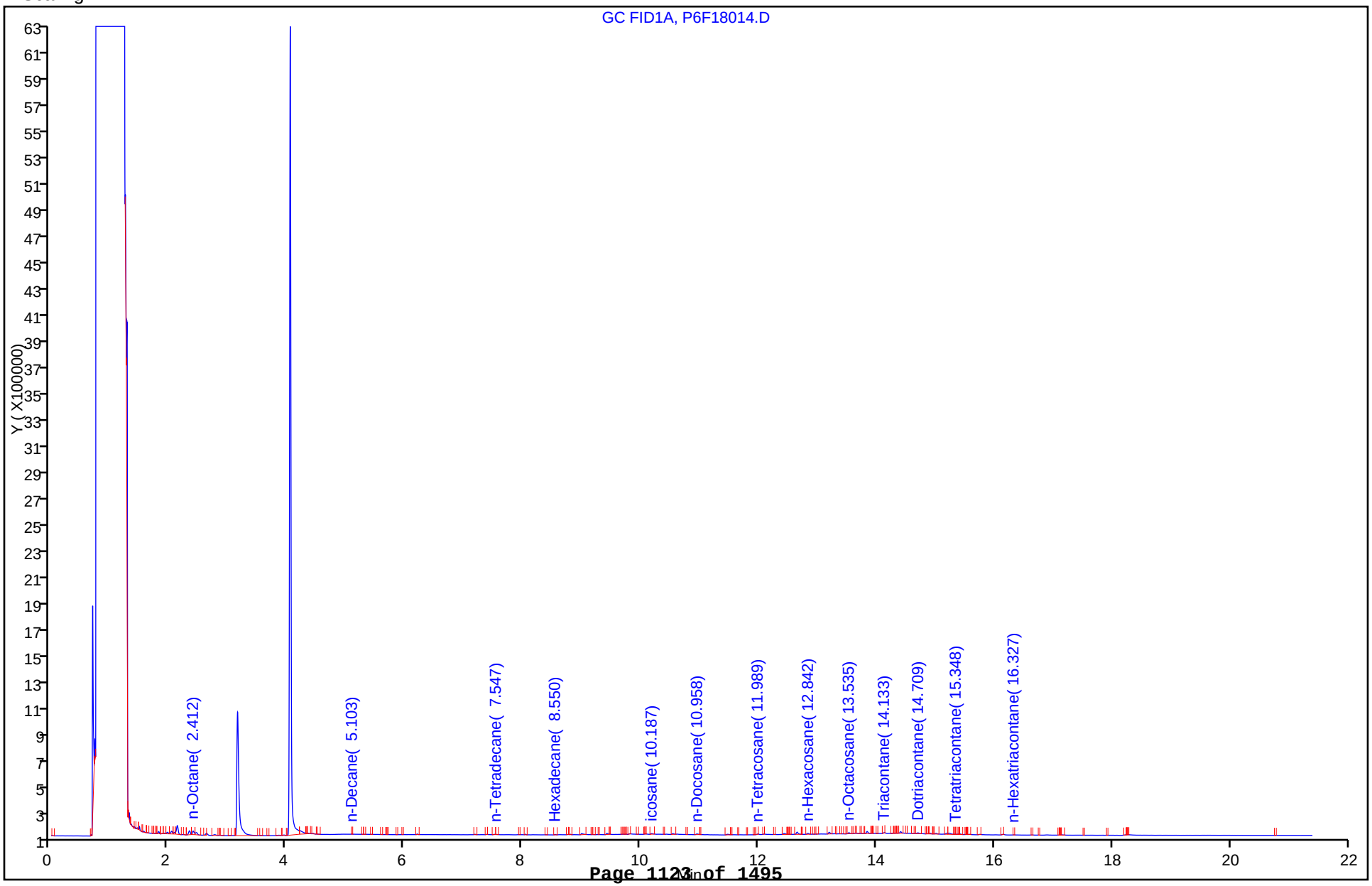
Report Date: 19-Apr-2013 11:26:45 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18014.D

Injection Date:	18-Apr-2013 21:44:40	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0009-0001-SO	Instrument ID:	A2HP6F
Lims Batch ID:	82537	Lims Sample ID:	14
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0016-0001-SO | Lab Sample ID: 240-22756-10

Matrix: Solid | Lab File ID: P6F18015.D

Analysis Method: 8015B_DRO/DOD | Date Collected: 04/02/2013 09:45

Extraction Method: 3540C | Date Extracted: 04/16/2013 10:04

Sample wt/vol: 29.55(g) | Date Analyzed: 04/18/2013 22:16

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 21.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82537 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	190		22	12	12
STL00272	C20-C34	28	M	22	12	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	51		10-110

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18015.D		
Lims ID:	240-22756-B-10-B	Client ID:	074SB-0016-0001-SO
Inject. Date:	18-Apr-2013 22:16:00	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0019017-015		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP6F
Injection Vol:	1.0 ul	ALS Bottle#:	15
Lims Batch ID:	82537	Lims Sample ID:	15
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\TPH6F.m		
Last Update:	22-Apr-2013 13:15:25	Calib Date:	17-Apr-2013 20:46:28
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK028		

First Level Reviewer: shockr Date: 22-Apr-2013 13:15:25

	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
	1 Tetratetracontane				1	
	26.357					
A	2 C28-C36					
	15.076	13.664	-16.488	8326345	0	
A	3 C10-C34					
	10.232	5.098	- 15.366	190754250	1015.4	
A	4 C32-C44					
	20.521	14.684	-26.357	8656730	46.1	
A	5 C12-C22					
	8.715	6.497	- 10.932	162407128	864.5	
A	6 C22-C32					
	12.808	10.932	-14.684	7135063	38.0	
	7 n-Octane					
	2.410	2.413	-0.003	70094	0	
$	8 n-Nonane					
	4.058	4.065	-0.007	9752755	51.2	
	9 n-Decane					
	5.070	5.098	-0.028	41268	0	
	10 Dodecane					
	6.510	6.497	0.013	455575	0	
	11 n-Tetradecane					
	7.599	7.584	0.015	1038561	0	
A	12 C10-C20					
	7.626	5.098	- 10.153	166156091	884.5	
	13 Hexadecane					
	8.530	8.529	0.001	144051	0	
A	14 C10-C28					
	9.364	5.064	- 13.664	183864280	0	

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A 15 Diesel					
9.312	5.098 - 13.526		183230576	975.3	
16 n-Octadecane					
9.391	9.379	0.012	29746	0	
A 17 C10-C32					
9.891	5.098 - 14.684		188723684	1004.6	
18 icosane					
10.146	10.153	-0.007	11486	0	
19 n-Docosane					
10.930	10.932	-0.002	6821	0	
A 20 C12-C24					
9.232	6.497 - 11.967		165673375	881.9	
21 n-Tetracosane					
11.965	11.967	-0.002	1109	0	
A 22 C20-C34					M
12.759	10.153 - 15.366		24733892	131.7	M
23 n-Hexacosane					
12.832	12.824	0.008	9683	0	
24 n-Octacosane					
13.527	13.526	0.001	3180	0	
25 Triacontane					
14.131	14.128	0.003	3065	0	
26 Dotriacontane					
14.685	14.684	0.001	1467	0	
27 Tetratriacontane					
15.377	15.366	0.011	1108	0	
A 28 C24-C40					
15.746	11.967 - 19.526		22195272	118.1	
29 n-Hexatriacontane					
16.315	16.295	0.020	501	0	
30 C38					1
17.616					
31 C40					
19.537	19.526	0.011	446	0	
A 32 C20-C36					
13.224	10.153 - 16.295		25418858	135.3	
A 33 C24-C44					
19.162	11.967 - 26.357		24205916	128.8	
A 34 C10-C24					
8.533	5.098 - 11.967		178308508	949.1	
$ 35 o-Terphenyl					
0.032	0.0	0.032	2057	0	

QC Flag Legend

Processing Flags
1 - Missing Peaks

Review Flags
M - Manually Integrated

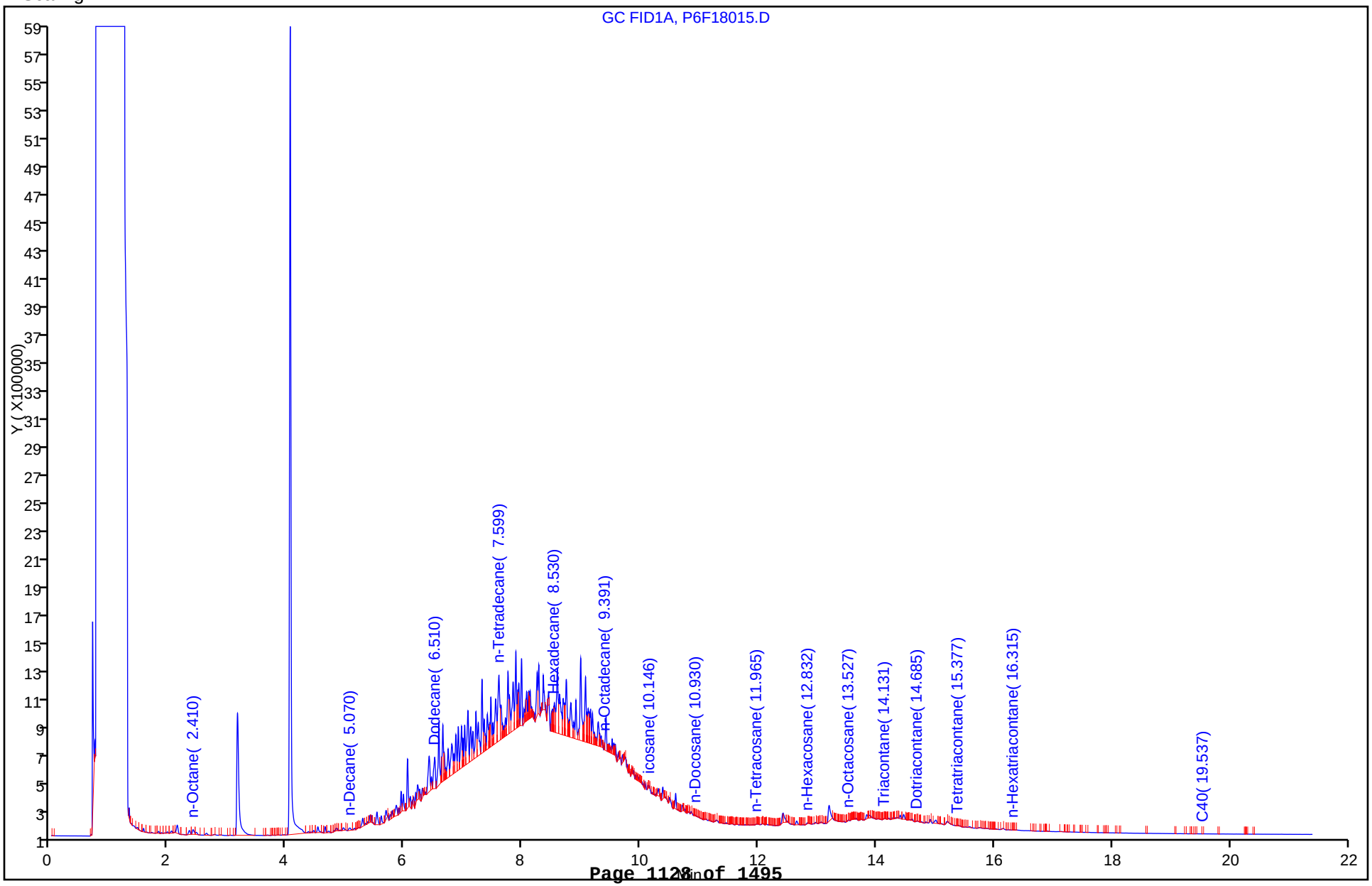
Report Date: 22-Apr-2013 13:15:25 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18015.D

Injection Date:	18-Apr-2013 22:16:00	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A2HP6F
Lims Batch ID:	82537	Lims Sample ID:	15
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



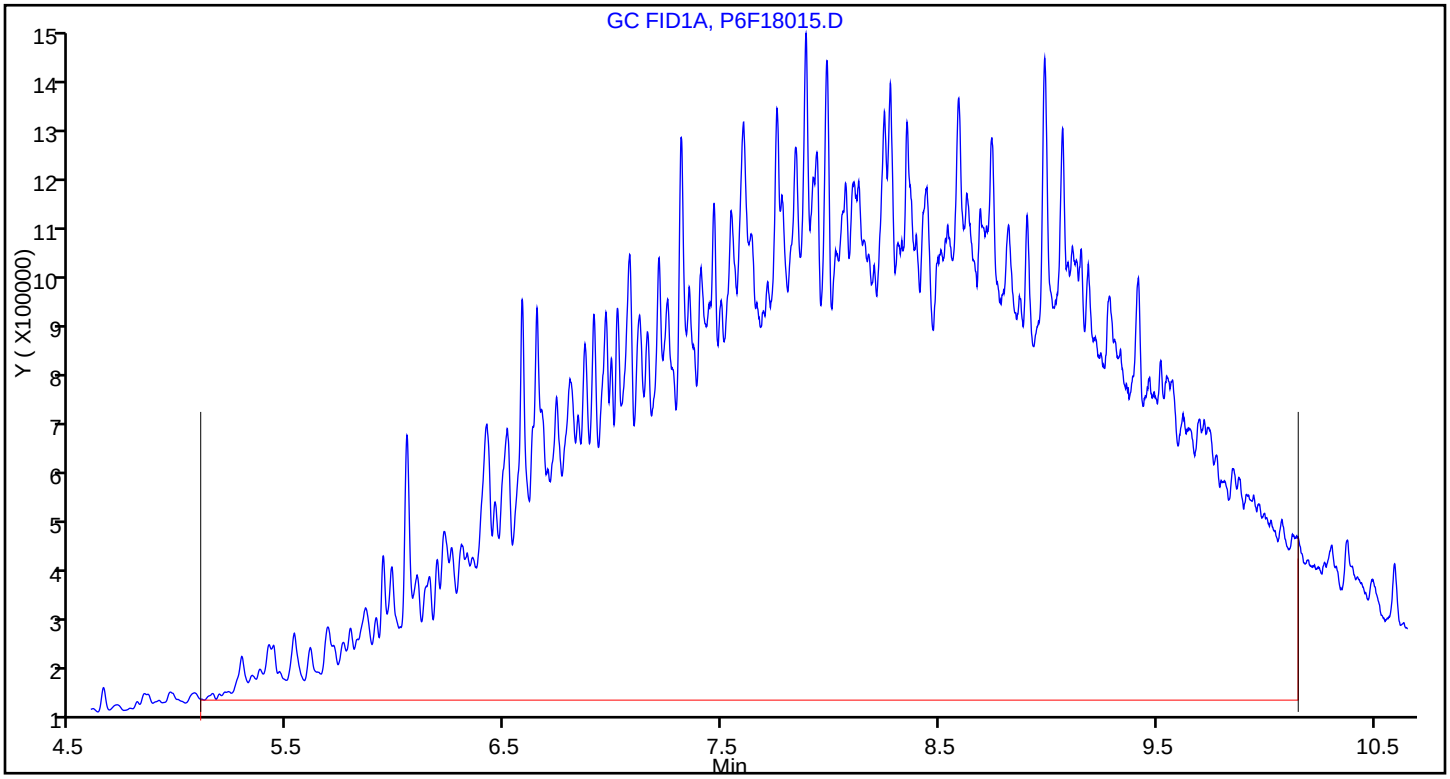
Report Date: 22-Apr-2013 13:15:25 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18015.D

Injection Date:	18-Apr-2013 22:16:00	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A2HP6F
Lims Batch ID:	82537	Lims Sample ID:	15
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

A 12 C10-C20, Detector: 1, GC FID1A

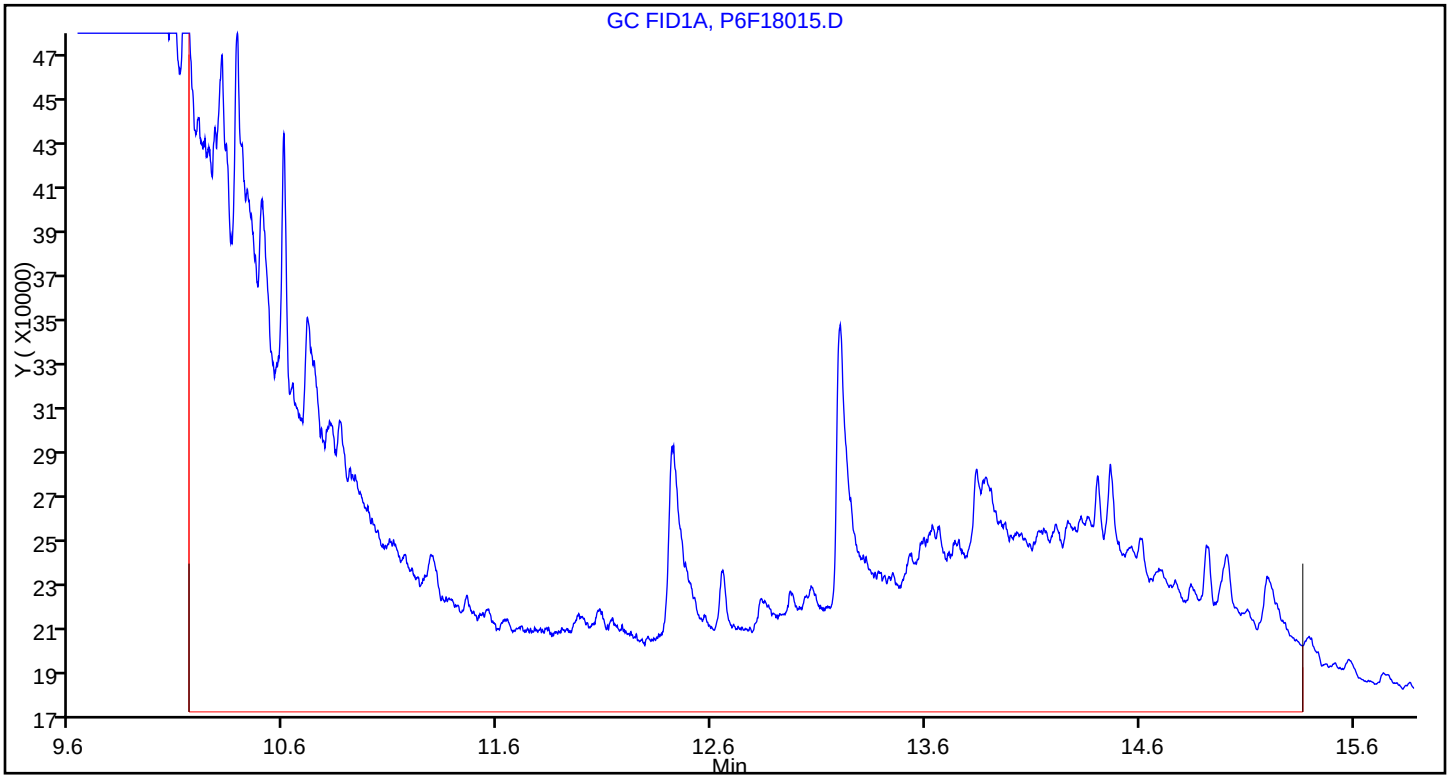


Report Date: 22-Apr-2013 13:15:26 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18015.D		
Injection Date:	18-Apr-2013 22:16:00	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A2HP6F
Lims Batch ID:	82537	Lims Sample ID:	15
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

A 22 C20-C34, Detector: 1, GC FID1A



Report Date: 22-Apr-2013 13:15:26 Chrom Revision: 2.0 01-Apr-2013 21:16:10

Manual Integration/User Assign Peak Report

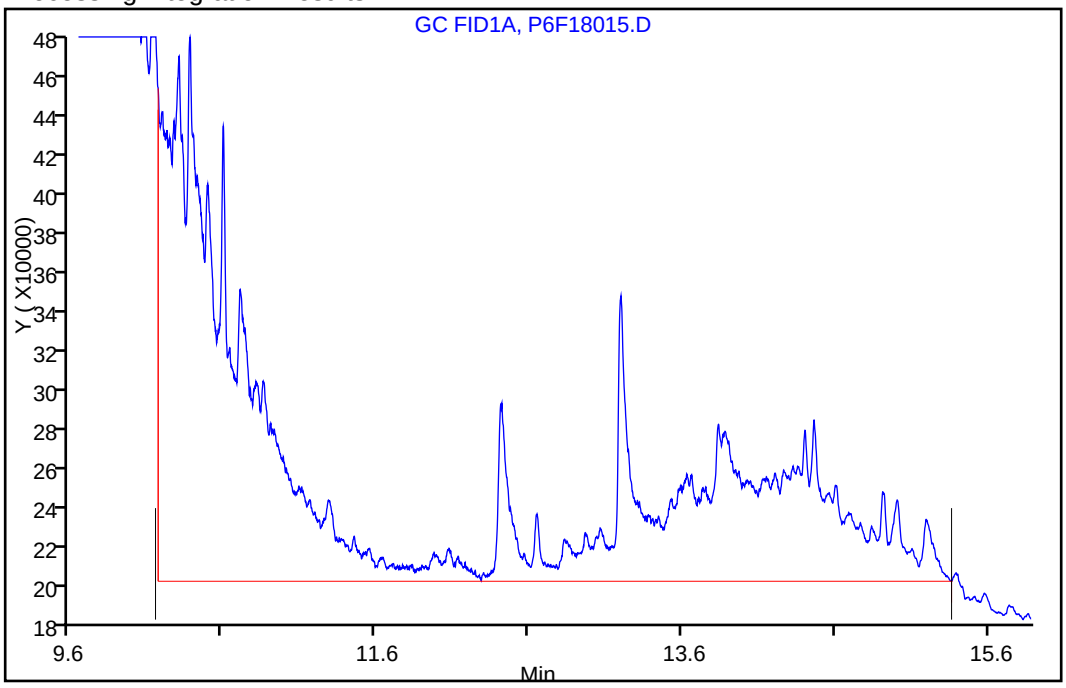
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18015.D		
Injection Date:	18-Apr-2013 22:16:00	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0016-0001-SO	Instrument ID:	A2HP6F
Lims Batch ID:	82537	Lims Sample ID:	15
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

A 22 C20-C34, Signal: 1, Type: quant, RT: 12.76

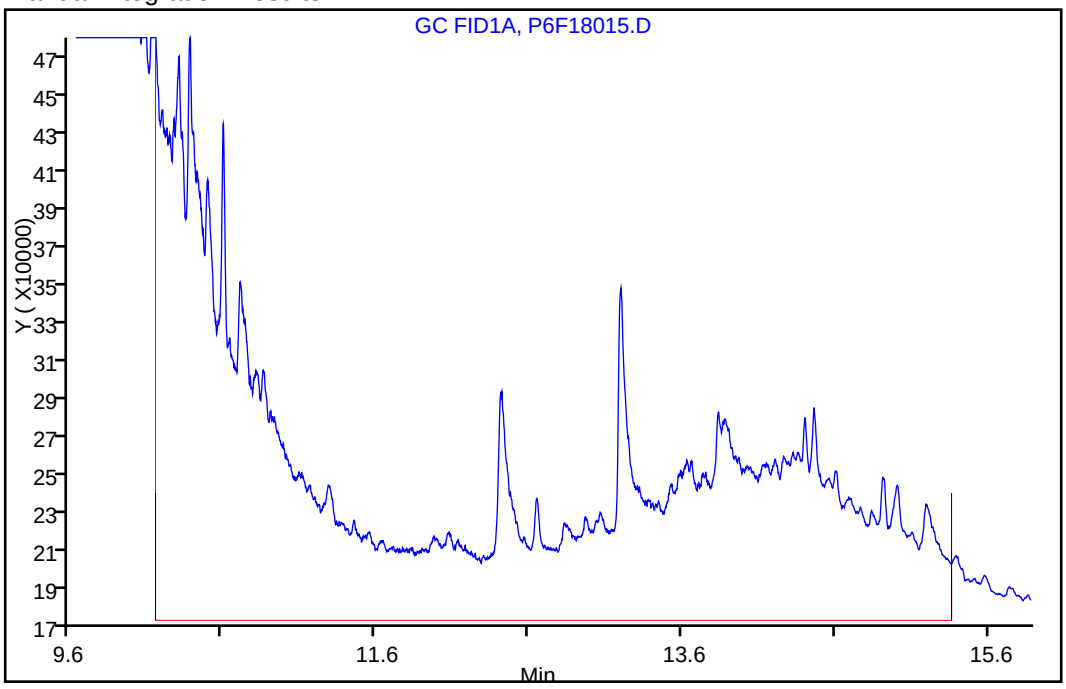
Processing Integration Results

RT: 12.77
Response: 15286218
Amount: 81.369467



Manual Integration Results

RT: 12.76
Response: 24733892
Amount: 131.6600



Reviewer: shockr, 22-Apr-2013 13:15:25
Audit Action: Manually Integrated
Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0017-0001-SO | Lab Sample ID: 240-22756-11

Matrix: Solid | Lab File ID: P6F18016.D

Analysis Method: 8015B_DRO/DOD | Date Collected: 04/02/2013 09:12

Extraction Method: 3540C | Date Extracted: 04/16/2013 10:04

Sample wt/vol: 29.75(g) | Date Analyzed: 04/18/2013 22:47

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 30.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82537 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	13	U	24	13	13
STL00272	C20-C34	18	J	24	13	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	53		10-110

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18016.D		
Lims ID:	240-22756-B-11-B	Client ID:	074SB-0017-0001-SO
Inject. Date:	18-Apr-2013 22:47:19	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0019017-016		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP6F
Injection Vol:	1.0 ul	ALS Bottle#:	16
Lims Batch ID:	82537	Lims Sample ID:	16
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\TPH6F.m		
Last Update:	19-Apr-2013 11:26:41	Calib Date:	17-Apr-2013 20:46:28
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

		RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
	1 Tetratetracontane	26.357					1
A	2 C28-C36	15.076	13.664	-16.488	8321579	0	
A	3 C10-C34	10.232	5.098	- 15.366	15310747	81.5	
A	4 C32-C44	20.521	14.684	-26.357	7725290	41.1	
A	5 C12-C22		6.497	- 10.932			
A	6 C22-C32	12.808	10.932	-14.684	9880343	52.6	
	7 n-Octane	2.412	2.413	-0.001	90474	0	
$	8 n-Nonane	4.058	4.065	-0.007	10140032	53.2	
	9 n-Decane	5.098					1
	10 Dodecane	6.497					1
	11 n-Tetradecane	7.590	7.584	0.006	465	0	
A	12 C10-C20		5.098	- 10.153			
	13 Hexadecane	8.546	8.529	0.017	3005	0	
A	14 C10-C28	9.364	5.064	- 13.664	6410333	0	

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A 15 Diesel					
9.312	5.098 - 13.526		5905105	31.4	
16 n-Octadecane					
9.397	9.379	0.018	699	0	
A 17 C10-C32					
9.891	5.098 - 14.684		11460538	61.0	
18 icosane					
10.154	10.153	0.001	13530	0	
19 n-Docosane					
10.940	10.932	0.008	15658	0	
A 20 C12-C24					
	6.497 - 11.967				
21 n-Tetracosane					
11.970	11.967	0.003	6375	0	
A 22 C20-C34					
12.759	10.153 - 15.366		14126189	75.2	
23 n-Hexacosane					
12.829	12.824	0.005	114874	0	
24 n-Octacosane					
13.524	13.526	-0.002	133786	0	
25 Triacontane					
14.125	14.128	-0.003	42985	0	
26 Dotriacontane					
14.697	14.684	0.013	20257	0	
27 Tetratriacontane					
15.389	15.366	0.023	127159	0	
A 28 C24-C40					
15.746	11.967 - 19.526		16828873	89.6	
29 n-Hexatriacontane					
16.325	16.295	0.030	6641	0	
30 C38					1
	17.616				
31 C40					1
	19.526				
A 32 C20-C36					
13.224	10.153 - 16.295		16065261	85.5	
A 33 C24-C44					
19.162	11.967 - 26.357		17813658	94.8	
A 34 C10-C24					
	5.098 - 11.967				
$ 35 o-Terphenyl					
0.032	0.0	0.032	2884	0	

QC Flag Legend

Processing Flags
1 - Missing Peaks

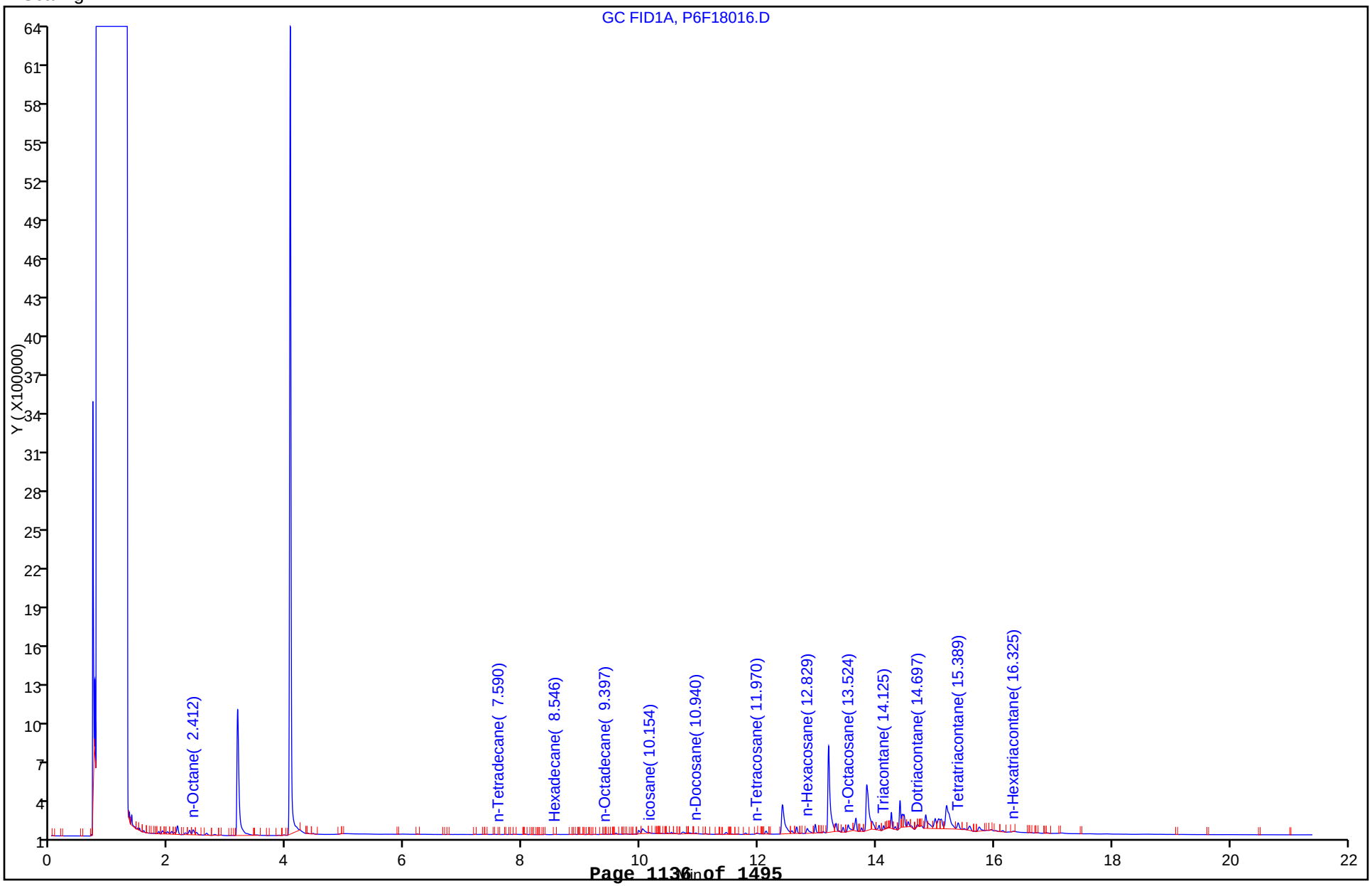
Report Date: 19-Apr-2013 11:26:47 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18016.D

Injection Date:	18-Apr-2013 22:47:19	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0017-0001-SO	Instrument ID:	A2HP6F
Lims Batch ID:	82537	Lims Sample ID:	16
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:

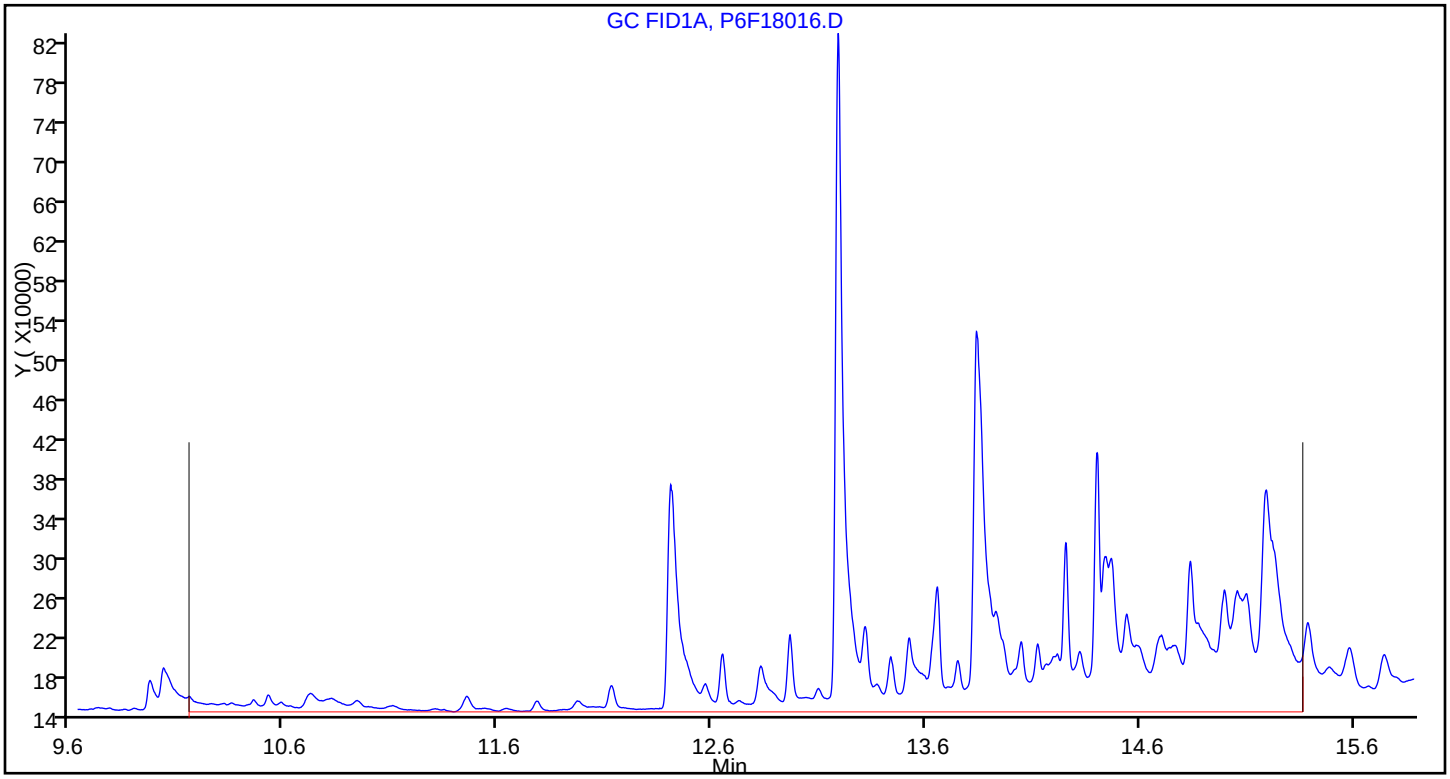


Report Date: 19-Apr-2013 11:26:47 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18016.D		
Injection Date:	18-Apr-2013 22:47:19	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0017-0001-SO	Instrument ID:	A2HP6F
Lims Batch ID:	82537	Lims Sample ID:	16
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

A 22 C20-C34, Detector: 1, GC FID1A



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0018-0001-SO Lab Sample ID: 240-22756-12

Matrix: Solid Lab File ID: P6F19008.D

Analysis Method: 8015B_DRO/DOD Date Collected: 04/02/2013 10:08

Extraction Method: 3540C Date Extracted: 04/16/2013 10:04

Sample wt/vol: 30.17(g) Date Analyzed: 04/19/2013 20:29

Con. Extract Vol.: 5(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 15.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 82770 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	490	D	98	54	54
STL00272	C20-C34	54	U	98	54	54

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	46		10-110

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP6F\20130419-19075.b\P6F19008.D		
Lims ID:	240-22756-B-12-B	Client ID:	074SB-0018-0001-SO
Inject. Date:	19-Apr-2013 20:29:36	Dil. Factor:	5.0000
Sample Type:	Client		
Sample ID:	240-0019075-008		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP6F
Injection Vol:	1.0 ul	ALS Bottle#:	8
Lims Batch ID:	82770	Lims Sample ID:	8
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP6F\20130419-19075.b\TPH6F.m		
Last Update:	20-Apr-2013 09:06:40	Calib Date:	17-Apr-2013 20:46:28
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK001		

	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
1	Tetratetracontane					1
	26.357					
A	2 C28-C36					
	15.032	13.631	-16.434	3454109	0	
A	3 C10-C34					
	10.229	5.093	- 15.364	104513355	556.3	
A	4 C32-C44					
		14.684	-26.357			
A	5 C12-C22					
	8.713	6.494	- 10.932	92208217	490.8	
A	6 C22-C32					
		10.932	-14.684			
7	n-Octane					
	2.425	2.408	0.017	37382	0	
$	8 n-Nonane					
	4.058	4.060	-0.002	1739539	9.13	
9	n-Decane					
	5.080	5.093	-0.013	9057	0	
10	Dodecane					
	6.505	6.494	0.011	284098	0	
11	n-Tetradecane					
	7.592	7.582	0.010	487797	0	
A	12 C10-C20					
	7.622	5.093	- 10.115	95074180	506.1	
13	Hexadecane					
	8.540	8.527	0.013	112224	0	
A	14 C10-C28					
	9.343	5.055	- 13.631	102163627	0	

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A 15 Diesel					
9.309	5.093 - 13.525		101995054	542.9	
16 n-Octadecane					
9.388	9.378	0.010	17442	0	
A 17 C10-C32					
9.889	5.093 - 14.684		103847364	552.8	
18 icosane					
10.147	10.152	-0.005	2178	0	
19 n-Docosane					
10.939	10.932	0.007	2030	0	
A 20 C12-C24					
9.230	6.494 - 11.967		93411284	497.2	
21 n-Tetracosane					
11.985	11.967	0.018	711	0	
A 22 C20-C34					
12.768	10.152 - 15.364		9052544	48.2	
23 n-Hexacosane					
12.825	12.823	0.002	903	0	
24 n-Octacosane					
13.515	13.525	-0.010	471	0	
25 Triacontane					
14.123	14.127	-0.004	638	0	
26 Dotriacontane					
14.680	14.684	-0.004	1179	0	
27 Tetratriacontane					
15.370	15.364	0.006	1778	0	
A 28 C24-C40					
15.746	11.967 - 19.525		7493131	39.9	
29 n-Hexatriacontane					
16.274	16.295	-0.021	354	0	
30 C38					
17.618	17.617	0.001	641	0	
31 C40					1
19.525					
A 32 C20-C36					
13.223	10.152 - 16.295		12942978	68.9	
A 33 C24-C44					
19.162	11.967 - 26.357		7674478	40.9	
A 34 C10-C24					
8.530	5.093 - 11.967		101051194	537.9	
$ 35 o-Terphenyl					
0.035	0.0	0.035	5135	0	

QC Flag Legend

Processing Flags
1 - Missing Peaks

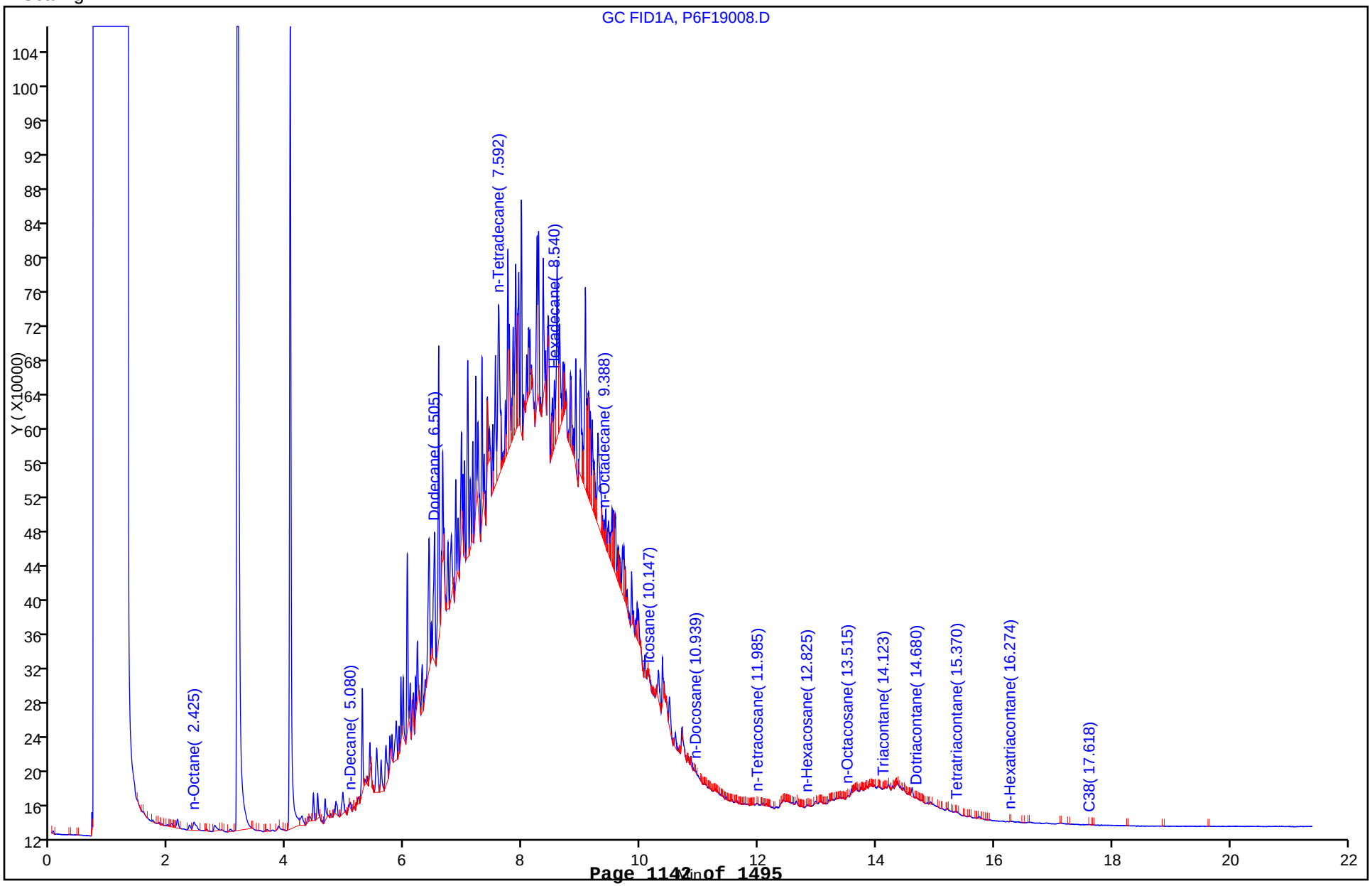
Report Date: 20-Apr-2013 09:06:42 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130419-19075.b\P6F19008.D

Injection Date:	19-Apr-2013 20:29:36	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0018-0001-SO	Instrument ID:	A2HP6F
Lims Batch ID:	82770	Lims Sample ID:	8
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



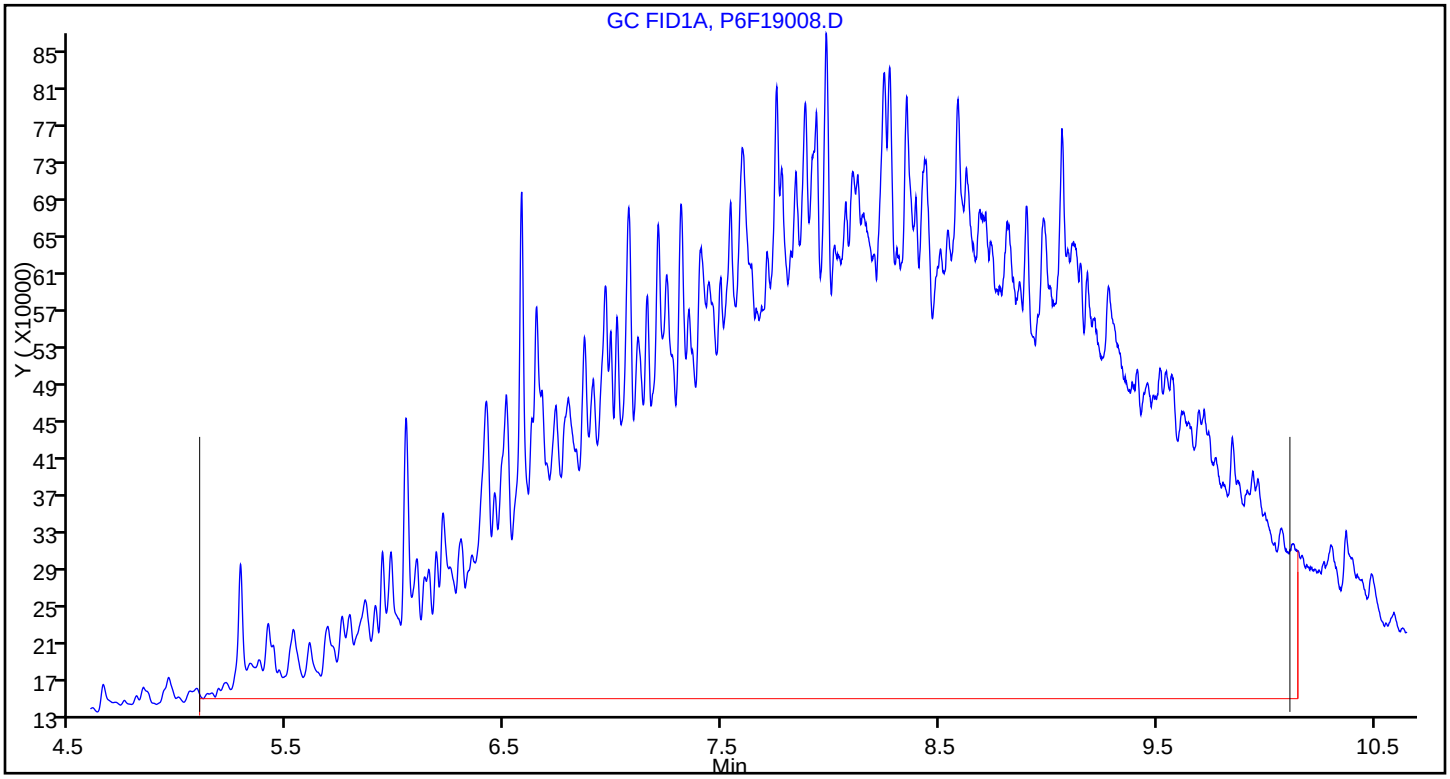
Report Date: 20-Apr-2013 09:06:42 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130419-19075.b\P6F19008.D

Injection Date:	19-Apr-2013 20:29:36	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0018-0001-SO	Instrument ID:	A2HP6F
Lims Batch ID:	82770	Lims Sample ID:	8
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

A 12 C10-C20, Detector: 1, GC FID1A



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0019-0001-SO Lab Sample ID: 240-22756-13

Matrix: Solid Lab File ID: P6F19009.D

Analysis Method: 8015B_DRO/DOD Date Collected: 04/02/2013 11:59

Extraction Method: 3540C Date Extracted: 04/16/2013 10:04

Sample wt/vol: 30.31(g) Date Analyzed: 04/19/2013 21:00

Con. Extract Vol.: 5(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 13.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 82770 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	1000	D	190	110	110
STL00272	C20-C34	110	U	190	110	110

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	50		10-110

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP6F\20130419-19075.b\P6F19009.D		
Lims ID:	240-22756-B-13-B	Client ID:	074SB-0019-0001-SO
Inject. Date:	19-Apr-2013 21:00:17	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	240-0019075-009		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP6F
Injection Vol:	1.0 ul	ALS Bottle#:	9
Lims Batch ID:	82770	Lims Sample ID:	9
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP6F\20130419-19075.b\TPH6F.m		
Last Update:	20-Apr-2013 09:06:40	Calib Date:	17-Apr-2013 20:46:28
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK001		

	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
	1 Tetratetracontane					1
	26.357					
A	2 C28-C36					
	15.032	13.631	-16.434	4350431	0	
A	3 C10-C34					
	10.229	5.093	- 15.364	115357686	614.1	
A	4 C32-C44					
	14.684	-26.357				
A	5 C12-C22					
	8.713	6.494	- 10.932	100623448	535.6	
A	6 C22-C32					
	10.932	-14.684				
	7 n-Octane					
	2.435	2.408	0.027	4152	0	
$	8 n-Nonane					
	4.063	4.060	0.003	952211	5.00	
	9 n-Decane					
	5.078	5.093	-0.015	5485	0	
	10 Dodecane					
	6.506	6.494	0.012	296194	0	
	11 n-Tetradecane					
	7.595	7.582	0.013	645062	0	
A	12 C10-C20					
	7.622	5.093	- 10.115	103356690	550.2	
	13 Hexadecane					
	8.524	8.527	-0.003	665	0	
A	14 C10-C28					
	9.343	5.055	- 13.631	112051869	0	

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A 15 Diesel					
9.309	5.093 - 13.525		111824437	595.2	
16 n-Octadecane					
9.415	9.378	0.037	850754	0	
A 17 C10-C32					
9.889	5.093 - 14.684		114650146	610.3	
18 icosane					
10.164	10.152	0.012	5194	0	
19 n-Docosane					
10.922	10.932	-0.010	1710	0	
A 20 C12-C24					
9.230	6.494 - 11.967		102273776	544.4	
21 n-Tetracosane					
11.963	11.967	-0.004	1637	0	
A 22 C20-C34					
12.767	10.152 - 15.364		9315937	49.6	
23 n-Hexacosane					
12.826	12.823	0.003	2778	0	
24 n-Octacosane					
13.527	13.525	0.002	1796	0	
25 Triacontane					
14.131	14.127	0.004	3105	0	
26 Dotriacontane					
14.684	14.684	0.000	1462	0	
27 Tetratriacontane					
15.355	15.364	-0.009	410	0	
A 28 C24-C40					
15.746	11.967 - 19.525		9132470	48.6	
29 n-Hexatriacontane					
16.281	16.295	-0.014	608	0	
30 C38					
17.614	17.617	-0.003	361	0	
31 C40					1
19.525					
A 32 C20-C36					
13.223	10.152 - 16.295		14095883	75.0	
A 33 C24-C44					
19.162	11.967 - 26.357		9957596	53.0	
A 34 C10-C24					
8.530	5.093 - 11.967		110029901	585.7	
$ 35 o-Terphenyl					
0.037	0.0	0.037	4196	0	

QC Flag Legend

Processing Flags
1 - Missing Peaks

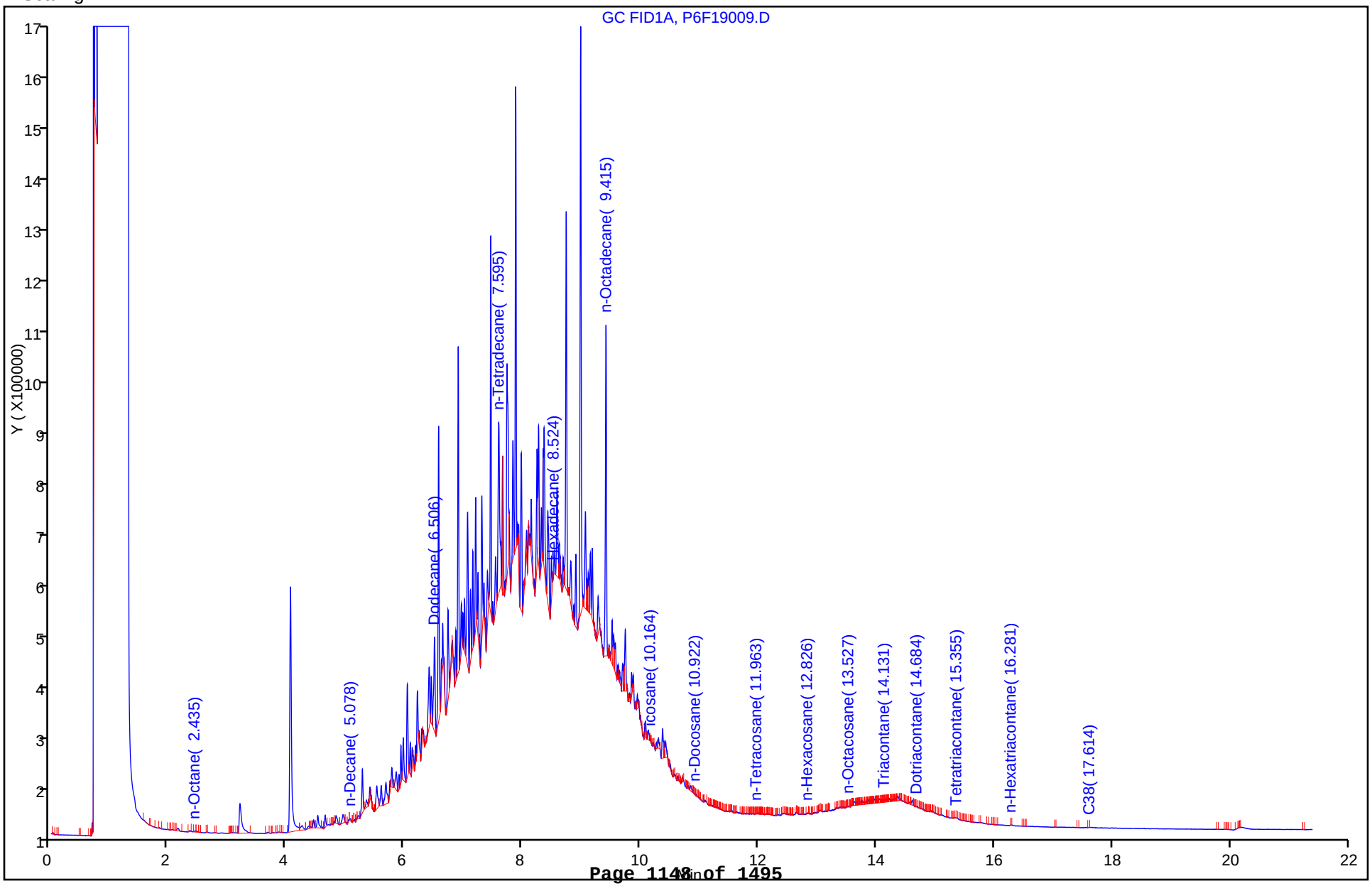
Report Date: 20-Apr-2013 09:06:43 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130419-19075.b\P6F19009.D

Injection Date:	19-Apr-2013 21:00:17	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0019-0001-SO	Instrument ID:	A2HP6F
Lims Batch ID:	82770	Lims Sample ID:	9
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



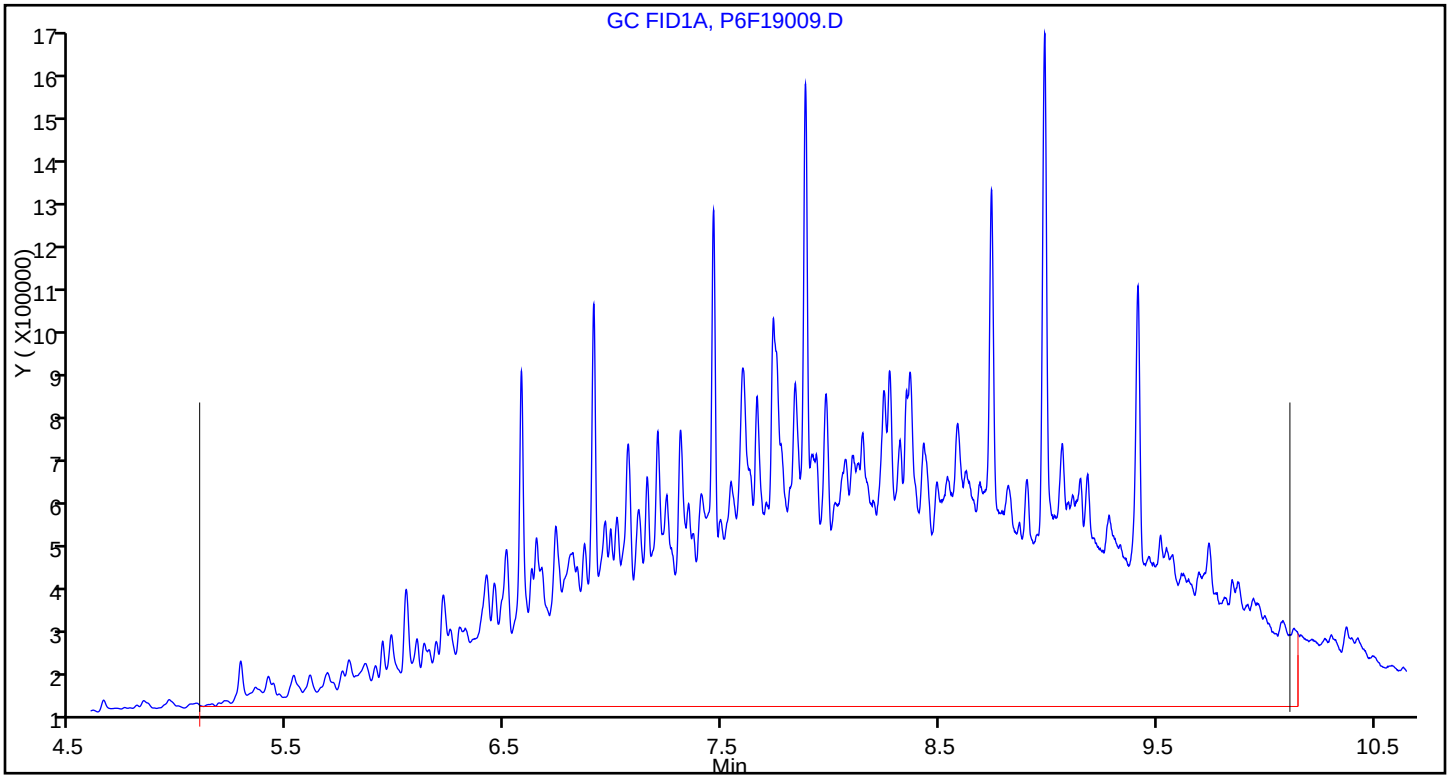
Report Date: 20-Apr-2013 09:06:43 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130419-19075.b\P6F19009.D

Injection Date:	19-Apr-2013 21:00:17	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0019-0001-SO	Instrument ID:	A2HP6F
Lims Batch ID:	82770	Lims Sample ID:	9
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

A 12 C10-C20, Detector: 1, GC FID1A



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0020-0001-SO Lab Sample ID: 240-22756-14

Matrix: Solid Lab File ID: P6F19010.D

Analysis Method: 8015B_DRO/DOD Date Collected: 04/02/2013 12:45

Extraction Method: 3540C Date Extracted: 04/16/2013 10:04

Sample wt/vol: 29.98(g) Date Analyzed: 04/19/2013 21:31

Con. Extract Vol.: 5(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 15.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 82770 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	450	D	99	55	55
STL00272	C20-C34	70	J D	99	55	55

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	45		10-110

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP6F\20130419-19075.b\P6F19010.D		
Lims ID:	240-22756-B-14-B	Client ID:	074SB-0020-0001-SO
Inject. Date:	19-Apr-2013 21:31:13	Dil. Factor:	5.0000
Sample Type:	Client		
Sample ID:	240-0019075-010		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP6F
Injection Vol:	1.0 ul	ALS Bottle#:	10
Lims Batch ID:	82770	Lims Sample ID:	10
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP6F\20130419-19075.b\TPH6F.m		
Last Update:	20-Apr-2013 09:06:40	Calib Date:	17-Apr-2013 20:46:28
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK001		

	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
1 Tetratetracontane	26.357					1
A 2 C28-C36	15.032	13.631 - 16.434		3686521	0	
A 3 C10-C34	10.229	5.093 - 15.364		102954528	548.0	
A 4 C32-C44		14.684 - 26.357				
A 5 C12-C22	8.713	6.494 - 10.932		88623435	471.7	
A 6 C22-C32		10.932 - 14.684				
7 n-Octane	2.421	2.408	0.013	18334	0	
$ 8 n-Nonane	4.058	4.060	-0.002	1709066	8.97	
9 n-Decane	5.065	5.093	-0.028	8154	0	
10 Dodecane	6.506	6.494	0.012	173583	0	
11 n-Tetradecane	7.591	7.582	0.009	253154	0	
A 12 C10-C20	7.622	5.093 - 10.115		86209643	458.9	
13 Hexadecane	8.539	8.527	0.012	80011	0	
A 14 C10-C28	9.343	5.055 - 13.631		99395452	0	

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A 15 Diesel					
9.309	5.093 - 13.525		98853186	526.2	
16 n-Octadecane					
9.348	9.378	-0.030	3376	0	
A 17 C10-C32					
9.889	5.093 - 14.684		102067646	543.3	
18 icosane					
10.146	10.152	-0.006	17534	0	
19 n-Docosane					
10.930	10.932	-0.002	2321	0	
A 20 C12-C24					
9.230	6.494 - 11.967		91182208	485.4	
21 n-Tetracosane					
11.965	11.967	-0.002	9348	0	
A 22 C20-C34					
12.775	10.152 - 15.364		13236285	70.5	
23 n-Hexacosane					
12.810	12.823	-0.013	8622	0	
24 n-Octacosane					
13.531	13.525	0.006	31630	0	
25 Triacontane					
14.123	14.127	-0.004	5655	0	
26 Dotriacontane					
14.670	14.684	-0.014	410	0	
27 Tetratriacontane					
15.365	15.364	0.001	2287	0	
A 28 C24-C40					
15.746	11.967 - 19.525		9005652	47.9	
29 n-Hexatriacontane					
16.302	16.295	0.007	1506	0	
30 C38					1
17.617					
31 C40					1
19.525					
A 32 C20-C36					
13.223	10.152 - 16.295		16657536	88.7	
A 33 C24-C44					
19.162	11.967 - 26.357		9344700	49.7	
A 34 C10-C24					
8.530	5.093 - 11.967		95337622	507.5	
$ 35 o-Terphenyl					
0.035	0.0	0.035	4298	0	

QC Flag Legend

Processing Flags
1 - Missing Peaks

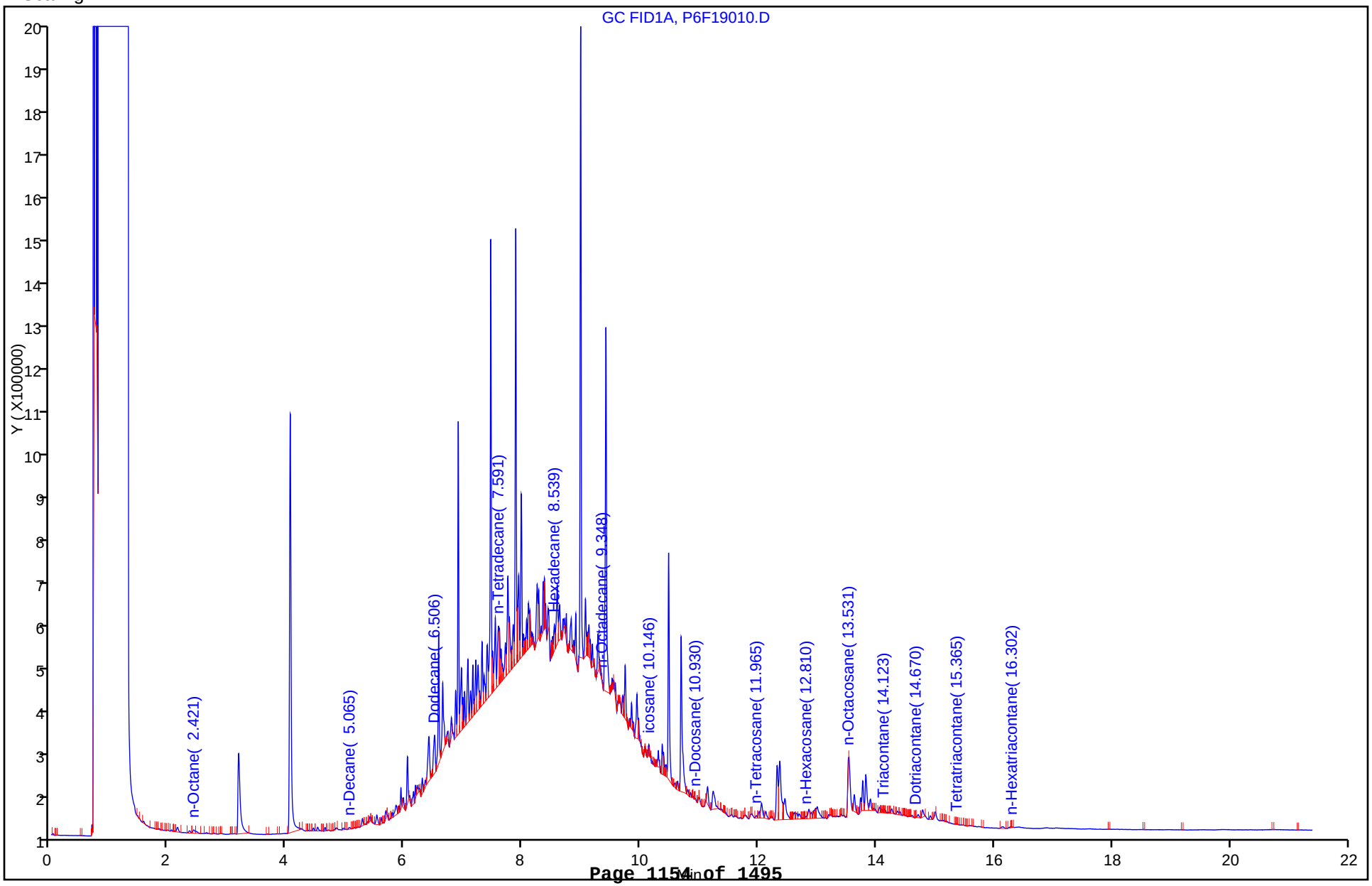
Report Date: 20-Apr-2013 09:06:44 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130419-19075.b\P6F19010.D

Injection Date:	19-Apr-2013 21:31:13	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0020-0001-SO	Instrument ID:	A2HP6F
Lims Batch ID:	82770	Lims Sample ID:	10
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:

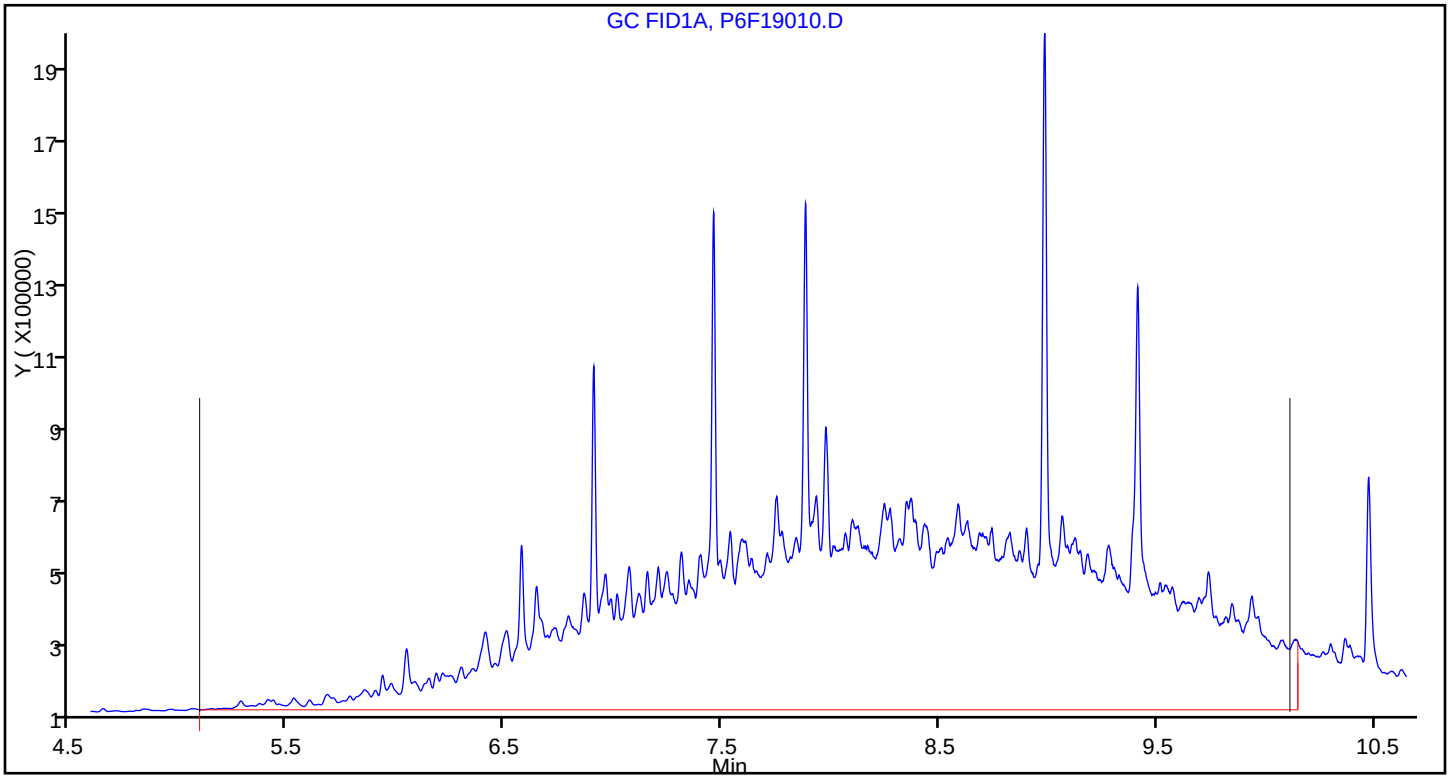


Report Date: 20-Apr-2013 09:06:44 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP6F\20130419-19075.b\P6F19010.D		
Injection Date:	19-Apr-2013 21:31:13	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0020-0001-SO	Instrument ID:	A2HP6F
Lims Batch ID:	82770	Lims Sample ID:	10
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

A 12 C10-C20, Detector: 1, GC FID1A

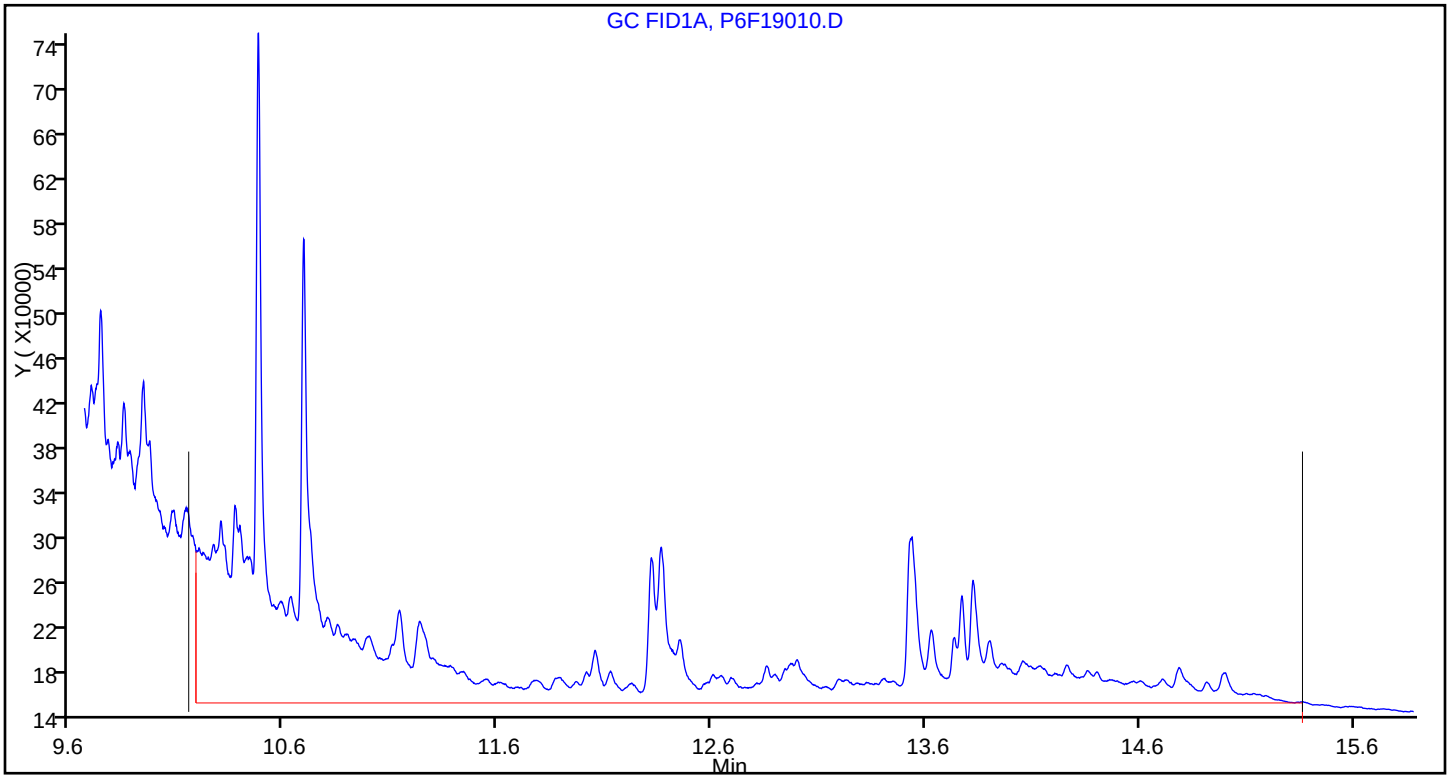


Report Date: 20-Apr-2013 09:06:44 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP6F\20130419-19075.b\P6F19010.D		
Injection Date:	19-Apr-2013 21:31:13	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0020-0001-SO	Instrument ID:	A2HP6F
Lims Batch ID:	82770	Lims Sample ID:	10
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

A 22 C20-C34, Detector: 1, GC FID1A



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0021-0001-SO | Lab Sample ID: 240-22756-15

Matrix: Solid | Lab File ID: P6F18021.D

Analysis Method: 8015B_DRO/DOD | Date Collected: 04/02/2013 12:50

Extraction Method: 3540C | Date Extracted: 04/16/2013 10:04

Sample wt/vol: 30.08(g) | Date Analyzed: 04/19/2013 01:23

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 24.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82537 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	36		22	12	12
STL00272	C20-C34	12	J	22	12	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	43		10-110

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18021.D		
Lims ID:	240-22756-B-15-B	Client ID:	074SB-0021-0001-SO
Inject. Date:	19-Apr-2013 01:23:33	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0019017-021		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP6F
Injection Vol:	1.0 ul	ALS Bottle#:	21
Lims Batch ID:	82537	Lims Sample ID:	21
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\TPH6F.m		
Last Update:	19-Apr-2013 11:26:48	Calib Date:	17-Apr-2013 20:46:28
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
	1 Tetratetracontane					1
	26.357					
A	2 C28-C36					
	15.076	13.664	-16.488	4774087	0	
A	3 C10-C34					
	10.232	5.098	- 15.366	46385589	246.9	
A	4 C32-C44					
		14.684	-26.357			
A	5 C12-C22					
	8.715	6.497	- 10.932	34651120	184.5	
A	6 C22-C32					
		10.932	-14.684			
	7 n-Octane					
	2.416	2.413	0.003	74420	0	
$	8 n-Nonane					
	4.059	4.065	-0.006	8175502	42.9	
	9 n-Decane					
	5.104	5.098	0.006	485	0	
	10 Dodecane					
	6.501	6.497	0.004	5116	0	
	11 n-Tetradecane					
	7.577	7.584	-0.007	27093	0	
A	12 C10-C20					
	7.626	5.098	- 10.153	30876856	164.4	
	13 Hexadecane					
	8.535	8.529	0.006	12498	0	
A	14 C10-C28					
	9.364	5.064	- 13.664	40765172	0	

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A 15 Diesel					
9.312	5.098 - 13.526		40206942	214.0	
16 n-Octadecane					
9.375	9.379	-0.004	903	0	
A 17 C10-C32					
9.891	5.098 - 14.684		44077863	234.6	
18 icosane					
10.151	10.153	-0.002	6566	0	
19 n-Docosane					
10.931	10.932	-0.001	3544	0	
A 20 C12-C24					
9.232	6.497 - 11.967		36208741	192.7	
21 n-Tetracosane					
11.971	11.967	0.004	7910	0	
A 22 C20-C34					
12.770	10.153 - 15.366		10506440	55.9	
23 n-Hexacosane					
12.819	12.824	-0.005	7481	0	
24 n-Octacosane					
13.542	13.526	0.016	58161	0	
25 Triacontane					
14.133	14.128	0.005	1719	0	
26 Dotriacontane					
14.682	14.684	-0.002	1659	0	
27 Tetratriacontane					
15.391	15.366	0.025	41002	0	
A 28 C24-C40					
15.746	11.967 - 19.526		11189998	59.6	
29 n-Hexatriacontane					
16.251	16.295	-0.044	432	0	
30 C38					1
17.616					
31 C40					1
19.526					
A 32 C20-C36					
13.224	10.153 - 16.295		11808715	62.9	
A 33 C24-C44					
19.162	11.967 - 26.357		12053981	64.2	
A 34 C10-C24					
8.533	5.098 - 11.967		37053702	197.2	
$ 35 o-Terphenyl					
0.033	0.0	0.033	2866	0	

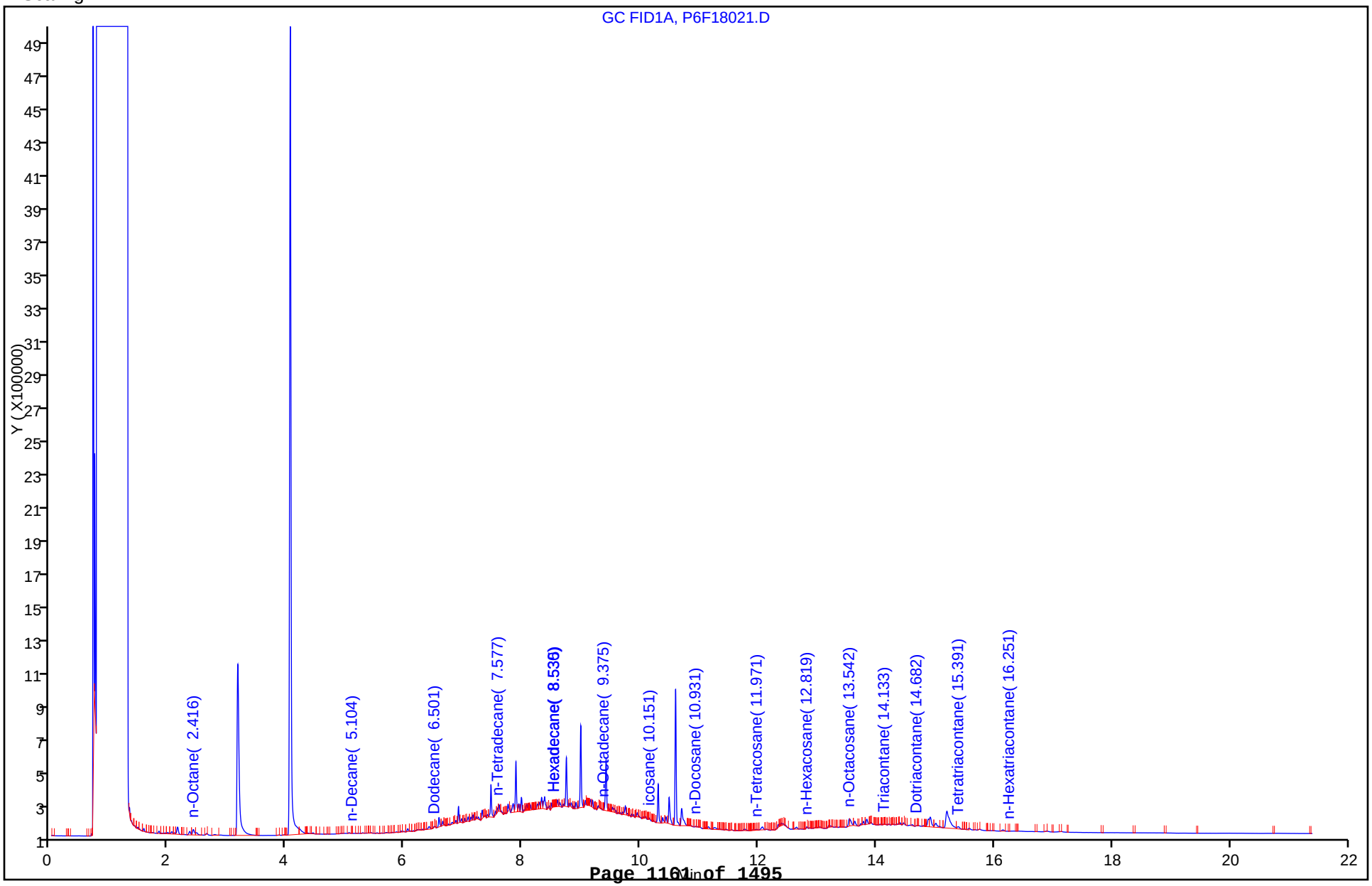
QC Flag Legend

Processing Flags
1 - Missing Peaks

Report Date: 19-Apr-2013 11:26:52 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18021.D		
Injection Date:	19-Apr-2013 01:23:33	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0021-0001-SO	Instrument ID:	A2HP6F
Lims Batch ID:	82537	Lims Sample ID:	21
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Y Scaling:			



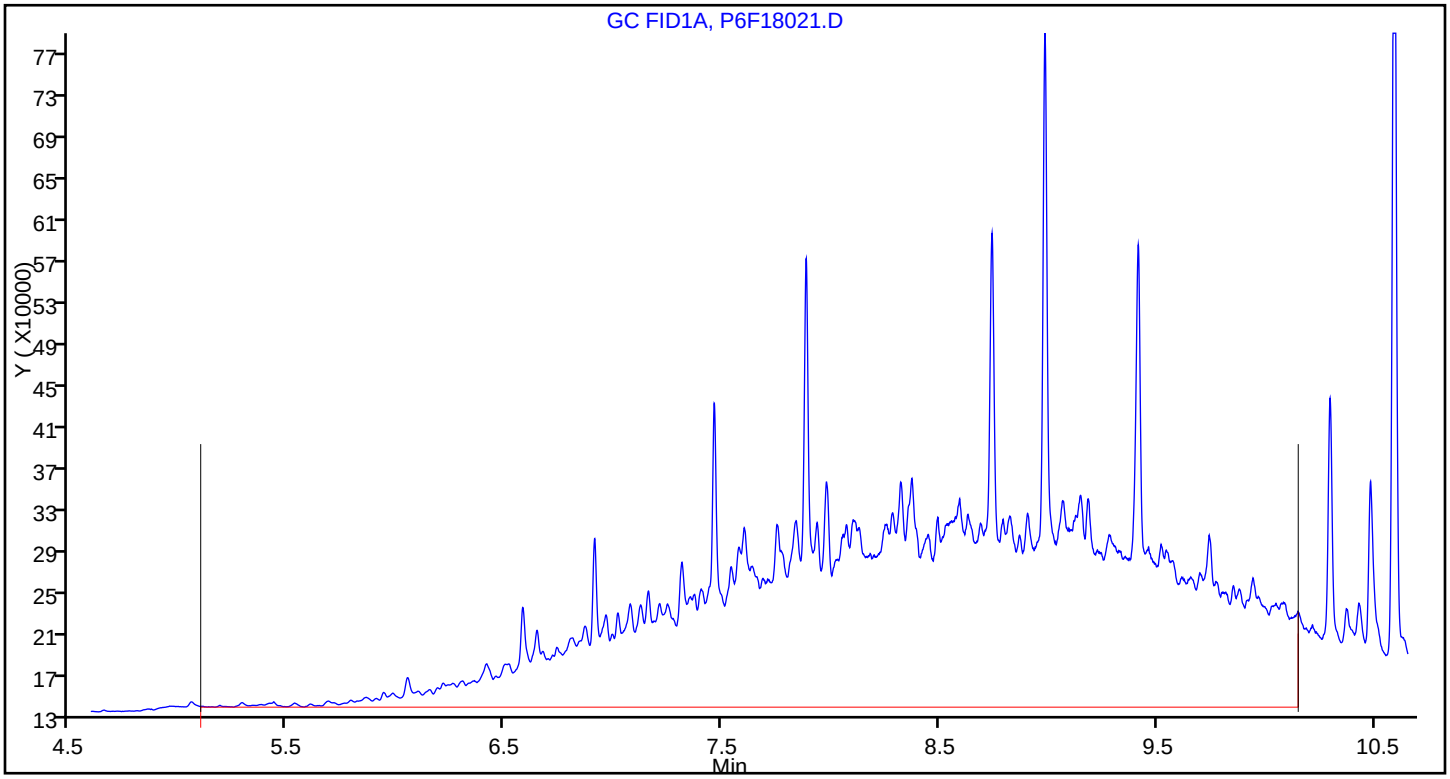
Report Date: 19-Apr-2013 11:26:52 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18021.D

Injection Date:	19-Apr-2013 01:23:33	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0021-0001-SO	Instrument ID:	A2HP6F
Lims Batch ID:	82537	Lims Sample ID:	21
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

A 12 C10-C20, Detector: 1, GC FID1A

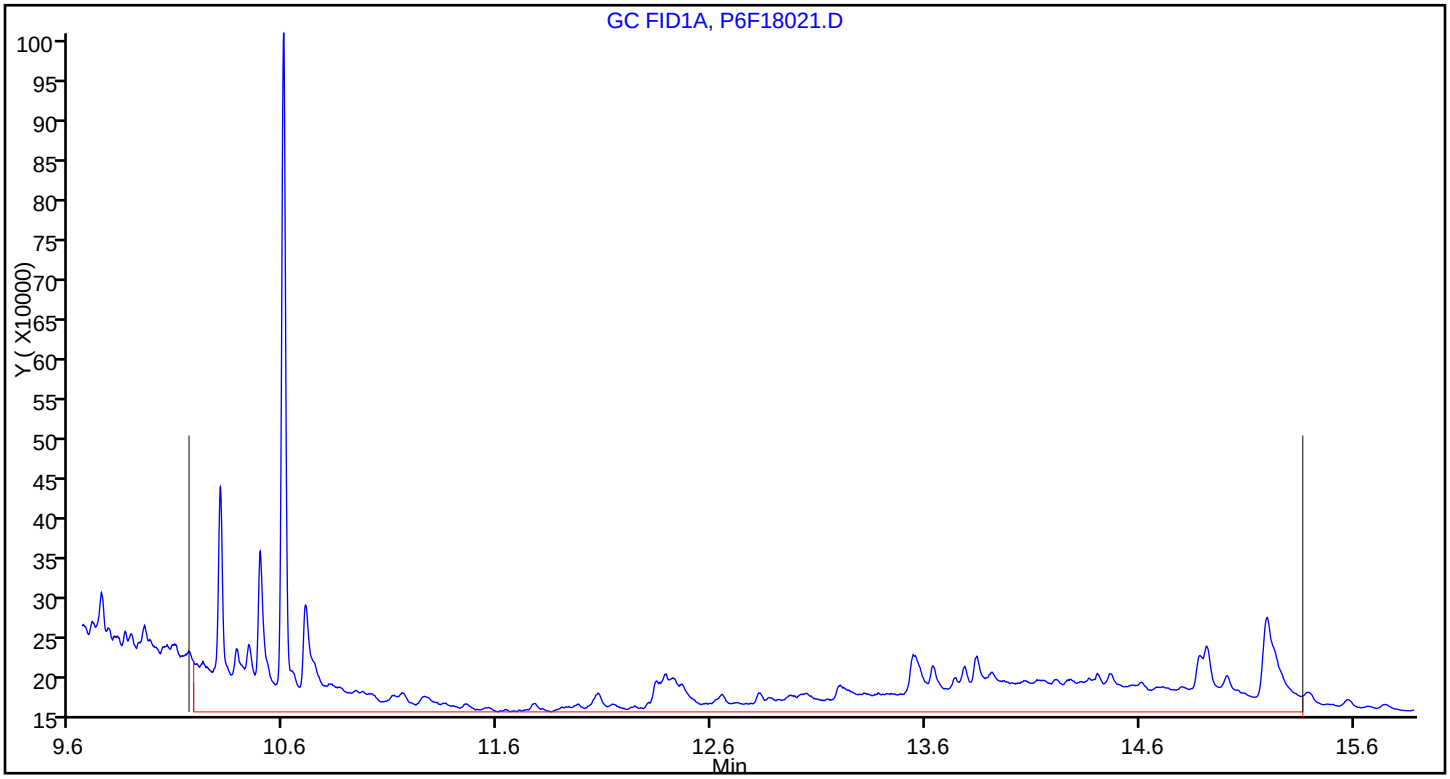


Report Date: 19-Apr-2013 11:26:52 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18021.D		
Injection Date:	19-Apr-2013 01:23:33	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0021-0001-SO	Instrument ID:	A2HP6F
Lims Batch ID:	82537	Lims Sample ID:	21
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

A 22 C20-C34, Detector: 1, GC FID1A



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 77289

SDG No.:

Instrument ID: A2HP5F GC Column: ID: Heated Purge: (Y/N) N

Calibration Start Date: 03/05/2013 12:41 Calibration End Date: 03/05/2013 14:42 Calibration ID: 14026

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-77289/5	P5F01004.D
Level 2	STD2 240-77289/6	P5F01005.D
Level 3	STD3 240-77289/7	P5F01006.D
Level 4	STD4 240-77289/8	P5F01007.D
Level 5	STD5 240-77289/9	P5F01008.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Diesel Range Organics [C10 - C28]	9.370	9.370	9.370	9.370	9.370						5.170 - 13.571	9.370
n-Nonane	4.160	4.160	4.157	4.166	4.167						4.090 - 4.230	4.162

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 77289

SDG No.:

Instrument ID: A2HP5F GC Column: ID: Heated Purge: (Y/N) N

Calibration Start Date: 03/05/2013 12:41 Calibration End Date: 03/05/2013 14:42 Calibration ID: 14026

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-77289/5	P5F01004.D
Level 2	STD2 240-77289/6	P5F01005.D
Level 3	STD3 240-77289/7	P5F01006.D
Level 4	STD4 240-77289/8	P5F01007.D
Level 5	STD5 240-77289/9	P5F01008.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
Diesel Range Organics [C10 - C28]	197884 192437	201157	170492	194173	Ave		191228.585				6.3		20.0			
n-Nonane	205498 209542	218760	180515	211986	Ave		205260.225				7.1		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 77289

SDG No.:

Instrument ID: A2HP5F GC Column: ID: Heated Purge: (Y/N) N

Calibration Start Date: 03/05/2013 12:41 Calibration End Date: 03/05/2013 14:42 Calibration ID: 14026

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-77289/5	P5F01004.D
Level 2	STD2 240-77289/6	P5F01005.D
Level 3	STD3 240-77289/7	P5F01006.D
Level 4	STD4 240-77289/8	P5F01007.D
Level 5	STD5 240-77289/9	P5F01008.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Diesel Range Organics [C10 - C28]	Ave	19788396	40231379	85246097	194173085	384873581	100	200	500	1000	2000
n-Nonane	Ave	2054979	4375194	9025767	21198640	41908357	10.0	20.0	50.0	100	200

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01004.D		
Lims ID:	STD1 Diesel	Client ID:	
Inject. Date:	05-Mar-2013 12:41:42	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	240-0017772-005		
Misc. Info.:			
Operator:	4275	Instrument ID:	A2HP5F
Injection Vol:	1.0 ul	ALS Bottle#:	4
Lims Batch ID:	77289	Lims Sample ID:	5
Sublist:	chrom-TPH5F*sub1		
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\TPH5F.m		
Last Update:	05-Mar-2013 16:20:16	Calib Date:	05-Mar-2013 14:42:58
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK008		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.160	4.160	0.000	2054979	10.0	
A 15 Diesel					
9.370	5.170 - 13.571		19788396	103.5	

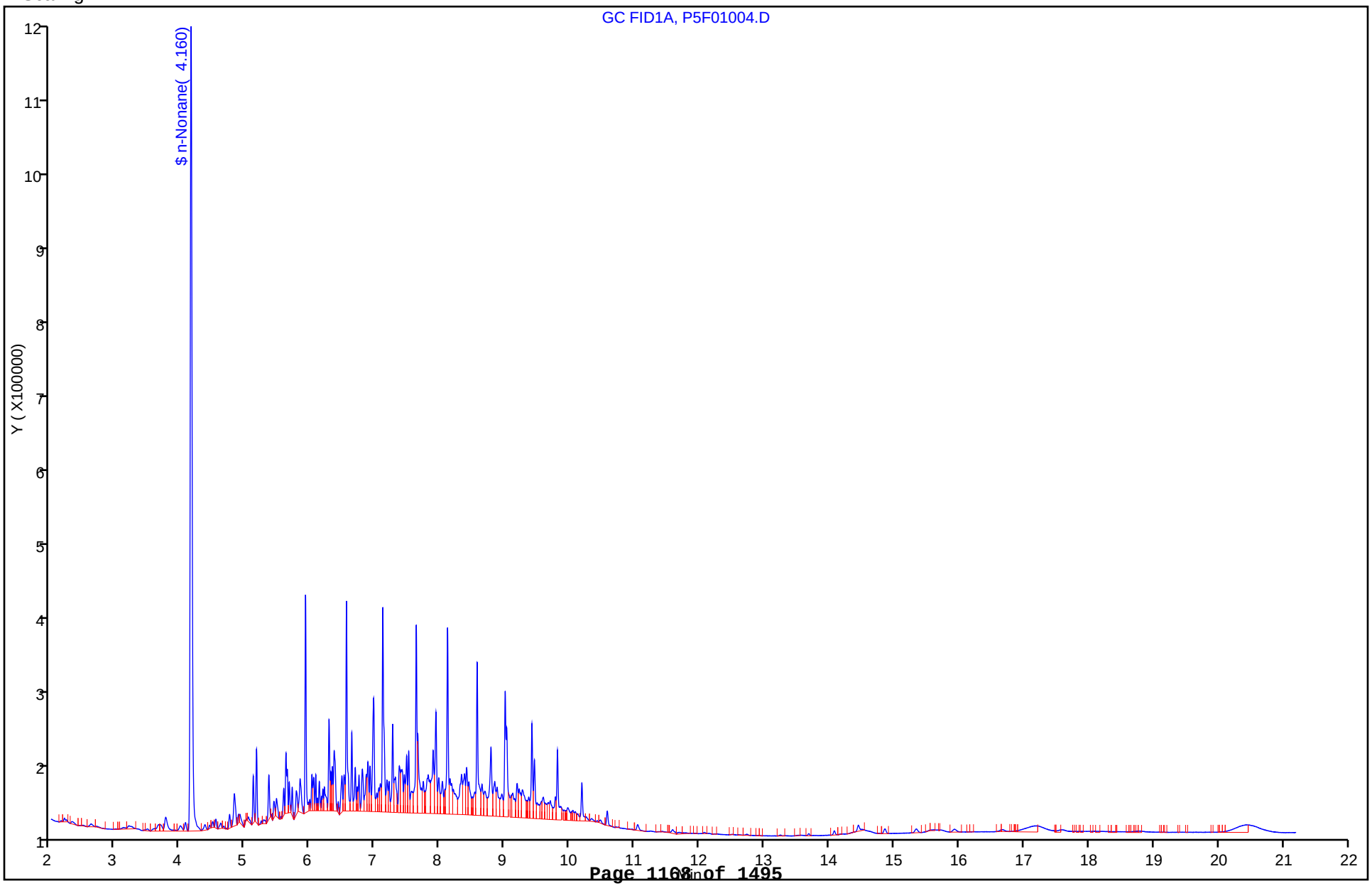
Report Date: 05-Mar-2013 16:20:16 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01004.D

Injection Date:	05-Mar-2013 12:41:42	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5F
Lims Batch ID:	77289	Lims Sample ID:	5
Operator ID:	4275	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01005.D		
Lims ID:	STD2 Diesel	Client ID:	
Inject. Date:	05-Mar-2013 13:12:04	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	240-0017772-006		
Misc. Info.:			
Operator:	4275	Instrument ID:	A2HP5F
Injection Vol:	1.0 ul	ALS Bottle#:	5
Lims Batch ID:	77289	Lims Sample ID:	6
Sublist:	chrom-TPH5F*sub1		
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\TPH5F.m		
Last Update:	05-Mar-2013 16:20:17	Calib Date:	05-Mar-2013 14:42:58
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK008		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.160	4.160	0.000	4375194	21.3	
A 15 Diesel					
9.370	5.170 - 13.571		40231379	210.4	

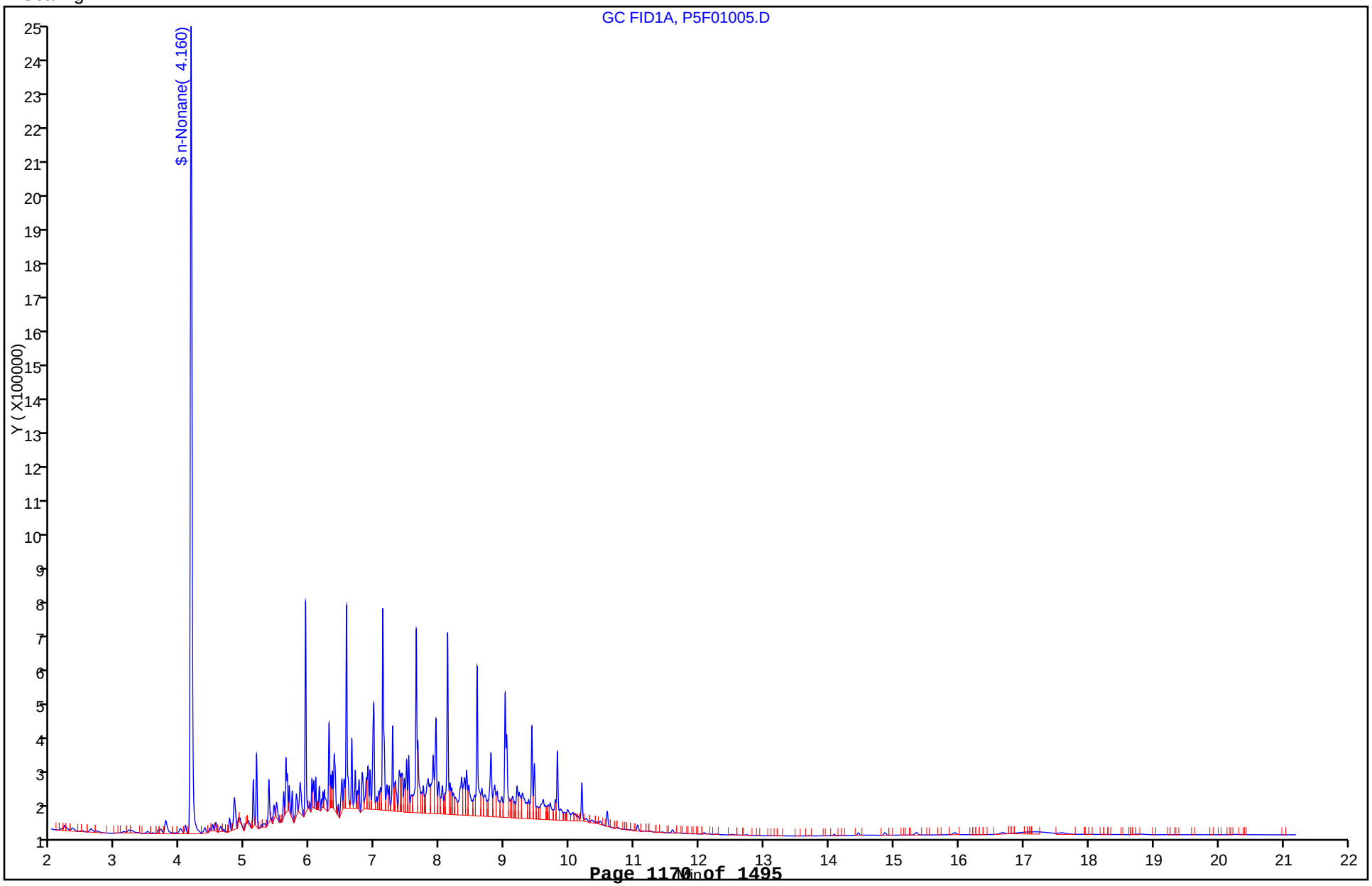
Report Date: 05-Mar-2013 16:20:17 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01005.D

Injection Date:	05-Mar-2013 13:12:04	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5F
Lims Batch ID:	77289	Lims Sample ID:	6
Operator ID:	4275	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01006.D		
Lims ID:	STD3 Diesel	Client ID:	
Inject. Date:	05-Mar-2013 13:42:17	Dil. Factor:	1.0000
Sample Type:	ICRT	Calib Level:	3
Sample ID:	240-0017772-007		
Misc. Info.:			
Operator:	4275	Instrument ID:	A2HP5F
Injection Vol:	1.0 ul	ALS Bottle#:	6
Lims Batch ID:	77289	Lims Sample ID:	7
Sublist:	chrom-TPH5F*sub1		
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\TPH5F.m		
Last Update:	05-Mar-2013 16:20:18	Calib Date:	05-Mar-2013 14:42:58
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK008		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.157	4.157	0.000	9025767	44.0	
A 15 Diesel					
9.370	5.170 - 13.571		85246097	445.8	

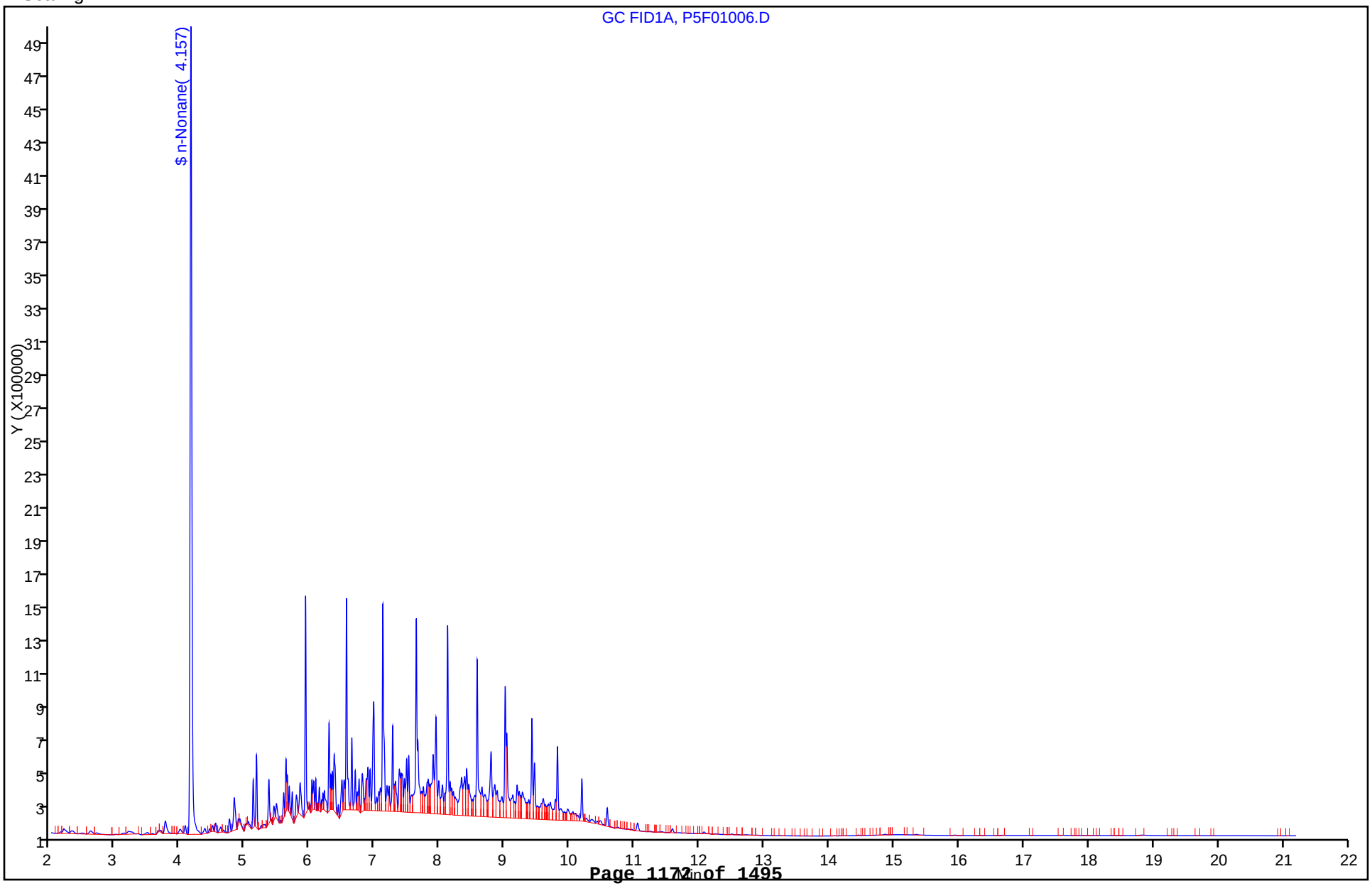
Report Date: 05-Mar-2013 16:20:18 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01006.D

Injection Date:	05-Mar-2013 13:42:17	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5F
Lims Batch ID:	77289	Lims Sample ID:	7
Operator ID:	4275	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01007.D		
Lims ID:	STD4 Diesel	Client ID:	
Inject. Date:	05-Mar-2013 14:12:43	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	240-0017772-008		
Misc. Info.:			
Operator:	4275	Instrument ID:	A2HP5F
Injection Vol:	1.0 ul	ALS Bottle#:	7
Lims Batch ID:	77289	Lims Sample ID:	8
Sublist:	chrom-TPH5F*sub1		
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\TPH5F.m		
Last Update:	05-Mar-2013 16:20:19	Calib Date:	05-Mar-2013 14:42:58
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK008		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.166	4.157	0.009	21198640	103.3	
A 15 Diesel					
9.370	5.170 - 13.571		194173085	1015.4	

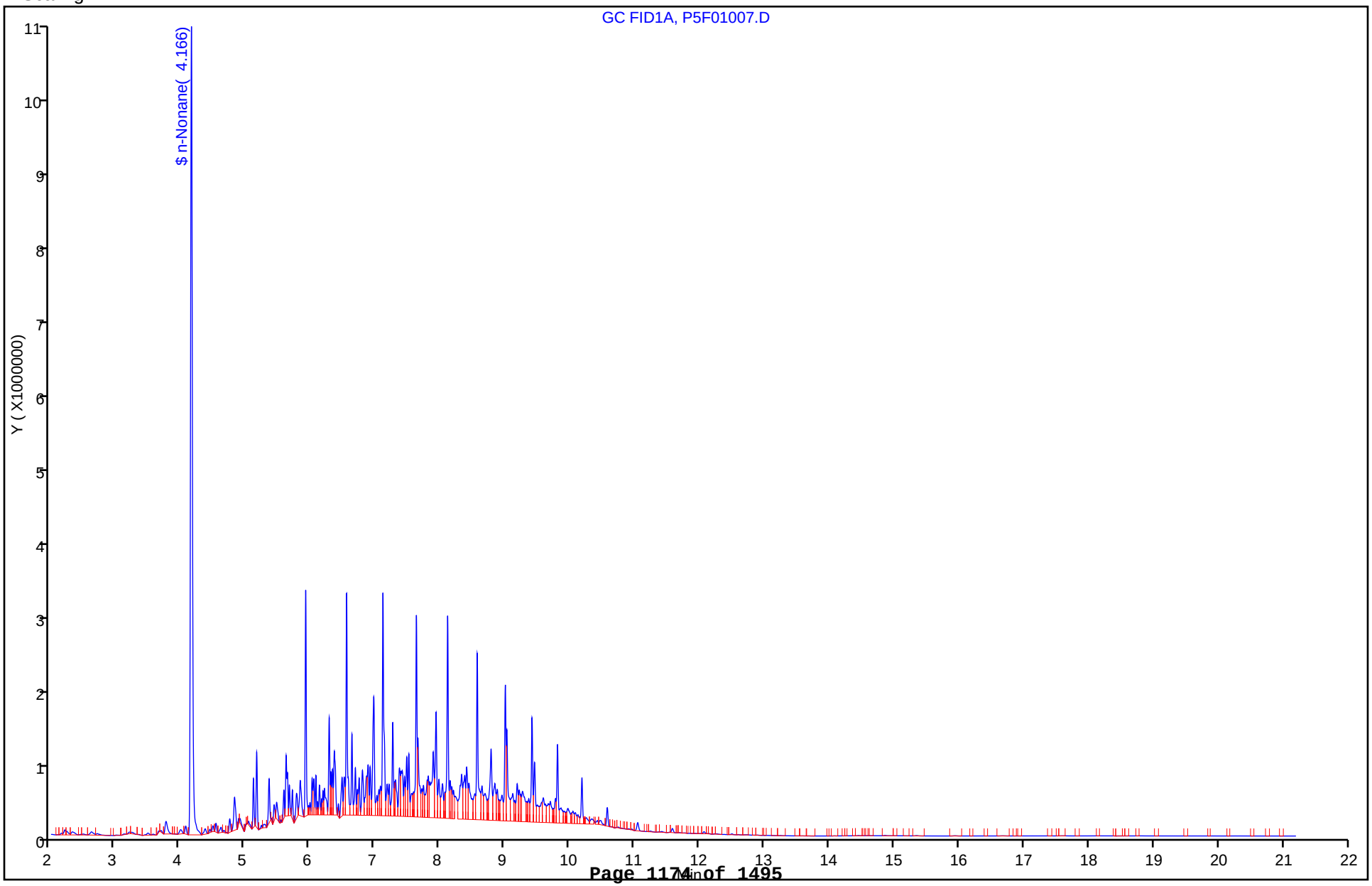
Report Date: 05-Mar-2013 16:20:19 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01007.D

Injection Date:	05-Mar-2013 14:12:43	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5F
Lims Batch ID:	77289	Lims Sample ID:	8
Operator ID:	4275	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01008.D		
Lims ID:	STD5 Diesel	Client ID:	
Inject. Date:	05-Mar-2013 14:42:58	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	240-0017772-009		
Misc. Info.:			
Operator:	4275	Instrument ID:	A2HP5F
Injection Vol:	1.0 ul	ALS Bottle#:	8
Lims Batch ID:	77289	Lims Sample ID:	9
Sublist:	chrom-TPH5F*sub1		
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\TPH5F.m		
Last Update:	05-Mar-2013 16:20:20	Calib Date:	05-Mar-2013 14:42:58
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK008		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.167	4.157	0.010	41908357	204.2	
A 15 Diesel					
9.370	5.170 - 13.571		384873581	2012.6	

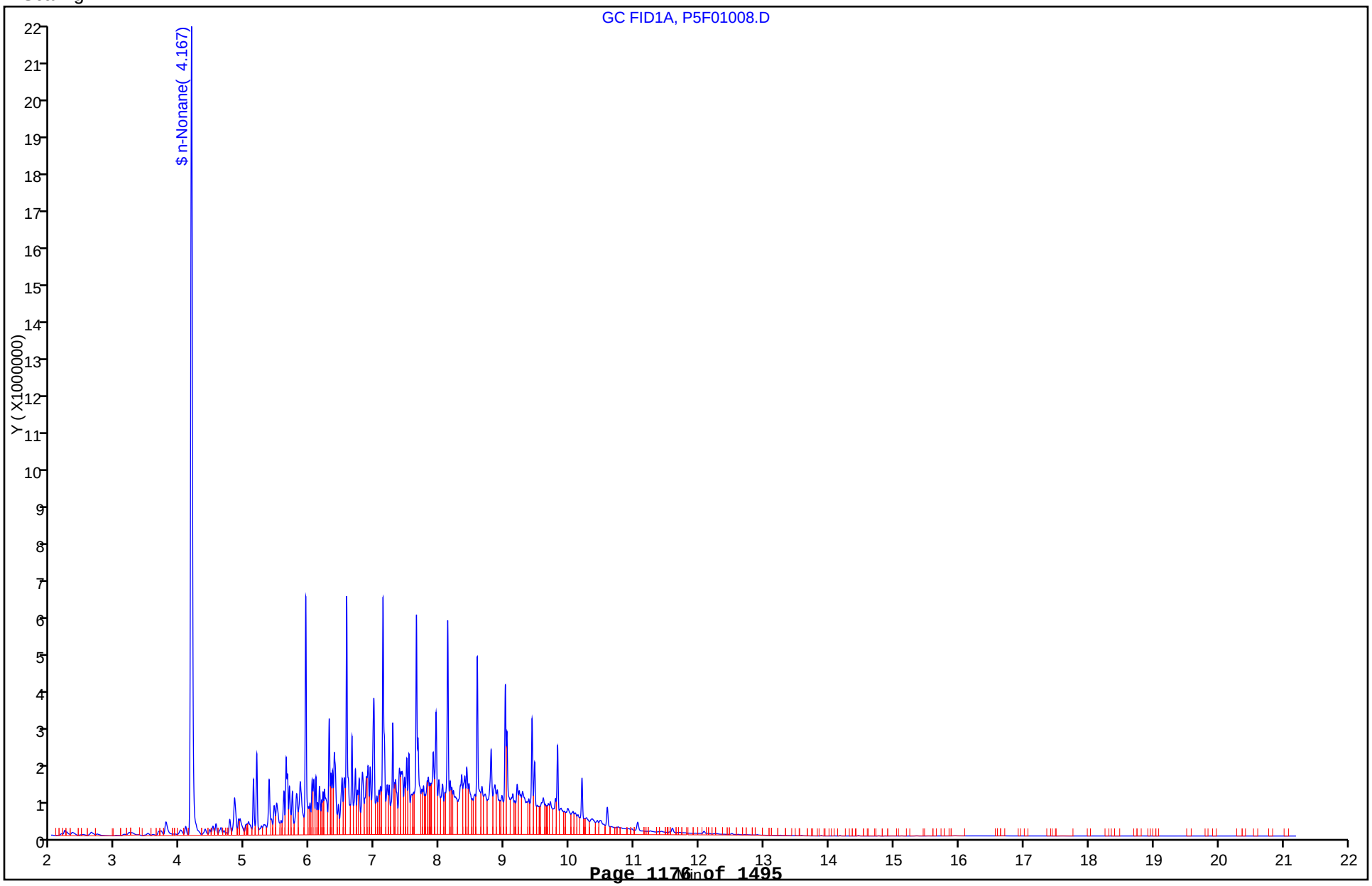
Report Date: 05-Mar-2013 16:20:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01008.D

Injection Date:	05-Mar-2013 14:42:58	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5F
Lims Batch ID:	77289	Lims Sample ID:	9
Operator ID:	4275	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 82405

SDG No.:

Instrument ID: A2HP6F GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/17/2013 18:42 Calibration End Date: 04/17/2013 20:46 Calibration ID: 14621

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-82405/5	P6F17005.D
Level 2	STD2 240-82405/6	P6F17006.D
Level 3	STD3 240-82405/7	P6F17007.D
Level 4	STD4 240-82405/8	P6F17008.D
Level 5	STD5 240-82405/9	P6F17009.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Diesel Range Organics [C10 - C28]	9.308	9.308	9.308	9.308	9.308						5.094 - 13.521	9.308
n-Nonane	4.064	4.062	4.061	4.060	4.064						4.014 - 4.114	4.062

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 82405

SDG No.:

Instrument ID: A2HP6F GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/17/2013 18:42 Calibration End Date: 04/17/2013 20:46 Calibration ID: 14621

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-82405/5	P6F17005.D
Level 2	STD2 240-82405/6	P6F17006.D
Level 3	STD3 240-82405/7	P6F17007.D
Level 4	STD4 240-82405/8	P6F17008.D
Level 5	STD5 240-82405/9	P6F17009.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
Diesel Range Organics [C10 - C28]	195343 184574	189648	193315	176429	Ave		187861.842				4.0		20.0			
n-Nonane	175649 203868	174690	206954	190969	Ave		190425.890				8.0		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22756-1 Analy Batch No.: 82405

SDG No.:

Instrument ID: A2HP6F GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/17/2013 18:42 Calibration End Date: 04/17/2013 20:46 Calibration ID: 14621

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-82405/5	P6F17005.D
Level 2	STD2 240-82405/6	P6F17006.D
Level 3	STD3 240-82405/7	P6F17007.D
Level 4	STD4 240-82405/8	P6F17008.D
Level 5	STD5 240-82405/9	P6F17009.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Diesel Range Organics [C10 - C28]	Ave	19534289	37929686	96657563	176428732	369148061	100	200	500	1000	2000
n-Nonane	Ave	1756488	3493808	10347703	19096861	40773516	10.0	20.0	50.0	100	200

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17005.D		
Lims ID:	STD1 DIESEL	Client ID:	
Inject. Date:	17-Apr-2013 18:42:57	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	240-0018980-005		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP6F
Injection Vol:	1.0 ul	ALS Bottle#:	5
Lims Batch ID:	82405	Lims Sample ID:	5
Sublist:	chrom-TPH6F*sub1		
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\TPH6F.m		
Last Update:	18-Apr-2013 12:22:33	Calib Date:	17-Apr-2013 20:46:28
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK028		

First Level Reviewer: bolgrind Date: 18-Apr-2013 10:35:50

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.064	4.064	0.000	1756488	9.22	
A 15 Diesel					
9.308	5.094 - 13.521		19534289	104.0	

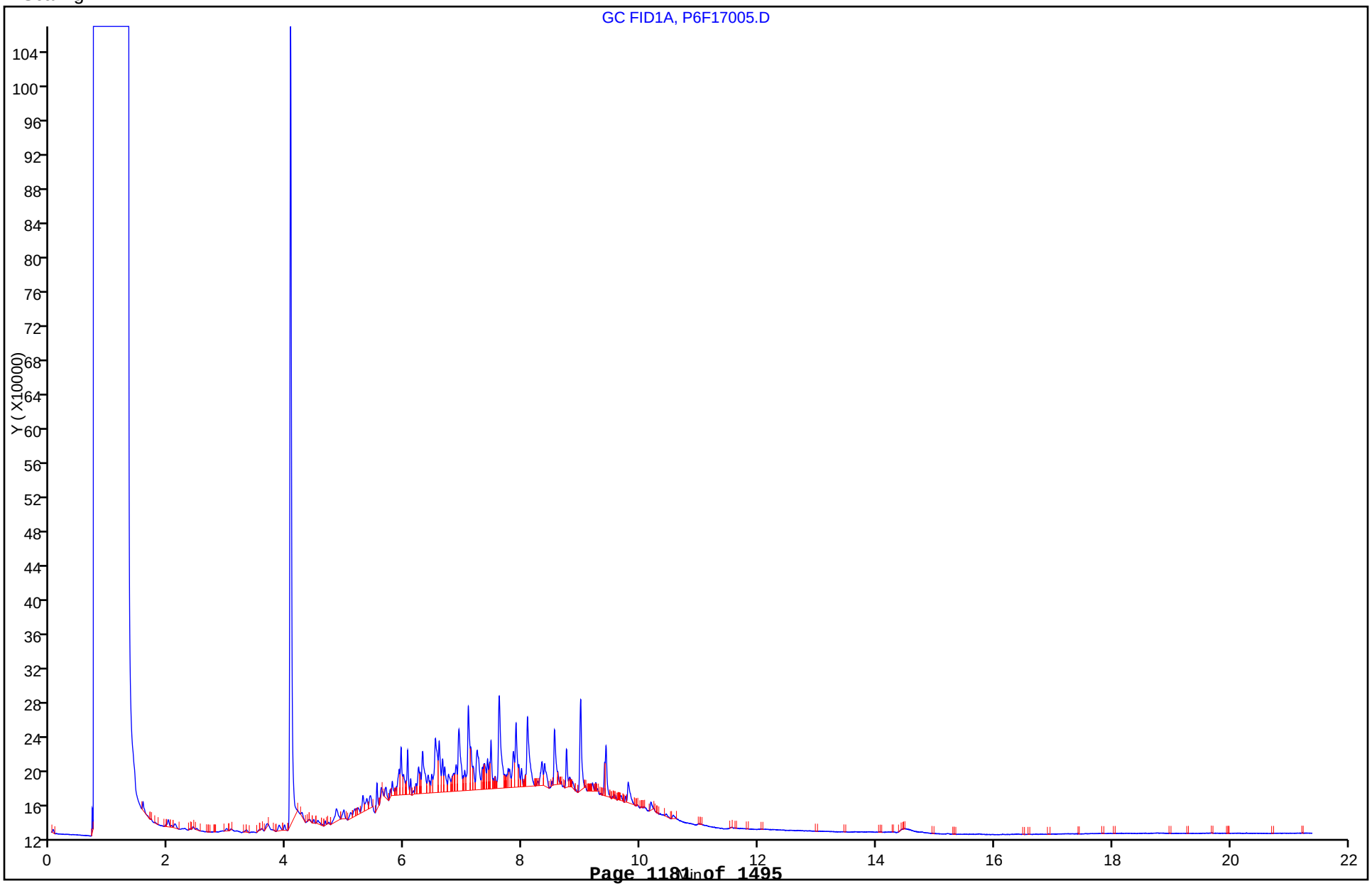
Report Date: 18-Apr-2013 12:22:33 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17005.D

Injection Date:	17-Apr-2013 18:42:57	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP6F
Lims Batch ID:	82405	Lims Sample ID:	5
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17006.D		
Lims ID:	STD2 DIESEL	Client ID:	
Inject. Date:	17-Apr-2013 19:13:51	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	240-0018980-006		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP6F
Injection Vol:	1.0 ul	ALS Bottle#:	6
Lims Batch ID:	82405	Lims Sample ID:	6
Sublist:	chrom-TPH6F*sub1		
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\TPH6F.m		
Last Update:	18-Apr-2013 12:22:35	Calib Date:	17-Apr-2013 20:46:28
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK028		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.062	4.064	-0.002	3493808	18.3	
A 15 Diesel					
9.308	5.094 - 13.521		37929686	201.9	

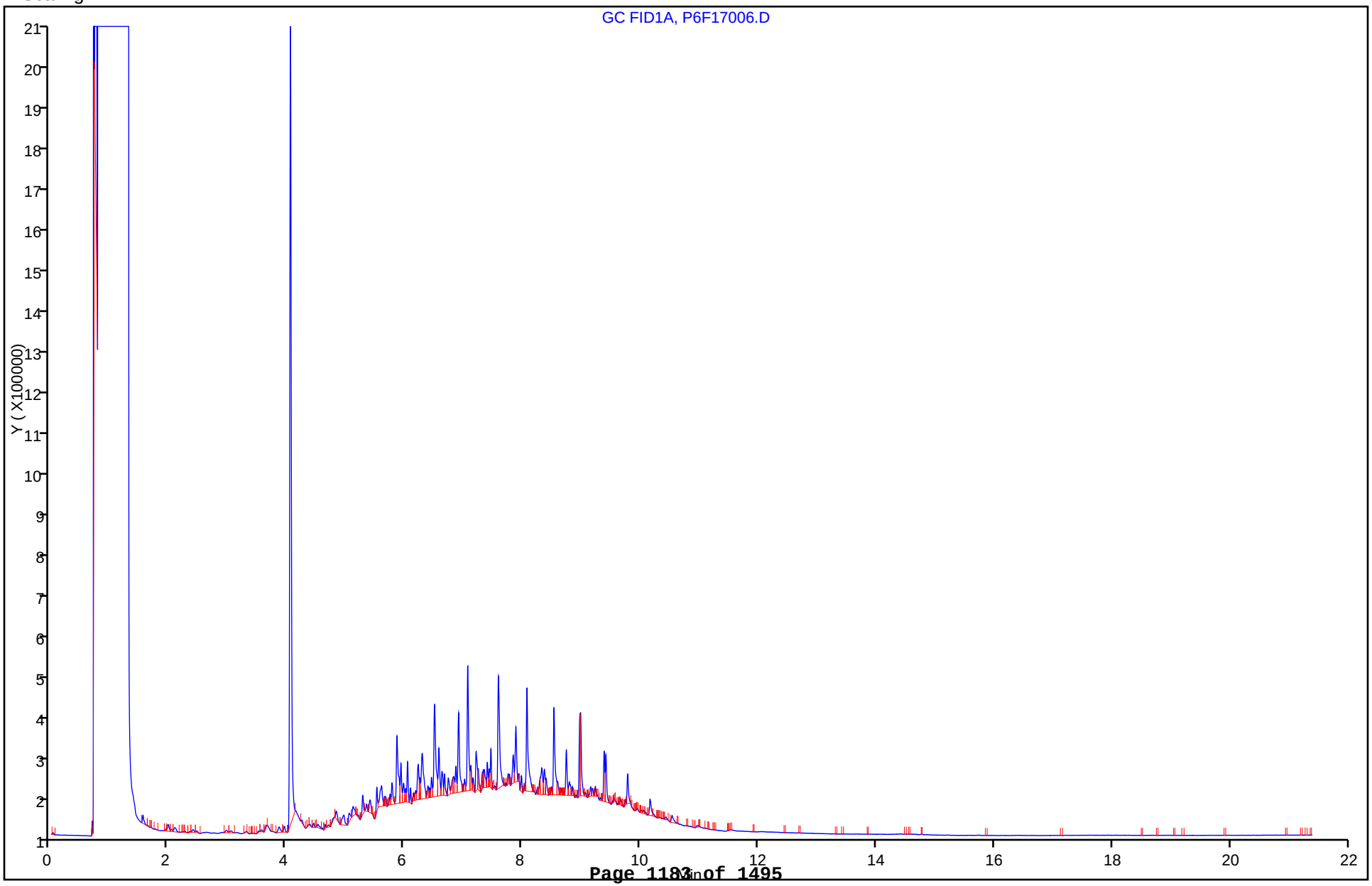
Report Date: 18-Apr-2013 12:22:35 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17006.D

Injection Date:	17-Apr-2013 19:13:51	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP6F
Lims Batch ID:	82405	Lims Sample ID:	6
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17007.D		
Lims ID:	STD3 DIESEL	Client ID:	
Inject. Date:	17-Apr-2013 19:44:46	Dil. Factor:	1.0000
Sample Type:	ICRT	Calib Level:	3
Sample ID:	240-0018980-007		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP6F
Injection Vol:	1.0 ul	ALS Bottle#:	7
Lims Batch ID:	82405	Lims Sample ID:	7
Sublist:	chrom-TPH6F*sub1		
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\TPH6F.m		
Last Update:	18-Apr-2013 12:22:37	Calib Date:	17-Apr-2013 20:46:28
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK028		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.061	4.061	0.000	10347703	54.3	
A 15 Diesel					
9.308	5.094 - 13.521		96657563	514.5	

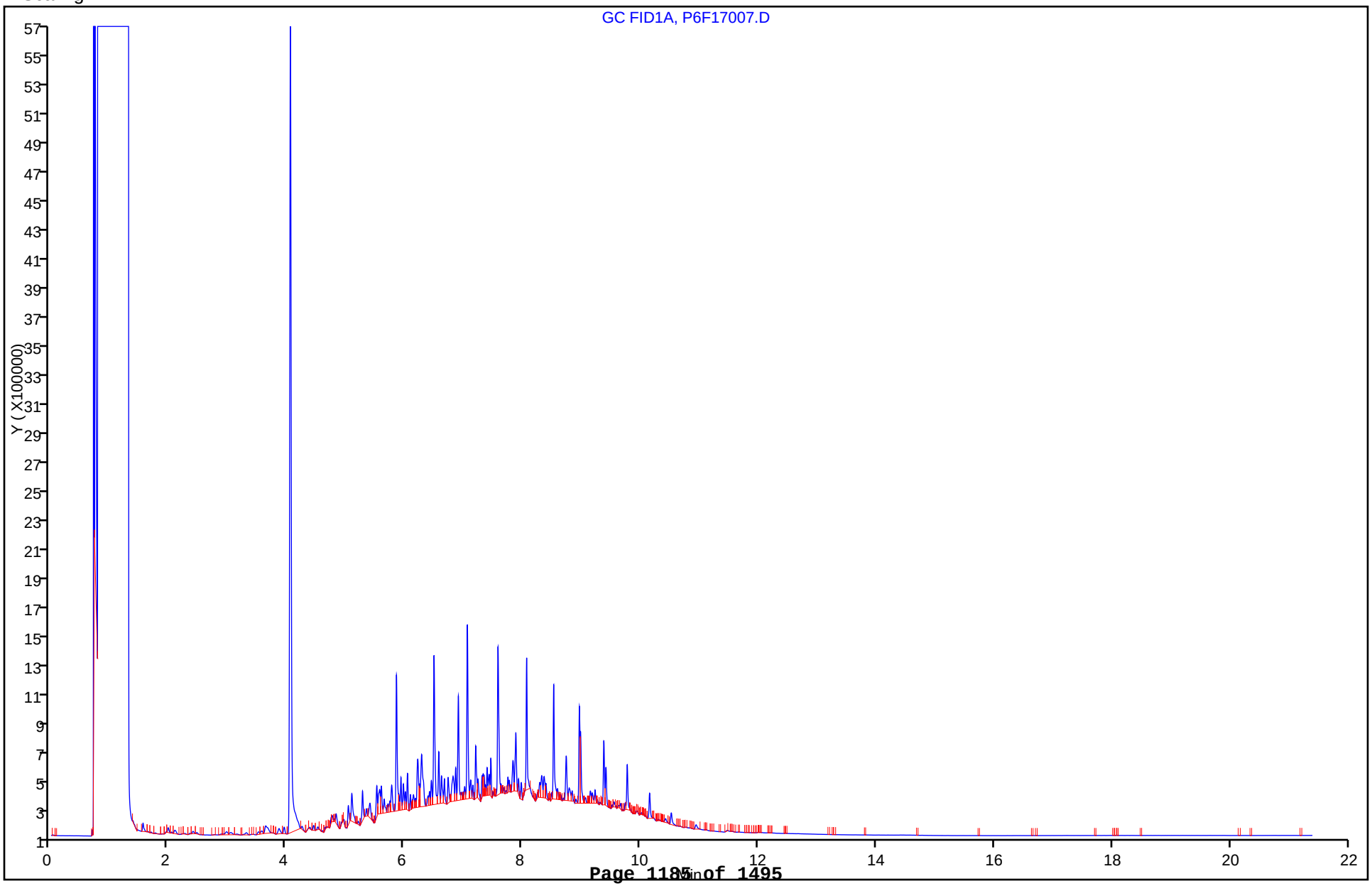
Report Date: 18-Apr-2013 12:22:37 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17007.D

Injection Date:	17-Apr-2013 19:44:46	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP6F
Lims Batch ID:	82405	Lims Sample ID:	7
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17008.D		
Lims ID:	STD4 DIESEL	Client ID:	
Inject. Date:	17-Apr-2013 20:15:32	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	240-0018980-008		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP6F
Injection Vol:	1.0 ul	ALS Bottle#:	8
Lims Batch ID:	82405	Lims Sample ID:	8
Sublist:	chrom-TPH6F*sub1		
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\TPH6F.m		
Last Update:	18-Apr-2013 12:22:39	Calib Date:	17-Apr-2013 20:46:28
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK028		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.060	4.061	-0.001	19096861	100.3	
A 15 Diesel					
9.308	5.094 - 13.521		176428732	939.1	

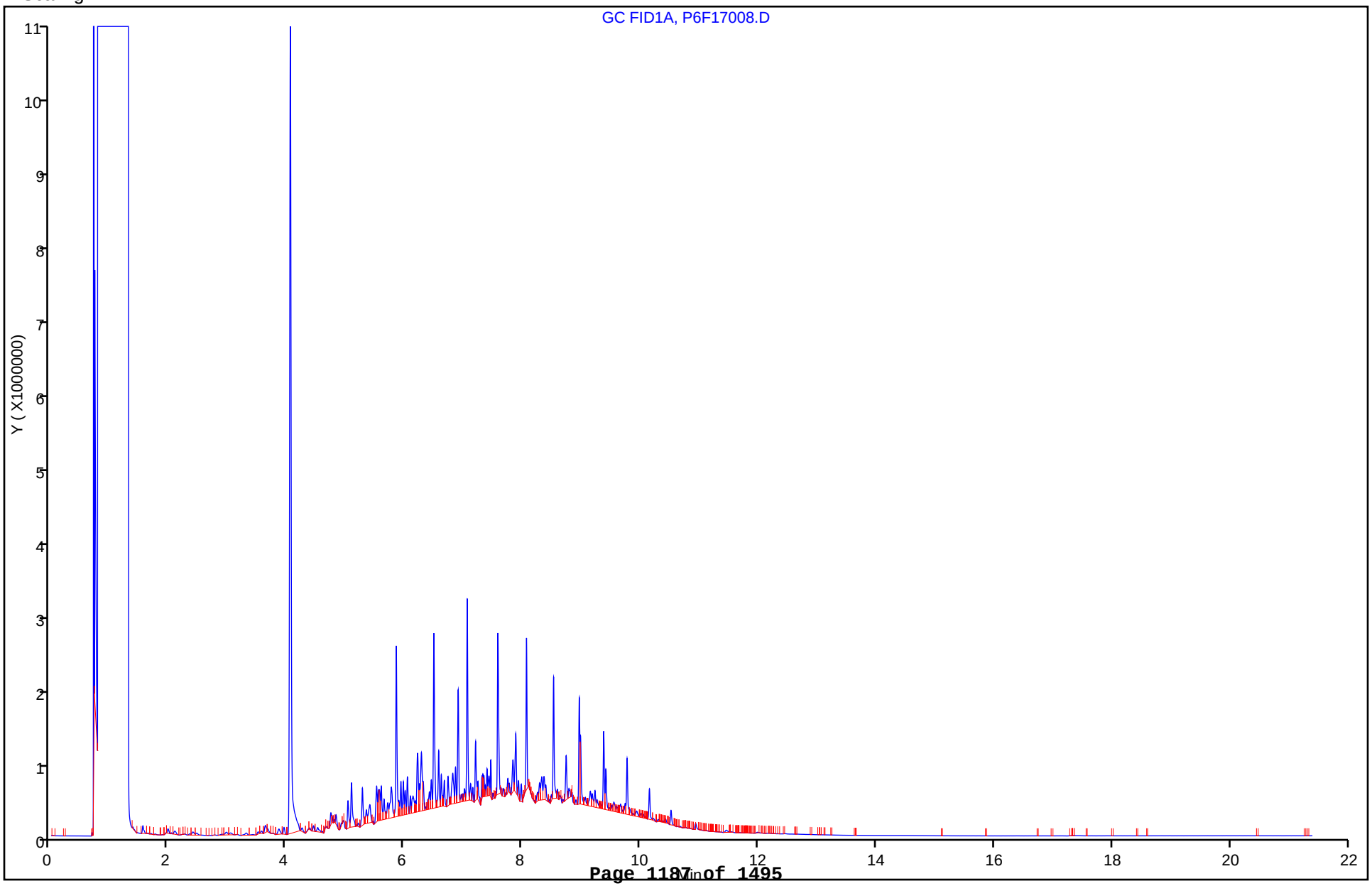
Report Date: 18-Apr-2013 12:22:39 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17008.D

Injection Date:	17-Apr-2013 20:15:32	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP6F
Lims Batch ID:	82405	Lims Sample ID:	8
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D		
Lims ID:	STD5 DIESEL	Client ID:	
Inject. Date:	17-Apr-2013 20:46:28	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	240-0018980-009		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP6F
Injection Vol:	1.0 ul	ALS Bottle#:	9
Lims Batch ID:	82405	Lims Sample ID:	9
Sublist:	chrom-TPH6F*sub1		
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\TPH6F.m		
Last Update:	18-Apr-2013 12:22:41	Calib Date:	17-Apr-2013 20:46:28
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK028		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.064	4.061	0.003	40773516	214.1	
A 15 Diesel					
9.308	5.094 - 13.521		369148061	1965.0	

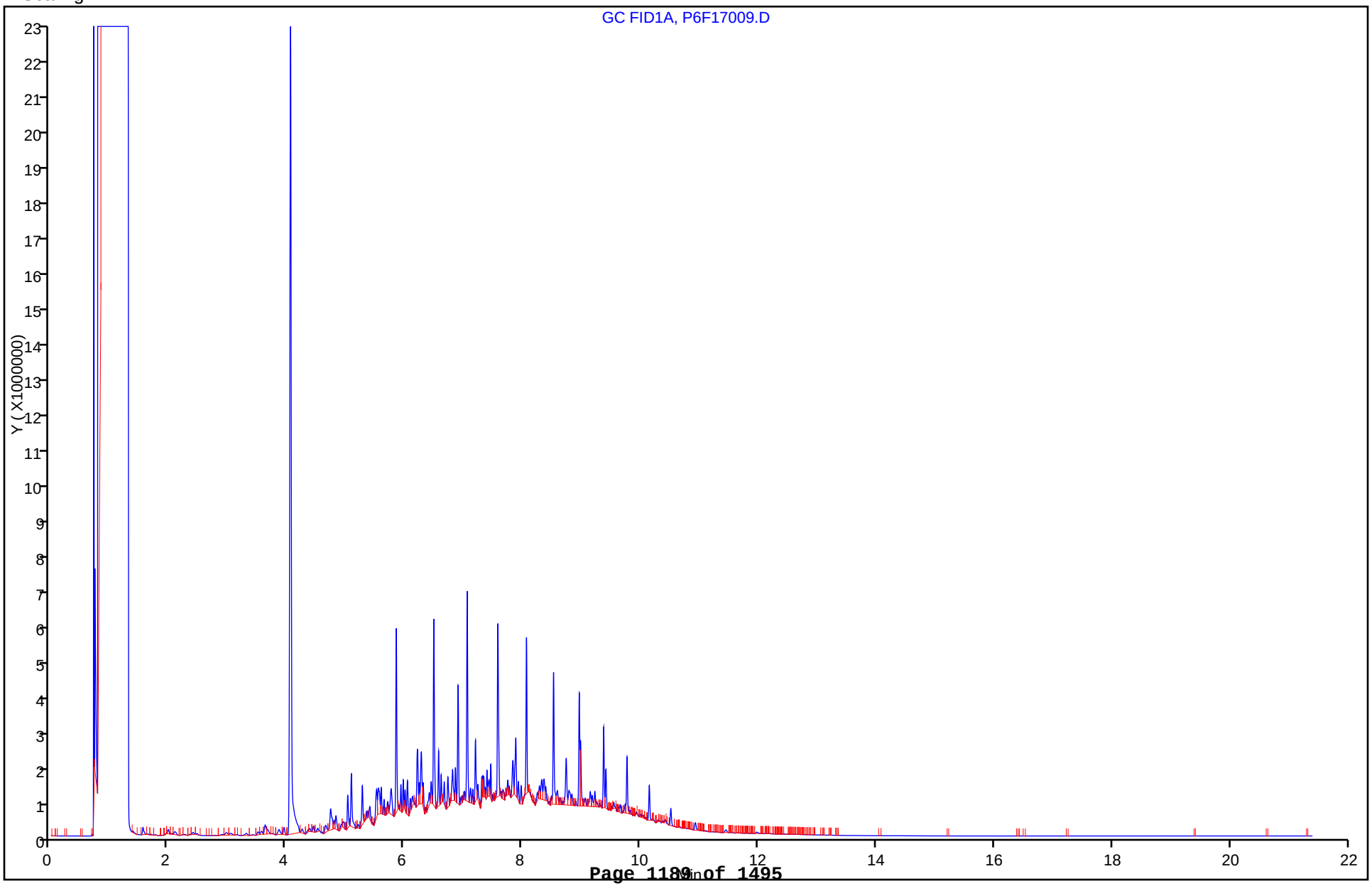
Report Date: 18-Apr-2013 12:22:41 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D

Injection Date:	17-Apr-2013 20:46:28	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP6F
Lims Batch ID:	82405	Lims Sample ID:	9
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: ICV 240-77289/10 Calibration Date: 03/05/2013 15:13

Instrument ID: A2HP5F Calib Start Date: 03/05/2013 12:41

GC Column: ID: Calib End Date: 03/05/2013 14:42

Lab File ID: P5F01009.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10 - C28]	Ave	191229	186300		487	500	-2.6	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: ICV 240-77289/10 Calibration Date: 03/05/2013 15:13

Instrument ID: A2HP5F Calib Start Date: 03/05/2013 12:41

GC Column: ID: Calib End Date: 03/05/2013 14:42

Lab File ID: P5F01009.D

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10 - C28]	9.37	5.17	13.57

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01009.D		
Lims ID:	ICV Diesel	Client ID:	
Inject. Date:	05-Mar-2013 15:13:29	Dil. Factor:	1.0000
Sample Type:	ICV		
Sample ID:	240-0017772-010		
Misc. Info.:			
Operator:	4275	Instrument ID:	A2HP5F
Injection Vol:	1.0 ul	ALS Bottle#:	9
Lims Batch ID:	77289	Lims Sample ID:	10
Sublist:			
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\TPH5F.m		
Last Update:	05-Mar-2013 16:20:20	Calib Date:	05-Mar-2013 14:42:58
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK008		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A 15 Diesel					
9.370	5.170 - 13.571		93149819	487.1	

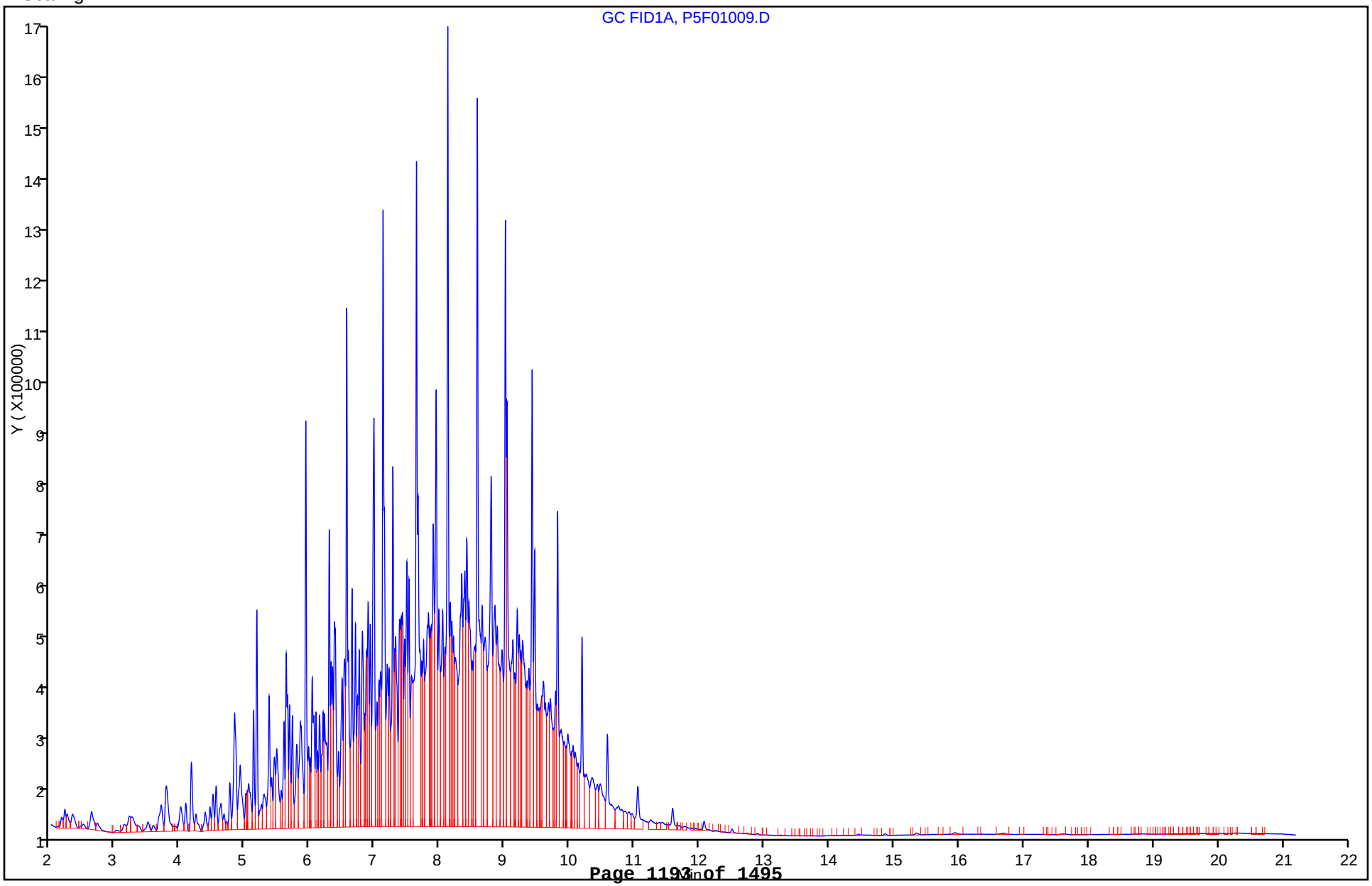
Report Date: 05-Mar-2013 16:20:21 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01009.D

Injection Date:	05-Mar-2013 15:13:29	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5F
Lims Batch ID:	77289	Lims Sample ID:	10
Operator ID:	4275	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82317/13 Calibration Date: 04/17/2013 19:55

Instrument ID: A2HP5F Calib Start Date: 03/05/2013 12:41

GC Column: ID: Calib End Date: 03/05/2013 14:42

Lab File ID: P5F17013.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10 - C28]	Ave	191229	206703		540	500	8.1	20.0
n-Nonane	Ave	205260	235378		57.3	50.0	14.7	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82317/13 Calibration Date: 04/17/2013 19:55

Instrument ID: A2HP5F Calib Start Date: 03/05/2013 12:41

GC Column: ID: Calib End Date: 03/05/2013 14:42

Lab File ID: P5F17013.D

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10 - C28]	9.48	5.32	13.63
n-Nonane	4.38	4.31	4.45

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17013.D		
Lims ID:	CCV DIESEL	Client ID:	
Inject. Date:	17-Apr-2013 19:55:39	Dil. Factor:	1.0000
Sample Type:	CCVRT		
Sample ID:	240-0018961-013		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP5F
Injection Vol:	1.0 ul	ALS Bottle#:	13
Lims Batch ID:	82317	Lims Sample ID:	13
Sublist:	chrom-TPH5F*sub1		
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\TPH5F.m		
Last Update:	18-Apr-2013 11:06:17	Calib Date:	05-Mar-2013 14:42:58
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK028		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.383	4.383	0.000	11768884	57.3	
A 15 Diesel					
9.476	5.323 - 13.629		103351684	540.5	

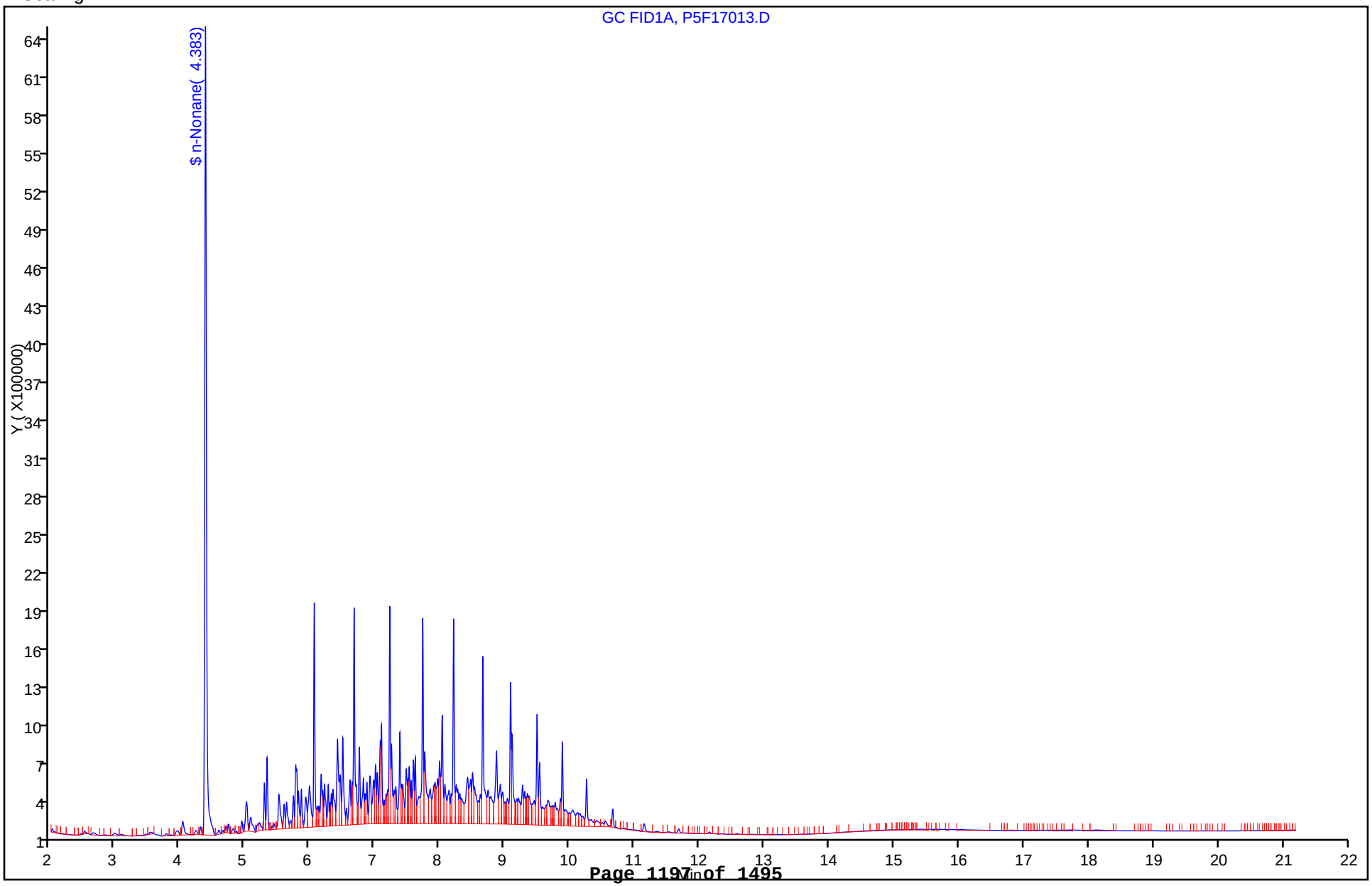
Report Date: 18-Apr-2013 11:06:17 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17013.D

Injection Date:	17-Apr-2013 19:55:39	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5F
Lims Batch ID:	82317	Lims Sample ID:	13
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82317/25 Calibration Date: 04/18/2013 02:01

Instrument ID: A2HP5F Calib Start Date: 03/05/2013 12:41

GC Column: ID: Calib End Date: 03/05/2013 14:42

Lab File ID: P5F17025.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10 - C28]	Ave	191229	222181		581	500	16.2	20.0
n-Nonane	Ave	205260	246286		60.0	50.0	20.0	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82317/25 Calibration Date: 04/18/2013 02:01

Instrument ID: A2HP5F Calib Start Date: 03/05/2013 12:41

GC Column: ID: Calib End Date: 03/05/2013 14:42

Lab File ID: P5F17025.D

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10 - C28]	9.48	5.32	13.63
n-Nonane	4.40	4.31	4.45

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17025.D		
Lims ID:	CCV DIESEL	Client ID:	
Inject. Date:	18-Apr-2013 02:01:05	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	240-0018961-025		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP5F
Injection Vol:	1.0 ul	ALS Bottle#:	25
Lims Batch ID:	82317	Lims Sample ID:	25
Sublist:	chrom-TPH5F*sub1		
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\TPH5F.m		
Last Update:	18-Apr-2013 11:06:27	Calib Date:	05-Mar-2013 14:42:58
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK028		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.395	4.383	0.012	12314287	60.0	
A 15 Diesel					
9.476	5.323 - 13.629		111090582	580.9	

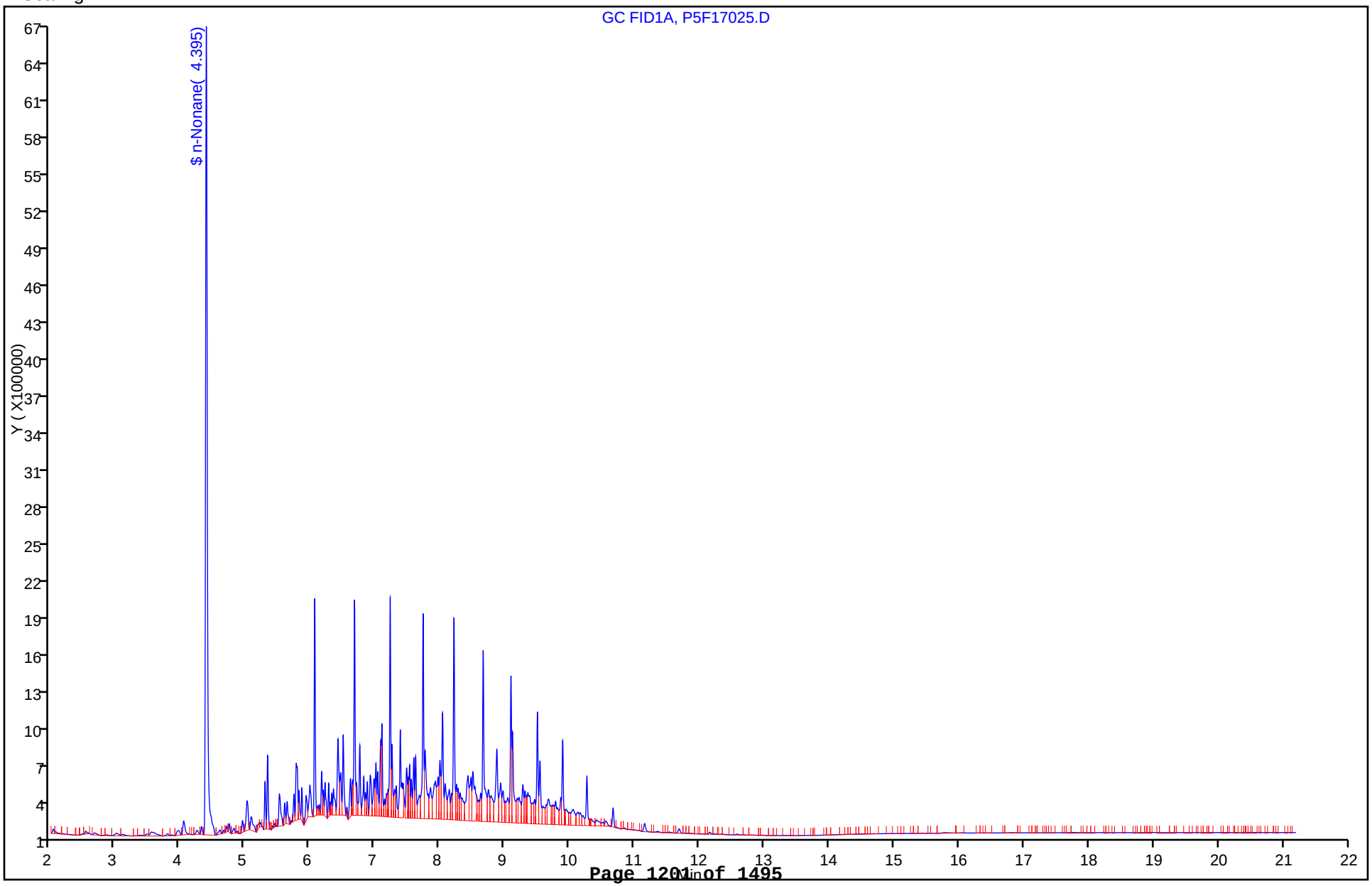
Report Date: 18-Apr-2013 11:06:27 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17025.D

Injection Date:	18-Apr-2013 02:01:05	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5F
Lims Batch ID:	82317	Lims Sample ID:	25
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82317/36 Calibration Date: 04/18/2013 07:37

Instrument ID: A2HP5F Calib Start Date: 03/05/2013 12:41

GC Column: ID: Calib End Date: 03/05/2013 14:42

Lab File ID: P5F17036.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10 - C28]	Ave	191229	243328		636	500	27.2*	20.0
n-Nonane	Ave	205260	263610		64.2	50.0	28.4*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82317/36 Calibration Date: 04/18/2013 07:37

Instrument ID: A2HP5F Calib Start Date: 03/05/2013 12:41

GC Column: ID: Calib End Date: 03/05/2013 14:42

Lab File ID: P5F17036.D

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10 - C28]	9.48	5.32	13.63
n-Nonane	4.40	4.31	4.45

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17036.D		
Lims ID:	CCV DIESEL	Client ID:	
Inject. Date:	18-Apr-2013 07:37:02	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	240-0018961-036		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP5F
Injection Vol:	1.0 ul	ALS Bottle#:	36
Lims Batch ID:	82317	Lims Sample ID:	36
Sublist:	chrom-TPH5F*sub1		
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\TPH5F.m		
Last Update:	18-Apr-2013 11:06:34	Calib Date:	05-Mar-2013 14:42:58
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK028		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.395	4.383	0.012	13180520	64.2	
A 15 Diesel					
9.476	5.323 - 13.629		121664214	636.2	

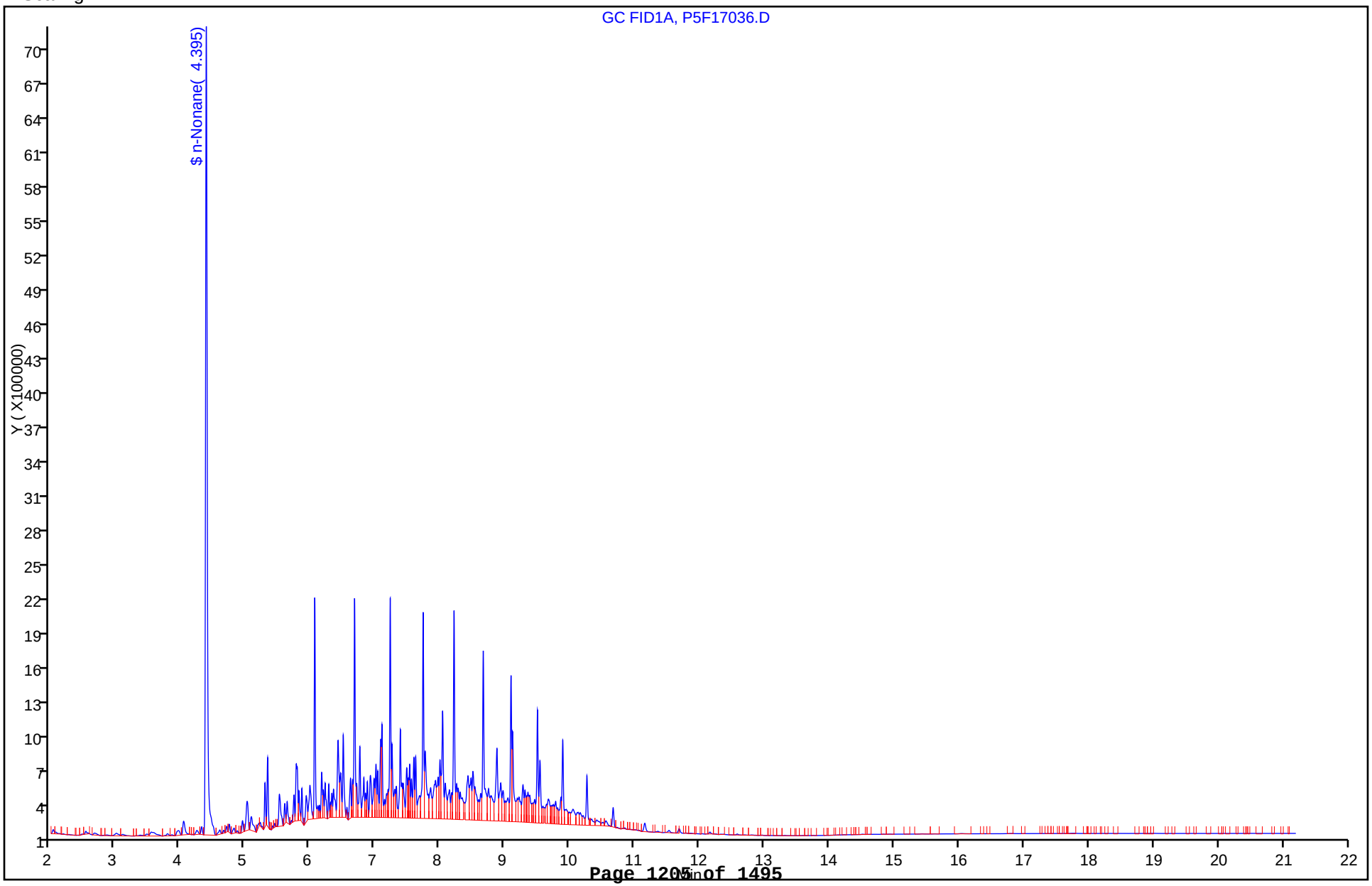
Report Date: 18-Apr-2013 11:06:34 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17036.D

Injection Date:	18-Apr-2013 07:37:02	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5F
Lims Batch ID:	82317	Lims Sample ID:	36
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82317/41 Calibration Date: 04/18/2013 10:07

Instrument ID: A2HP5F Calib Start Date: 03/05/2013 12:41

GC Column: ID: Calib End Date: 03/05/2013 14:42

Lab File ID: P5F17041.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10 - C28]	Ave	191229	243654		637	500	27.4*	20.0
n-Nonane	Ave	205260	265808		64.7	50.0	29.5*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82317/41 Calibration Date: 04/18/2013 10:07

Instrument ID: A2HP5F Calib Start Date: 03/05/2013 12:41

GC Column: ID: Calib End Date: 03/05/2013 14:42

Lab File ID: P5F17041.D

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10 - C28]	9.48	5.32	13.63
n-Nonane	4.40	4.31	4.45

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17041.D		
Lims ID:	CCV DIESEL	Client ID:	
Inject. Date:	18-Apr-2013 10:07:40	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	240-0018961-041		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP5F
Injection Vol:	1.0 ul	ALS Bottle#:	41
Lims Batch ID:	82317	Lims Sample ID:	41
Sublist:	chrom-TPH5F*sub1		
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\TPH5F.m		
Last Update:	18-Apr-2013 11:06:37	Calib Date:	05-Mar-2013 14:42:58
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK028		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.399	4.383	0.016	13290415	64.7	
A 15 Diesel					
9.476	5.323 - 13.629		121826861	637.1	

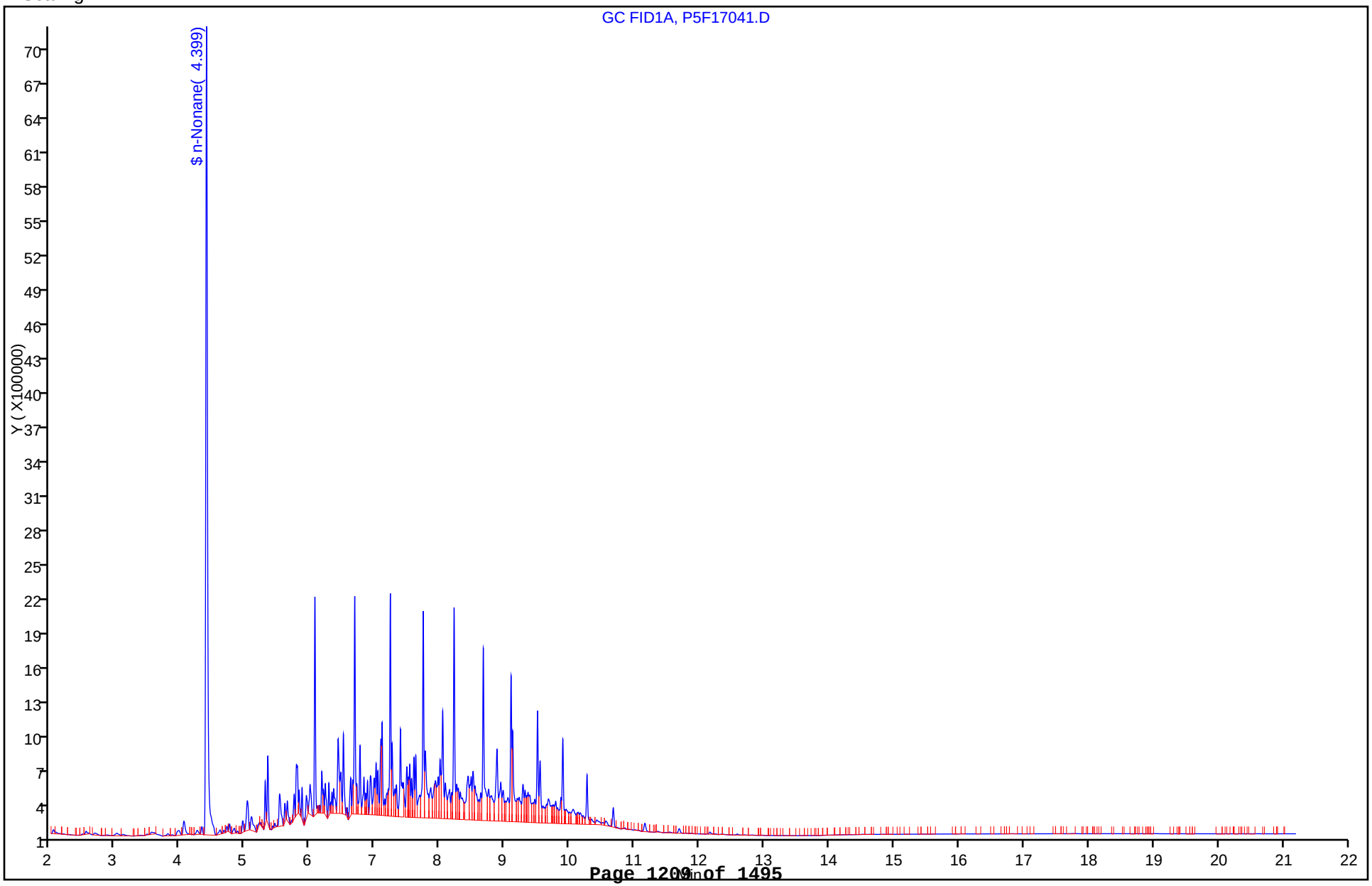
Report Date: 18-Apr-2013 11:06:37 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17041.D

Injection Date:	18-Apr-2013 10:07:40	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5F
Lims Batch ID:	82317	Lims Sample ID:	41
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82531/18 Calibration Date: 04/18/2013 23:35

Instrument ID: A2HP5F Calib Start Date: 03/05/2013 12:41

GC Column: ID: Calib End Date: 03/05/2013 14:42

Lab File ID: P5F18018.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10 - C28]	Ave	191229	205195		537	500	7.3	20.0
n-Nonane	Ave	205260	237598		57.9	50.0	15.8	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82531/18 Calibration Date: 04/18/2013 23:35

Instrument ID: A2HP5F Calib Start Date: 03/05/2013 12:41

GC Column: ID: Calib End Date: 03/05/2013 14:42

Lab File ID: P5F18018.D

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10 - C28]	9.50	5.36	13.65
n-Nonane	4.42	4.35	4.49

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP5F\20130418-19013.b\P5F18018.D		
Lims ID:	CCV DIESEL	Client ID:	
Inject. Date:	18-Apr-2013 23:35:58	Dil. Factor:	1.0000
Sample Type:	CCVRT		
Sample ID:	240-0019013-018		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP5F
Injection Vol:	1.0 ul	ALS Bottle#:	18
Lims Batch ID:	82531	Lims Sample ID:	18
Sublist:	chrom-TPH5F*sub1		
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP5F\20130418-19013.b\TPH5F.m		
Last Update:	19-Apr-2013 15:34:45	Calib Date:	18-Apr-2013 18:28:53
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5F\20130418-19013.b\P5F18008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.416	4.416	0.000	11879903	57.9	
A 15 Diesel					
9.502	5.355 - 13.648		102597297	536.5	

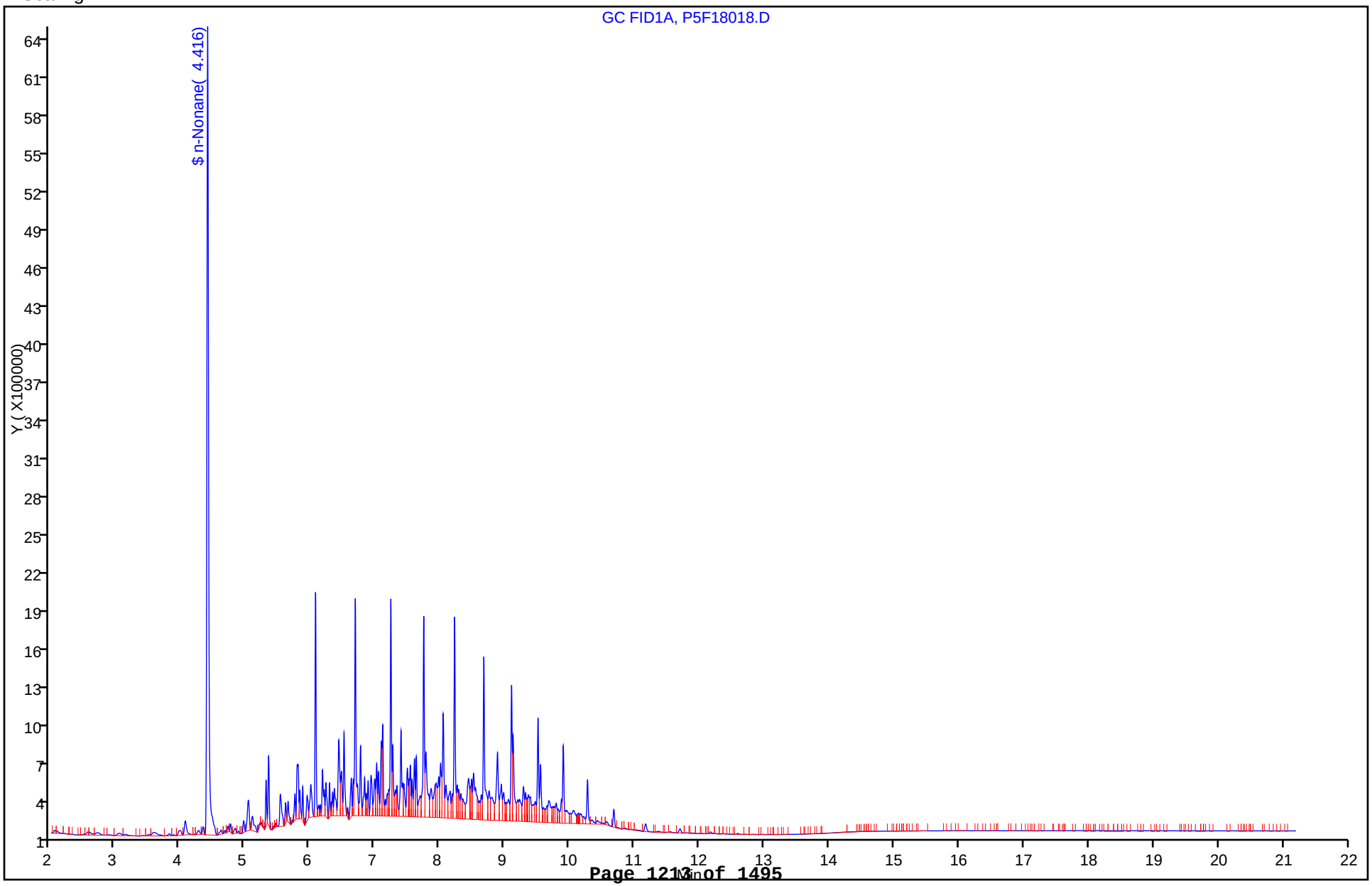
Report Date: 19-Apr-2013 15:34:45 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130418-19013.b\P5F18018.D

Injection Date:	18-Apr-2013 23:35:58	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5F
Lims Batch ID:	82531	Lims Sample ID:	18
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82531/30 Calibration Date: 04/19/2013 05:44

Instrument ID: A2HP5F Calib Start Date: 03/05/2013 12:41

GC Column: ID: Calib End Date: 03/05/2013 14:42

Lab File ID: P5F18030.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10 - C28]	Ave	191229	219439		574	500	14.8	20.0
n-Nonane	Ave	205260	251540		61.3	50.0	22.5*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82531/30 Calibration Date: 04/19/2013 05:44

Instrument ID: A2HP5F Calib Start Date: 03/05/2013 12:41

GC Column: ID: Calib End Date: 03/05/2013 14:42

Lab File ID: P5F18030.D

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10 - C28]	9.50	5.36	13.65
n-Nonane	4.42	4.31	4.45

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP5F\20130418-19013.b\P5F18030.D		
Lims ID:	CCV DIESEL	Client ID:	
Inject. Date:	19-Apr-2013 05:44:20	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	240-0019013-030		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP5F
Injection Vol:	1.0 ul	ALS Bottle#:	30
Lims Batch ID:	82531	Lims Sample ID:	30
Sublist:	chrom-TPH5F*sub1		
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP5F\20130418-19013.b\TPH5F.m		
Last Update:	19-Apr-2013 11:40:19	Calib Date:	18-Apr-2013 18:28:53
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5F\20130418-19013.b\P5F18008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		
First Level Reviewer: bolgrind		Date:	19-Apr-2013 11:34:40

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.422	4.383	0.039	12576991	61.3	
A 15 Diesel					
9.502	5.355 - 13.648		109719304	573.8	

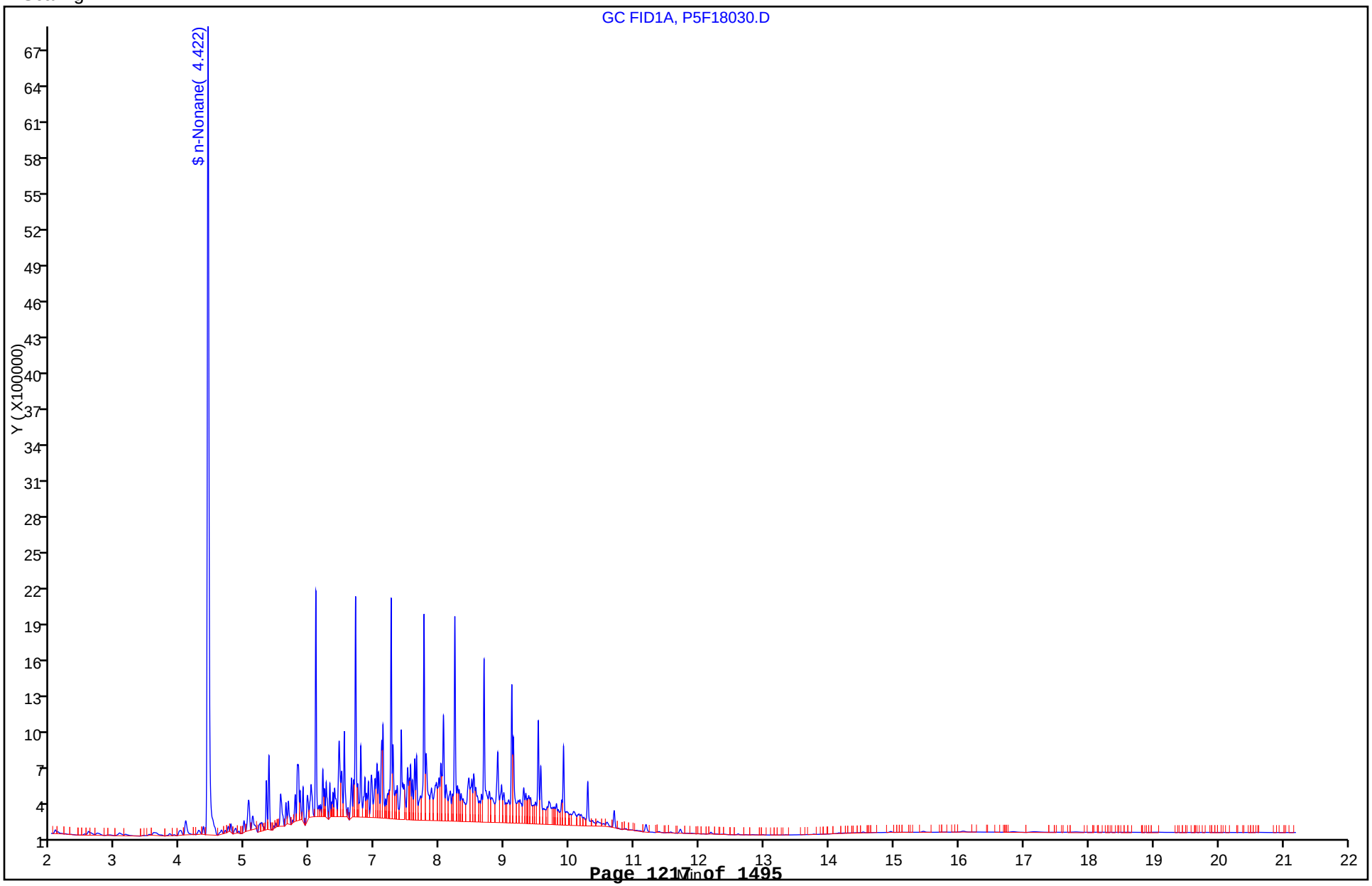
Report Date: 19-Apr-2013 11:40:19 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130418-19013.b\P5F18030.D

Injection Date:	19-Apr-2013 05:44:20	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5F
Lims Batch ID:	82531	Lims Sample ID:	30
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82531/46 Calibration Date: 04/19/2013 13:51

Instrument ID: A2HP5F Calib Start Date: 03/05/2013 12:41

GC Column: ID: Calib End Date: 03/05/2013 14:42

Lab File ID: P5F18046.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10 - C28]	Ave	191229	256469		671	500	34.1*	20.0
n-Nonane	Ave	205260	289128		70.4	50.0	40.9*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82531/46 Calibration Date: 04/19/2013 13:51

Instrument ID: A2HP5F Calib Start Date: 03/05/2013 12:41

GC Column: ID: Calib End Date: 03/05/2013 14:42

Lab File ID: P5F18046.D

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10 - C28]	9.50	5.36	13.65
n-Nonane	4.41	4.31	4.45

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP5F\20130418-19013.b\P5F18046.D		
Lims ID:	CCV DIESEL	Client ID:	
Inject. Date:	19-Apr-2013 13:51:07	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	240-0019013-046		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP5F
Injection Vol:	1.0 ul	ALS Bottle#:	46
Lims Batch ID:	82531	Lims Sample ID:	46
Sublist:	chrom-TPH5F*sub1		
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP5F\20130418-19013.b\TPH5F.m		
Last Update:	19-Apr-2013 15:27:45	Calib Date:	18-Apr-2013 18:28:53
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5F\20130418-19013.b\P5F18008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.412	4.383	0.029	14456391	70.4	
A 15 Diesel					
9.502	5.355 - 13.648		128234700	670.6	

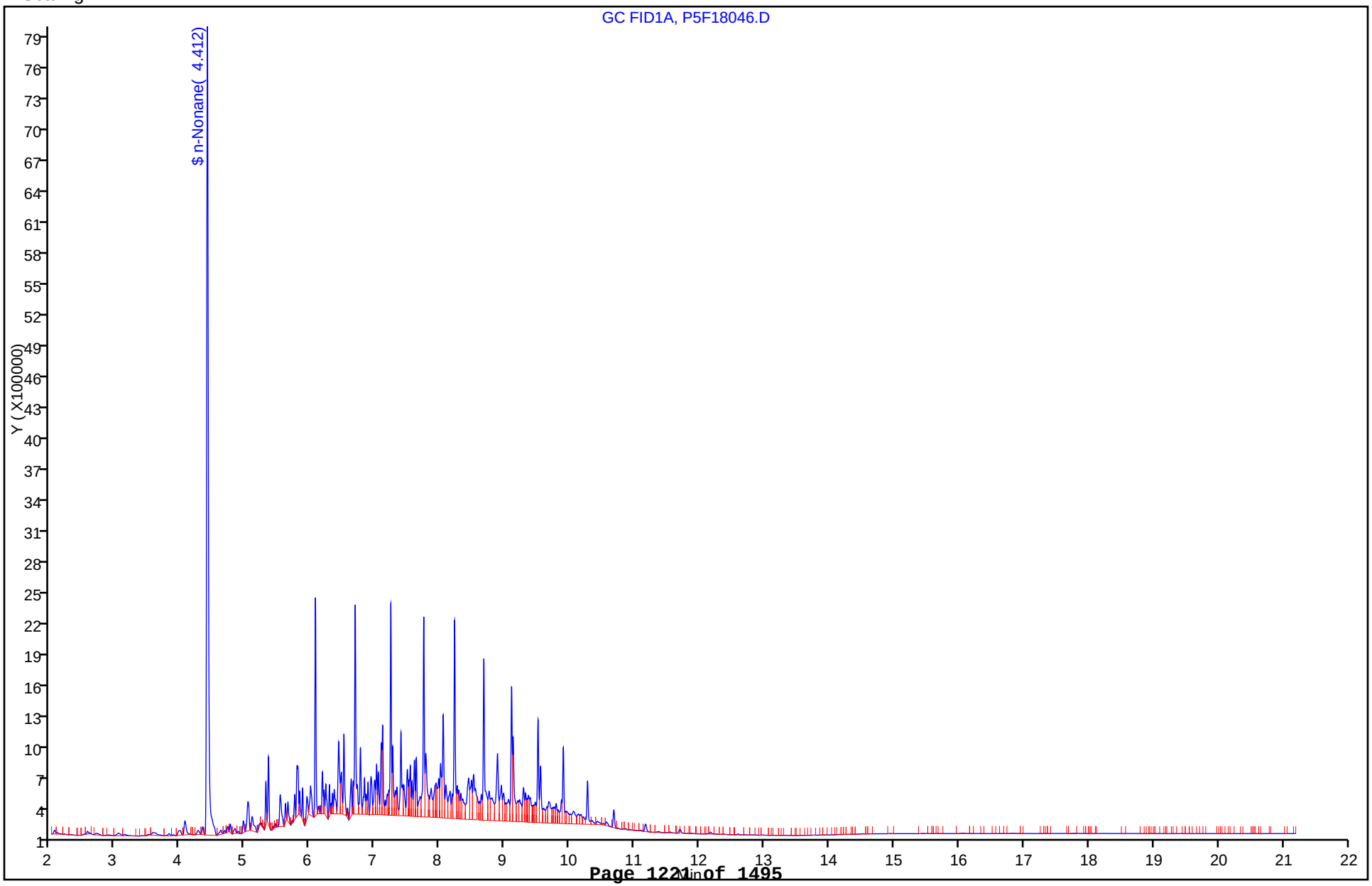
Report Date: 19-Apr-2013 15:27:45 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130418-19013.b\P5F18046.D

Injection Date:	19-Apr-2013 13:51:07	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5F
Lims Batch ID:	82531	Lims Sample ID:	46
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: ICV 240-82405/10 Calibration Date: 04/17/2013 21:17

Instrument ID: A2HP6F Calib Start Date: 04/17/2013 18:42

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/17/2013 20:46

Lab File ID: P6F17010.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10 - C28]	Ave	187862	168675		449	500	-10.2	20.0
n-Nonane	Ave	190426			0.000000	50.0		20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: ICV 240-82405/10 Calibration Date: 04/17/2013 21:17

Instrument ID: A2HP6F Calib Start Date: 04/17/2013 18:42

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/17/2013 20:46

Lab File ID: P6F17010.D

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10 - C28]	9.31	5.09	13.52
n-Nonane			

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17010.D		
Lims ID:	ICV DIESEL	Client ID:	
Inject. Date:	17-Apr-2013 21:17:25	Dil. Factor:	1.0000
Sample Type:	ICV		
Sample ID:	240-0018980-010		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP6F
Injection Vol:	1.0 ul	ALS Bottle#:	10
Lims Batch ID:	82405	Lims Sample ID:	10
Sublist:			
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\TPH6F.m		
Last Update:	18-Apr-2013 12:22:41	Calib Date:	17-Apr-2013 20:46:28
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK028		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.061					
A 15 Diesel					
9.308	5.094 - 13.521		84337361	448.9	

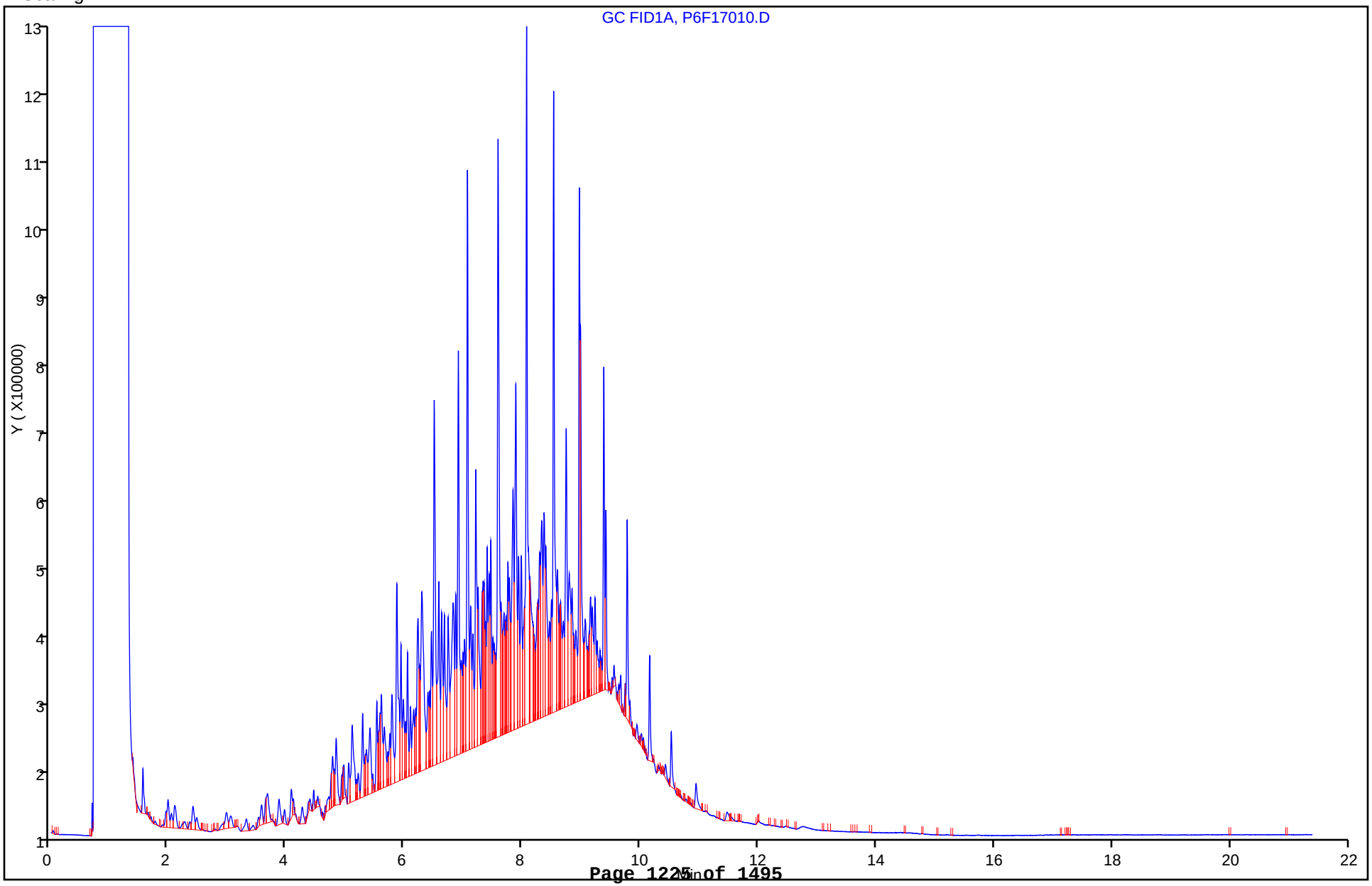
Report Date: 18-Apr-2013 12:22:42 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17010.D

Injection Date:	17-Apr-2013 21:17:25	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP6F
Lims Batch ID:	82405	Lims Sample ID:	10
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82537/5 Calibration Date: 04/18/2013 17:00

Instrument ID: A2HP6F Calib Start Date: 04/17/2013 18:42

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/17/2013 20:46

Lab File ID: P6F18005.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10 - C28]	Ave	187862	196425		523	500	4.6	20.0
n-Nonane	Ave	190426	208203		54.7	50.0	9.3	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82537/5 Calibration Date: 04/18/2013 17:00

Instrument ID: A2HP6F Calib Start Date: 04/17/2013 18:42

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/17/2013 20:46

Lab File ID: P6F18005.D

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10 - C28]	9.31	5.10	13.53
n-Nonane	4.07	4.02	4.12

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18005.D		
Lims ID:	CCV DIESEL	Client ID:	
Inject. Date:	18-Apr-2013 17:00:35	Dil. Factor:	1.0000
Sample Type:	CCVRT		
Sample ID:	240-0019017-005		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP6F
Injection Vol:	1.0 ul	ALS Bottle#:	5
Lims Batch ID:	82537	Lims Sample ID:	5
Sublist:	chrom-TPH6F*sub1		
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\TPH6F.m		
Last Update:	19-Apr-2013 11:26:41	Calib Date:	17-Apr-2013 20:46:28
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.065	4.065	0.000	10410135	54.7	
A 15 Diesel					
9.312	5.098 - 13.526		98212404	522.8	

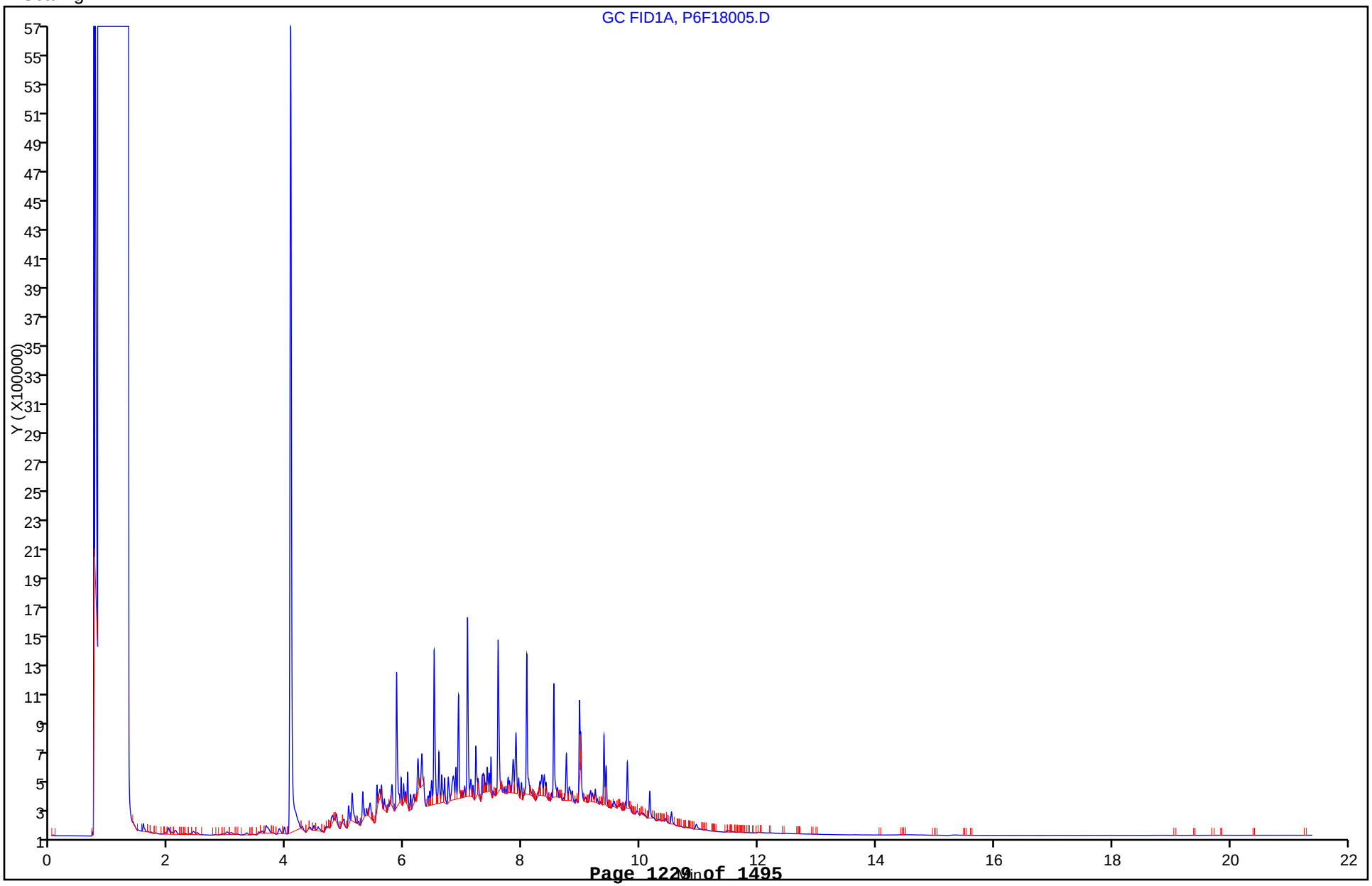
Report Date: 19-Apr-2013 11:26:41 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18005.D

Injection Date:	18-Apr-2013 17:00:35	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP6F
Lims Batch ID:	82537	Lims Sample ID:	5
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82537/17 Calibration Date: 04/18/2013 23:18

Instrument ID: A2HP6F Calib Start Date: 04/17/2013 18:42

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/17/2013 20:46

Lab File ID: P6F18017.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10 - C28]	Ave	187862	191924		511	500	2.2	20.0
n-Nonane	Ave	190426	206563		54.2	50.0	8.5	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82537/17 Calibration Date: 04/18/2013 23:18

Instrument ID: A2HP6F Calib Start Date: 04/17/2013 18:42

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/17/2013 20:46

Lab File ID: P6F18017.D

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10 - C28]	9.31	5.10	13.53
n-Nonane	4.07	4.02	4.12

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18017.D		
Lims ID:	CCV DIESEL	Client ID:	
Inject. Date:	18-Apr-2013 23:18:36	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	240-0019017-017		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP6F
Injection Vol:	1.0 ul	ALS Bottle#:	17
Lims Batch ID:	82537	Lims Sample ID:	17
Sublist:	chrom-TPH6F*sub1		
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\TPH6F.m		
Last Update:	19-Apr-2013 11:26:48	Calib Date:	17-Apr-2013 20:46:28
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.065	4.065	0.000	10328157	54.2	
A 15 Diesel					
9.312	5.098 - 13.526		95962143	510.8	

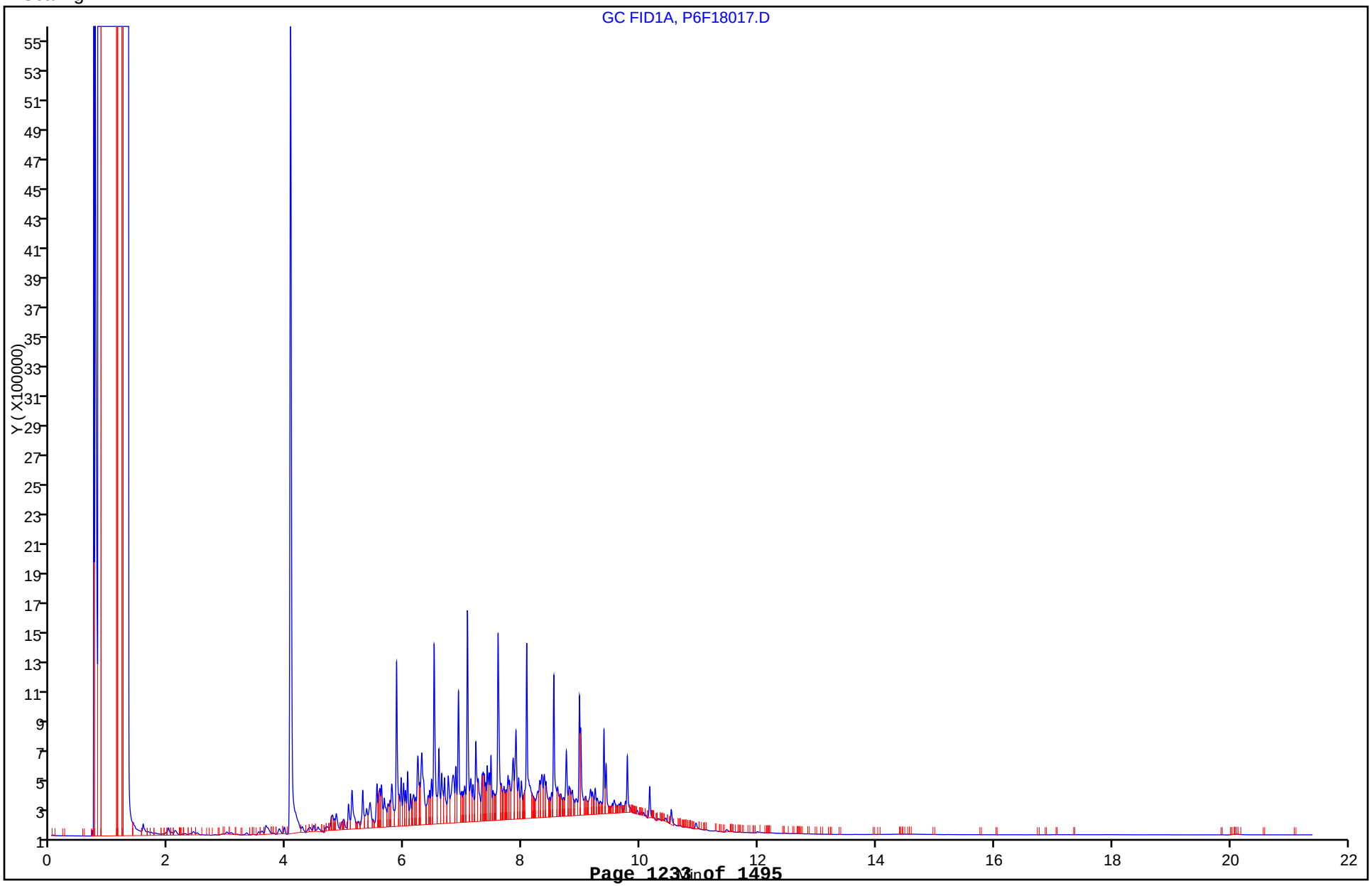
Report Date: 19-Apr-2013 11:26:48 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18017.D

Injection Date:	18-Apr-2013 23:18:36	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP6F
Lims Batch ID:	82537	Lims Sample ID:	17
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82537/28 Calibration Date: 04/19/2013 05:03

Instrument ID: A2HP6F Calib Start Date: 04/17/2013 18:42

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/17/2013 20:46

Lab File ID: P6F18028.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10 - C28]	Ave	187862	211145		562	500	12.4	20.0
n-Nonane	Ave	190426	229283		60.2	50.0	20.4*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82537/28 Calibration Date: 04/19/2013 05:03

Instrument ID: A2HP6F Calib Start Date: 04/17/2013 18:42

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/17/2013 20:46

Lab File ID: P6F18028.D

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10 - C28]	9.31	5.10	13.53
n-Nonane	4.07	4.02	4.12

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18028.D		
Lims ID:	CCV DIESEL	Client ID:	
Inject. Date:	19-Apr-2013 05:03:02	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	240-0019017-028		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP6F
Injection Vol:	1.0 ul	ALS Bottle#:	28
Lims Batch ID:	82537	Lims Sample ID:	28
Sublist:	chrom-TPH6F*sub1		
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\TPH6F.m		
Last Update:	19-Apr-2013 11:26:58	Calib Date:	17-Apr-2013 20:46:28
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.065	4.065	0.000	11464152	60.2	
A 15 Diesel					
9.312	5.098 - 13.526		105572744	562.0	

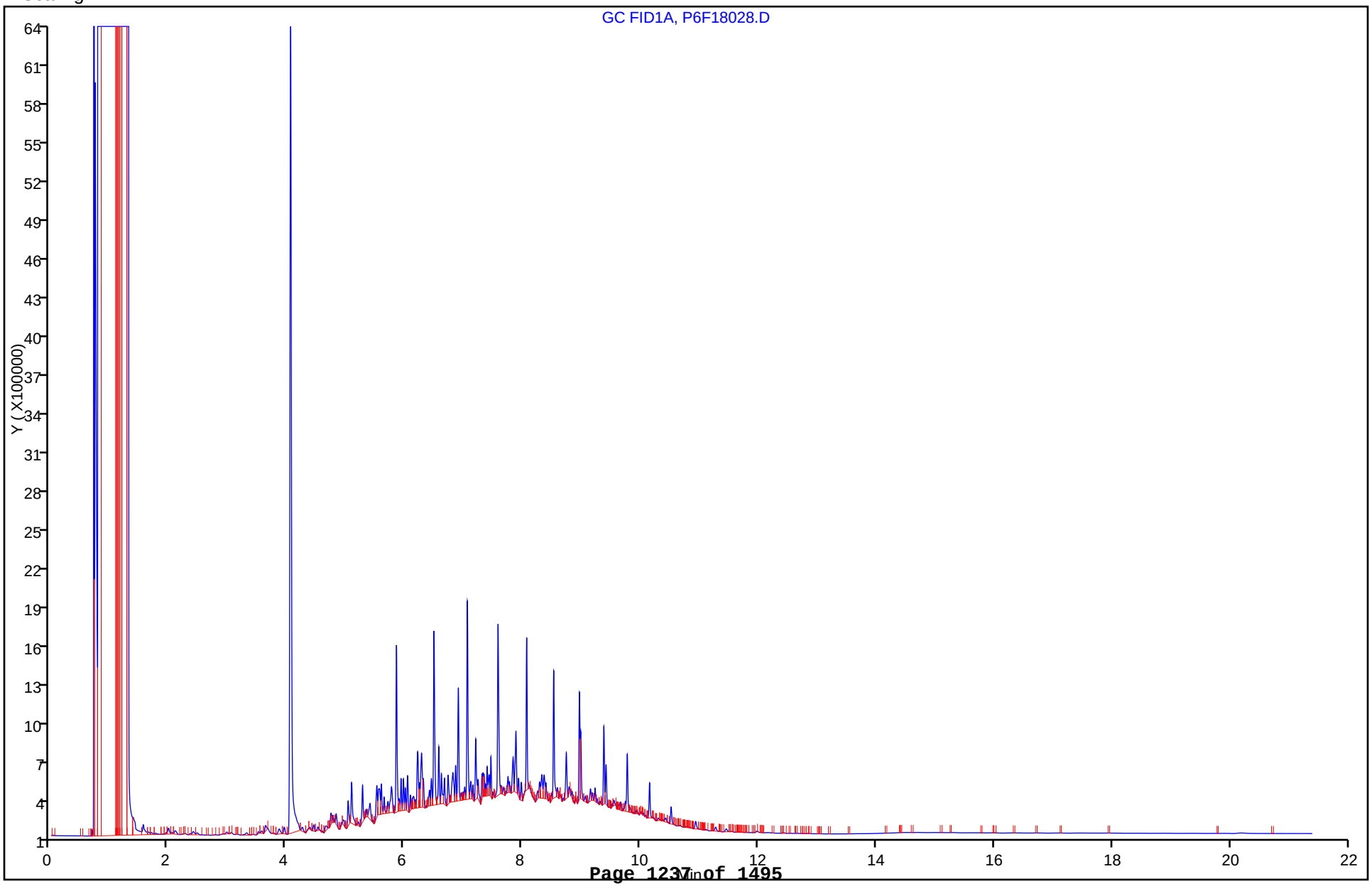
Report Date: 19-Apr-2013 11:26:58 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18028.D

Injection Date:	19-Apr-2013 05:03:02	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP6F
Lims Batch ID:	82537	Lims Sample ID:	28
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82537/38 Calibration Date: 04/19/2013 10:18

Instrument ID: A2HP6F Calib Start Date: 04/17/2013 18:42

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/17/2013 20:46

Lab File ID: P6F18038.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10 - C28]	Ave	187862	197953		527	500	5.4	20.0
n-Nonane	Ave	190426	215800		56.7	50.0	13.3	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82537/38 Calibration Date: 04/19/2013 10:18

Instrument ID: A2HP6F Calib Start Date: 04/17/2013 18:42

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/17/2013 20:46

Lab File ID: P6F18038.D

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10 - C28]	9.31	5.10	13.53
n-Nonane	4.07	4.02	4.12

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18038.D		
Lims ID:	CCV DIESEL	Client ID:	
Inject. Date:	19-Apr-2013 10:18:08	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	240-0019017-038		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP6F
Injection Vol:	1.0 ul	ALS Bottle#:	38
Lims Batch ID:	82537	Lims Sample ID:	38
Sublist:	chrom-TPH6F*sub1		
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\TPH6F.m		
Last Update:	19-Apr-2013 11:27:10	Calib Date:	17-Apr-2013 20:46:28
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.067	4.065	0.002	10790011	56.7	
A 15 Diesel					
9.312	5.098 - 13.526		98976633	526.9	

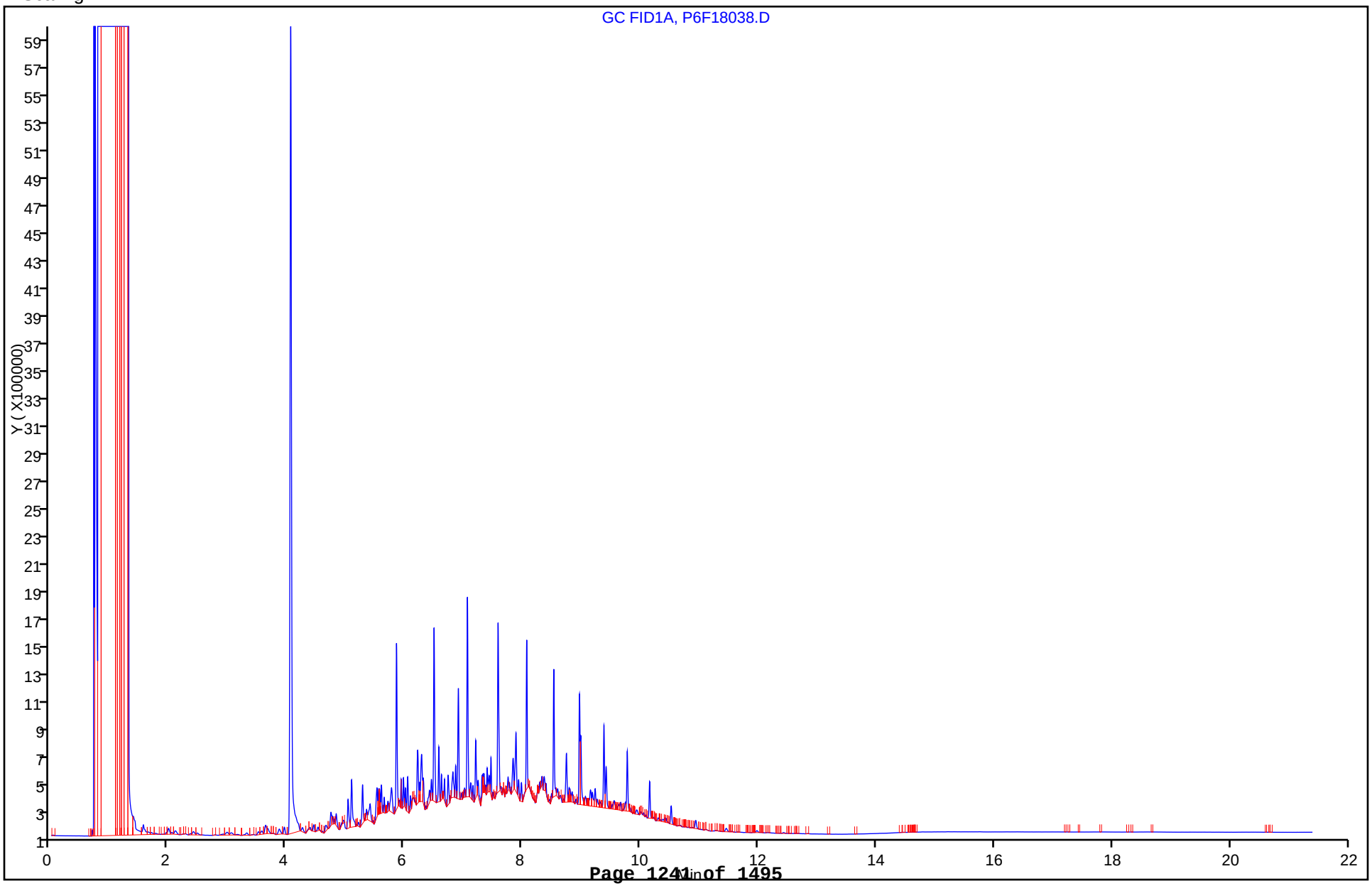
Report Date: 19-Apr-2013 11:27:10 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18038.D

Injection Date:	19-Apr-2013 10:18:08	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP6F
Lims Batch ID:	82537	Lims Sample ID:	38
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82770/5 Calibration Date: 04/19/2013 18:57

Instrument ID: A2HP6F Calib Start Date: 04/17/2013 18:42

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/17/2013 20:46

Lab File ID: P6F19005.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10 - C28]	Ave	187862	193188		514	500	2.8	20.0
n-Nonane	Ave	190426	211272		55.5	50.0	10.9	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82770/5 Calibration Date: 04/19/2013 18:57

Instrument ID: A2HP6F Calib Start Date: 04/17/2013 18:42

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/17/2013 20:46

Lab File ID: P6F19005.D

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10 - C28]	9.31	5.09	13.53
n-Nonane	4.06	4.01	4.11

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP6F\20130419-19075.b\P6F19005.D		
Lims ID:	CCV DIESEL	Client ID:	
Inject. Date:	19-Apr-2013 18:57:31	Dil. Factor:	1.0000
Sample Type:	CCVRT		
Sample ID:	240-0019075-005		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP6F
Injection Vol:	1.0 ul	ALS Bottle#:	5
Lims Batch ID:	82770	Lims Sample ID:	5
Sublist:	chrom-TPH6F*sub1		
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP6F\20130419-19075.b\TPH6F.m		
Last Update:	20-Apr-2013 09:06:40	Calib Date:	17-Apr-2013 20:46:28
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK001		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.060	4.060	0.000	10563610	55.5	
A 15 Diesel					
9.309	5.093 - 13.525		96594165	514.2	

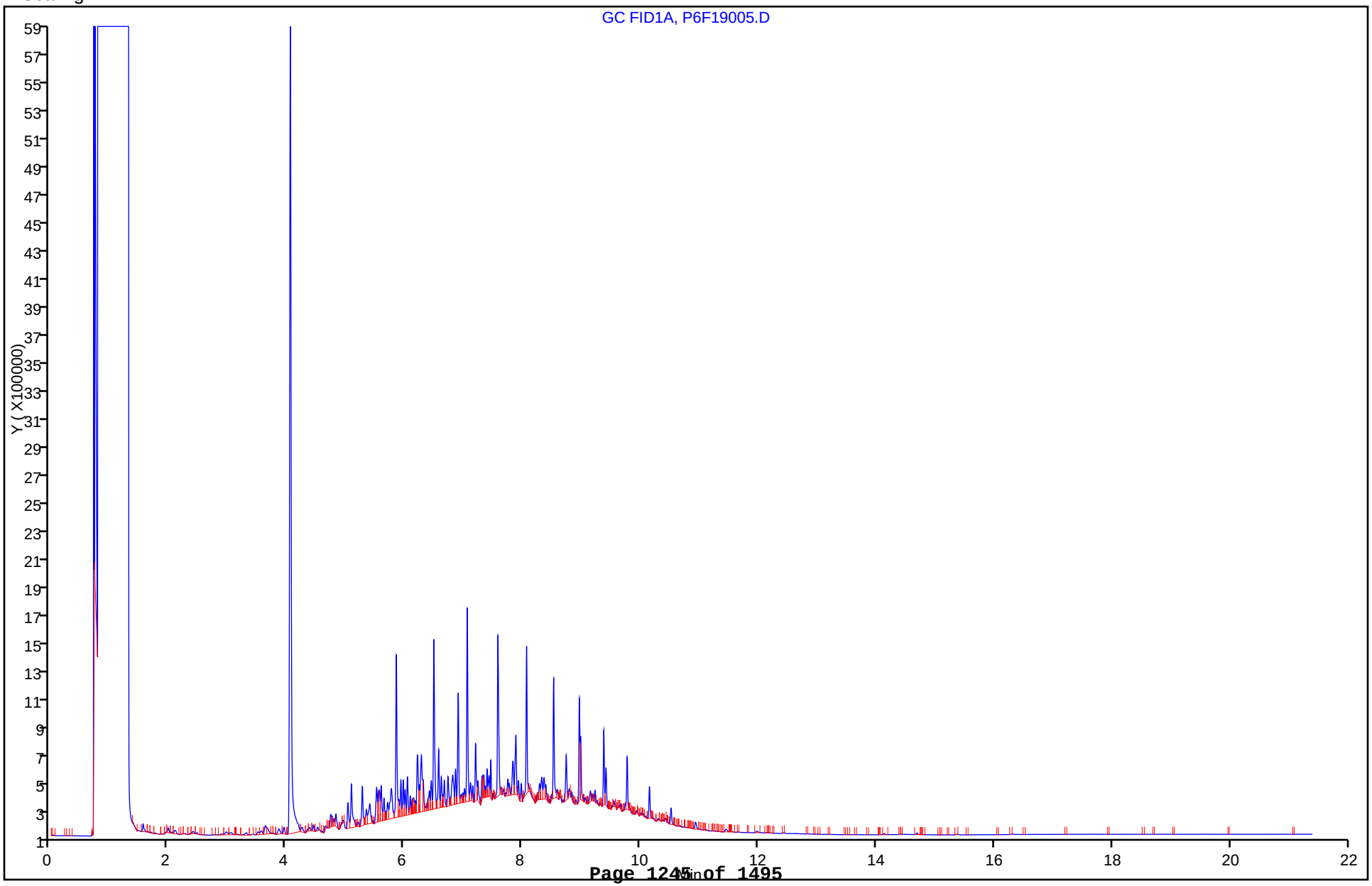
Report Date: 20-Apr-2013 09:06:40 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130419-19075.b\P6F19005.D

Injection Date:	19-Apr-2013 18:57:31	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP6F
Lims Batch ID:	82770	Lims Sample ID:	5
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82770/17 Calibration Date: 04/20/2013 01:05

Instrument ID: A2HP6F Calib Start Date: 04/17/2013 18:42

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/17/2013 20:46

Lab File ID: P6F19017.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10 - C28]	Ave	187862	206827		550	500	10.1	20.0
n-Nonane	Ave	190426	228036		59.9	50.0	19.8	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Lab Sample ID: CCV 240-82770/17 Calibration Date: 04/20/2013 01:05

Instrument ID: A2HP6F Calib Start Date: 04/17/2013 18:42

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/17/2013 20:46

Lab File ID: P6F19017.D

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10 - C28]	9.31	5.09	13.53
n-Nonane	4.06	4.01	4.11

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP6F\20130419-19075.b\P6F19017.D		
Lims ID:	CCV DIESEL	Client ID:	
Inject. Date:	20-Apr-2013 01:05:11	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	240-0019075-017		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP6F
Injection Vol:	1.0 ul	ALS Bottle#:	17
Lims Batch ID:	82770	Lims Sample ID:	17
Sublist:	chrom-TPH6F*sub1		
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP6F\20130419-19075.b\TPH6F.m		
Last Update:	20-Apr-2013 09:06:47	Calib Date:	17-Apr-2013 20:46:28
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK001		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.061	4.060	0.001	11401806	59.9	
A 15 Diesel					
9.309	5.093 - 13.525		103413394	550.5	

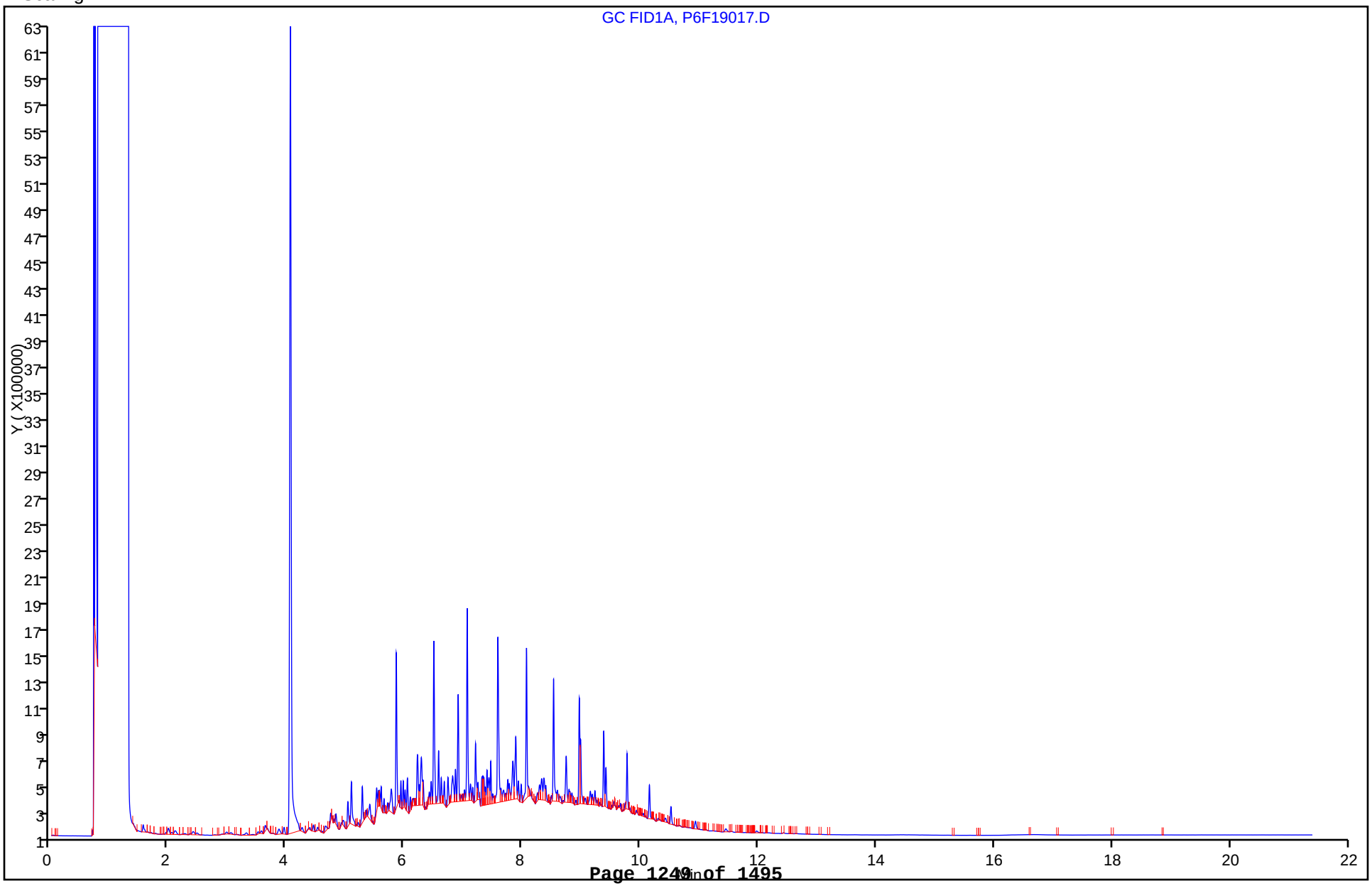
Report Date: 20-Apr-2013 09:06:47 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130419-19075.b\P6F19017.D

Injection Date:	20-Apr-2013 01:05:11	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP6F
Lims Batch ID:	82770	Lims Sample ID:	17
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-82081/23-A

Matrix: Solid | Lab File ID: P5F17015.D

Analysis Method: 8015B_DRO/DOD | Date Collected:

Extraction Method: 3540C | Date Extracted: 04/16/2013 09:42

Sample wt/vol: 30.00(g) | Date Analyzed: 04/17/2013 20:56

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82317 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	9.3	U	17	9.3	9.3
STL00272	C20-C34	9.3	U	17	9.3	9.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	49		10-110

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17015.D
Lims ID: MB 240-82081/23-A Client ID:
Inject. Date: 17-Apr-2013 20:56:14 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: 240-0018961-015
Misc. Info.:
Operator: 400725 Instrument ID: A2HP5F
Injection Vol: 1.0 ul ALS Bottle#: 15
Lims Batch ID: 82317 Lims Sample ID: 15
Detector: GC FID1A

Method: \\Ncchrom\ChromData\A2HP5F\20130417-18961.b\TPH5F.m
Last Update: 18-Apr-2013 11:06:17 Calib Date: 05-Mar-2013 14:42:58
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01008.D
Limit Group: GC 8015C TPH ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK028

	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
1	Tetratetracontane					1
	23.885					
A 2	C28-C36					
	13.694	-16.742				
A 3	C10-C34					
	10.464	5.323 - 15.605		5857131	30.6	
A 4	C32-C44					1
	0.0 -	0.100				
A 5	C12-C22					
	6.669 -	11.142				
A 6	C22-C32					
	11.142	-14.824				
7	n-Octane					
	2.953	2.967	-0.014	298368	0	
$ 8	n-Nonane					
	4.370	4.383	-0.013	9993805	48.7	
9	n-Decane					
	5.323	5.323	0.000	27114	0	
10	Dodecane					
	6.678	6.669	0.009	1237	0	
11	n-Tetradecane					
	7.733	7.728	0.005	1483	0	
A 12	C10-C20					
	5.323 -	10.225				
13	Hexadecane					
	8.684	8.655	0.029	3794	0	
A 14	C10-C28					
	5.169 -	13.794				

	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A	15 Diesel					
		5.323 - 13.629				
	16 n-Octadecane					
	9.454	9.492	-0.038	6717	0	
A	17 C10-C32					
		5.323 - 14.824				
	18 icosane					1
		10.256				
	19 n-Docosane					
	11.100	11.142	-0.042	437	0	
A	20 C12-C24					
	4.548	3.039 - 6.058		6884197	36.0	
	21 n-Tetracosane					
	12.161	12.148	0.013	502	0	
A	22 C20-C34					
		10.256 - 15.605				
	23 n-Hexacosane					
	12.973	12.955	0.018	1372	0	
	24 n-Octacosane					
	13.642	13.629	0.013	4060	0	
	25 Triacontane					
	14.226	14.217	0.009	62754	0	
	26 Dotriacontane					
	14.839	14.824	0.015	202783	0	
	27 Tetratriacontane					
	15.617	15.605	0.012	86912	0	
A	28 C24-C40					
	16.313	12.148 - 20.478		15858530	82.9	
	29 n-Hexatriacontane					
	16.665	16.684	-0.019	17824	0	
	30 C38					
	18.201	18.220	-0.019	30766	0	
	31 C40					
	20.450	20.478	-0.028	16644	0	
A	32 C20-C36					
	13.470	10.256 - 16.684		7704420	40.3	
A	34 C24-C44					
	18.017	12.148 - 23.885		17684747	92.5	
A	35 C10-C24					
		5.323 - 12.148				

QC Flag Legend

Processing Flags
1 - Missing Peaks

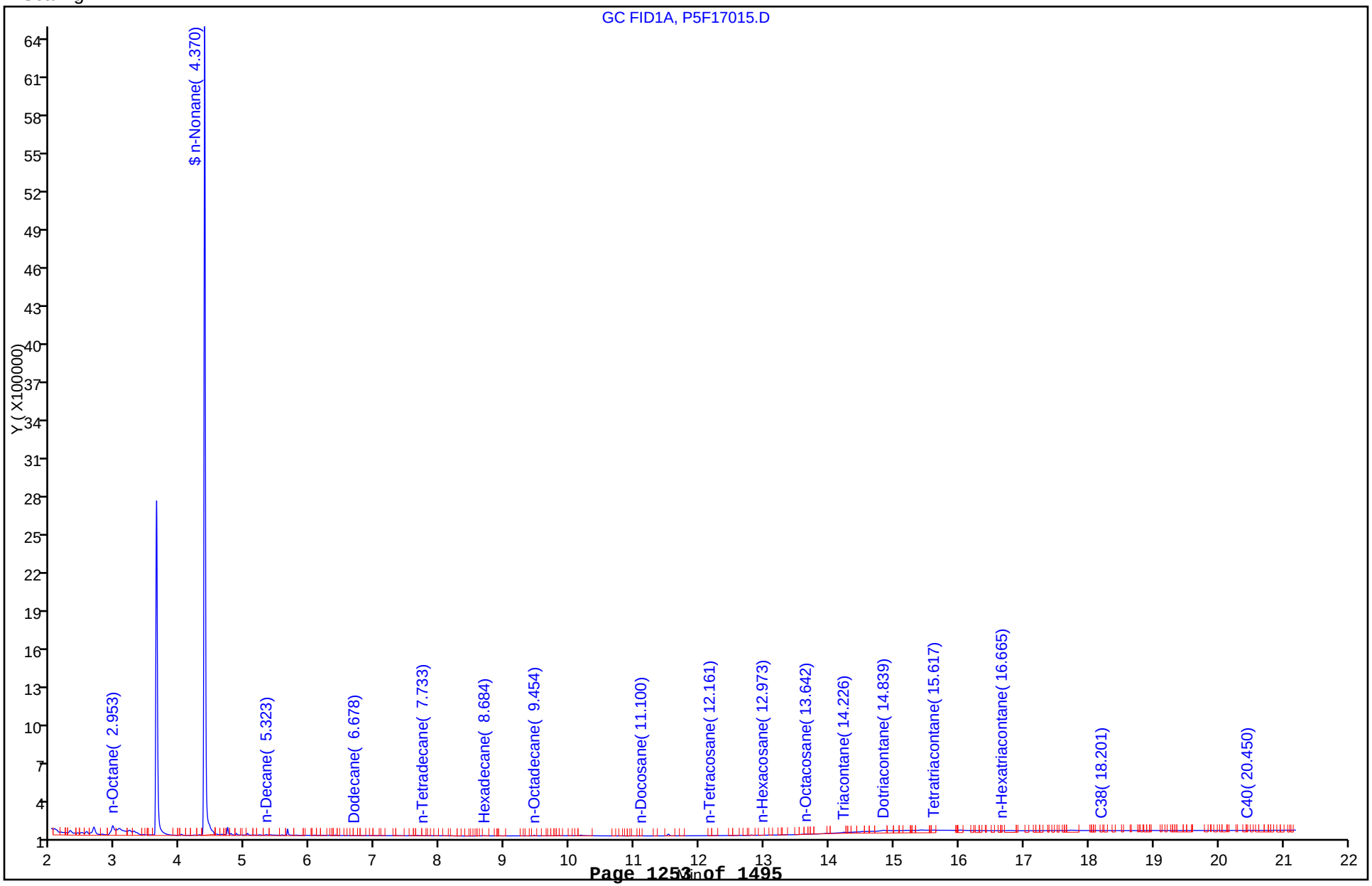
Report Date: 18-Apr-2013 11:06:20 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17015.D

Injection Date:	17-Apr-2013 20:56:14	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5F
Lims Batch ID:	82317	Lims Sample ID:	15
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-82097/23-A

Matrix: Solid Lab File ID: P6F18012.D

Analysis Method: 8015B_DRO/DOD Date Collected:

Extraction Method: 3540C Date Extracted: 04/16/2013 10:04

Sample wt/vol: 30.00(g) Date Analyzed: 04/18/2013 20:41

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 82537 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	9.3	U	17	9.3	9.3
STL00272	C20-C34	9.3	U	17	9.3	9.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	50		10-110

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18012.D		
Lims ID:	MB 240-82097/23-A	Client ID:	
Inject. Date:	18-Apr-2013 20:41:50	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	240-0019017-012		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP6F
Injection Vol:	1.0 ul	ALS Bottle#:	12
Lims Batch ID:	82537	Lims Sample ID:	12
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\TPH6F.m		
Last Update:	19-Apr-2013 11:26:41	Calib Date:	17-Apr-2013 20:46:28
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

		RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
	1 Tetratetracontane	26.357					1
A	2 C28-C36	15.076	13.664	-16.488	277124	0	
A	3 C10-C34		5.098	- 15.366			
A	4 C32-C44		14.684	-26.357			
A	5 C12-C22		6.497	- 10.932			
A	6 C22-C32		10.932	-14.684			
	7 n-Octane	2.414	2.413	0.001	50639	0	
$	8 n-Nonane	4.058	4.065	-0.007	9540167	50.1	
	9 n-Decane	5.098					1
	10 Dodecane	6.497					1
	11 n-Tetradecane	7.584					1
A	12 C10-C20		5.098	- 10.153			
	13 Hexadecane	8.529					1
A	14 C10-C28	9.364	5.064	- 13.664	1599276	0	

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A 15 Diesel					
5.098 - 13.526					
16 n-Octadecane					1
9.379					
A 17 C10-C32					
5.098 - 14.684					
18 icosane					1
10.153					
19 n-Docosane					1
10.932					
A 20 C12-C24					
6.497 - 11.967					
21 n-Tetracosane					1
11.967					
A 22 C20-C34					
10.153 -15.366					
23 n-Hexacosane					1
12.824					
24 n-Octacosane					1
13.526					
25 Triacontane					1
14.128					
26 Dotriacontane					1
14.684					
27 Tetratriacontane					1
15.366					
A 28 C24-C40					
11.967 -19.526					
29 n-Hexatriacontane					1
16.295					
30 C38					1
17.616					
31 C40					1
19.526					
A 32 C20-C36					
10.153 -16.295					
A 33 C24-C44					
11.967 -26.357					
A 34 C10-C24					
5.098 - 11.967					
$ 35 o-Terphenyl					
0.031	0.0	0.031	2424	0	

QC Flag Legend

Processing Flags
1 - Missing Peaks

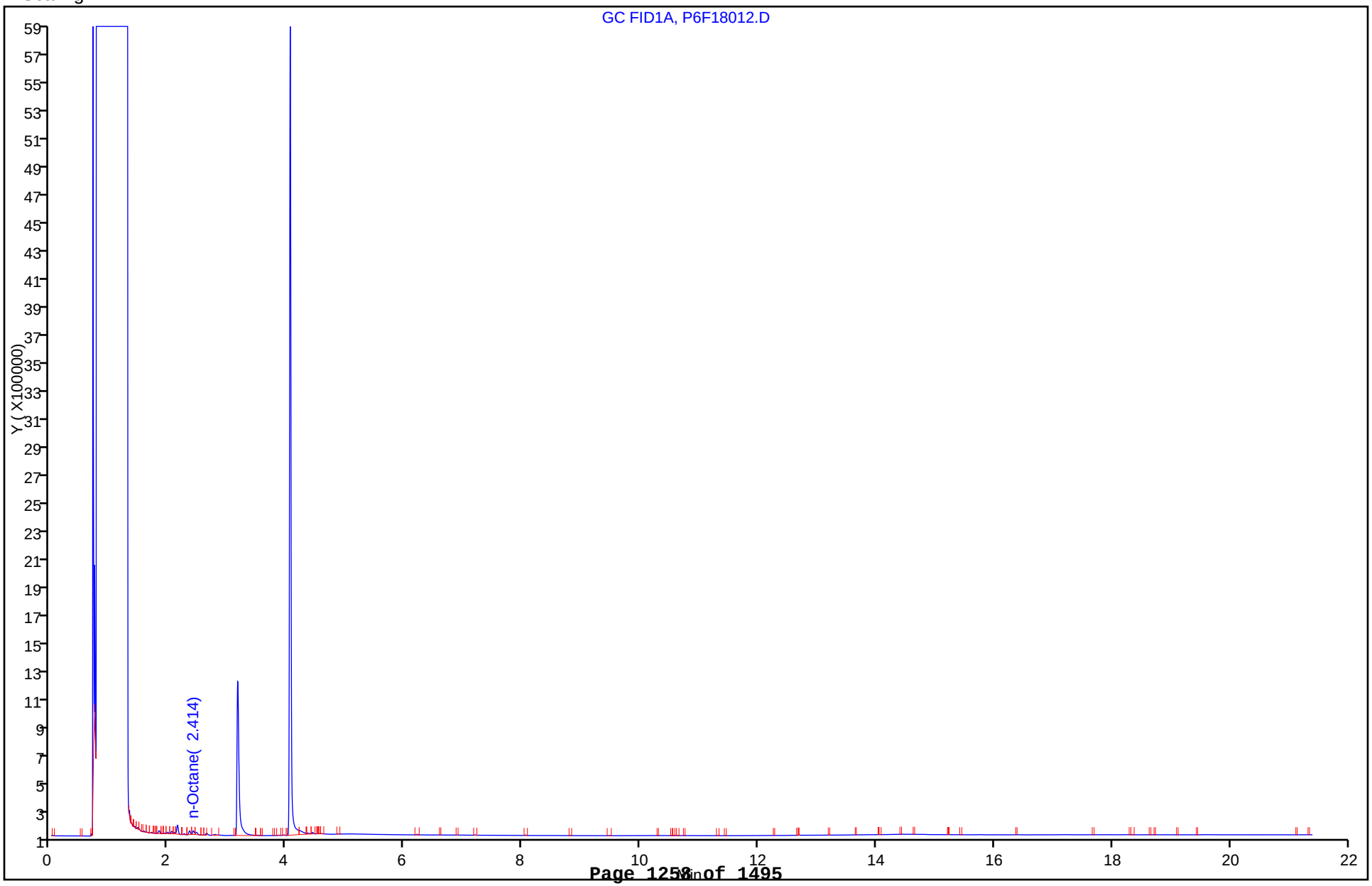
Report Date: 19-Apr-2013 11:26:45 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18012.D

Injection Date:	18-Apr-2013 20:41:50	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP6F
Lims Batch ID:	82537	Lims Sample ID:	12
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-82081/24-A

Matrix: Solid Lab File ID: P5F17016.D

Analysis Method: 8015B_DRO/DOD Date Collected:

Extraction Method: 3540C Date Extracted: 04/16/2013 09:42

Sample wt/vol: 30.00(g) Date Analyzed: 04/17/2013 21:26

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 82317 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	58		10-110

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17016.D		
Lims ID:	LCS 240-82081/24-A	Client ID:	
Inject. Date:	17-Apr-2013 21:26:30	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	240-0018961-016		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP5F
Injection Vol:	1.0 ul	ALS Bottle#:	16
Lims Batch ID:	82317	Lims Sample ID:	16
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP5F\20130417-18961.b\TPH5F.m		
Last Update:	18-Apr-2013 11:06:17	Calib Date:	05-Mar-2013 14:42:58
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK028		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.373	4.383	-0.010	11803405	57.5	
A 15 Diesel					
9.476	5.323 - 13.629		77225063	403.8	

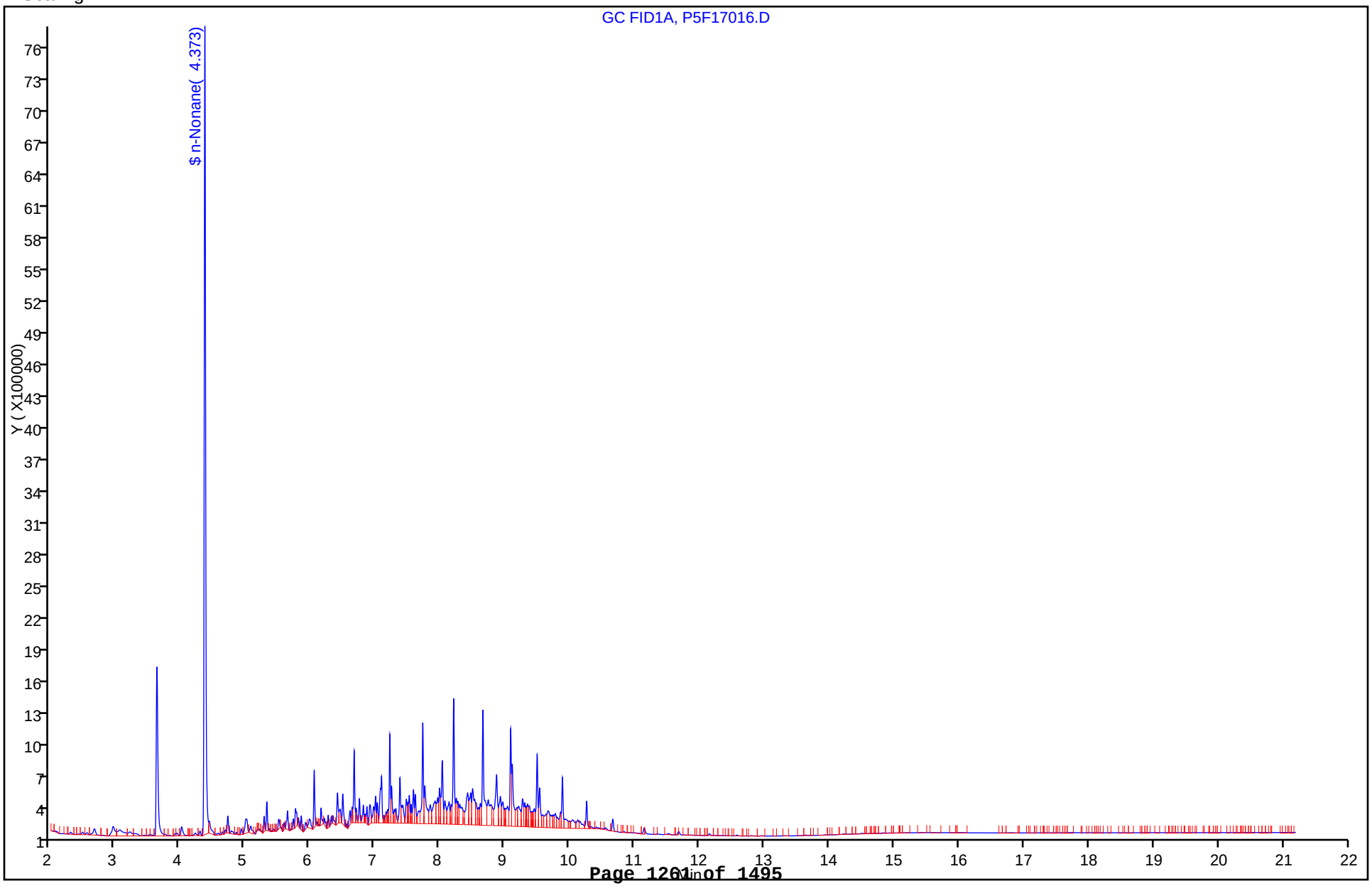
Report Date: 18-Apr-2013 11:06:21 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17016.D

Injection Date:	17-Apr-2013 21:26:30	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5F
Lims Batch ID:	82317	Lims Sample ID:	16
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-82097/24-A

Matrix: Solid Lab File ID: P6F18013.D

Analysis Method: 8015B_DRO/DOD Date Collected:

Extraction Method: 3540C Date Extracted: 04/16/2013 10:04

Sample wt/vol: 30.00(g) Date Analyzed: 04/18/2013 21:13

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 82537 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	48		10-110

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18013.D		
Lims ID:	LCS 240-82097/24-A	Client ID:	
Inject. Date:	18-Apr-2013 21:13:16	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	240-0019017-013		
Misc. Info.:			
Operator:	400725	Instrument ID:	A2HP6F
Injection Vol:	1.0 ul	ALS Bottle#:	13
Lims Batch ID:	82537	Lims Sample ID:	13
Detector:	GC FID1A		
Method:	\\Ncchrom\ChromData\A2HP6F\20130418-19017.b\TPH6F.m		
Last Update:	19-Apr-2013 11:26:41	Calib Date:	17-Apr-2013 20:46:28
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
4.058	4.065	-0.007	9081006	47.7	
A 15 Diesel					
9.312	5.098 - 13.526		66904395	356.1	

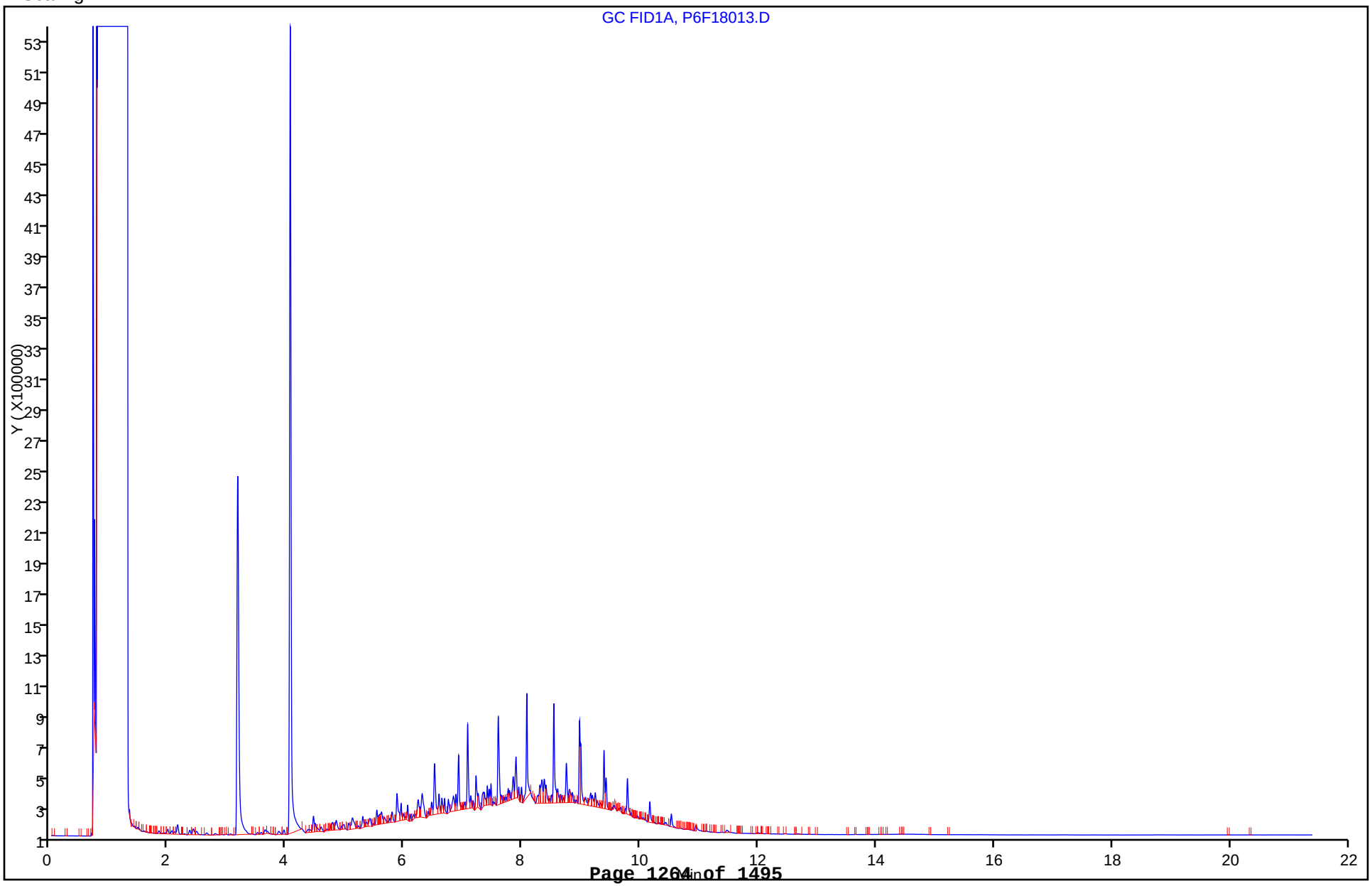
Report Date: 19-Apr-2013 11:26:45 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18013.D

Injection Date:	18-Apr-2013 21:13:16	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP6F
Lims Batch ID:	82537	Lims Sample ID:	13
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-82317/14

Matrix: Solid Lab File ID: P5F17014.D

Analysis Method: 8015B_DRO/DOD Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/17/2013 20:25

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 82317 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	83.4	J	100	56	56
STL00272	C20-C34	56	U	100	56	56

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	110		70-130

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17014.D
Lims ID: MRL Client ID:
Inject. Date: 17-Apr-2013 20:25:50 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018961-014
Misc. Info.:
Operator: 400725 Instrument ID: A2HP5F
Injection Vol: 1.0 ul ALS Bottle#: 14
Lims Batch ID: 82317 Lims Sample ID: 14
Detector: GC FID1A

Method: \\Ncchrom\ChromData\A2HP5F\20130417-18961.b\TPH5F.m
Last Update: 18-Apr-2013 11:06:17 Calib Date: 05-Mar-2013 14:42:58
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01008.D
Limit Group: GC 8015C TPH ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK028

	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
1	Tetratetracontane					1
	23.885					
A 2	C28-C36					
	15.218	13.694 -	16.742	4723543	0	
A 3	C10-C34					
	10.464	5.323 -	15.605	23218347	121.4	
A 4	C32-C44					1
	0.0 -		0.100			
A 5	C12-C22					
	8.905	6.669 -	11.142	14347830	75.0	
A 6	C22-C32					
	11.142 -		14.824			
7	n-Octane					
	2.985	2.967	0.018	14962	0	
$ 8	n-Nonane					
	4.383	4.383	0.000	2259708	11.0	
9	n-Decane					
	5.332	5.323	0.009	137616	0	
10	Dodecane					
	6.676	6.669	0.007	466451	0	
11	n-Tetradecane					
	7.733	7.728	0.005	404247	0	
A 12	C10-C20					
	7.773	5.323 -	10.225	15939621	83.4	
13	Hexadecane					
	8.661	8.655	0.006	438605	0	
A 14	C10-C28					
	9.481	5.169 -	13.794	19944071	0	

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A 15 Diesel					
9.476	5.323 - 13.629		19623798	102.6	
16 n-Octadecane					
9.497	9.492	0.005	224824	0	
A 17 C10-C32					
10.073	5.323 - 14.824		21260038	111.2	
18 icosane					
10.262	10.256	0.006	103103	0	
19 n-Docosane					
11.151	11.142	0.009	21408	0	
A 20 C12-C24					
	3.039 - 6.058				
21 n-Tetracosane					
12.162	12.148	0.014	7151	0	
A 22 C20-C34					
	10.256 - 15.605				
23 n-Hexacosane					
12.964	12.955	0.009	381	0	
24 n-Octacosane					
13.630	13.629	0.001	551	0	
25 Triacontane					1
	14.217				
26 Dotriacontane					
14.850	14.824	0.026	77151	0	
27 Tetratriacontane					
15.622	15.605	0.017	76691	0	
A 28 C24-C40					
16.313	12.148 - 20.478		15009333	78.5	
29 n-Hexatriacontane					1
	16.684				
30 C38					
18.212	18.220	-0.008	35744	0	
31 C40					
20.483	20.478	0.005	11681	0	
A 32 C20-C36					
13.470	10.256 - 16.684		7201427	37.7	
A 34 C24-C44					
18.017	12.148 - 23.885		16752013	87.6	
A 35 C10-C24					
8.735	5.323 - 12.148		19413575	101.5	

QC Flag Legend

Processing Flags
1 - Missing Peaks

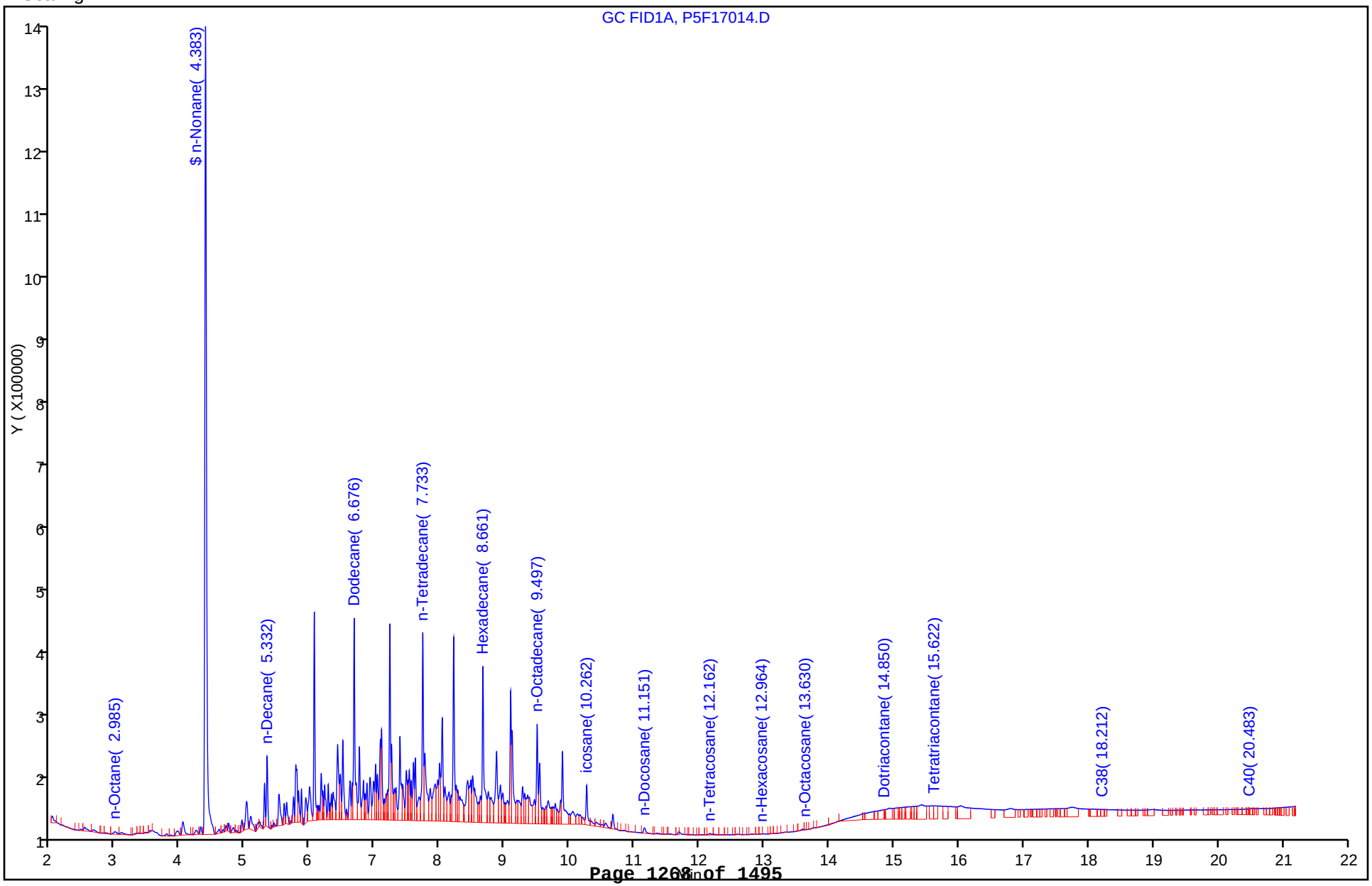
Report Date: 18-Apr-2013 11:06:18 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17014.D

Injection Date:	17-Apr-2013 20:25:50	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5F
Lims Batch ID:	82317	Lims Sample ID:	14
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-82317/42

Matrix: Solid Lab File ID: P5F17042.D

Analysis Method: 8015B_DRO/DOD Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/18/2013 10:37

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 82317 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	76.5	J	100	56	56
STL00272	C20-C34	56	U	100	56	56

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	103		70-130

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17042.D
Lims ID: MRL Client ID:
Inject. Date: 18-Apr-2013 10:37:58 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018961-042
Misc. Info.:
Operator: 400725 Instrument ID: A2HP5F
Injection Vol: 1.0 ul ALS Bottle#: 42
Lims Batch ID: 82317 Lims Sample ID: 42
Detector: GC FID1A

Method: \\Ncchrom\ChromData\A2HP5F\20130417-18961.b\TPH5F.m
Last Update: 18-Apr-2013 11:06:37 Calib Date: 05-Mar-2013 14:42:58
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01008.D
Limit Group: GC 8015C TPH ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK028

	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
1	Tetratetracontane					1
	23.885					
A	2 C28-C36					
	15.218	13.694	-16.742	2494075	0	
A	3 C10-C34					
	10.464	5.323	- 15.605	21029455	110.0	
A	4 C32-C44					1
		0.0	- 0.100			
A	5 C12-C22					
	8.905	6.669	- 11.142	13304119	69.6	
A	6 C22-C32					
		11.142	-14.824			
7	n-Octane					
	3.010	2.967	0.043	10872	0	
$	8 n-Nonane					
	4.398	4.383	0.015	2104448	10.3	
9	n-Decane					
	5.305	5.323	-0.018	73103	0	
10	Dodecane					
	6.655	6.669	-0.014	52306	0	
11	n-Tetradecane					
	7.742	7.728	0.014	363073	0	
A	12 C10-C20					
	7.774	5.323	- 10.225	14622588	76.5	
13	Hexadecane					
	8.669	8.655	0.014	387552	0	
A	14 C10-C28					
	9.481	5.169	- 13.794	19669879	0	

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A 15 Diesel					
9.476	5.323 - 13.629		19402336	101.5	
16 n-Octadecane					
9.505	9.492	0.013	208147	0	
A 17 C10-C32					
10.073	5.323 - 14.824		20144857	105.3	
18 icosane					
10.269	10.256	0.013	107092	0	
19 n-Docosane					
11.162	11.142	0.020	22988	0	
A 20 C12-C24					
	3.039 - 6.058				
21 n-Tetracosane					
12.165	12.148	0.017	7726	0	
A 22 C20-C34					
	10.256 - 15.605				
23 n-Hexacosane					
12.975	12.955	0.020	1970	0	
24 n-Octacosane					
13.642	13.629	0.013	660	0	
25 Triacontane					
14.204	14.217	-0.013	1525	0	
26 Dotriacontane					
14.789	14.824	-0.035	1482	0	
27 Tetratriacontane					1
	15.605				
A 28 C24-C40					
16.313	12.148 - 20.478		8557489	44.8	
29 n-Hexatriacontane					
16.703	16.684	0.019	12305	0	
30 C38					
18.251	18.220	0.031	22773	0	
31 C40					
20.499	20.478	0.021	21754	0	
A 32 C20-C36					
	10.256 - 16.684				
A 34 C24-C44					
18.017	12.148 - 23.885		9616355	50.3	
A 35 C10-C24					
8.735	5.323 - 12.148		18755837	98.1	

QC Flag Legend

Processing Flags
1 - Missing Peaks

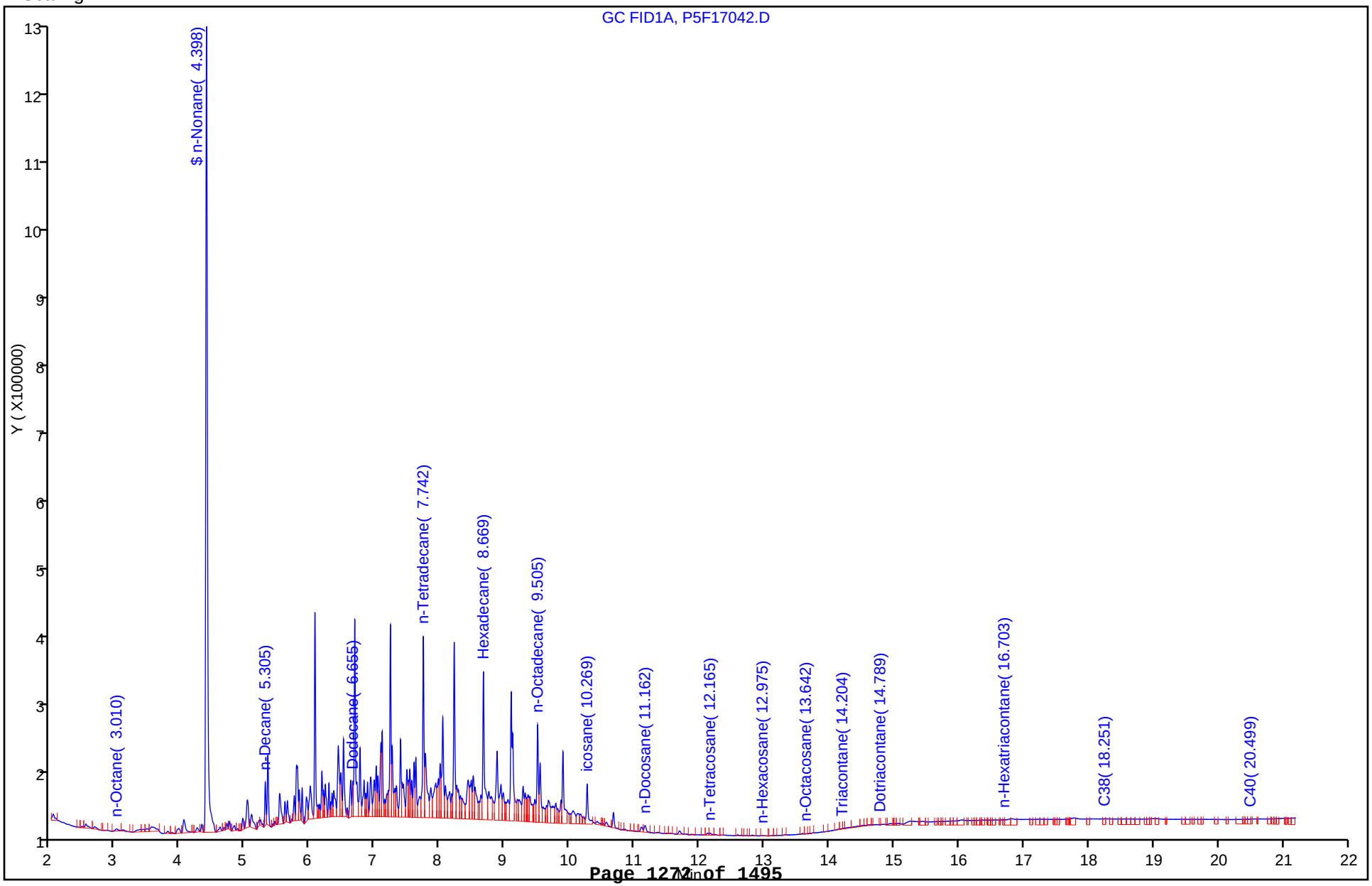
Report Date: 18-Apr-2013 11:06:37 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17042.D

Injection Date:	18-Apr-2013 10:37:58	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5F
Lims Batch ID:	82317	Lims Sample ID:	42
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-82531/19

Matrix: Solid Lab File ID: P5F18019.D

Analysis Method: 8015B_DRO/DOD Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/19/2013 00:06

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 82531 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	82.8	J	100	56	56
STL00272	C20-C34	56	U	100	56	56

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	112	Q	70-130

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP5F\20130418-19013.b\P5F18019.D
Lims ID: MRL Client ID:
Inject. Date: 19-Apr-2013 00:06:42 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019013-019
Misc. Info.:
Operator: 400725 Instrument ID: A2HP5F
Injection Vol: 1.0 ul ALS Bottle#: 19
Lims Batch ID: 82531 Lims Sample ID: 19
Detector: GC FID1A

Method: \\Ncchrom\ChromData\A2HP5F\20130418-19013.b\TPH5F.m
Last Update: 19-Apr-2013 11:40:12 Calib Date: 18-Apr-2013 18:28:53
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP5F\20130418-19013.b\P5F18008.D
Limit Group: GC 8015C TPH ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK031

	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
1	Tetratetracontane					1
	23.885					
A	2 C28-C36					
	15.365	13.788 -	16.941	3591580	0	
A	3 C10-C34					
	10.495	5.355 -	15.635	22837992	119.4	
A	4 C32-C44					1
		0.0 -	0.100			
A	5 C12-C22					
	8.931	6.693 -	11.170	13913980	72.8	
A	6 C22-C32					
		11.170 -	14.845			
7	n-Octane					
	3.054	3.044	0.010	5191	0	
$	8 n-Nonane					
	4.414	4.383	0.031	2302054	11.2	
9	n-Decane					
	5.355	5.355	0.000	130687	0	
10	Dodecane					
	6.693	6.693	0.000	456731	0	
11	n-Tetradecane					
	7.749	7.749	0.000	382255	0	
A	12 C10-C20					
	7.792	5.355 -	10.274	15841420	82.8	
13	Hexadecane					
	8.675	8.675	0.000	394284	0	
A	14 C10-C28					
	9.545	5.202 -	13.888	19849515	0	

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A 15 Diesel					
9.502	5.355 - 13.648		19382722	101.4	
16 n-Octadecane					
9.512	9.511	0.001	197859	0	
A 17 C10-C32					
10.100	5.355 - 14.845		21160282	110.7	
18 icosane					
10.275	10.274	0.001	98345	0	
19 n-Docosane					
11.171	11.170	0.001	19419	0	
A 20 C12-C24					
	3.039 - 6.058				
21 n-Tetracosane					
12.179	12.170	0.009	9457	0	
A 22 C20-C34					
	10.274 - 15.635				
23 n-Hexacosane					1
	12.975				
24 n-Octacosane					
13.609	13.648	-0.039	632	0	
25 Triacontane					1
	14.233				
26 Dotriacontane					
14.869	14.845	0.024	54835	0	
27 Tetratriacontane					
15.631	15.635	-0.004	22264	0	
A 28 C24-C40					
16.352	12.170 - 20.535		14446123	75.5	
29 n-Hexatriacontane					
16.720	16.726	-0.006	34202	0	
30 C38					
18.269	18.280	-0.011	51116	0	
31 C40					
20.526	20.535	-0.009	36529	0	
A 32 C20-C36					
13.500	10.274 - 16.726		6949511	36.3	
A 34 C24-C44					
18.027	12.170 - 23.885		15898158	83.1	
A 35 C10-C24					
8.762	5.355 - 12.170		19010513	99.4	

QC Flag Legend

Processing Flags
1 - Missing Peaks

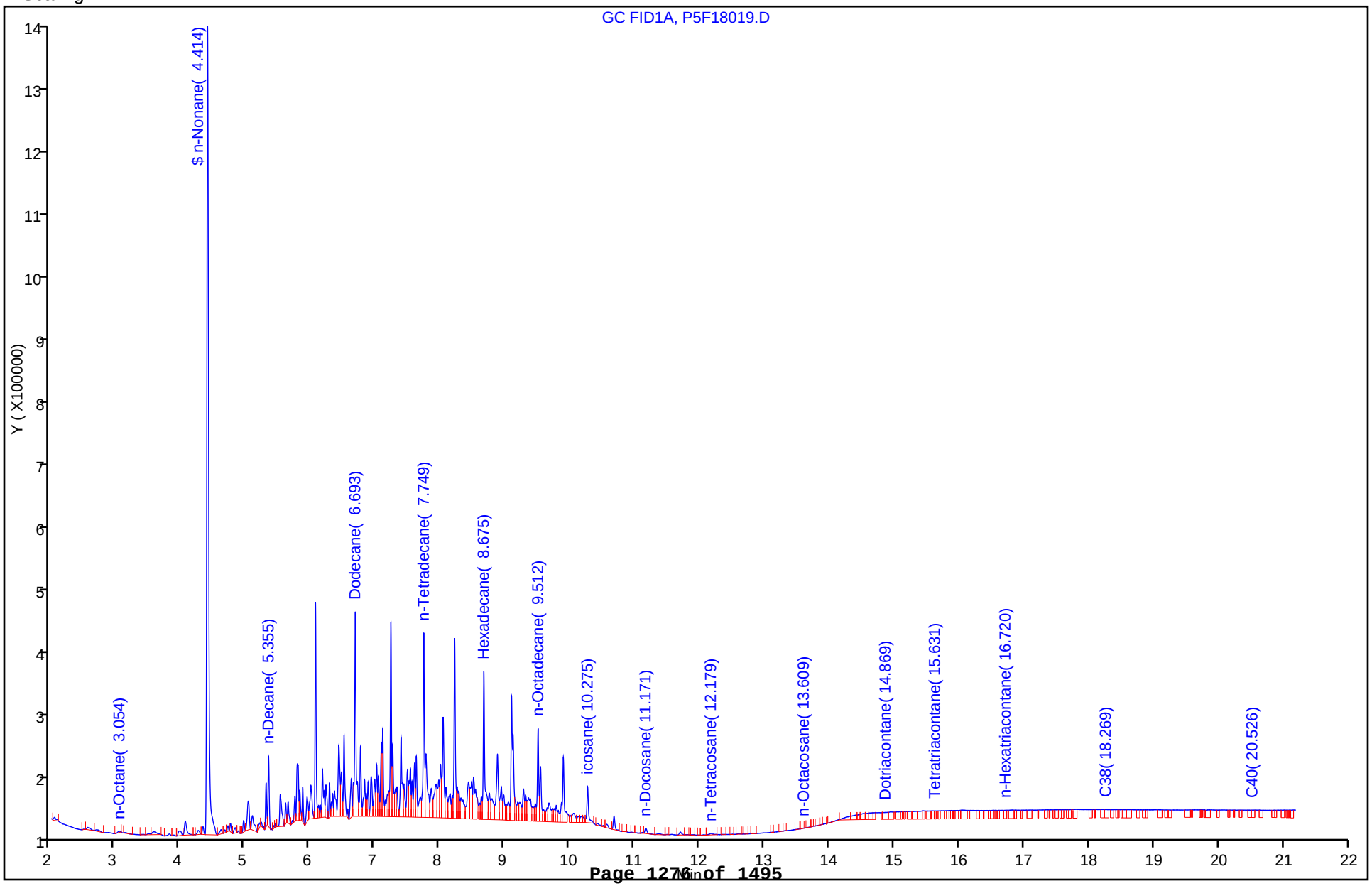
Report Date: 19-Apr-2013 11:40:13 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130418-19013.b\P5F18019.D

Injection Date:	19-Apr-2013 00:06:42	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5F
Lims Batch ID:	82531	Lims Sample ID:	19
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-82531/47

Matrix: Solid Lab File ID: P5F18047.D

Analysis Method: 8015B_DRO/DOD Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/19/2013 14:21

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 82531 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	86.7	J	100	56	56
STL00272	C20-C34	56	U	100	56	56

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	117	Q	70-130

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP5F\20130418-19013.b\P5F18047.D
Lims ID: MRL Client ID:
Inject. Date: 19-Apr-2013 14:21:03 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019013-047
Misc. Info.:
Operator: 400725 Instrument ID: A2HP5F
Injection Vol: 1.0 ul ALS Bottle#: 47
Lims Batch ID: 82531 Lims Sample ID: 47
Detector: GC FID1A

Method: \\Ncchrom\ChromData\A2HP5F\20130418-19013.b\TPH5F.m
Last Update: 19-Apr-2013 15:27:45 Calib Date: 18-Apr-2013 18:28:53
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP5F\20130418-19013.b\P5F18008.D
Limit Group: GC 8015C TPH ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK031

	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
1	Tetratetracontane					1
	23.885					
A	2 C28-C36					
	15.365	13.788 -	16.941	2911992	0	
A	3 C10-C34					
	10.495	5.355 -	15.635	23086318	120.7	
A	4 C32-C44					1
		0.0 -	0.100			
A	5 C12-C22					
	8.931	6.693 -	11.170	14709863	76.9	
A	6 C22-C32					
		11.170 -	14.845			
7	n-Octane					
	3.049	3.044	0.005	18952	0	
$	8 n-Nonane					
	4.413	4.383	0.030	2400303	11.7	
9	n-Decane					
	5.354	5.355	-0.001	140440	0	
10	Dodecane					
	6.693	6.693	0.000	497261	0	
11	n-Tetradecane					
	7.749	7.749	0.000	421613	0	
A	12 C10-C20					
	7.795	5.355 -	10.234	16589029	86.7	
13	Hexadecane					
	8.677	8.675	0.002	437121	0	
A	14 C10-C28					
	9.545	5.202 -	13.888	21351017	0	

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A 15 Diesel					
9.502	5.355 - 13.648		20945456	109.5	
16 n-Octadecane					
9.512	9.511	0.001	221223	0	
A 17 C10-C32					
10.100	5.355 - 14.845		21966994	114.9	
18 icosane					
10.277	10.274	0.003	95370	0	
19 n-Docosane					
11.172	11.170	0.002	23897	0	
A 20 C12-C24					
	3.039 - 6.058				
21 n-Tetracosane					
12.173	12.170	0.003	7995	0	
A 22 C20-C34					
	10.274 - 15.635				
23 n-Hexacosane					1
	12.975				
24 n-Octacosane					1
	13.648				
25 Triacontane					1
	14.233				
26 Dotriacontane					
14.840	14.845	-0.005	10765	0	
27 Tetratriacontane					
15.647	15.635	0.012	20519	0	
A 28 C24-C40					
16.352	12.170 - 20.535		10002506	52.3	
29 n-Hexatriacontane					
16.714	16.726	-0.012	18004	0	
30 C38					
18.265	18.280	-0.015	10594	0	
31 C40					
20.517	20.535	-0.018	21936	0	
A 32 C20-C36					
	10.274 - 16.726				
A 34 C24-C44					
18.027	12.170 - 23.885		11031879	57.7	
A 35 C10-C24					
8.762	5.355 - 12.170		20660859	108.0	

QC Flag Legend

Processing Flags
1 - Missing Peaks

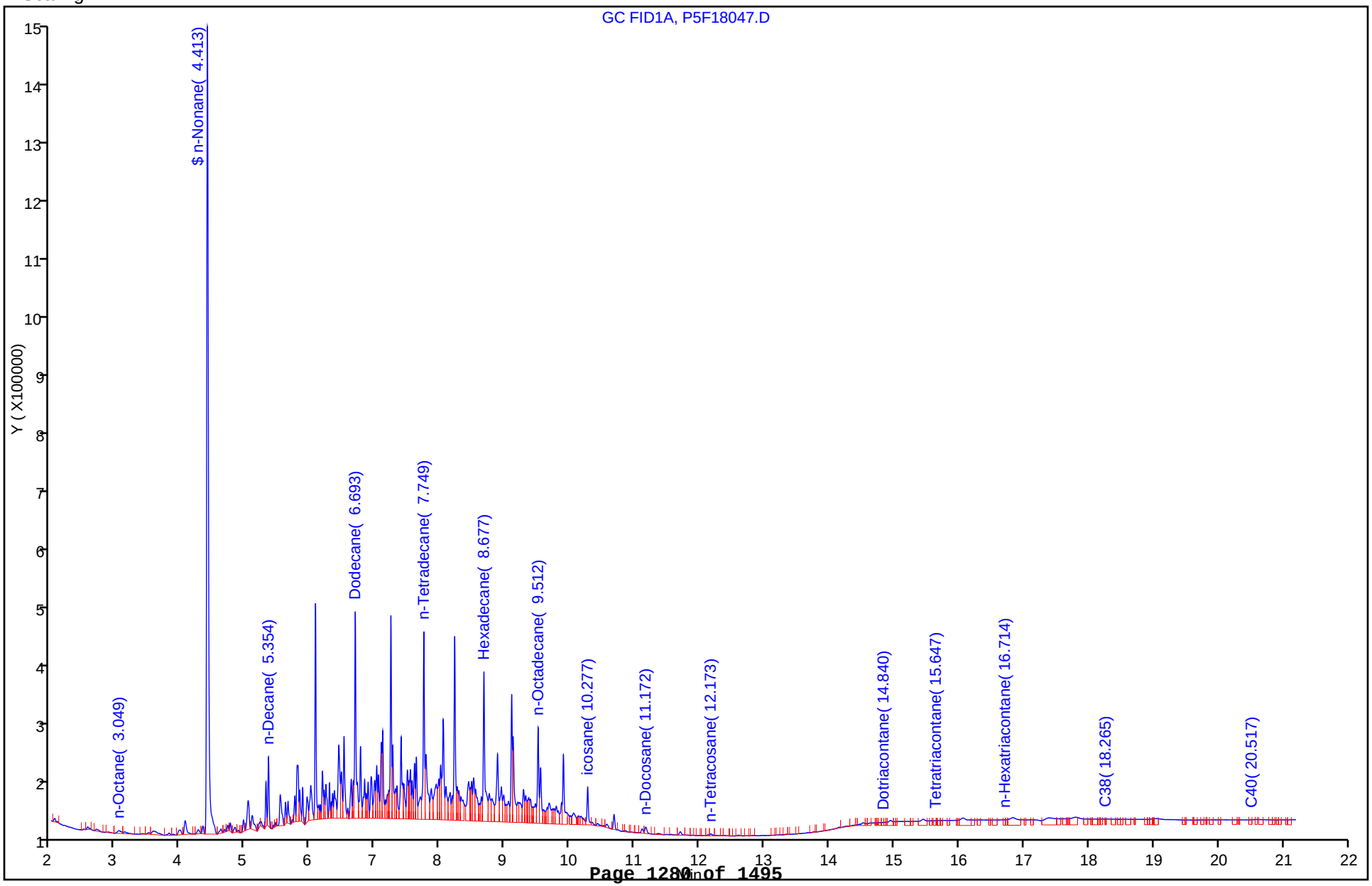
Report Date: 19-Apr-2013 15:27:46 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130418-19013.b\P5F18047.D

Injection Date:	19-Apr-2013 14:21:03	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5F
Lims Batch ID:	82531	Lims Sample ID:	47
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-82537/6

Matrix: Solid Lab File ID: P6F18006.D

Analysis Method: 8015B_DRO/DOD Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/18/2013 17:32

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 82537 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	63.3	J	100	56	56
STL00272	C20-C34	56	U	100	56	56

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	90		70-130

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18006.D
Lims ID: MRL Client ID:
Inject. Date: 18-Apr-2013 17:32:00 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019017-006
Misc. Info.:
Operator: 400725 Instrument ID: A2HP6F
Injection Vol: 1.0 ul ALS Bottle#: 6
Lims Batch ID: 82537 Lims Sample ID: 6
Detector: GC FID1A

Method: \\Ncchrom\ChromData\A2HP6F\20130418-19017.b\TPH6F.m
Last Update: 19-Apr-2013 11:26:41 Calib Date: 17-Apr-2013 20:46:28
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D
Limit Group: GC 8015C TPH ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK031

	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
	1 Tetratetracontane					1
		26.357				
A	2 C28-C36					
	15.076	13.664	-16.488	249673	0	
A	3 C10-C34					
	10.232	5.098	- 15.366	19992237	106.4	
A	4 C32-C44					
		14.684	-26.357			
A	5 C12-C22					
	8.715	6.497	- 10.932	12666420	67.4	
A	6 C22-C32					
		10.932	-14.684			
	7 n-Octane					
	2.413	2.413	0.000	1282	0	
$	8 n-Nonane					
	4.069	4.065	0.004	1713317	9.00	
	9 n-Decane					
	5.093	5.098	-0.005	3202	0	
	10 Dodecane					
	6.531	6.497	0.034	135930	0	
	11 n-Tetradecane					
	7.608	7.584	0.024	270330	0	
A	12 C10-C20					
	7.626	5.098	- 10.153	11900688	63.3	
	13 Hexadecane					
	8.546	8.529	0.017	132199	0	
A	14 C10-C28					
	9.364	5.064	- 13.664	19252204	0	

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A 15 Diesel					
9.312	5.098 - 13.526		19206227	102.2	
16 n-Octadecane					
9.355	9.379	-0.024	661	0	
A 17 C10-C32					
9.891	5.098 - 14.684		19268067	102.6	
18 icosane					
10.139	10.153	-0.014	371	0	
19 n-Docosane					1
	10.932				
A 20 C12-C24					
9.232	6.497 - 11.967		14266488	75.9	
21 n-Tetracosane					1
	11.967				
A 22 C20-C34					
	10.153 -15.366				
23 n-Hexacosane					1
	12.824				
24 n-Octacosane					1
	13.526				
25 Triacontane					1
	14.128				
26 Dotriacontane					1
	14.684				
27 Tetratriacontane					1
	15.366				
A 28 C24-C40					
	11.967 -19.526				
29 n-Hexatriacontane					1
	16.295				
30 C38					1
	17.616				
31 C40					
19.496	19.526	-0.030	391	0	
A 32 C20-C36					
	10.153 -16.295				
A 33 C24-C44					
	11.967 -26.357				
A 34 C10-C24					
8.533	5.098 - 11.967		18160191	96.7	
$ 35 o-Terphenyl					
0.037	0.0	0.037	6144	0	

QC Flag Legend

Processing Flags
1 - Missing Peaks

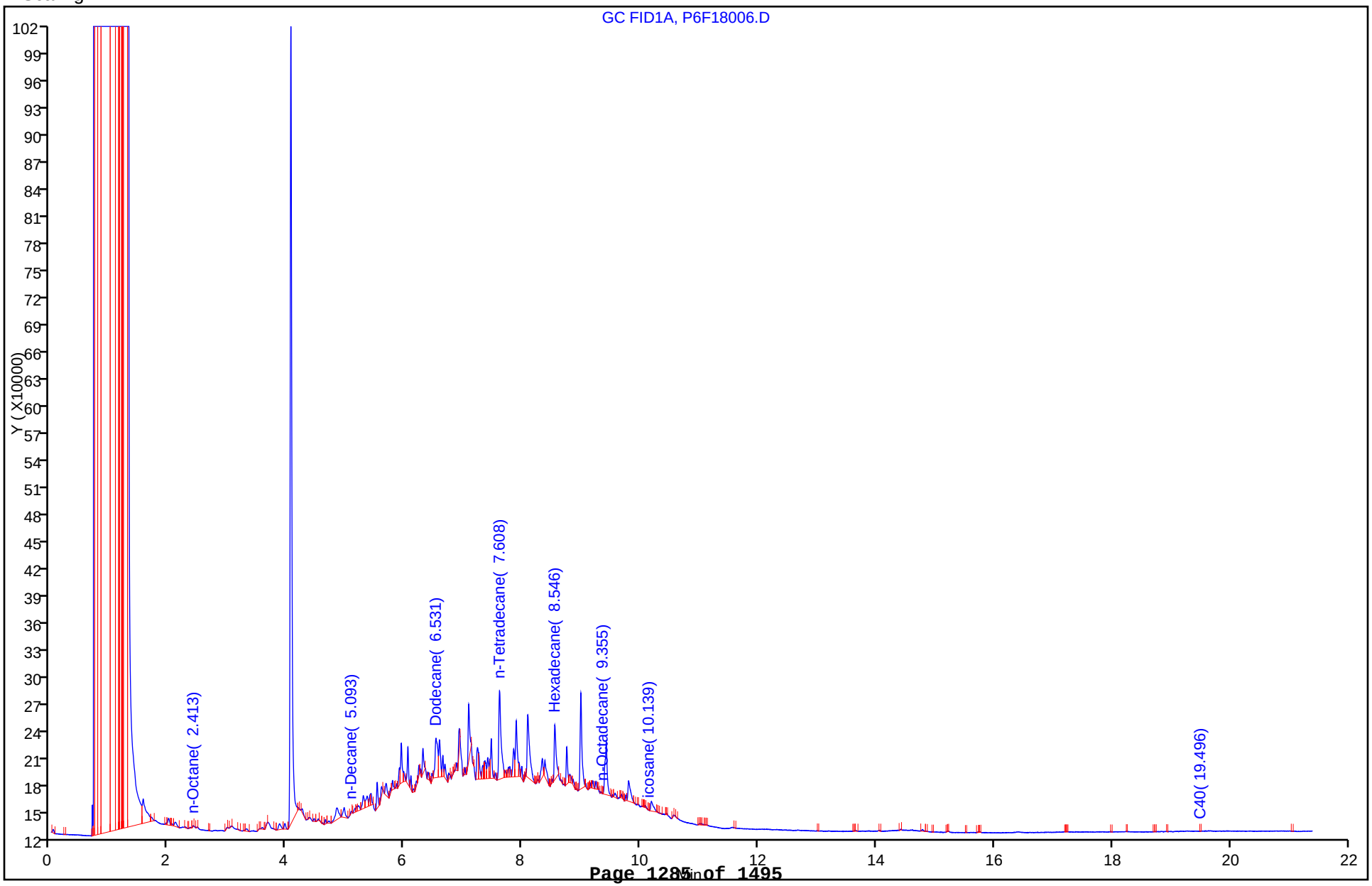
Report Date: 19-Apr-2013 11:26:42 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18006.D

Injection Date:	18-Apr-2013 17:32:00	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP6F
Lims Batch ID:	82537	Lims Sample ID:	6
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-82537/39

Matrix: Solid | Lab File ID: P6F18039.D

Analysis Method: 8015B_DRO/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/19/2013 10:49

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82537 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	69.7	J	100	56	56
STL00272	C20-C34	56	U	100	56	56

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	105		70-130

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18039.D
Lims ID: MRL Client ID:
Inject. Date: 19-Apr-2013 10:49:12 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019017-039
Misc. Info.:
Operator: 400725 Instrument ID: A2HP6F
Injection Vol: 1.0 ul ALS Bottle#: 39
Lims Batch ID: 82537 Lims Sample ID: 39
Detector: GC FID1A

Method: \\Ncchrom\ChromData\A2HP6F\20130418-19017.b\TPH6F.m
Last Update: 19-Apr-2013 11:27:10 Calib Date: 17-Apr-2013 20:46:28
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D
Limit Group: GC 8015C TPH ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK031

	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
	1 Tetratetracontane					1
		26.357				
A	2 C28-C36					
	15.076	13.664	-16.488	2198785	0	
A	3 C10-C34					
	10.232	5.098	- 15.366	19863398	105.7	
A	4 C32-C44					
		14.684	-26.357			
A	5 C12-C22					
	8.715	6.497	- 10.932	12488977	66.5	
A	6 C22-C32					
		10.932	-14.684			
	7 n-Octane					
	2.417	2.413	0.004	7434	0	
$	8 n-Nonane					
	4.067	4.065	0.002	2006744	10.5	
	9 n-Decane					
	5.107	5.098	0.009	50557	0	
	10 Dodecane					
	6.505	6.497	0.008	199937	0	
	11 n-Tetradecane					
	7.589	7.584	0.005	318002	0	
A	12 C10-C20					
	7.605	5.098	- 10.153	13096366	69.7	
	13 Hexadecane					
	8.533	8.529	0.004	191112	0	
A	14 C10-C28					
	9.364	5.064	- 13.664	18502130	0	

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A 15 Diesel					
9.312	5.098 - 13.526		18431754	98.1	
16 n-Octadecane					
9.383	9.379	0.004	105420	0	
A 17 C10-C32					
9.891	5.098 - 14.684		19079890	101.6	
18 icosane					
10.159	10.153	0.006	52246	0	
19 n-Docosane					
10.941	10.932	0.009	18113	0	
A 20 C12-C24					
9.232	6.497 - 11.967		14325853	76.3	
21 n-Tetracosane					
11.973	11.967	0.006	498	0	
A 22 C20-C34					
	10.153 - 15.366				
23 n-Hexacosane					
12.830	12.824	0.006	513	0	
24 n-Octacosane					1
	13.526				
25 Triacontane					1
	14.128				
26 Dotriacontane					1
	14.684				
27 Tetratriacontane					1
	15.366				
A 28 C24-C40					
15.746	11.967 - 19.526		6833046	36.4	
29 n-Hexatriacontane					1
	16.295				
30 C38					1
	17.616				
31 C40					1
	19.526				
A 32 C20-C36					
	10.153 - 16.295				
A 33 C24-C44					
19.162	11.967 - 26.357		9153485	48.7	
A 34 C10-C24					
8.533	5.098 - 11.967		18219617	97.0	
$ 35 o-Terphenyl					
0.035	0.0	0.035	6274	0	

QC Flag Legend

Processing Flags
1 - Missing Peaks

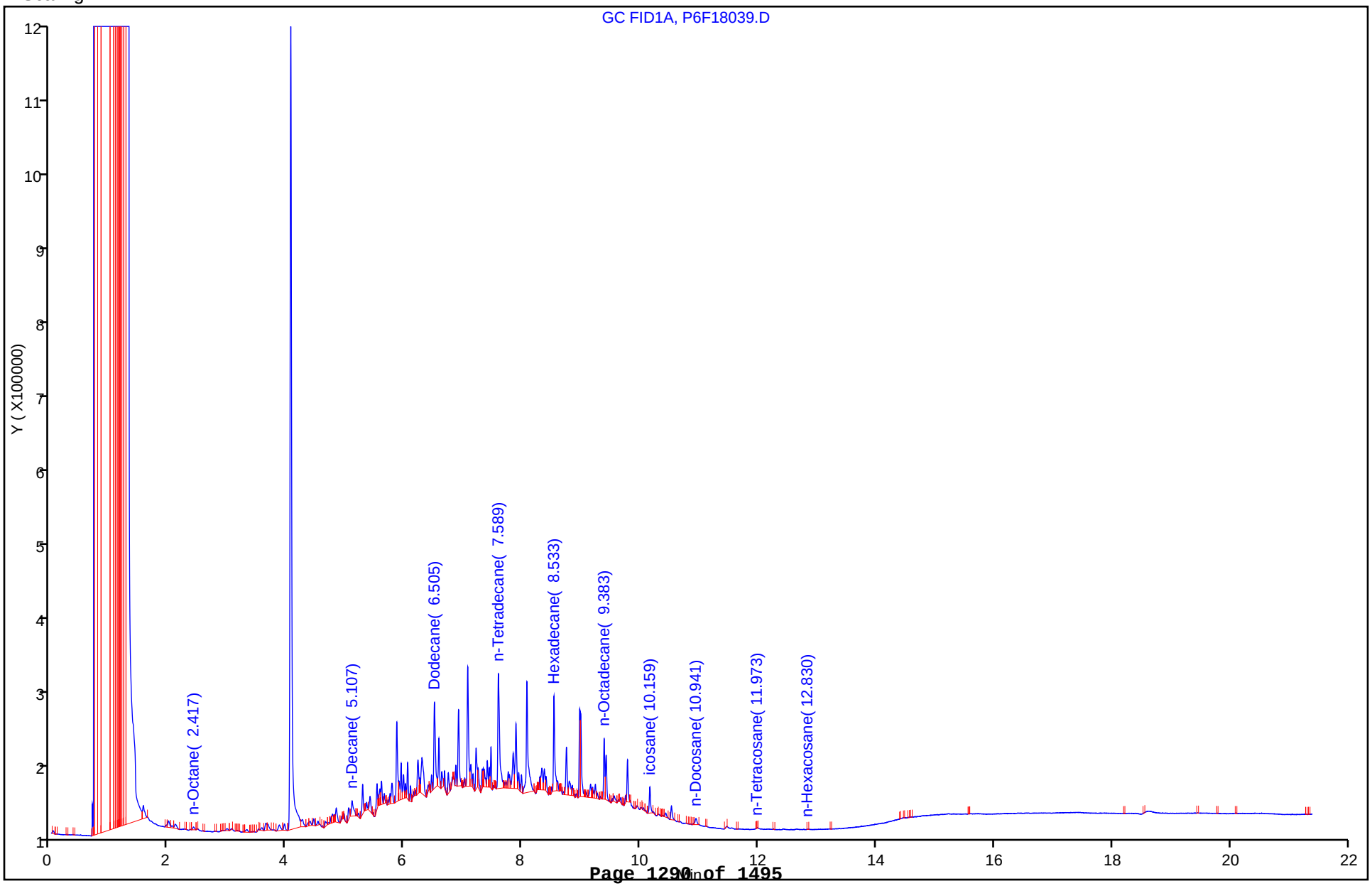
Report Date: 19-Apr-2013 11:27:11 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130418-19017.b\P6F18039.D

Injection Date:	19-Apr-2013 10:49:12	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP6F
Lims Batch ID:	82537	Lims Sample ID:	39
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-82770/6

Matrix: Solid | Lab File ID: P6F19006.D

Analysis Method: 8015B_DRO/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/19/2013 19:27

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82770 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	64.2	J	100	56	56
STL00272	C20-C34	56	U	100	56	56

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	99		70-130

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP6F\20130419-19075.b\P6F19006.D
Lims ID: MRL Client ID:
Inject. Date: 19-Apr-2013 19:27:59 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019075-006
Misc. Info.:
Operator: 400725 Instrument ID: A2HP6F
Injection Vol: 1.0 ul ALS Bottle#: 6
Lims Batch ID: 82770 Lims Sample ID: 6
Detector: GC FID1A

Method: \\Ncchrom\ChromData\A2HP6F\20130419-19075.b\TPH6F.m
Last Update: 20-Apr-2013 09:06:40 Calib Date: 17-Apr-2013 20:46:28
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D
Limit Group: GC 8015C TPH ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK001

	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
	1 Tetratetracontane					1
		26.357				
A	2 C28-C36					
	15.032	13.631 -	16.434	319210	0	
A	3 C10-C34					
	10.229	5.093 -	15.364	18729182	99.7	
A	4 C32-C44					
		14.684 -	26.357			
A	5 C12-C22					
	8.713	6.494 -	10.932	12253626	65.2	
A	6 C22-C32					
		10.932 -	14.684			
	7 n-Octane					
	2.411	2.408	0.003	2084	0	
$	8 n-Nonane					
	4.062	4.060	0.002	1887195	9.91	
	9 n-Decane					
	5.112	5.093	0.019	15420	0	
	10 Dodecane					
	6.504	6.494	0.010	160997	0	
	11 n-Tetradecane					
	7.590	7.582	0.008	216141	0	
A	12 C10-C20					
	7.604	5.093 -	10.115	12057621	64.2	
	13 Hexadecane					
	8.531	8.527	0.004	173498	0	
A	14 C10-C28					
	9.343	5.055 -	13.631	18539430	0	

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A 15 Diesel					
9.309	5.093 - 13.525		18482953	98.4	
16 n-Octadecane					
9.381	9.378	0.003	93676	0	
A 17 C10-C32					
9.889	5.093 - 14.684		18630920	99.2	
18 icosane					
10.159	10.152	0.007	45811	0	
19 n-Docosane					
10.942	10.932	0.010	2953	0	
A 20 C12-C24					
9.230	6.494 - 11.967		13912126	74.1	
21 n-Tetracosane					
11.964	11.967	-0.003	449	0	
A 22 C20-C34					
	10.152 - 15.364				
23 n-Hexacosane					1
	12.823				
24 n-Octacosane					1
	13.525				
25 Triacontane					
14.136	14.127	0.009	833	0	
26 Dotriacontane					
14.691	14.684	0.007	7107	0	
27 Tetratriacontane					
15.369	15.364	0.005	1224	0	
A 28 C24-C40					
	11.967 - 19.525				
29 n-Hexatriacontane					
16.295	16.295	0.000	516	0	
30 C38					
17.612	17.617	-0.005	453	0	
31 C40					1
	19.525				
A 32 C20-C36					
	10.152 - 16.295				
A 33 C24-C44					
	11.967 - 26.357				
A 34 C10-C24					
8.530	5.093 - 11.967		17744370	94.5	
$ 35 o-Terphenyl					
0.036	0.0	0.036	5747	0	

QC Flag Legend

Processing Flags
1 - Missing Peaks

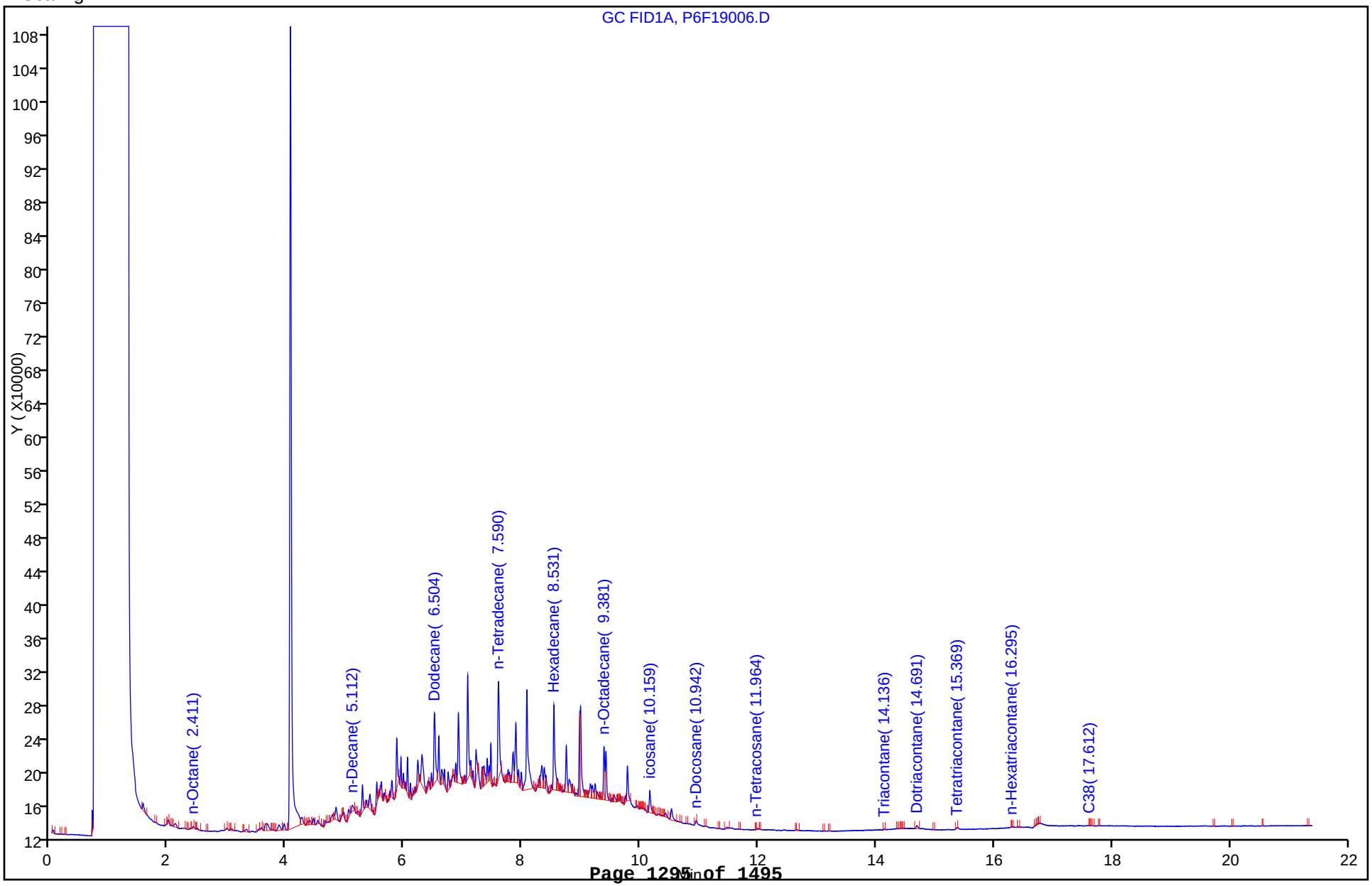
Report Date: 20-Apr-2013 09:06:40 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130419-19075.b\P6F19006.D

Injection Date:	19-Apr-2013 19:27:59	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP6F
Lims Batch ID:	82770	Lims Sample ID:	6
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-82770/26

Matrix: Solid | Lab File ID: P6F19026.D

Analysis Method: 8015B_DRO/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/20/2013 05:40

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82770 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	68.0	J	100	56	56
STL00272	C20-C34	56	U	100	56	56

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	103		70-130

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP6F\20130419-19075.b\P6F19026.D
Lims ID: MRL Client ID:
Inject. Date: 20-Apr-2013 05:40:32 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019075-026
Misc. Info.:
Operator: 400725 Instrument ID: A2HP6F
Injection Vol: 1.0 ul ALS Bottle#: 26
Lims Batch ID: 82770 Lims Sample ID: 26
Detector: GC FID1A

Method: \\Ncchrom\ChromData\A2HP6F\20130419-19075.b\TPH6F.m
Last Update: 20-Apr-2013 09:06:55 Calib Date: 17-Apr-2013 20:46:28
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP6F\20130417-18980.b\P6F17009.D
Limit Group: GC 8015C TPH ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK001

	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
	1 Tetratetracontane					1
	26.357					
A	2 C28-C36					
	15.032	13.631 -	16.434	670960	0	
A	3 C10-C34					
	10.229	5.093 -	15.364	18997973	101.1	
A	4 C32-C44					
	14.684 -	26.357				
A	5 C12-C22					
	8.713	6.494 -	10.932	12192388	64.9	
A	6 C22-C32					
	10.932 -	14.684				
	7 n-Octane					
	2.411	2.408	0.003	12637	0	
$	8 n-Nonane					
	4.061	4.060	0.001	1959400	10.3	
	9 n-Decane					
	5.106	5.093	0.013	71375	0	
	10 Dodecane					
	6.503	6.494	0.009	197690	0	
	11 n-Tetradecane					
	7.589	7.582	0.007	231995	0	
A	12 C10-C20					
	7.604	5.093 -	10.115	12777456	68.0	
	13 Hexadecane					
	8.531	8.527	0.004	187641	0	
A	14 C10-C28					
	9.343	5.055 -	13.631	18459010	0	

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A 15 Diesel					
9.309	5.093 - 13.525		18400244	97.9	
16 n-Octadecane					
9.381	9.378	0.003	102810	0	
A 17 C10-C32					
9.889	5.093 - 14.684		18736807	99.7	
18 icosane					
10.155	10.152	0.003	49950	0	
19 n-Docosane					
10.940	10.932	0.008	27720	0	
A 20 C12-C24					
9.230	6.494 - 11.967		14193686	75.6	
21 n-Tetracosane					
11.973	11.967	0.006	1073	0	
A 22 C20-C34					
	10.152 - 15.364				
23 n-Hexacosane					
12.830	12.823	0.007	602	0	
24 n-Octacosane					1
	13.525				
25 Triacontane					1
	14.127				
26 Dotriacontane					1
	14.684				
27 Tetratriacontane					
15.355	15.364	-0.009	409	0	
A 28 C24-C40					
	11.967 - 19.525				
29 n-Hexatriacontane					
16.263	16.295	-0.032	380	0	
30 C38					1
	17.617				
31 C40					
19.481	19.525	-0.044	351	0	
A 32 C20-C36					
	10.152 - 16.295				
A 33 C24-C44					
	11.967 - 26.357				
A 34 C10-C24					
8.530	5.093 - 11.967		18022914	95.9	
$ 35 o-Terphenyl					
0.038	0.0	0.038	6764	0	

QC Flag Legend

Processing Flags
1 - Missing Peaks

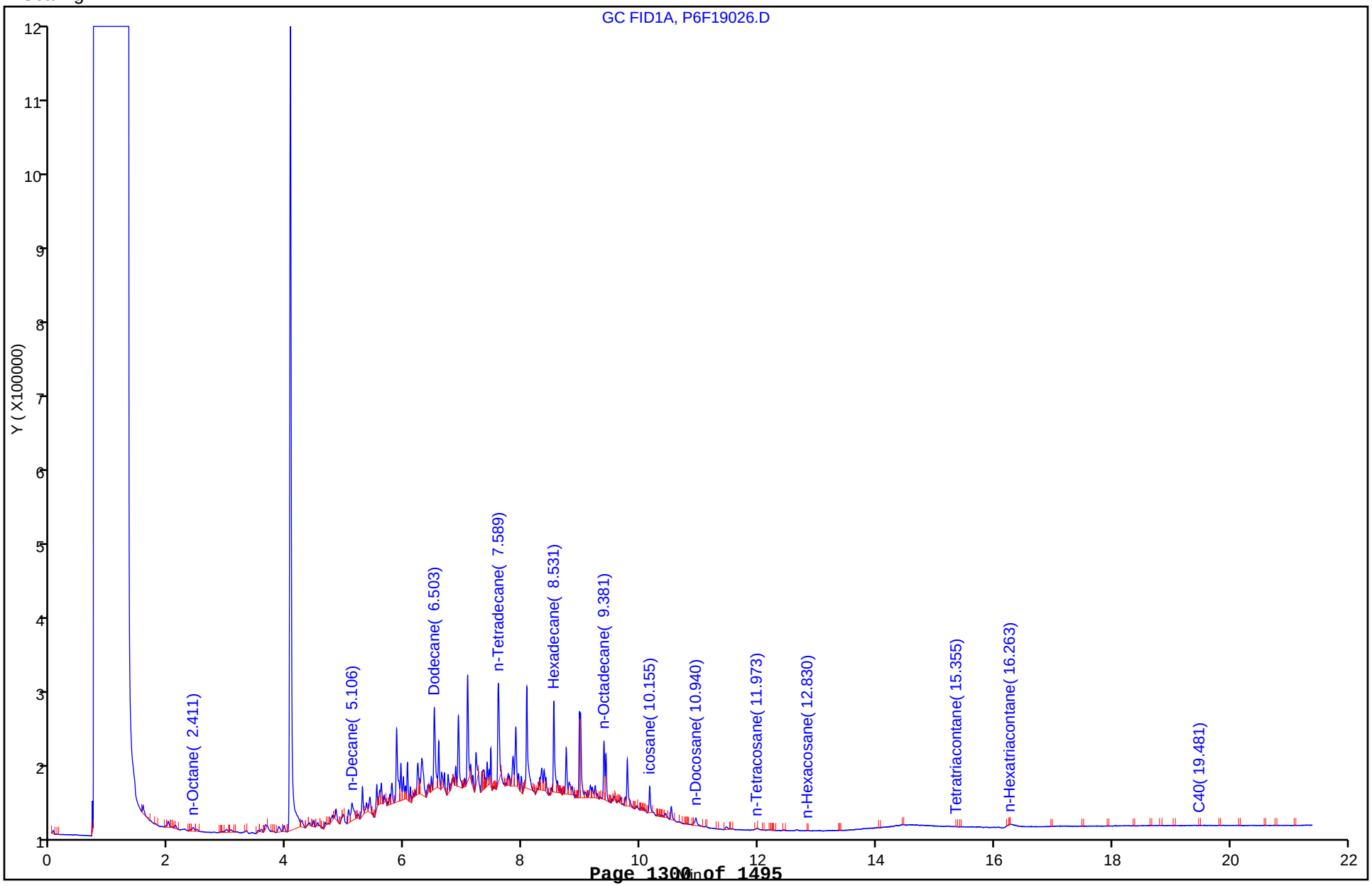
Report Date: 20-Apr-2013 09:06:55 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP6F\20130419-19075.b\P6F19026.D

Injection Date:	20-Apr-2013 05:40:32	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP6F
Lims Batch ID:	82770	Lims Sample ID:	26
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0001-0001,0002-SO Lab Sample ID: 240-22756-1 MS

Matrix: Solid Lab File ID: P5F17032.D

Analysis Method: 8015B_DRO/DOD Date Collected: 04/02/2013 08:42

Extraction Method: 3540C Date Extracted: 04/16/2013 09:42

Sample wt/vol: 29.58(g) Date Analyzed: 04/18/2013 05:35

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ID:

% Moisture: 13.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 82317 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	62.7		20	11	11
STL00272	C20-C34	11	U	20	11	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	53		10-110

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17032.D
Lims ID: 240-22756-E-1-B MS
Client ID: 074SB-0001-0001,0002-SO
Inject. Date: 18-Apr-2013 05:35:00
Dil. Factor: 1.0000
Sample Type: MS
Sample ID: 240-0018961-032
Misc. Info.:
Operator: 400725
Instrument ID: A2HP5F
Injection Vol: 1.0 ul
ALS Bottle#: 32
Lims Batch ID: 82317
Lims Sample ID: 32
Detector: GC FID1A

Method: \\Ncchrom\ChromData\A2HP5F\20130417-18961.b\TPH5F.m
Last Update: 18-Apr-2013 11:06:27
Calib Date: 05-Mar-2013 14:42:58
Quant Method: External Standard
Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01008.D
Limit Group: GC 8015C TPH ICAL
Integrator: Falcon
Column Type:
Column Dia:
Process Host: XAWRK028

	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
	1 Tetratetracontane					1
		23.885				
A	2 C28-C36					
	15.218	13.694	-16.742	3125151	0	
A	3 C10-C34					
	10.464	5.323	- 15.605	77596784	405.8	
A	4 C32-C44					1
		0.0 -	0.100			
A	5 C12-C22					
	8.905	6.669	- 11.142	58164092	304.2	
A	6 C22-C32					
		11.142	-14.824			
	7 n-Octane					
	2.964	2.967	-0.003	211381	0	
$	8 n-Nonane					
	4.380	4.383	-0.003	10792722	52.6	
	9 n-Decane					
	5.334	5.323	0.011	296083	0	
	10 Dodecane					
	6.680	6.669	0.011	836989	0	
	11 n-Tetradecane					
	7.738	7.728	0.010	1288338	0	
A	12 C10-C20					
	7.773	5.323	- 10.225	61295818	320.5	
	13 Hexadecane					
	8.666	8.655	0.011	2016094	0	
A	14 C10-C28					
	9.481	5.169	- 13.794	75503412	0	

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A 15 Diesel					
9.476	5.323 - 13.629		74854019	391.4	
16 n-Octadecane					
9.502	9.492	0.010	1063273	0	
A 17 C10-C32					
10.073	5.323 - 14.824		75894110	396.9	
18 icosane					
10.265	10.256	0.009	430729	0	
19 n-Docosane					
11.156	11.142	0.014	61458	0	
A 20 C12-C24					
4.548	3.039 - 6.058		8723465	45.6	
21 n-Tetracosane					
12.159	12.148	0.011	37768	0	
A 22 C20-C34					
12.931	10.256 - 15.605		7163237	37.5	
23 n-Hexacosane					
12.967	12.955	0.012	8486	0	
24 n-Octacosane					
13.612	13.629	-0.017	97052	0	
25 Triacontane					
14.227	14.217	0.010	13753	0	
26 Dotriacontane					
14.834	14.824	0.010	9256	0	
27 Tetratriacontane					
15.618	15.605	0.013	26788	0	
A 28 C24-C40					
16.313	12.148 - 20.478		9508165	49.7	
29 n-Hexatriacontane					
16.698	16.684	0.014	6146	0	
30 C38					
18.197	18.220	-0.023	5139	0	
31 C40					
20.477	20.478	-0.001	3075	0	
A 32 C20-C36					
13.470	10.256 - 16.684		8650693	45.2	
A 34 C24-C44					
18.017	12.148 - 23.885		10411420	54.4	
A 35 C10-C24					
8.735	5.323 - 12.148		72611199	379.7	

QC Flag Legend

Processing Flags
1 - Missing Peaks

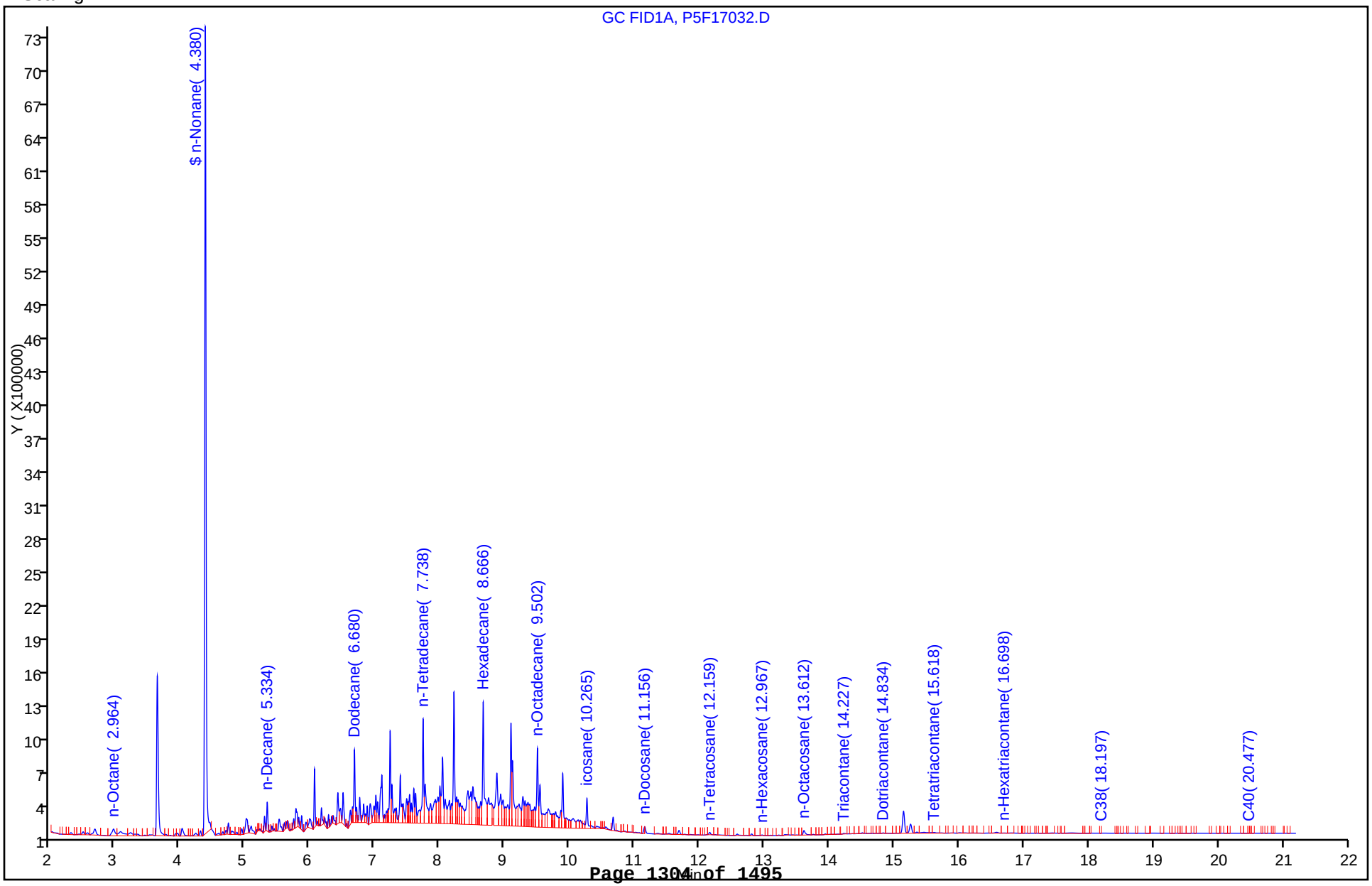
Report Date: 18-Apr-2013 11:06:31 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17032.D

Injection Date:	18-Apr-2013 05:35:00	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0001-0001,0002-SO	Instrument ID:	A2HP5F
Lims Batch ID:	82317	Lims Sample ID:	32
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22756-1

SDG No.:

Client Sample ID: 074SB-0001-0001,0002-SO | Lab Sample ID: 240-22756-1 MSD

Matrix: Solid | Lab File ID: P5F17033.D

Analysis Method: 8015B_DRO/DOD | Date Collected: 04/02/2013 08:42

Extraction Method: 3540C | Date Extracted: 04/16/2013 09:42

Sample wt/vol: 30.10(g) | Date Analyzed: 04/18/2013 06:05

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 13.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82317 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	60.4		19	11	11
STL00272	C20-C34	11	U	19	11	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	50		10-110

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17033.D
Lims ID: 240-22756-E-1-C MSD Client ID: 074SB-0001-0001,0002-SO
Inject. Date: 18-Apr-2013 06:05:39 Dil. Factor: 1.0000
Sample Type: MSD
Sample ID: 240-0018961-033
Misc. Info.:
Operator: 400725 Instrument ID: A2HP5F
Injection Vol: 1.0 ul ALS Bottle#: 33
Lims Batch ID: 82317 Lims Sample ID: 33
Detector: GC FID1A

Method: \\Ncchrom\ChromData\A2HP5F\20130417-18961.b\TPH5F.m
Last Update: 18-Apr-2013 11:06:27 Calib Date: 05-Mar-2013 14:42:58
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP5F\20130305-17772.b\P5F01008.D
Limit Group: GC 8015C TPH ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK028

	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
1	Tetratetracontane					1
	23.885					
A	2 C28-C36					
	15.218	13.694	-16.742	3960638	0	
A	3 C10-C34					
	10.464	5.323	- 15.605	75911187	397.0	
A	4 C32-C44					1
	0.0	-	0.100			
A	5 C12-C22					
	8.905	6.669	- 11.142	56187394	293.8	
A	6 C22-C32					
	11.142	-14.824				
7	n-Octane					
	2.965	2.967	-0.002	194032	0	
$	8 n-Nonane					
	4.380	4.383	-0.003	10262663	50.0	
9	n-Decane					
	5.334	5.323	0.011	380692	0	
10	Dodecane					
	6.680	6.669	0.011	1079666	0	
11	n-Tetradecane					
	7.739	7.728	0.011	1570709	0	
A	12 C10-C20					
	7.773	5.323	- 10.225	60125111	314.4	
13	Hexadecane					
	8.666	8.655	0.011	2286466	0	
A	14 C10-C28					
	9.481	5.169	- 13.794	73417775	0	

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A 15 Diesel					
9.476	5.323 - 13.629		72772503	380.6	
16 n-Octadecane					
9.502	9.492	0.010	1179581	0	
A 17 C10-C32					
10.073	5.323 - 14.824		73860607	386.2	
18 icosane					
10.264	10.256	0.008	690516	0	
19 n-Docosane					
11.155	11.142	0.013	174472	0	
A 20 C12-C24					
4.548	3.039 - 6.058		8543806	44.7	
21 n-Tetracosane					
12.158	12.148	0.010	33615	0	
A 22 C20-C34					
12.931	10.256 - 15.605		7659929	40.1	
23 n-Hexacosane					
12.966	12.955	0.011	9601	0	
24 n-Octacosane					
13.635	13.629	0.006	22017	0	
25 Triacontane					
14.225	14.217	0.008	18808	0	
26 Dotriacontane					
14.834	14.824	0.010	32231	0	
27 Tetratriacontane					1
15.605					
A 28 C24-C40					
16.313	12.148 - 20.478		10563952	55.2	
29 n-Hexatriacontane					
16.692	16.684	0.008	44772	0	
30 C38					
18.196	18.220	-0.024	9552	0	
31 C40					
20.457	20.478	-0.021	9333	0	
A 32 C20-C36					
13.470	10.256 - 16.684		9623589	50.3	
A 34 C24-C44					
18.017	12.148 - 23.885		11484869	60.1	
A 35 C10-C24					
8.735	5.323 - 12.148		70237312	367.3	

QC Flag Legend

Processing Flags
1 - Missing Peaks

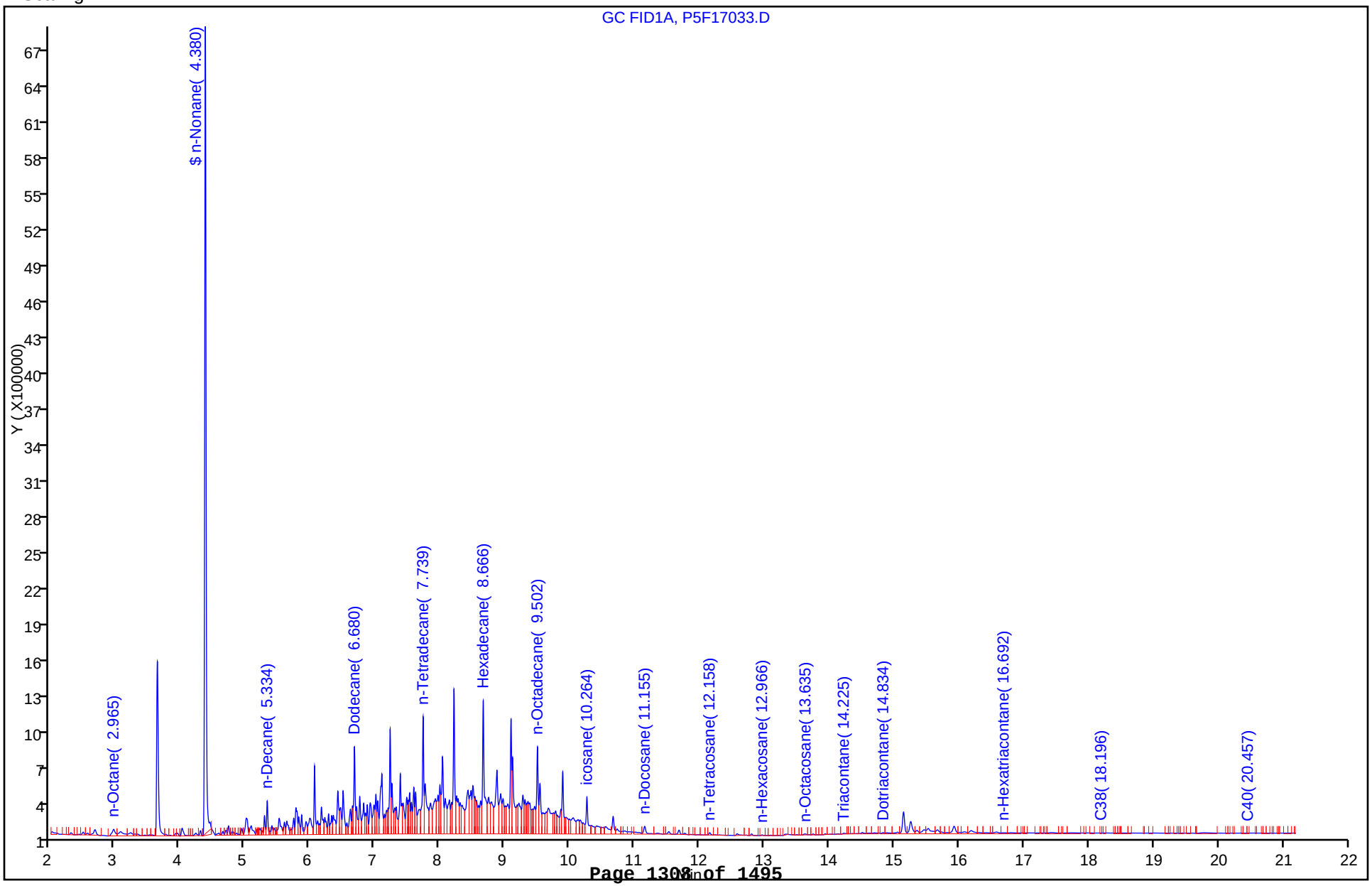
Report Date: 18-Apr-2013 11:06:32 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5F\20130417-18961.b\P5F17033.D

Injection Date:	18-Apr-2013 06:05:39	Limit Group:	GC 8015C TPH ICAL
Client ID:	074SB-0001-0001,0002-SO	Instrument ID:	A2HP5F
Lims Batch ID:	82317	Lims Sample ID:	33
Operator ID:	400725	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: A2HP5F Start Date: 03/05/2013 12:41

Analysis Batch Number: 77289 End Date: 03/05/2013 15:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 240-77289/5 IC		03/05/2013 12:41	1	P5F01004.D	
STD2 240-77289/6 IC		03/05/2013 13:12	1	P5F01005.D	
STD3 240-77289/7 ICRT		03/05/2013 13:42	1	P5F01006.D	
STD4 240-77289/8 IC		03/05/2013 14:12	1	P5F01007.D	
STD5 240-77289/9 IC		03/05/2013 14:42	1	P5F01008.D	
ICV 240-77289/10		03/05/2013 15:13	1	P5F01009.D	

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: A2HP5F Start Date: 04/17/2013 19:55

Analysis Batch Number: 82317 End Date: 04/18/2013 10:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 240-82317/13 CCVRT		04/17/2013 19:55	1	P5F17013.D	
MRL 240-82317/14		04/17/2013 20:25	1	P5F17014.D	
MB 240-82081/23-A		04/17/2013 20:56	1	P5F17015.D	
LCS 240-82081/24-A		04/17/2013 21:26	1	P5F17016.D	
ZZZZZ		04/17/2013 21:57	1		
ZZZZZ		04/17/2013 22:27	1		
ZZZZZ		04/17/2013 22:57	1		
ZZZZZ		04/17/2013 23:28	1		
ZZZZZ		04/17/2013 23:58	1		
ZZZZZ		04/18/2013 00:28	1		
ZZZZZ		04/18/2013 00:59	1		
ZZZZZ		04/18/2013 01:30	1		
CCV 240-82317/25		04/18/2013 02:01	1	P5F17025.D	
240-22756-1	074SB-0001-0001,0002-SO	04/18/2013 05:04	1	P5F17031.D	
240-22756-1 MS	074SB-0001-0001,0002-SO MS	04/18/2013 05:35	1	P5F17032.D	
240-22756-1 MSD	074SB-0001-0001,0002-SO MSD	04/18/2013 06:05	1	P5F17033.D	
240-22756-2	074SB-0002-0001-SO	04/18/2013 06:36	1	P5F17034.D	
240-22756-3	074SB-0003-0001-SO	04/18/2013 07:06	1	P5F17035.D	
CCV 240-82317/36		04/18/2013 07:37	1	P5F17036.D	
ZZZZZ		04/18/2013 08:07	1		
240-22756-5	074SB-0006-0001-SO	04/18/2013 08:37	1	P5F17038.D	
240-22756-6	074SB-0007-0001-SO	04/18/2013 09:07	1	P5F17039.D	
ZZZZZ		04/18/2013 09:37	1		
CCV 240-82317/41		04/18/2013 10:07	1	P5F17041.D	
MRL 240-82317/42		04/18/2013 10:37	1	P5F17042.D	

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: A2HP5F Start Date: 04/18/2013 23:35

Analysis Batch Number: 82531 End Date: 04/19/2013 14:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 240-82531/18 CCVRT		04/18/2013 23:35	1	P5F18018.D	
MRL 240-82531/19		04/19/2013 00:06	1	P5F18019.D	
240-22756-4	074SB-0005-0001-SO	04/19/2013 02:09	1	P5F18023.D	
240-22756-7	074SB-0008-0001-SO	04/19/2013 02:39	1	P5F18024.D	
CCV 240-82531/30		04/19/2013 05:44	1	P5F18030.D	
CCV 240-82531/46		04/19/2013 13:51	1	P5F18046.D	
MRL 240-82531/47		04/19/2013 14:21	1	P5F18047.D	

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: A2HP6F Start Date: 04/17/2013 18:42

Analysis Batch Number: 82405 End Date: 04/18/2013 08:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 240-82405/5 IC		04/17/2013 18:42	1	P6F17005.D	RTX-5 0.53(mm)
STD2 240-82405/6 IC		04/17/2013 19:13	1	P6F17006.D	RTX-5 0.53(mm)
STD3 240-82405/7 ICRT		04/17/2013 19:44	1	P6F17007.D	RTX-5 0.53(mm)
STD4 240-82405/8 IC		04/17/2013 20:15	1	P6F17008.D	RTX-5 0.53(mm)
STD5 240-82405/9 IC		04/17/2013 20:46	1	P6F17009.D	RTX-5 0.53(mm)
ICV 240-82405/10		04/17/2013 21:17	1	P6F17010.D	RTX-5 0.53(mm)
ZZZZZ		04/17/2013 21:48	1		RTX-5 0.53(mm)
ZZZZZ		04/17/2013 22:19	1		RTX-5 0.53(mm)
ZZZZZ		04/17/2013 22:50	1		RTX-5 0.53(mm)
ZZZZZ		04/17/2013 23:21	1		RTX-5 0.53(mm)
ZZZZZ		04/17/2013 23:52	1		RTX-5 0.53(mm)
ZZZZZ		04/18/2013 00:23	1		RTX-5 0.53(mm)
CCV 240-82405/22		04/18/2013 03:30	1		RTX-5 0.53(mm)
CCV 240-82405/31		04/18/2013 08:08	1		RTX-5 0.53(mm)
ZZZZZ		04/18/2013 08:39	1		RTX-5 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: A2HP6F Start Date: 04/18/2013 17:00

Analysis Batch Number: 82537 End Date: 04/19/2013 10:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 240-82537/5 CCVRT		04/18/2013 17:00	1	P6F18005.D	RTX-5 0.53(mm)
MRL 240-82537/6		04/18/2013 17:32	1	P6F18006.D	RTX-5 0.53(mm)
ZZZZZ		04/18/2013 18:04	1		RTX-5 0.53(mm)
ZZZZZ		04/18/2013 18:36	1		RTX-5 0.53(mm)
MB 240-82097/23-A		04/18/2013 20:41	1	P6F18012.D	RTX-5 0.53(mm)
LCS 240-82097/24-A		04/18/2013 21:13	1	P6F18013.D	RTX-5 0.53(mm)
240-22756-8	074SB-0009-0001-SO	04/18/2013 21:44	1	P6F18014.D	RTX-5 0.53(mm)
240-22756-10	074SB-0016-0001-SO	04/18/2013 22:16	1	P6F18015.D	RTX-5 0.53(mm)
240-22756-11	074SB-0017-0001-SO	04/18/2013 22:47	1	P6F18016.D	RTX-5 0.53(mm)
CCV 240-82537/17		04/18/2013 23:18	1	P6F18017.D	RTX-5 0.53(mm)
ZZZZZ		04/18/2013 23:49	1		RTX-5 0.53(mm)
ZZZZZ		04/19/2013 00:21	1		RTX-5 0.53(mm)
ZZZZZ		04/19/2013 00:52	1		RTX-5 0.53(mm)
240-22756-15	074SB-0021-0001-SO	04/19/2013 01:23	1	P6F18021.D	RTX-5 0.53(mm)
ZZZZZ		04/19/2013 01:54	1		RTX-5 0.53(mm)
ZZZZZ		04/19/2013 02:25	1		RTX-5 0.53(mm)
ZZZZZ		04/19/2013 02:57	1		RTX-5 0.53(mm)
ZZZZZ		04/19/2013 03:28	1		RTX-5 0.53(mm)
ZZZZZ		04/19/2013 04:00	1		RTX-5 0.53(mm)
ZZZZZ		04/19/2013 04:31	1		RTX-5 0.53(mm)
CCV 240-82537/28		04/19/2013 05:03	1	P6F18028.D	RTX-5 0.53(mm)
ZZZZZ		04/19/2013 05:34	1		RTX-5 0.53(mm)
ZZZZZ		04/19/2013 06:06	1		RTX-5 0.53(mm)
ZZZZZ		04/19/2013 06:37	1		RTX-5 0.53(mm)
ZZZZZ		04/19/2013 07:08	1		RTX-5 0.53(mm)
ZZZZZ		04/19/2013 07:40	1		RTX-5 0.53(mm)
ZZZZZ		04/19/2013 08:11	1		RTX-5 0.53(mm)
ZZZZZ		04/19/2013 08:43	1		RTX-5 0.53(mm)
ZZZZZ		04/19/2013 09:14	1		RTX-5 0.53(mm)
ZZZZZ		04/19/2013 09:46	1		RTX-5 0.53(mm)
CCV 240-82537/38		04/19/2013 10:18	1	P6F18038.D	RTX-5 0.53(mm)
MRL 240-82537/39		04/19/2013 10:49	1	P6F18039.D	RTX-5 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: A2HP6F Start Date: 04/19/2013 18:57

Analysis Batch Number: 82770 End Date: 04/20/2013 05:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 240-82770/5 CCVRT		04/19/2013 18:57	1	P6F19005.D	RTX-5 0.53(mm)
MRL 240-82770/6		04/19/2013 19:27	1	P6F19006.D	RTX-5 0.53(mm)
240-22756-12	074SB-0018-0001-SO	04/19/2013 20:29	5	P6F19008.D	RTX-5 0.53(mm)
240-22756-13	074SB-0019-0001-SO	04/19/2013 21:00	10	P6F19009.D	RTX-5 0.53(mm)
240-22756-14	074SB-0020-0001-SO	04/19/2013 21:31	5	P6F19010.D	RTX-5 0.53(mm)
ZZZZZ		04/19/2013 22:01	1		RTX-5 0.53(mm)
ZZZZZ		04/19/2013 22:32	1		RTX-5 0.53(mm)
ZZZZZ		04/19/2013 23:02	1		RTX-5 0.53(mm)
ZZZZZ		04/19/2013 23:33	1		RTX-5 0.53(mm)
ZZZZZ		04/20/2013 00:04	1		RTX-5 0.53(mm)
ZZZZZ		04/20/2013 00:34	1		RTX-5 0.53(mm)
CCV 240-82770/17		04/20/2013 01:05	1	P6F19017.D	RTX-5 0.53(mm)
ZZZZZ		04/20/2013 01:35	1		RTX-5 0.53(mm)
ZZZZZ		04/20/2013 02:06	1		RTX-5 0.53(mm)
ZZZZZ		04/20/2013 02:36	1		RTX-5 0.53(mm)
ZZZZZ		04/20/2013 03:07	1		RTX-5 0.53(mm)
ZZZZZ		04/20/2013 03:38	1		RTX-5 0.53(mm)
ZZZZZ		04/20/2013 04:08	1		RTX-5 0.53(mm)
ZZZZZ		04/20/2013 04:39	1		RTX-5 0.53(mm)
CCV 240-82770/25		04/20/2013 05:10	1		RTX-5 0.53(mm)
MRL 240-82770/26		04/20/2013 05:40	1	P6F19026.D	RTX-5 0.53(mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Batch Number: 82081 Batch Start Date: 04/16/13 13:30 Batch Analyst: Coast, Chris

Batch Method: 3540C Batch End Date: 04/17/13 05:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EXDIESELSPKW 00027	EXTPHSURR 00019		
240-22756-E-1	074SB-0001-0001, 0002-SO	3540C, 8015B_DRO/DOD	T	29.82 g	5 mL		1 mL		
240-22756-E-1 MS	074SB-0001-0001, 0002-SO	3540C, 8015B_DRO/DOD	T	29.58 g	5 mL	1 mL	1 mL		
240-22756-E-1 MSD	074SB-0001-0001, 0002-SO	3540C, 8015B_DRO/DOD	T	30.10 g	5 mL	1 mL	1 mL		
240-22756-B-2	074SB-0002-0001-SO	3540C, 8015B_DRO/DOD	T	29.99 g	5 mL		1 mL		
240-22756-B-3	074SB-0003-0001-SO	3540C, 8015B_DRO/DOD	T	29.56 g	5 mL		1 mL		
240-22756-B-4	074SB-0005-0001-SO	3540C, 8015B_DRO/DOD	T	30.04 g	5 mL		1 mL		
240-22756-E-5	074SB-0006-0001-SO	3540C, 8015B_DRO/DOD	T	29.88 g	5 mL		1 mL		
240-22756-B-6	074SB-0007-0001-SO	3540C, 8015B_DRO/DOD	T	29.56 g	5 mL		1 mL		
240-22756-B-7	074SB-0008-0001-SO	3540C, 8015B_DRO/DOD	T	29.61 g	5 mL		1 mL		
MB 240-82081/23		3540C, 8015B_DRO/DOD		30.00 g	5 mL		1 mL		
LCS 240-82081/24		3540C, 8015B_DRO/DOD		30.00 g	5 mL	1 mL	1 mL		

Batch Notes	
Balance ID	b036
Na2SO4 Lot Number	857443
Prep Solvent Lot #	928641

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Batch Number: 82081 Batch Start Date: 04/16/13 13:30 Batch Analyst: Coast, Chris

Batch Method: 3540C Batch End Date: 04/17/13 05:30

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Batch Number: 82097 Batch Start Date: 04/16/13 13:30 Batch Analyst: Coast, Chris

Batch Method: 3540C Batch End Date: 04/17/13 05:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EXDIESELSPKW 00027	EXTPHSURR 00019		
240-22756-B-8	074SB-0009-0001-SO	3540C, 8015B_DRO/DOD	T	30.08 g	5 mL		1 mL		
240-22756-B-10	074SB-0016-0001-SO	3540C, 8015B_DRO/DOD	T	29.55 g	5 mL		1 mL		
240-22756-B-11	074SB-0017-0001-SO	3540C, 8015B_DRO/DOD	T	29.75 g	5 mL		1 mL		
240-22756-B-12	074SB-0018-0001-SO	3540C, 8015B_DRO/DOD	T	30.17 g	5 mL		1 mL		
240-22756-B-13	074SB-0019-0001-SO	3540C, 8015B_DRO/DOD	T	30.31 g	5 mL		1 mL		
240-22756-B-14	074SB-0020-0001-SO	3540C, 8015B_DRO/DOD	T	29.98 g	5 mL		1 mL		
240-22756-B-15	074SB-0021-0001-SO	3540C, 8015B_DRO/DOD	T	30.08 g	5 mL		1 mL		
MB 240-82097/23		3540C, 8015B_DRO/DOD		30.00 g	5 mL		1 mL		
LCS 240-82097/24		3540C, 8015B_DRO/DOD		30.00 g	5 mL	1 mL	1 mL		

Batch Notes	
Balance ID	b036
Na2SO4 Lot Number	857443
Prep Solvent Lot #	928641

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Canton Job Number: 240-22756-1

SDG No.:

Project: RVAAP - ECC

Client Sample ID	Lab Sample ID
079SD-0308-0001-SO	240-22756-9

Comments:

COVER PAGE
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 240-22756-1

SDG No.:

Project: RVAAP - ECC

Client Sample ID	Lab Sample ID
079SD-0308-0001-SO	240-22756-9

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SD-0308-0001-SO
Lab Sample ID: 240-22756-9
Lab Name: TestAmerica Canton
Job No.: 240-22756-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/02/2013 10:00
Reporting Basis: DRY
Date Received: 04/03/2013 08:15
% Solids: 76.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.044	0.14	0.046	0.020	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SD-0308-0001-SO
Lab Sample ID: 240-22756-9
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22756-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/02/2013 10:00
Reporting Basis: DRY
Date Received: 04/03/2013 08:15
% Solids: 76.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.040	0.13	0.038	0.015	mg/Kg	J		1	6020/DOD
Aluminum	9900	3.8	0.77	0.37	mg/Kg			1	6020/DOD
Arsenic	72	0.13	0.064	0.023	mg/Kg			1	6020/DOD
Barium	57	1.3	0.026	0.014	mg/Kg		Q	1	6020/DOD
Beryllium	0.52	0.13	0.013	0.0096	mg/Kg		Q	1	6020/DOD
Calcium	870	13	3.2	1.7	mg/Kg			1	6020/DOD
Cadmium	0.22	0.13	0.038	0.017	mg/Kg			1	6020/DOD
Chromium	12	0.26	0.051	0.029	mg/Kg			1	6020/DOD
Cobalt	7.9	0.064	0.013	0.0031	mg/Kg		Q	1	6020/DOD
Copper	16	0.26	0.077	0.042	mg/Kg		Q	1	6020/DOD
Iron	16000	6.4	2.6	1.4	mg/Kg			1	6020/DOD
Magnesium	1800	13	2.6	1.4	mg/Kg			1	6020/DOD
Manganese	220	0.64	0.038	0.020	mg/Kg		Q	1	6020/DOD
Sodium	54	13	6.4	3.4	mg/Kg			1	6020/DOD
Nickel	16	0.13	0.038	0.014	mg/Kg			1	6020/DOD
Lead	22	0.13	0.038	0.020	mg/Kg		Q	1	6020/DOD
Antimony	0.076	0.26	0.13	0.059	mg/Kg	J		1	6020/DOD
Thallium	0.14	0.13	0.026	0.013	mg/Kg			1	6020/DOD
Vanadium	20	0.13	0.077	0.038	mg/Kg			1	6020/DOD
Zinc	44	0.64	0.26	0.083	mg/Kg		Q	1	6020/DOD
Potassium	1200	13	7.7	4.0	mg/Kg			1	6020/DOD
Selenium	0.43	0.64	0.13	0.065	mg/Kg	J		1	6020/DOD

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

ICV Source: MTHgStd_00009 Concentration Units: ug/L

CCV Source: MTHGCALW_00358

Analyte	ICV 240-82640/7-A 04/19/2013 09:29				CCV 240-82640/10-A 04/19/2013 09:53				CCV 240-82640/10-A 04/19/2013 10:11			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.54		2.50	102	4.97		5.00	99	4.94		5.00	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

ICV Source: MTHgStd_00009 Concentration Units: ug/L

CCV Source: MTHGCALW_00358

Analyte	CCV 240-82640/10-A 04/19/2013 10:35											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	4.90		5.00	98								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

ICV Source: MICVX_00005 Concentration Units: ug/L

CCV Source: CCVHL1_00002

Analyte	ICV 180-71214/5 05/07/2013 11:49				CCV 180-71214/10 05/07/2013 12:31							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	420		400	105	466000		500000	93				
Barium	80.0		80.0	100	15600		15000	104				
Chromium	81.0		80.0	101	21300		20000	106				
Copper	82.9		80.0	104	19900		20000	100				
Iron	19800		20000	99	518000		500000	104				
Lead	77.1		80.0	96	19300		20000	97				
Manganese	399		400	100	20900		20000	105				
Nickel	81.4		80.0	102	10200		10000	102				
Zinc	84.6		80.0	106	20500		20000	102				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

ICV Source: MICVX_00005 Concentration Units: ug/L

CCV Source: CCVHL2_00002

Analyte	ICV 180-71214/5 05/07/2013 11:49				CCV 180-71214/11 05/07/2013 12:40							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Calcium	37600		40000	94	965000		1000000	96				
Magnesium	39900		40000	100	939000		1000000	94				
Potassium	40300		40000	101	486000		500000	97				
Sodium	39700		40000	99	481000		500000	96				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

ICV Source: MICVX_00005 Concentration Units: ug/L

CCV Source: MCCV1X_00041

Analyte	ICV 180-71214/5 05/07/2013 11:49				CCV 180-71214/12 05/07/2013 12:48				CCV 180-71214/24 05/07/2013 14:26			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	420		400	105	514		500	103	515		500	103
Antimony	82.7		80.0	103	99.6		100	100	97.4		100	97
Arsenic	78.3		80.0	98	99.5		100	99	101		100	101
Barium	80.0		80.0	100	97.5		100	98	95.5		100	96
Beryllium	82.0		80.0	103	104		100	104	101		100	101
Cadmium	81.3		80.0	102	99.0		100	99	96.3		100	96
Calcium	37600		40000	94	46100		50000	92	47100		50000	94
Chromium	81.0		80.0	101	97.9		100	98	100		100	100
Cobalt	79.6		80.0	100	98.8		100	99	101		100	101
Copper	82.9		80.0	104	102		100	102	104		100	104
Iron	19800		20000	99	24600		25000	98	25100		25000	100
Lead	77.1		80.0	96	95.3		100	95	97.3		100	97
Magnesium	39900		40000	100	50300		50000	101	50000		50000	100
Manganese	399		400	100	487		500	97	497		500	99
Nickel	81.4		80.0	102	102		100	102	104		100	104
Potassium	40300		40000	101	49100		50000	98	49600		50000	99
Selenium	79.0		80.0	99	97.8		100	98	100		100	100
Silver	82.7		80.0	103	97.6		100	98	99.3		100	99
Sodium	39700		40000	99	49400		50000	99	49000		50000	98
Thallium	78.8		80.0	98	94.5		100	95	96.0		100	96
Vanadium	81.4		80.0	102	98.5		100	99	101		100	101
Zinc	84.6		80.0	106	103		100	103	105		100	105

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Method: 7471/DOD Instrument ID: H1

Lab Sample ID: CRA 240-82640/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00358

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.145	J	73	

Lab Sample ID: CRA 240-82640/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00358

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.131	J	65	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

Method: 6020/DOD Instrument ID: M

Lab Sample ID: CRI 180-71214/7 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX_00032

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	1.00	1.03		103	80-120
Aluminum	30.0	35.8		119	80-120
Arsenic	1.00	1.04		104	80-120
Barium	10.0	9.64	J	96	80-120
Beryllium	1.00	0.957	J	96	80-120
Calcium	100	96.5	J	97	80-120
Cadmium	1.00	1.11		111	80-120
Chromium	2.00	1.82	J	91	80-120
Cobalt	0.500	0.499	J	100	80-120
Copper	2.00	2.14		107	80-120
Iron	50.0	59.3		119	80-120
Magnesium	100	97.9	J	98	80-120
Manganese	5.00	5.16		103	80-120
Sodium	100	93.6	J	94	80-120
Nickel	1.00	1.07		107	80-120
Lead	1.00	0.914	J	91	80-120
Antimony	2.00	1.99	J	100	80-120
Thallium	1.00	0.856	J	86	80-120
Vanadium	1.00	0.942	J	94	80-120
Zinc	5.00	5.65		113	80-120
Potassium	100	93.2	J	93	80-120
Selenium	5.00	4.55	J	91	80-120

Lab Sample ID: CRI 180-71214/74 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX_00032

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	1.00	0.992	J	99	80-120
Aluminum	30.0	34.4		115	80-120
Arsenic	1.00	0.865	J	86	80-120
Barium	10.0	9.44	J	94	80-120
Beryllium	1.00	1.14		114	80-120
Calcium	100	92.4	J	92	80-120
Cadmium	1.00	1.13		113	80-120
Chromium	2.00	1.92	J	96	80-120

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

Method: 6020/DOD Instrument ID: M

Lab Sample ID: CRI 180-71214/74 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX_00032

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Cobalt	0.500	0.530		106	80-120
Copper	2.00	2.40		120	80-120
Iron	50.0	57.5		115	80-120
Magnesium	100	99.4	J	99	80-120
Manganese	5.00	5.40		108	80-120
Sodium	100	98.2	J	98	80-120
Nickel	1.00	1.04		104	80-120
Lead	1.00	0.969	J	97	80-120
Antimony	2.00	2.01		100	80-120
Thallium	1.00	0.862	J	86	80-120
Vanadium	1.00	0.959	J	96	80-120
Zinc	5.00	5.70		114	80-120
Potassium	100	80.1	J	80	80-120
Selenium	5.00	4.18	J	84	80-120

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-82640/8-A 04/19/2013 09:31		CCB 240-82640/11-A 04/19/2013 09:55		CCB 240-82640/11-A 04/19/2013 10:13		CCB 240-82640/11-A 04/19/2013 10:37	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 180-71214/6 05/07/2013 11:57		CCB1 180-71214/13 05/07/2013 12:56		CCB2 180-71214/25 05/07/2013 14:34			
		Found	C	Found	C	Found	C	Found	C
Aluminum	30	5.0	U	2.97	J	5.18	J		
Antimony	2.0	0.90	U	0.90	U	0.90	U		
Arsenic	1.0	0.50	U	0.50	U	0.50	U		
Barium	10	0.15	U	0.15	U	0.15	U		
Beryllium	1.0	0.090	U	0.090	U	0.090	U		
Cadmium	1.0	0.30	U	0.30	U	0.30	U		
Calcium	100	20	U	13.9	J	14.5	J		
Chromium	2.0	1.0	U	1.0	U	1.0	U		
Cobalt	0.50	0.050	U	0.050	U	0.050	U		
Copper	2.0	0.50	U	0.50	U	0.50	U		
Iron	50	20	U	13.7	J	12.4	J		
Lead	1.0	0.30	U	0.30	U	0.30	U		
Magnesium	100	22	U	15.7	J	11.4	J		
Manganese	5.0	0.290	J	0.289	J	0.346	J		
Nickel	1.0	0.35	U	0.35	U	0.35	U		
Potassium	100	60	U	60	U	60	U		
Selenium	5.0	1.0	U	1.0	U	1.0	U		
Silver	1.0	0.20	U	0.20	U	0.20	U		
Sodium	100	55	U	55	U	55	U		
Thallium	1.0	0.20	U	0.20	U	0.20	U		
Vanadium	1.0	0.60	U	0.60	U	0.60	U		
Zinc	5.0	2.0	U	2.0	U	2.0	U		

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 240-82367/1-A

Instrument Code: H1 Batch No.: 82912

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.033	U		7471_DOD

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 180-69392/1-A

Instrument Code: M Batch No.: 71214

CAS No.	Analyte	Concentration	C	Q	Method
7440-22-4	Silver	0.030	U		6020_DoD
7429-90-5	Aluminum	0.60	U		6020_DoD
7440-38-2	Arsenic	0.050	U		6020_DoD
7440-39-3	Barium	0.0175	J	Q	6020_DoD
7440-41-7	Beryllium	0.010	U	Q	6020_DoD
7440-70-2	Calcium	2.53	J		6020_DoD
7440-43-9	Cadmium	0.0149	J		6020_DoD
7440-47-3	Chromium	0.040	U		6020_DoD
7440-48-4	Cobalt	0.010	U	Q	6020_DoD
7440-50-8	Copper	0.060	U	Q	6020_DoD
7439-89-6	Iron	1.17	J		6020_DoD
7439-95-4	Magnesium	2.0	U		6020_DoD
7439-96-5	Manganese	0.0198	J	Q	6020_DoD
7440-23-5	Sodium	5.0	U		6020_DoD
7440-02-0	Nickel	0.030	U		6020_DoD
7439-92-1	Lead	0.030	U	Q	6020_DoD
7440-36-0	Antimony	0.10	U		6020_DoD
7440-28-0	Thallium	0.020	U		6020_DoD
7440-62-2	Vanadium	0.060	U		6020_DoD
7440-66-6	Zinc	0.20	U	Q	6020_DoD
7440-09-7	Potassium	6.0	U		6020_DoD
7782-49-2	Selenium	0.10	U		6020_DoD

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

Lab Sample ID: ICSA 180-71214/8 Instrument ID: M

Lab File ID: M30507A.xml ICS Source: MICSAX_00031

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**100000**	**93160**	**93**
Antimony		**0.466**	
Arsenic		**0.425**	
Barium		**0.707**	
Beryllium		**0.181**	
Cadmium		**0.271**	
Calcium	**100000**	**94220**	**94**
Chromium		**-0.0780**	
Cobalt		**0.273**	
Copper		**1.42**	
Iron	**100000**	**103100**	**103**
Lead		**0.800**	
Magnesium	**100000**	**95040**	**95**
Manganese		**1.29**	
Nickel		**0.223**	
Potassium	**100000**	**97930**	**98**
Selenium		**0.533**	
Silver		**0.195**	
Sodium	**100000**	**95430**	**95**
Thallium		**0.173**	
Vanadium		**-0.453**	
Zinc		**5.37**	
Boron		*-5.92*	
Molybdenum	*2000*	*2254*	*113*
Silicon		*26.8*	
Strontium		*5.12*	
Tin		*1.06*	
Titanium	*2000*	*2227*	*111*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

Lab Sample ID: ICSAB 180-71214/9 Instrument ID: M

Lab File ID: M30507A.xml ICS Source: MICSABX_00035

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Aluminum	**100000**	**90623**	**91**
Antimony	**20.0**	**19.6**	**98**
Arsenic	**20.0**	**20.4**	**102**
Barium	**20.0**	**20.2**	**101**
Beryllium	**20.0**	**18.7**	**93**
Cadmium	**20.0**	**19.2**	**96**
Calcium	**100000**	**92633**	**93**
Chromium	**20.0**	**19.3**	**96**
Cobalt	**20.0**	**20.1**	**100**
Copper	**20.0**	**20.3**	**102**
Iron	**100000**	**100327**	**100**
Lead	**20.0**	**20.9**	**104**
Magnesium	**100000**	**92153**	**92**
Manganese	**22.5**	**20.8**	**92**
Nickel	**20.0**	**19.3**	**96**
Potassium	**100000**	**95527**	**96**
Selenium	**50.0**	**50.0**	**100**
Silver	**20.0**	**18.6**	**93**
Sodium	**100000**	**92750**	**93**
Thallium	**20.0**	**20.3**	**101**
Vanadium	**20.0**	**19.3**	**96**
Zinc	**25.0**	**24.0**	**96**
Boron	*50.0*	*35.5*	*71*
Molybdenum	*2000*	*2210*	*111*
Silicon	*500*	*493*	*99*
Strontium	*25.0*	*26.1*	*105*
Tin	*100*	*100*	*100*
Titanium	*2000*	*2177*	*109*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-82367/2-A

Lab Name: TestAmerica Canton Job No.: 240-22756-1

Sample Matrix: Solid LCS Source: MTHGCALW_00356

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.833	0.783		94	80	120		7471/DOD

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 180-69392/2-A

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

Sample Matrix: Solid LCS Source: MTAPITTICPMS_00014

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Silver	4.76	4.47		94	60	114		6020/DOD
Aluminum	190	181		95	80	120		6020/DOD
Arsenic	3.81	3.27		86	73	110		6020/DOD
Barium	190	177		93	70	110	Q	6020/DOD
Beryllium	4.76	4.00		84	79	110	Q	6020/DOD
Calcium	4760	4080		86	80	120		6020/DOD
Cadmium	4.76	4.06		85	74	110		6020/DOD
Chromium	19.0	17.6		93	70	110		6020/DOD
Cobalt	47.6	45.9		96	74	110	Q	6020/DOD
Copper	23.8	23.8		100	73	110	Q	6020/DOD
Iron	95.2	102		107	80	120		6020/DOD
Magnesium	4760	4360		92	80	120		6020/DOD
Manganese	47.6	43.9		92	80	120	Q	6020/DOD
Sodium	4760	4350		91	80	120		6020/DOD
Nickel	47.6	46.3		97	75	110		6020/DOD
Lead	1.90	1.89		99	75	110	Q	6020/DOD
Antimony	47.6	40.9		86	68	113		6020/DOD
Thallium	4.76	4.62		97	71	110		6020/DOD
Vanadium	47.6	44.8		94	72	110		6020/DOD
Zinc	47.6	39.5		83	72	113	Q	6020/DOD
Potassium	4760	4320		91	80	120		6020/DOD
Selenium	0.952	0.792		83	65	110		6020/DOD

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-22756-1

SDG Number:

Matrix: Solid Instrument ID: H1

Method: 7471/DOD DL Date: 02/16/2010 09:46

Prep Method: 7471A

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (mg/Kg)
Mercury	253.7	0.1	0.014

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-22756-1

SDG Number:

Matrix: Solid Instrument ID: H1

Method: 7471/DOD XMDL Date: 02/16/2010 09:47

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury	253.7	0.2	0.12

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 240-22756-1

SDG Number:

Matrix: Solid Instrument ID: M

Method: 6020/DOD DL Date: 01/26/2010 16:34

Prep Method: 3050B

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (mg/Kg)
Aluminum	27	3	0.2849
Antimony	121	0.2	0.0459
Arsenic	75	0.1	0.0181
Barium	137	1	0.0107
Beryllium	9	0.1	0.0075
Cadmium	111	0.1	0.0132
Calcium	44	10	1.326
Chromium	52	0.2	0.0223
Cobalt	59	0.05	0.0024
Copper	65	0.2	0.033
Iron	56	5	1.077
Lead	208	0.1	0.0154
Magnesium	26	10	1.079
Manganese	55	0.5	0.0159
Nickel	60	0.1	0.0113
Potassium	39	10	3.155
Selenium	82	0.5	0.0509
Silver	107	0.1	0.0114
Sodium	23	10	2.658
Thallium	205	0.1	0.0102
Vanadium	51	0.1	0.0299
Zinc	66	0.5	0.0648

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 240-22756-1

SDG Number:

Matrix: Solid Instrument ID: M

Method: 6020/DOD XMDL Date: 01/26/2010 16:34

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Aluminum	27	30	2.5662
Antimony	121	2	0.459
Arsenic	75	1	0.2908
Barium	137	10	0.098
Beryllium	9	1	0.0451
Cadmium	111	1	0.132
Calcium	44	100	9.357
Chromium	52	2	0.5433
Cobalt	59	0.5	0.0263
Copper	65	2	0.2443
Iron	56	50	10.77
Lead	208	1	0.154
Magnesium	26	100	10.8
Manganese	55	5	0.159
Nickel	60	1	0.1749
Potassium	39	100	31.6
Selenium	82	5	0.509
Silver	107	1	0.114
Sodium	23	100	26.8
Thallium	205	1	0.102
Vanadium	51	1	0.299
Zinc	66	5	0.9609

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-22756-1

SDG No.:

Instrument ID: H1 Date: 04/01/2011 10:45

Analyte	Integ. Time (Sec.)	Concentration (ppb)	Method
Mercury		10	7471/DOD

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Pittsburgh Job No: 240-22756-1

SDG No.:

Instrument ID: M Date: 03/14/2011 22:35

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Silver		2500	6020/DOD
Aluminum		450000	6020/DOD
Arsenic		4500	6020/DOD
Barium		13500	6020/DOD
Beryllium		9000	6020/DOD
Calcium		1500000	6020/DOD
Cadmium		13500	6020/DOD
Chromium		13500	6020/DOD
Cobalt		13500	6020/DOD
Copper		20000	6020/DOD
Iron		450000	6020/DOD
Magnesium		1500000	6020/DOD
Manganese		25000	6020/DOD
Sodium		450000	6020/DOD
Nickel		13500	6020/DOD
Lead		20000	6020/DOD
Antimony		13500	6020/DOD
Thallium		13500	6020/DOD
Vanadium		13500	6020/DOD
Zinc		25000	6020/DOD
Potassium		450000	6020/DOD
Selenium		4500	6020/DOD

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Prep Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 240-82367/1-A	04/17/2013 14:55	82367	0.60		100
LCS 240-82367/2-A	04/17/2013 14:55	82367	0.60		100
240-22756-9	04/17/2013 14:55	82367	0.56		100

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 180-69392/1-A	04/17/2013 10:27	69392	00001.00		100
LCS 180-69392/2-A	04/17/2013 10:27	69392	00001.05		100
240-22756-9	04/17/2013 10:27	69392	00001.02		100

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/19/2013 09:14 End Date: 04/19/2013 14:24

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
IC 240-82640/1-A			09:14	X																			
IC 240-82640/2-A			09:15	X																			
IC 240-82640/1-A			09:18	X																			
IC 240-82640/1-A			09:20	X																			
IC 240-82640/2-A			09:21	X																			
IC 240-82640/3-A			09:23	X																			
IC 240-82640/4-A			09:24	X																			
IC 240-82640/5-A			09:26	X																			
IC 240-82640/6-A			09:27	X																			
ICV 240-82640/7-A	1		09:29	X																			
ICB 240-82640/8-A	1		09:31	X																			
CRA 240-82640/9-A	1		09:32	X																			
CCV 240-82640/10-A			09:34																				
CCB 240-82640/11-A			09:36																				
ZZZZZZ			09:37																				
ZZZZZZ			09:39																				
ZZZZZZ			09:41																				
ZZZZZZ			09:43																				
ZZZZZZ			09:45																				
ZZZZZZ			09:46																				
ZZZZZZ			09:48																				
ZZZZZZ			09:49																				
ZZZZZZ			09:51																				
ZZZZZZ			09:52																				
CCV 240-82640/10-A	1		09:53	X																			
CCB 240-82640/11-A	1		09:55	X																			
ZZZZZZ			09:56																				
ZZZZZZ			09:58																				
ZZZZZZ			10:00																				
ZZZZZZ			10:01																				
ZZZZZZ			10:03																				
MB 240-82367/1-A	1	T	10:04	X																			
LCS 240-82367/2-A	1	T	10:06	X																			
ZZZZZZ			10:07																				
ZZZZZZ			10:08																				
ZZZZZZ			10:10																				
CCV 240-82640/10-A	1		10:11	X																			
CCB 240-82640/11-A	1		10:13	X																			
ZZZZZZ			10:15																				
ZZZZZZ			10:17																				
ZZZZZZ			10:18																				
ZZZZZZ			10:20																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/19/2013 09:14 End Date: 04/19/2013 14:24

Lab Sample ID	D / F	Type	Time	Analytes																				
				Hg																				
ZZZZZZ			10:21																					
ZZZZZZ			10:23																					
240-22756-9	1	T	10:25	X																				
ZZZZZZ			10:27																					
CRA 240-82640/9-A	1		10:28	X																				
ZZZZZZ			10:33																					
CCV 240-82640/10-A	1		10:35	X																				
CCB 240-82640/11-A	1		10:37	X																				
ZZZZZZ			10:39																					
ZZZZZZ			10:40																					
ZZZZZZ			10:42																					
ZZZZZZ			10:43																					
ZZZZZZ			10:45																					
ZZZZZZ			10:47																					
ZZZZZZ			10:48																					
ZZZZZZ			10:50																					
ZZZZZZ			10:51																					
ZZZZZZ			10:52																					
CCV 240-82640/10-A			10:54																					
CCB 240-82640/11-A			10:55																					
ZZZZZZ			10:57																					
ZZZZZZ			10:58																					
ZZZZZZ			10:59																					
ZZZZZZ			11:01																					
ZZZZZZ			11:02																					
ZZZZZZ			11:04																					
ZZZZZZ			11:06																					
ZZZZZZ			11:07																					
ZZZZZZ			11:09																					
ZZZZZZ			11:10																					
CCV 240-82640/10-A			11:12																					
CCB 240-82640/11-A			11:13																					
ZZZZZZ			11:14																					
ZZZZZZ			11:16																					
ZZZZZZ			11:18																					
ZZZZZZ			11:19																					
ZZZZZZ			11:21																					
ZZZZZZ			11:22																					
ZZZZZZ			11:24																					
ZZZZZZ			11:25																					
ZZZZZZ			11:27																					
ZZZZZZ			11:29																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/19/2013 09:14 End Date: 04/19/2013 14:24

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
CCV 240-82640/10-A			11:30																				
CCB 240-82640/11-A			11:31																				
ZZZZZZ			11:33																				
ZZZZZZ			11:34																				
ZZZZZZ			11:35																				
ZZZZZZ			11:37																				
ZZZZZZ			11:38																				
ZZZZZZ			11:40																				
ZZZZZZ			11:42																				
ZZZZZZ			11:44																				
ZZZZZZ			11:45																				
ZZZZZZ			11:47																				
CCV 240-82640/10-A			11:48																				
CCB 240-82640/11-A			11:50																				
ZZZZZZ			11:51																				
ZZZZZZ			11:53																				
ZZZZZZ			11:54																				
ZZZZZZ			11:56																				
CCV 240-82640/10-A			11:57																				
CCB 240-82640/11-A			11:59																				
CCV 240-82640/10-A			14:11																				
CCB 240-82640/11-A			14:12																				
ZZZZZZ			14:13																				
ZZZZZZ			14:15																				
ZZZZZZ			14:16																				
ZZZZZZ			14:18																				
ZZZZZZ			14:19																				
ZZZZZZ			14:21																				
CCV 240-82640/10-A			14:22																				
CCB 240-82640/11-A			14:24																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 05/07/2013 10:59 End Date: 05/08/2013 00:12

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ITUNE 180-71214/1			10:59																				
STD1 180-71214/2 IC	1		11:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD2 180-71214/3 IC	1		11:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD3 180-71214/4 IC	1		11:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 180-71214/5	1		11:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 180-71214/6	1		11:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 180-71214/7	1		12:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 180-71214/8	1		12:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 180-71214/9	1		12:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-71214/10	1		12:31		X		X					X	X	X			X		X	X			
CCV 180-71214/11	1		12:40						X						X	X		X					
CCV 180-71214/12	1		12:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB1 180-71214/13	1		12:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 180-69392/1-A	1	T	13:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 180-69392/2-A	1	T	13:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22756-9	1	T	13:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			13:29																				
ZZZZZZ			13:37																				
ZZZZZZ			13:45																				
ZZZZZZ			13:53																				
ZZZZZZ			14:02																				
ZZZZZZ			14:10																				
ZZZZZZ			14:18																				
CCV 180-71214/24	1		14:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB2 180-71214/25	1		14:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			14:43																				
ZZZZZZ			14:51																				
ZZZZZZ			14:59																				
ZZZZZZ			15:07																				
ZZZZZZ			15:15																				
ZZZZZZ			15:24																				
ZZZZZZ			15:32																				
ZZZZZZ			15:40																				
ZZZZZZ			15:48																				
ZZZZZZ			15:56																				
CCV 180-71214/36			16:05																				
CCB3 180-71214/37			16:13																				
ZZZZZZ			16:21																				
ZZZZZZ			16:29																				
ZZZZZZ			16:37																				
ZZZZZZ			16:46																				
ZZZZZZ			16:54																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 05/07/2013 10:59 End Date: 05/08/2013 00:12

Lab Sample ID	D / F	Type	Time	Analytes																				
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			17:02																					
ZZZZZZ			17:10																					
ZZZZZZ			17:18																					
ZZZZZZ			17:27																					
ZZZZZZ			17:35																					
CCV 180-71214/48			17:43																					
CCB4 180-71214/49			17:51																					
ZZZZZZ			17:59																					
ZZZZZZ			18:08																					
ZZZZZZ			18:16																					
ZZZZZZ			18:24																					
ZZZZZZ			18:32																					
ZZZZZZ			18:41																					
ZZZZZZ			18:49																					
ZZZZZZ			18:57																					
ZZZZZZ			19:05																					
ZZZZZZ			19:13																					
CCV 180-71214/60			19:22																					
CCB5 180-71214/61			19:30																					
ZZZZZZ			19:38																					
ZZZZZZ			19:46																					
ZZZZZZ			19:55																					
ZZZZZZ			20:03																					
ZZZZZZ			20:11																					
ZZZZZZ			20:19																					
ZZZZZZ			20:28																					
ZZZZZZ			20:36																					
ZZZZZZ			20:44																					
ZZZZZZ			20:52																					
CCV 180-71214/72			21:00																					
CCB6 180-71214/73			21:09																					
CRI 180-71214/74	1		21:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 180-71214/75			21:25																					
CCV 180-71214/76			21:33																					
CCB7 180-71214/77			21:42																					
ZZZZZZ			21:47																					
ZZZZZZ			21:51																					
ZZZZZZ			21:56																					
ZZZZZZ			22:01																					
ZZZZZZ			22:06																					
ZZZZZZ			22:11																					
ZZZZZZ			22:16																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 05/07/2013 10:59 End Date: 05/08/2013 00:12

Lab Sample ID	D / F	Type	Time	Analytes																				
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			22:21																					
ZZZZZZ			22:25																					
ZZZZZZ			22:30																					
CCV 180-71214/88			22:35																					
CCB8 180-71214/89			22:43																					
ZZZZZZ			22:48																					
ZZZZZZ			22:53																					
ZZZZZZ			22:58																					
ZZZZZZ			23:03																					
ZZZZZZ			23:07																					
ZZZZZZ			23:12																					
ZZZZZZ			23:17																					
ZZZZZZ			23:22																					
ZZZZZZ			23:27																					
ZZZZZZ			23:32																					
ZZZZZZ			23:37																					
CCV 180-71214/101			23:42																					
CCB9 180-71214/102			23:50																					
ZZZZZZ			23:55																					
ZZZZZZ			23:59																					
CCV 180-71214/105			00:04																					
CCB10 180-71214/106			00:12																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 05/07/2013 10:59 End Date: 05/08/2013 00:12

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ITUNE 180-71214/1			10:59																				
STD1 180-71214/2 IC	1		11:30	X	X																		
STD2 180-71214/3 IC	1		11:39	X	X																		
STD3 180-71214/4 IC	1		11:44	X	X																		
ICV 180-71214/5	1		11:49	X	X																		
ICB 180-71214/6	1		11:57	X	X																		
CRI 180-71214/7	1		12:06	X	X																		
ICSA 180-71214/8	1		12:15	X	X																		
ICSAB 180-71214/9	1		12:23	X	X																		
CCV 180-71214/10	1		12:31		X																		
CCV 180-71214/11	1		12:40																				
CCV 180-71214/12	1		12:48	X	X																		
CCB1 180-71214/13	1		12:56	X	X																		
MB 180-69392/1-A	1	T	13:04	X	X																		
LCS 180-69392/2-A	1	T	13:13	X	X																		
240-22756-9	1	T	13:21	X	X																		
ZZZZZZ			13:29																				
ZZZZZZ			13:37																				
ZZZZZZ			13:45																				
ZZZZZZ			13:53																				
ZZZZZZ			14:02																				
ZZZZZZ			14:10																				
ZZZZZZ			14:18																				
CCV 180-71214/24	1		14:26	X	X																		
CCB2 180-71214/25	1		14:34	X	X																		
ZZZZZZ			14:43																				
ZZZZZZ			14:51																				
ZZZZZZ			14:59																				
ZZZZZZ			15:07																				
ZZZZZZ			15:15																				
ZZZZZZ			15:24																				
ZZZZZZ			15:32																				
ZZZZZZ			15:40																				
ZZZZZZ			15:48																				
ZZZZZZ			15:56																				
CCV 180-71214/36			16:05																				
CCB3 180-71214/37			16:13																				
ZZZZZZ			16:21																				
ZZZZZZ			16:29																				
ZZZZZZ			16:37																				
ZZZZZZ			16:46																				
ZZZZZZ			16:54																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 05/07/2013 10:59 End Date: 05/08/2013 00:12

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			17:02																				
ZZZZZZ			17:10																				
ZZZZZZ			17:18																				
ZZZZZZ			17:27																				
ZZZZZZ			17:35																				
CCV 180-71214/48			17:43																				
CCB4 180-71214/49			17:51																				
ZZZZZZ			17:59																				
ZZZZZZ			18:08																				
ZZZZZZ			18:16																				
ZZZZZZ			18:24																				
ZZZZZZ			18:32																				
ZZZZZZ			18:41																				
ZZZZZZ			18:49																				
ZZZZZZ			18:57																				
ZZZZZZ			19:05																				
ZZZZZZ			19:13																				
CCV 180-71214/60			19:22																				
CCB5 180-71214/61			19:30																				
ZZZZZZ			19:38																				
ZZZZZZ			19:46																				
ZZZZZZ			19:55																				
ZZZZZZ			20:03																				
ZZZZZZ			20:11																				
ZZZZZZ			20:19																				
ZZZZZZ			20:28																				
ZZZZZZ			20:36																				
ZZZZZZ			20:44																				
ZZZZZZ			20:52																				
CCV 180-71214/72			21:00																				
CCB6 180-71214/73			21:09																				
CRI 180-71214/74	1		21:17	X	X																		
CRI 180-71214/75			21:25																				
CCV 180-71214/76			21:33																				
CCB7 180-71214/77			21:42																				
ZZZZZZ			21:47																				
ZZZZZZ			21:51																				
ZZZZZZ			21:56																				
ZZZZZZ			22:01																				
ZZZZZZ			22:06																				
ZZZZZZ			22:11																				
ZZZZZZ			22:16																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 05/07/2013 10:59 End Date: 05/08/2013 00:12

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			22:21																				
ZZZZZZ			22:25																				
ZZZZZZ			22:30																				
CCV 180-71214/88			22:35																				
CCB8 180-71214/89			22:43																				
ZZZZZZ			22:48																				
ZZZZZZ			22:53																				
ZZZZZZ			22:58																				
ZZZZZZ			23:03																				
ZZZZZZ			23:07																				
ZZZZZZ			23:12																				
ZZZZZZ			23:17																				
ZZZZZZ			23:22																				
ZZZZZZ			23:27																				
ZZZZZZ			23:32																				
ZZZZZZ			23:37																				
CCV 180-71214/101			23:42																				
CCB9 180-71214/102			23:50																				
ZZZZZZ			23:55																				
ZZZZZZ			23:59																				
CCV 180-71214/105			00:04																				
CCB10 180-71214/106			00:12																				

Prep Types

R = Total Recoverable

T = Total/NA

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 05/07/2013 End Date: 05/07/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Y-89	Q	Element Rh-103	Q	Element In	Q
STD1 180-71214/2 IC	11:30	100		100		100		100		100	
STD2 180-71214/3 IC	11:39	91		89		87		80		86	
STD3 180-71214/4 IC	11:44	93		91		90		90		91	
ICV 180-71214/5	11:49	94		87		94		82		86	
ICB 180-71214/6	11:57	108		113		114		114		114	
CRI 180-71214/7	12:06	119		117		115		108		108	
ICSA 180-71214/8	12:15	81		70		67		70		74	
ICSAB 180-71214/9	12:23	84		72		67		70		75	
CCV 180-71214/10	12:31	78		73		68		76		84	
CCV 180-71214/11	12:40	90		101		111		91		102	
CCV 180-71214/12	12:48	93		94		95		92		91	
CCB1 180-71214/13	12:56	114		119		121		122		119	
MB 180-69392/1-A	13:04	113		118		116		116		113	
LCS 180-69392/2-A	13:13	95		93		79		80		80	
240-22756-9	13:21	87		86		0		78		81	
CCV 180-71214/24	14:26	89		82		83		78		82	
CCB2 180-71214/25	14:34	119		119		105		105		103	
CRI 180-71214/74	21:17	96		90		93		89		87	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

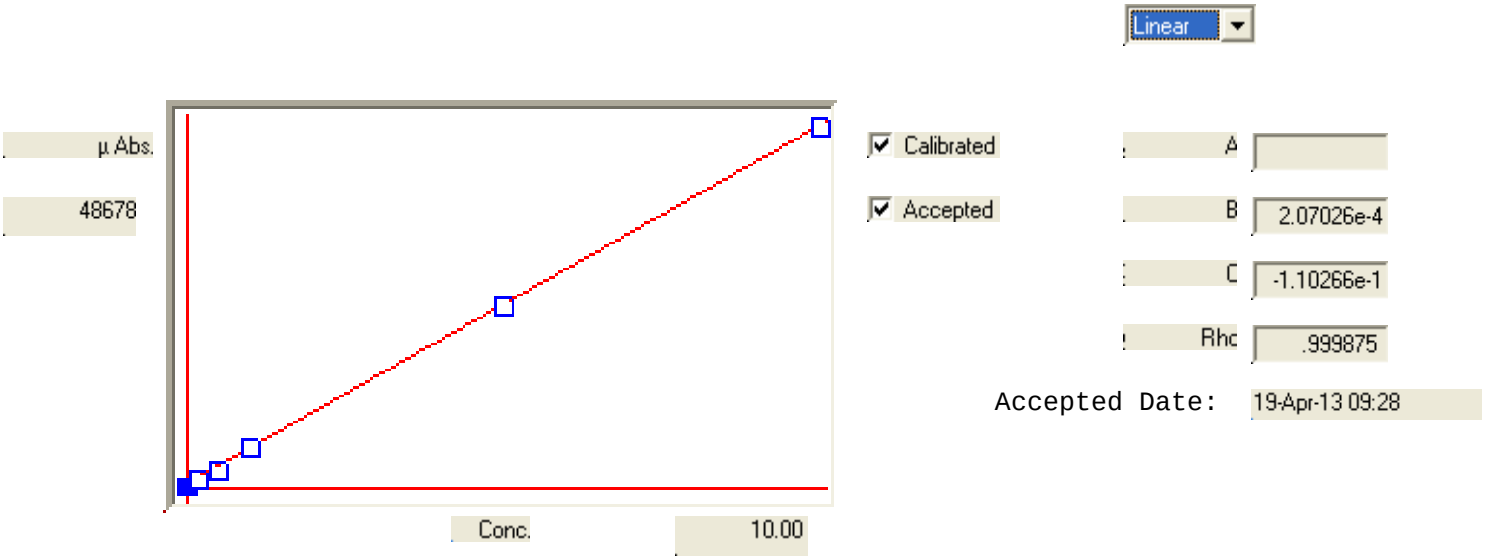
Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 05/07/2013 End Date: 05/07/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
STD1 180-71214/2 IC	11:30	100		100		100					
STD2 180-71214/3 IC	11:39	90		90		76					
STD3 180-71214/4 IC	11:44	91		92		93					
ICV 180-71214/5	11:49	88		88		80					
ICB 180-71214/6	11:57	110		111		112					
CRI 180-71214/7	12:06	107		107		108					
ICSA 180-71214/8	12:15	76		76		67					
ICSAB 180-71214/9	12:23	76		76		66					
CCV 180-71214/10	12:31	70		70		72					
CCV 180-71214/11	12:40	109		109		77					
CCV 180-71214/12	12:48	93		93		83					
CCB1 180-71214/13	12:56	114		114		114					
MB 180-69392/1-A	13:04	110		109		108					
LCS 180-69392/2-A	13:13	85		91		67					
240-22756-9	13:21	84		84		70					
CCV 180-71214/24	14:26	84		84		71					
CCB2 180-71214/25	14:34	99		99		98					
CRI 180-71214/74	21:17	87		88		88					

Protocol: 0419AHG1



S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
01	.00000	.0019	.0019	543	0	542				
02	.20000	.1334	-.0666	1177	0%	1177				
03	.50000	.4502	-.0498	2707	0%	2707				
04	1.0000	1.098	.0977	5835	0%	5835				
05	5.0000	5.049	.0494	24923	0%	24923				
06	10.000	9.967	-.0327	48679	0%	48678				
07										
08										
09										
10										

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Standard: 1 Rep: 1				Seq: 1		09:14:00 19 Apr 13			HG
Hg	.0000	ppb	2544						
*** Standard: 2 Rep: 1				Seq: 2		09:15:49 19 Apr 13			HG
Hg	.2000	ppb	1228						
*** Standard: 1 Rep: 1				Seq: 3		09:18:02 19 Apr 13			HG
Hg	.0000	ppb	1059						
*** Standard: 1 Rep: 1				Seq: 4		09:20:00 19 Apr 13			HG
Hg	.0000	ppb	542						
*** Standard: 2 Rep: 1				Seq: 5		09:21:37 19 Apr 13			HG
Hg	.2000	ppb	1177						
*** Standard: 3 Rep: 1				Seq: 6		09:23:08 19 Apr 13			HG
Hg	.5000	ppb	2707						
*** Standard: 4 Rep: 1				Seq: 7		09:24:36 19 Apr 13			HG
Hg	1.000	ppb	5835						
*** Standard: 5 Rep: 1				Seq: 8		09:26:13 19 Apr 13			HG
Hg	5.000	ppb	24923						
*** Standard: 6 Rep: 1				Seq: 9		09:27:30 19 Apr 13			HG
Hg	10.00	ppb	48678						

*** Check Standard: 2 Ck2ICV Seq: 10 09:29:54 19 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.7	2.542	2.500	ppb	.0000

*** Check Standard: 3 Ck3ICB Seq: 11 09:31:32 19 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		^^^^^^	.0123	.0000	ppb	.0000

*** Check Standard: 4 Ck4CRA\MRL Seq: 12 09:32:59 19 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		72.71	.1454	.2000	ppb	.0000

*** Check Standard: 6 Ck6CCV Seq: 13 09:34:45 19 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.3	5.014	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 14 09:36:44 19 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0188	.2000	ppb	.0000

*** Sample ID: Seq: 15 09:37:59 19 Apr 13 HG
MB 240-82498/1-A

Hg	-.0829	ppb	.0000	-.0829	

*** Sample ID: Seq: 16 09:39:15 19 Apr 13 HG
LCS 240-82498/2-A

Hg	4.728	ppb	.0000	4.728	

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Sample ID:				Seq: 17		09:41:14 19 Apr 13			HG
				240-23018-P-4-A					
Hg	.0131	ppb	.0000	.0131					
*** Sample ID:				Seq: 18		09:43:24 19 Apr 13			HG
				240-23018-P-4-B MS					
Hg	3.164	ppb	.0000	3.164					
*** Sample ID:				Seq: 19		09:45:05 19 Apr 13			HG
				240-23018-P-4-C MSD					
Hg	1.016	ppb	.0000	1.016					
*** Sample ID:				Seq: 20		09:46:54 19 Apr 13			HG
				240-23018-F-1-B					
Hg	-.0544	ppb	.0000	-.0544					
*** Sample ID:				Seq: 21		09:48:11 19 Apr 13			HG
				240-23018-E-2-B					
Hg	.0692	ppb	.0000	.0692					
*** Sample ID:				Seq: 22		09:49:40 19 Apr 13			HG
				240-23018-E-3-B					
Hg	-.0388	ppb	.0000	-.0388					
*** Sample ID:				Seq: 23		09:51:08 19 Apr 13			HG
				240-23018-E-5-B					
Hg	-.0142	ppb	.0000	-.0142					
*** Sample ID:				Seq: 24		09:52:24 19 Apr 13			HG
				240-23018-E-6-B					
Hg	.1727	ppb	.0000	.1727					

*** Check Standard: 6 Ck6CCV Seq: 25 09:53:44 19 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.48	4.974	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 26 09:55:23 19 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0163	.2000	ppb	.0000

*** Sample ID:				Seq: 27		09:56:59 19 Apr 13			HG
				240-23018-F-7-B					
Hg	-.0225	ppb	.0000	-.0225					
*** Sample ID:				Seq: 28		09:58:56 19 Apr 13			HG
				240-23018-E-8-B					
Hg	-.0359	ppb	.0000	-.0359					
*** Sample ID:				Seq: 29		10:00:14 19 Apr 13			HG
				240-23018-E-9-B					
Hg	-.0177	ppb	.0000	-.0177					
*** Sample ID:				Seq: 30		10:01:52 19 Apr 13			HG
				240-23182-C-18-C					
Hg	-.0496	ppb	.0000	-.0496					
*** Sample ID:				Seq: 31		10:03:10 19 Apr 13			HG
				240-23185-D-13-B					
Hg	-.0169	ppb	.0000	-.0169					
*** Sample ID:				Seq: 32		10:04:36 19 Apr 13			HG
				MB 240-82367/1-A					
Hg	-.0569	ppb	.0000	-.0569					

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 33	10:06:06 19 Apr 13	HG		
				LCS 240-82367/2-A				
Hg	4.698	ppb	.0000	4.698				
*** Sample ID:				Seq: 34	10:07:23 19 Apr 13	HG		
				240-22852-I-1-J				
Hg	.1614	ppb	.0000	.1614				
*** Sample ID:				Seq: 35	10:08:50 19 Apr 13	HG		
				240-22852-I-1-K DU				
Hg	-.0055	ppb	.0000	-.0055				
*** Sample ID:				Seq: 36	10:10:08 19 Apr 13	HG		
				240-22852-I-1-L MS				
Hg	.9627	ppb	.0000	.9627				
*** Check Standard: 6 Ck6CCV				Seq: 37	10:11:34 19 Apr 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		98.77	4.938	5.000	ppb	.0000		
*** Check Standard: 1 Ck1CCB				Seq: 38	10:13:30 19 Apr 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.0128	.2000	ppb	.0000			
*** Sample ID:				Seq: 39	10:15:58 19 Apr 13	HG		
				240-22852-C-2-D				
Hg	.0183	ppb	.0000	.0183				
*** Sample ID:				Seq: 40	10:17:37 19 Apr 13	HG		
				240-22663-C-39-C				
Hg	.0115	ppb	.0000	.0115				
*** Sample ID:				Seq: 41	10:18:53 19 Apr 13	HG		
				240-22663-C-40-D				
Hg	.0125	ppb	.0000	.0125				
*** Sample ID:				Seq: 42	10:20:21 19 Apr 13	HG		
				240-22663-C-41-D				
Hg	.0036	ppb	.0000	.0036				
*** Sample ID:				Seq: 43	10:21:56 19 Apr 13	HG		
				240-22663-C-43-D				
Hg	-.0049	ppb	.0000	-.0049				
*** Sample ID:				Seq: 44	10:23:38 19 Apr 13	HG		
				240-22663-C-44-F				
Hg	.0237	ppb	.0000	.0237				
*** Sample ID:				Seq: 45	10:25:25 19 Apr 13	HG		
				240-22756-C-9-A				
Hg	.1905	ppb	.0000	.1905				
*** Sample ID:				Seq: 46	10:27:05 19 Apr 13	HG		
				240-22804-G-4-G				
Hg	-.0065	ppb	.0000	-.0065				
*** Check Standard: 4 Ck4CRA\MRL				Seq: 47	10:28:31 19 Apr 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		65.36	.1307	.2000	ppb	.0000		
*** Check Standard: 4 Ck4CRA\MRL				Seq: 48	10:33:51 19 Apr 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		65.67	.1313	.2000	ppb	.0000		

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 6 Ck6CCV Seq: 49 10:35:25 19 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.04	4.902	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 50 10:37:56 19 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0202	.2000	ppb	.0000

*** Sample ID: Seq: 51 10:39:23 19 Apr 13 HG
LCS 240-82350/2-A

Hg	4.759	ppb	.0000	4.759

*** Sample ID: Seq: 52 10:40:49 19 Apr 13 HG
240-23185-J-2-A

Hg	-.0039	ppb	.0000	-.0039

*** Sample ID: Seq: 53 10:42:10 19 Apr 13 HG
240-23185-J-2-B MS

Hg	.9599	ppb	.0000	.9599

*** Sample ID: Seq: 54 10:43:43 19 Apr 13 HG
240-23185-J-2-C MSD

Hg	1.052	ppb	.0000	1.052

*** Sample ID: Seq: 55 10:45:39 19 Apr 13 HG
240-23185-D-3-A

Hg	.0212	ppb	.0000	.0212

*** Sample ID: Seq: 56 10:47:06 19 Apr 13 HG
240-23185-D-4-A

Hg	-.0177	ppb	.0000	-.0177

*** Sample ID: Seq: 57 10:48:35 19 Apr 13 HG
240-23185-D-5-A

Hg	.0262	ppb	.0000	.0262

*** Sample ID: Seq: 58 10:50:01 19 Apr 13 HG
240-23185-D-6-A

Hg	-.0039	ppb	.0000	-.0039

*** Sample ID: Seq: 59 10:51:20 19 Apr 13 HG
240-23185-D-7-A

Hg	-.0051	ppb	.0000	-.0051

*** Sample ID: Seq: 60 10:52:40 19 Apr 13 HG
240-23185-D-8-A

Hg	.0040	ppb	.0000	.0040

*** Check Standard: 6 Ck6CCV Seq: 61 10:54:18 19 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.03	4.852	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 62 10:55:45 19 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0250	.2000	ppb	.0000

*** Sample ID: Seq: 63 10:57:01 19 Apr 13 HG
240-23185-D-9-A

Hg	.0874	ppb	.0000	.0874

*** Sample ID: Seq: 64 10:58:28 19 Apr 13 HG
240-23185-D-10-A

Hg	.0032	ppb	.0000	.0032

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Sample ID:				Seq: 65					10:59:58 19 Apr 13 HG
				240-23185-D-11-A					
Hg	.1204	ppb	.0000	.1204					
*** Sample ID:				Seq: 66					11:01:39 19 Apr 13 HG
				240-23185-D-12-A					
Hg	-.0140	ppb	.0000	-.0140					
*** Sample ID:				Seq: 67					11:02:56 19 Apr 13 HG
				240-23195-B-1-B					
Hg	.0133	ppb	.0000	.0133					
*** Sample ID:				Seq: 68					11:04:23 19 Apr 13 HG
				240-23195-B-2-B					
Hg	.0005	ppb	.0000	.0005					
*** Sample ID:				Seq: 69					11:06:20 19 Apr 13 HG
				240-23195-B-3-B					
Hg	-.0349	ppb	.0000	-.0349					
*** Sample ID:				Seq: 70					11:07:57 19 Apr 13 HG
				240-23195-A-4-B					
Hg	.0266	ppb	.0000	.0266					
*** Sample ID:				Seq: 71					11:09:14 19 Apr 13 HG
				240-23195-B-39-B					
Hg	-.0769	ppb	.0000	-.0769					
*** Sample ID:				Seq: 72					11:10:45 19 Apr 13 HG
				240-23195-B-40-B					
Hg	.2044	ppb	.0000	.2044					
*** Check Standard: 6 Ck6CCV				Seq: 73					11:12:04 19 Apr 13 HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		96.49	4.824	5.000	ppb	.0000			
*** Check Standard: 1 Ck1CCB				Seq: 74					11:13:32 19 Apr 13 HG
Line	Flag	Found	Range(+/-)	Units	SD/RSD				
Hg		-.0277	.2000	ppb	.0000				
*** Sample ID:				Seq: 75					11:14:49 19 Apr 13 HG
				240-23195-B-41-B					
Hg	.1473	ppb	.0000	.1473					
*** Sample ID:				Seq: 76					11:16:48 19 Apr 13 HG
				240-23195-B-42-B					
Hg	-.0633	ppb	.0000	-.0633					
*** Sample ID:				Seq: 77					11:18:15 19 Apr 13 HG
				240-23195-B-43-B					
Hg	3.668	ppb	.0000	3.668					
*** Sample ID:				Seq: 78					11:19:32 19 Apr 13 HG
				MB 240-82546/1-A					
Hg	-.1065	ppb	.0000	-.1065					
*** Sample ID:				Seq: 79					11:21:25 19 Apr 13 HG
				LCS 240-82546/2-A					
Hg	4.652	ppb	.0000	4.652					
*** Sample ID:				Seq: 80					11:22:45 19 Apr 13 HG
				240-23185-D-14-D					
Hg	-.0598	ppb	.0000	-.0598					

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 81	11:24:06 19 Apr 13	HG		
				240-23185-D-14-E MS				
Hg	.9288	ppb	.0000	.9288				
*** Sample ID:				Seq: 82	11:25:23 19 Apr 13	HG		
				240-23185-D-14-F MSD				
Hg	.9168	ppb	.0000	.9168				
*** Sample ID:				Seq: 83	11:27:12 19 Apr 13	HG		
				240-23185-D-15-B				
Hg	.0394	ppb	.0000	.0394				
*** Sample ID:				Seq: 84	11:29:00 19 Apr 13	HG		
				240-23185-D-16-B				
Hg	.0533	ppb	.0000	.0533				
*** Check Standard: 6 Ck6CCV				Seq: 85	11:30:28 19 Apr 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		96.38	4.819	5.000	ppb	.0000		
*** Check Standard: 1 Ck1CCB				Seq: 86	11:31:56 19 Apr 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.0260	.2000	ppb	.0000			
*** Sample ID:				Seq: 87	11:33:12 19 Apr 13	HG		
				240-23185-D-17-B				
Hg	.0496	ppb	.0000	.0496				
*** Sample ID:				Seq: 88	11:34:30 19 Apr 13	HG		
				240-23185-D-18-B				
Hg	.0562	ppb	.0000	.0562				
*** Sample ID:				Seq: 89	11:35:52 19 Apr 13	HG		
				240-23185-D-19-B				
Hg	.0233	ppb	.0000	.0233				
*** Sample ID:				Seq: 90	11:37:34 19 Apr 13	HG		
				240-23185-D-20-B				
Hg	.0576	ppb	.0000	.0576				
*** Sample ID:				Seq: 91	11:38:51 19 Apr 13	HG		
				240-23185-D-21-B				
Hg	-.0258	ppb	.0000	-.0258				
*** Sample ID:				Seq: 92	11:40:50 19 Apr 13	HG		
				240-23185-D-22-B				
Hg	-.0304	ppb	.0000	-.0304				
*** Sample ID:				Seq: 93	11:42:41 19 Apr 13	HG		
				240-23185-D-23-B				
Hg	.0529	ppb	.0000	.0529				
*** Sample ID:				Seq: 94	11:44:01 19 Apr 13	HG		
				240-23185-D-24-B				
Hg	-.0390	ppb	.0000	-.0390				
*** Sample ID:				Seq: 95	11:45:29 19 Apr 13	HG		
				240-23185-D-25-B				
Hg	-.0349	ppb	.0000	-.0349				
*** Sample ID:				Seq: 96	11:47:05 19 Apr 13	HG		
				240-23185-D-26-B				
Hg	.0264	ppb	.0000	.0264				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 6 Ck6CCV Seq: 97 11:48:54 19 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.18	4.809	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 98 11:50:13 19 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0386	.2000	ppb	.0000

*** Sample ID: Seq: 99 11:51:35 19 Apr 13 HG
240-23185-D-27-B

Hg	-.0132	ppb	.0000	-.0132

*** Sample ID: Seq: 100 11:53:14 19 Apr 13 HG
240-23258-F-1-B

Hg	.0997	ppb	.0000	.0997

*** Sample ID: Seq: 101 11:54:33 19 Apr 13 HG
240-23258-F-2-B

Hg	.1090	ppb	.0000	.1090

*** Sample ID: Seq: 102 11:56:10 19 Apr 13 HG
240-23258-F-3-B

Hg	.1148	ppb	.0000	.1148

*** Check Standard: 6 Ck6CCV Seq: 103 11:57:28 19 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.12	4.806	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 104 11:59:05 19 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0306	.2000	ppb	.0000

*** Check Standard: 6 Ck6CCV Seq: 105 14:11:01 19 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		93.50	4.675	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 106 14:12:39 19 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0212	.2000	ppb	.0000

*** Sample ID: Seq: 107 14:13:54 19 Apr 13 HG
LB 240-82595/2-C

Hg	-.0792	ppb	.0000	-.0792

*** Sample ID: Seq: 108 14:15:34 19 Apr 13 HG
MB 240-82683/2-A

Hg	-.0453	ppb	.0000	-.0453

*** Sample ID: Seq: 109 14:16:52 19 Apr 13 HG
LCS 240-82683/3-A

Hg	4.755	ppb	.0000	4.755

*** Sample ID: Seq: 110 14:18:35 19 Apr 13 HG
240-22999-A-2-L

Hg	.0322	ppb	.0000	.0322

*** Sample ID: Seq: 111 14:19:57 19 Apr 13 HG
240-22999-A-2-M MS

Hg	4.658	ppb	.0000	4.658

*** Sample ID: Seq: 112 14:21:17 19 Apr 13 HG
240-22999-A-2-N MSD

Hg	4.604	ppb	.0000	4.604

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 6 Ck6CCV Seq: 113 14:22:37 19 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		95.38	4.769	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 114 14:24:33 19 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0326	.2000	ppb	.0000

TestAmerica North Canton Hg Data Review Checklist

Run/Project Information: _____

Circle Methods used: 7470A / 245.1 : 7471:

Run Date: 4/19/2013 Analyst: A. Sutherland Instrument: H1

Review Items A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits?	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRA run?	✓			✓
B. Sample Results				
1. Were samples with concentrations > high calibration standard diluted and reanalyzed?			✓	
2. All reported results bracketed by in control QC?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/ Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
D. Other				
1. Are all nonconformances documented appropriately?			✓	
2. Current IDL/MDL data on file?	✓			✓
3. Calculations and Transcription checked for error?	✓			✓
4. All client/project specific requirements met?	✓			✓
5. Date of analysis verified as correct?	✓			✓

Level I

Analyst: [signature] Date/Time: 4/22/2013 Reviewed from 9:14 to 14:24

Analyst: _____ Date/Time: _____ Reviewed from _____ to _____

Comments: _____

Level II

Reviewer: Natalie J Toth Date/Time: 4-22-13 Reviewed from 09:14 to 14:24

Reviewer: _____ Date/Time: _____ Reviewed from _____ to _____

Comments _____

Curve Date 4/19/2013 Curve Time 8:15-8:45 DILUTION H20 NA

Revised 11/29/2012

Dilution Corrected Concentrations

STD1 809429 INT STD 5/7/2013 11:30:59 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:31:42	101.182%	-0.008	0.640	-0.037	0.000	-0.116	-0.004	0.089
2	11:32:25	101.550%	0.003	-0.457	-0.424	0.000	-0.857	-0.132	-0.020
3	11:33:08	97.267%	0.004	-0.183	0.461	0.000	0.973	0.136	-0.069
x		100.000%	0.000	0.000	0.000	0.000	0.000	-0.000	-0.000
σ		2.374%	0.007	0.571	0.444	0.000	0.921	0.134	0.081
%RSD		2.374	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:31:42	0.007	-0.707	0.000	-0.772	6.635	0.213	101.014%	-0.056
2	11:32:25	-0.023	-1.157	0.000	0.054	-3.360	-0.239	101.124%	-0.056
3	11:33:08	0.016	1.864	0.000	0.718	-3.275	0.026	97.862%	0.111
x		-0.000	0.000	0.000	-0.000	0.000	0.000	100.000%	0.000
σ		0.020	1.630	0.000	0.747	5.746	0.227	1.852%	0.096
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	1.852	0.000

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:31:42	-0.022	-0.026	-0.001	-0.224	-0.676	0.002	0.003	0.018
2	11:32:25	-0.000	0.014	0.001	0.029	0.175	-0.000	0.003	-0.003
3	11:33:08	0.022	0.013	-0.000	0.195	0.501	-0.002	-0.006	-0.015
x		-0.000	-0.000	0.000	0.000	0.000	-0.000	-0.000	-0.000
σ		0.022	0.023	0.001	0.211	0.608	0.002	0.005	0.017
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:31:42	0.004	-0.060	0.006	0.029	-0.273	0.053	0.000	-0.001
2	11:32:25	-0.010	0.010	-0.078	-0.088	0.176	-0.204	0.000	0.002
3	11:33:08	0.006	0.050	0.072	0.059	0.096	0.152	0.000	-0.001
x		0.000	-0.000	-0.000	0.000	-0.000	0.000	0.000	-0.000
σ		0.009	0.056	0.075	0.077	0.240	0.184	0.000	0.002
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:31:42	100.898%	0.002	-0.000	100.268%	-0.002	0.003	-0.008	-0.006
2	11:32:25	100.720%	0.002	0.007	100.825%	-0.005	0.001	0.023	0.014
3	11:33:08	98.382%	-0.004	-0.007	98.907%	0.007	-0.005	-0.015	-0.008
x		100.000%	-0.000	0.000	100.000%	0.000	-0.000	0.000	0.000
σ		1.404%	0.003	0.007	0.986%	0.006	0.004	0.020	0.012
%RSD		1.404	0.000	0.000	0.986	0.000	0.000	0.000	0.000

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:31:42	100.548%	0.017	-0.001	-0.008	-0.024	-0.010	99.558%	100.031%
2	11:32:25	100.145%	-0.005	-0.006	0.010	0.031	0.007	101.239%	100.962%
3	11:33:08	99.307%	-0.012	0.007	-0.002	-0.007	0.003	99.203%	99.007%
x		100.000%	0.000	-0.000	-0.000	0.000	0.000	100.000%	100.000%
σ		0.633%	0.015	0.006	0.009	0.028	0.009	1.088%	0.978%
%RSD		0.633	0.000	0.000	0.000	0.000	0.000	1.088	0.978

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	11:31:42	0.000	-0.000	0.000	-0.002	-0.000	100.786%
2	11:32:25	-0.001	0.001	-0.003	0.002	-0.001	101.586%
3	11:33:08	0.001	-0.001	0.003	-0.000	0.001	97.628%
x		-0.000	0.000	0.000	-0.000	-0.000	100.000%
σ		0.001	0.001	0.003	0.002	0.001	2.093%
%RSD		0.000	0.000	0.000	0.000	0.000	2.093

STD2 806388 5/7/2013 11:39:59 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:40:42	90.311%	197.700	-2.028	-2.158	0.000	96770.000	97260.000	96870.000
2	11:41:25	90.534%	196.400	-2.967	-2.601	0.000	99150.000	98800.000	98870.000
3	11:42:08	92.918%	205.900	-3.905	-2.501	0.000	104100.000	103900.000	104300.000
x		91.254%	200.000	-2.967	-2.420	0.000	100000.000	100000.000	100000.000
σ		1.445%	5.131	0.939	0.233	0.000	3729.000	3495.000	3820.000
%RSD		1.583	2.566	31.640	9.606	0.000	3.729	3.495	3.820

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:40:42	963.300	7.020	0.000	97200.000	97690.000	96110.000	89.555%	0.090
2	11:41:25	994.500	9.243	0.000	97550.000	97320.000	97930.000	88.257%	-0.042
3	11:42:08	1042.000	8.452	0.000	105200.000	105000.000	106000.000	89.004%	-0.010
x		1000.000	8.238	0.000	100000.000	100000.000	100000.000	88.939%	0.013
σ		39.800	1.127	0.000	4550.000	4327.000	5245.000	0.651%	0.069
%RSD		3.980	13.680	0.000	4.550	4.327	5.245	0.732	544.200

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:40:42	191.500	193.500	976.500	48760.000	48080.000	191.700	193.400	193.400
2	11:41:25	196.900	196.100	977.900	48810.000	49190.000	195.100	194.700	194.300
3	11:42:08	211.600	210.400	1046.000	52430.000	52730.000	213.300	212.000	212.300
x		200.000	200.000	1000.000	50000.000	50000.000	200.000	200.000	200.000
σ		10.390	9.115	39.500	2105.000	2425.000	11.610	10.370	10.620
%RSD		5.195	4.557	3.950	4.211	4.850	5.805	5.187	5.312

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:40:42	193.600	194.500	195.400	196.000	193.200	195.200	0.000	194.700
2	11:41:25	194.600	196.400	195.700	195.900	197.400	195.000	0.000	195.400
3	11:42:08	211.800	209.100	208.800	208.100	209.500	209.800	0.000	209.800
x		200.000	200.000	200.000	200.000	200.000	200.000	0.000	200.000
σ		10.260	7.972	7.644	6.973	8.479	8.509	0.000	8.536
%RSD		5.130	3.986	3.822	3.487	4.240	4.255	0.000	4.268

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:40:42	87.627%	0.220	0.190	80.630%	195.100	196.800	195.900	196.100
2	11:41:25	87.102%	0.261	0.167	80.139%	195.700	195.500	195.500	196.600
3	11:42:08	87.237%	0.301	0.254	79.261%	209.200	207.600	208.600	207.300
x		87.322%	0.261	0.204	80.010%	200.000	200.000	200.000	200.000
σ		0.273%	0.041	0.045	0.693%	8.009	6.628	7.457	6.347
%RSD		0.312	15.710	22.320	0.867	4.005	3.314	3.728	3.174

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:40:42	86.263%	0.088	0.088	0.069	195.700	194.800	90.402%	91.649%
2	11:41:25	85.541%	0.105	0.074	0.135	194.800	195.900	90.756%	90.128%
3	11:42:08	85.150%	0.113	0.065	0.106	209.600	209.300	87.881%	89.376%
x		85.651%	0.102	0.076	0.103	200.000	200.000	89.680%	90.384%
σ		0.565%	0.013	0.011	0.033	8.284	8.031	1.568%	1.158%
%RSD		0.659	12.620	14.950	32.260	4.142	4.016	1.748	1.281

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	11:40:42	188.800	187.800	187.700	189.500	188.400	79.885%
2	11:41:25	189.400	189.900	188.600	189.200	189.800	78.896%
3	11:42:08	221.800	222.300	223.600	221.300	221.800	69.698%
x		200.000	200.000	200.000	200.000	200.000	76.160%
σ		18.870	19.340	20.480	18.470	18.850	5.618%
%RSD		9.435	9.669	10.240	9.237	9.425	7.376

STD3 806389 5/7/2013 11:44:46 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:45:29	97.062%	0.183	197.400	195.300	0.000	76.390	66.480	63.320
2	11:46:12	90.846%	0.095	204.800	205.900	0.000	78.350	65.720	64.460
3	11:46:55	91.304%	0.107	197.900	198.800	0.000	74.010	60.020	61.930
x		93.071%	0.128	200.000	200.000	0.000	76.250	64.080	63.230
σ		3.464%	0.048	4.141	5.433	0.000	2.175	3.530	1.267
%RSD		3.722	37.240	2.071	2.717	0.000	2.852	5.509	2.004

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:45:29	15.560	10070.000	0.000	72.300	64.620	144.500	92.894%	199.500
2	11:46:12	14.960	10100.000	0.000	70.130	53.110	146.400	89.815%	201.700
3	11:46:55	14.770	9833.000	0.000	63.130	72.830	144.600	89.717%	198.700
x		15.100	10000.000	0.000	68.520	63.520	145.200	90.808%	200.000
σ		0.415	145.200	0.000	4.794	9.904	1.026	1.807%	1.547
%RSD		2.746	1.452	0.000	6.997	15.590	0.707	1.990	0.773

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:45:29	0.077	0.065	2.121	51.330	54.620	0.115	0.218	0.338
2	11:46:12	0.115	0.069	2.096	45.910	51.150	0.136	0.214	0.331
3	11:46:55	0.087	0.010	2.017	40.510	45.310	0.109	0.205	0.217
x		0.093	0.048	2.078	45.920	50.360	0.120	0.213	0.295
σ		0.019	0.033	0.054	5.411	4.704	0.014	0.007	0.068
%RSD		20.920	68.960	2.612	11.790	9.340	11.510	3.201	23.080

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:45:29	0.400	1.855	1.991	0.584	1.154	0.986	0.000	0.281
2	11:46:12	0.260	2.144	1.961	0.280	0.821	0.090	0.000	0.254
3	11:46:55	0.445	1.977	2.124	0.258	0.298	0.188	0.000	0.236
x		0.368	1.992	2.025	0.374	0.758	0.421	0.000	0.257
σ		0.097	0.145	0.087	0.183	0.431	0.492	0.000	0.022
%RSD		26.220	7.280	4.289	48.820	56.900	116.700	0.000	8.758

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:45:29	90.166%	196.900	196.700	90.303%	0.186	0.182	0.363	-0.431
2	11:46:12	90.025%	198.000	199.100	89.907%	0.169	0.177	0.146	-0.323
3	11:46:55	88.934%	205.100	204.200	89.003%	0.172	0.167	0.201	-0.603
x		89.708%	200.000	200.000	89.737%	0.176	0.175	0.237	-0.452
σ		0.675%	4.459	3.805	0.666%	0.009	0.008	0.113	0.141
%RSD		0.752	2.229	1.903	0.742	5.089	4.399	47.690	31.250

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:45:29	90.108%	200.000	198.000	198.600	0.219	0.388	89.978%	90.583%
2	11:46:12	91.383%	199.400	200.000	201.400	0.240	0.396	91.939%	92.419%
3	11:46:55	90.974%	200.600	202.000	199.900	0.188	0.348	91.978%	92.903%
x		90.822%	200.000	200.000	200.000	0.216	0.377	91.298%	91.968%
σ		0.651%	0.587	1.981	1.403	0.026	0.026	1.143%	1.224%
%RSD		0.717	0.294	0.990	0.701	11.990	6.866	1.252	1.331

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	11:45:29	0.102	0.115	0.203	0.172	0.172	92.284%
2	11:46:12	0.110	0.105	0.205	0.162	0.183	93.171%
3	11:46:55	0.103	0.100	0.182	0.180	0.173	92.755%
x		0.105	0.107	0.197	0.171	0.176	92.737%
σ		0.004	0.007	0.013	0.009	0.006	0.444%
%RSD		3.923	6.773	6.506	5.324	3.385	0.478

ICV 806391 5/7/2013 11:49:34 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:50:18	93.453%	81.440	99.350	100.300	0.000	40100.000	40540.000	40370.000
2	11:51:01	91.468%	82.850	102.900	102.800	0.000	40120.000	39950.000	39800.000
3	11:51:44	95.621%	81.730	100.500	98.730	0.000	38990.000	39500.000	39620.000
x		93.514%	102.510%	126.165%	125.764%	0.000	99.336%	99.995%	99.832%
σ		2.077%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		2.221	0.903	1.813	2.037	0.000	1.626	1.313	0.985
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:50:18	425.900	5526.000	0.000	40660.000	40300.000	37980.000	87.055%	84.230
2	11:51:01	419.800	5517.000	0.000	39950.000	38980.000	37280.000	87.293%	80.340
3	11:51:44	413.500	5560.000	0.000	40410.000	39350.000	37540.000	87.532%	85.240
x		104.931%	138.361%	0.000	100.853%	98.863%	93.996%	87.293%	104.092%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.238%	n/a
%RSD		1.471	0.412	0.000	0.893	1.719	0.946	0.273	3.106
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:50:18	81.590	81.190	400.400	19940.000	19900.000	79.440	81.780	82.060
2	11:51:01	80.180	80.480	396.800	19690.000	19720.000	79.210	81.340	82.070
3	11:51:44	82.300	81.450	400.300	19870.000	19980.000	80.290	81.190	82.490
x		101.696%	101.304%	99.794%	99.173%	99.336%	99.558%	101.795%	102.756%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.325	0.621	0.514	0.637	0.694	0.714	0.377	0.298
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:50:18	83.920	84.780	83.560	79.720	79.040	76.640	0.000	73.010
2	11:51:01	81.890	85.860	81.790	76.960	79.480	80.910	0.000	73.050
3	11:51:44	82.880	83.050	80.490	78.330	81.080	79.510	0.000	72.770
x		103.617%	105.704%	102.434%	97.922%	99.833%	98.775%	0.000	91.179%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.223	1.679	1.876	1.758	1.341	2.757	0.000	0.206
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:50:18	93.897%	81.830	84.650	82.074%	83.460	83.370	81.190	81.880
2	11:51:01	93.895%	81.140	85.870	82.340%	82.130	82.220	80.740	81.240
3	11:51:44	95.183%	82.350	83.610	82.875%	82.550	83.350	81.970	80.720
x		94.325%	102.219%	105.887%	82.429%	103.393%	103.725%	101.629%	101.599%
σ		0.743%	n/a	n/a	0.408%	n/a	n/a	n/a	n/a
%RSD		0.788	0.741	1.336	0.495	0.824	0.797	0.767	0.715
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:50:18	84.237%	83.730	83.990	84.320	81.120	79.860	87.082%	87.270%
2	11:51:01	85.807%	83.580	81.620	81.710	83.070	79.290	87.974%	88.219%
3	11:51:44	86.519%	82.340	82.530	81.970	79.510	80.740	87.787%	89.051%
x		85.521%	104.021%	103.389%	103.336%	101.544%	99.953%	87.614%	88.180%
σ		1.167%	n/a	n/a	n/a	n/a	n/a	0.471%	0.891%
%RSD		1.365	0.914	1.444	1.741	2.193	0.910	0.537	1.011
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	11:50:18	78.660	78.360	74.760	78.550	76.470	79.726%		
2	11:51:01	78.870	78.180	76.700	79.410	77.190	79.751%		
3	11:51:44	79.610	79.730	76.910	79.000	77.580	79.985%		
x		98.811%	98.448%	95.158%	98.734%	96.347%	79.820%		
σ		n/a	n/a	n/a	n/a	n/a	0.143%		
%RSD		0.630	1.078	1.558	0.547	0.730	0.179		

ICB 5/7/2013 11:57:50 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:58:33	106.298%	0.035	-3.432	-2.940	0.000	3.231	1.948	1.991
2	11:59:16	110.888%	0.022	-4.380	-3.745	0.000	10.840	11.620	10.230
3	11:59:59	107.863%	0.044	-3.426	-5.081	0.000	11.970	9.788	9.096
x		108.350%	0.034	-3.746	-3.922	0.000	8.678	7.784	7.105
σ		2.333%	0.011	0.549	1.081	0.000	4.751	5.136	4.465
%RSD		2.153	33.050	14.660	27.570	0.000	54.750	65.980	62.840
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:58:33	0.805	1.207	0.000	5.981	-3.609	1.844	112.721%	-0.117
2	11:59:16	3.219	1.198	0.000	11.280	7.533	11.560	113.218%	-0.065
3	11:59:59	2.804	2.383	0.000	13.290	5.205	9.699	114.444%	-0.282
x		2.276	1.596	0.000	10.180	3.043	7.702	113.461%	-0.155
σ		1.291	0.681	0.000	3.777	5.877	5.158	0.887%	0.113
%RSD		56.720	42.680	0.000	37.080	193.100	66.970	0.781	73.300
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:58:33	0.030	0.046	0.068	4.777	3.423	-0.001	0.048	-0.018
2	11:59:16	0.020	0.020	0.424	12.820	9.103	0.033	0.039	0.013
3	11:59:59	0.059	0.092	0.378	8.898	6.281	0.022	0.023	0.034
x		0.036	0.053	0.290	8.831	6.269	0.018	0.037	0.010
σ		0.020	0.036	0.194	4.021	2.840	0.017	0.013	0.026
%RSD		55.850	68.940	66.680	45.530	45.300	95.200	34.660	267.200
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:58:33	0.045	-0.028	0.027	-0.154	0.332	-0.527	0.000	0.013
2	11:59:16	0.050	0.039	0.157	-0.098	0.083	-0.364	0.000	0.041
3	11:59:59	0.075	0.126	0.146	0.042	0.316	0.311	0.000	0.034
x		0.056	0.046	0.110	-0.070	0.244	-0.193	0.000	0.029
σ		0.016	0.077	0.072	0.101	0.139	0.444	0.000	0.015
%RSD		28.550	169.100	65.500	144.800	57.170	229.700	0.000	50.100
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:58:33	111.559%	0.333	0.324	112.384%	-0.005	0.004	0.107	0.064
2	11:59:16	115.143%	0.339	0.327	114.796%	0.017	0.002	0.103	0.071
3	11:59:59	115.398%	0.281	0.301	114.611%	0.016	0.006	0.065	0.063
x		114.033%	0.318	0.317	113.930%	0.010	0.004	0.092	0.066
σ		2.147%	0.032	0.014	1.343%	0.012	0.002	0.023	0.004
%RSD		1.883	10.090	4.515	1.178	129.000	46.680	25.230	6.587
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:58:33	110.966%	0.096	0.024	0.036	-0.013	0.014	107.849%	108.878%
2	11:59:16	114.424%	0.076	0.039	0.059	0.014	0.080	111.403%	111.491%
3	11:59:59	116.061%	0.086	0.035	0.031	0.055	0.036	111.948%	112.502%
x		113.817%	0.086	0.033	0.042	0.019	0.043	110.400%	110.957%
σ		2.601%	0.010	0.008	0.015	0.034	0.034	2.226%	1.870%
%RSD		2.286	11.470	23.160	35.810	182.400	78.020	2.017	1.685
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	11:58:33	0.002	0.003	0.011	0.019	0.015	108.855%		
2	11:59:16	0.009	0.013	0.044	0.027	0.035	112.861%		
3	11:59:59	0.015	0.016	0.033	0.027	0.032	113.105%		
x		0.008	0.011	0.029	0.025	0.027	111.607%		
σ		0.007	0.007	0.017	0.005	0.010	2.386%		
%RSD		78.210	62.250	57.710	19.690	37.930	2.138		

CRI 806392 5/7/2013 12:06:05 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:06:48	122.014%	0.866	-3.275	-2.655	0.000	88.980	91.340	93.130
2	12:07:31	117.563%	1.057	-3.840	-2.304	0.000	96.360	101.100	100.900
3	12:08:14	116.303%	0.949	-3.621	-1.974	0.000	95.450	100.500	99.760
x		118.627%	95.756%	-71.574%	-46.218%	0.000	93.597%	97.622%	97.930%
σ		3.000%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		2.529	10.000	7.948	14.730	0.000	4.302	5.577	4.281
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:06:48	34.180	451.400	0.000	87.670	94.780	91.190	120.266%	4.961
2	12:07:31	36.430	477.100	0.000	94.950	90.950	95.890	114.547%	5.032
3	12:08:14	36.720	477.600	0.000	96.840	85.790	102.500	115.615%	4.798
x		119.261%	93.745%	0.000	93.157%	90.506%	96.513%	116.809%	98.613%
σ		n/a	n/a	0.000	n/a	n/a	n/a	3.040%	n/a
%RSD		3.878	3.202	0.000	5.197	4.989	5.872	2.603	2.432
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:06:48	0.819	1.743	4.925	55.930	59.950	0.520	0.998	1.887
2	12:07:31	1.074	1.915	5.295	61.580	66.730	0.498	1.037	2.249
3	12:08:14	0.933	1.808	5.252	60.520	67.220	0.479	1.169	2.180
x		94.214%	91.103%	1031.461%	118.689%	129.259%	99.815%	106.783%	105.264%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		13.570	4.765	3.918	5.060	6.288	4.091	8.371	9.110
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:06:48	2.138	5.604	5.684	0.879	4.378	3.950	0.000	4.185
2	12:07:31	2.225	5.753	6.179	1.025	5.323	5.239	0.000	4.530
3	12:08:14	2.042	5.581	6.261	1.206	5.187	4.447	0.000	4.461
x		106.754%	112.926%	120.825%	103.702%	99.252%	90.911%	0.000	87.838%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		4.285	1.654	5.172	15.780	10.290	14.310	0.000	4.152
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:06:48	116.217%	4.095	4.230	108.066%	0.964	0.955	1.073	1.143
2	12:07:31	114.516%	4.500	4.696	107.613%	1.063	1.045	1.127	1.203
3	12:08:14	114.923%	4.490	4.636	107.928%	1.063	1.036	1.137	1.197
x		115.219%	87.236%	90.417%	107.869%	103.011%	101.191%	111.259%	118.120%
σ		0.888%	n/a	n/a	0.232%	n/a	n/a	n/a	n/a
%RSD		0.771	5.293	5.607	0.215	5.587	4.901	3.085	2.817
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:06:48	107.285%	4.660	1.978	2.033	9.101	9.042	105.966%	106.700%
2	12:07:31	107.785%	5.025	1.964	2.134	9.721	9.971	106.039%	105.963%
3	12:08:14	107.978%	5.231	2.034	2.051	10.020	9.913	107.531%	108.520%
x		107.683%	99.437%	99.607%	103.628%	96.135%	96.419%	106.512%	107.061%
σ		0.358%	n/a	n/a	n/a	n/a	n/a	0.884%	1.316%
%RSD		0.332	5.813	1.849	2.592	4.866	5.392	0.830	1.229
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	12:06:48	0.873	0.813	0.881	0.848	0.880	107.607%		
2	12:07:31	0.918	0.861	0.939	0.927	0.941	106.642%		
3	12:08:14	0.901	0.895	0.967	0.902	0.921	108.503%		
x		89.763%	85.647%	92.926%	89.252%	91.392%	107.584%		
σ		n/a	n/a	n/a	n/a	n/a	0.931%		
%RSD		2.547	4.850	4.736	4.588	3.441	0.865		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:16:12	82.998%	0.163	-6.437	-6.019	0.000	95580.000	94950.000	95140.000
2	12:16:55	79.803%	0.184	-4.489	-5.486	0.000	95280.000	94810.000	95600.000
3	12:17:38	81.033%	0.196	-5.767	-6.244	0.000	95430.000	94040.000	94380.000
x		81.278%	0.181	-5.564	-5.916	0.000	95430.000	94600.000	95040.000
σ		1.612%	0.017	0.990	0.389	0.000	148.000	486.200	615.700
%RSD		1.983	9.213	17.790	6.577	0.000	0.155	0.514	0.648

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:16:12	93760.000	27.590	0.000	97920.000	99830.000	94090.000	70.870%	2251.000
2	12:16:55	93310.000	26.520	0.000	98170.000	98090.000	94440.000	70.275%	2223.000
3	12:17:38	92410.000	26.160	0.000	97710.000	100700.000	94120.000	70.071%	2206.000
x		93160.000	26.760	0.000	97930.000	99540.000	94220.000	70.405%	2227.000
σ		685.000	0.744	0.000	231.100	1331.000	195.800	0.415%	23.010
%RSD		0.735	2.782	0.000	0.236	1.337	0.208	0.589	1.033

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:16:12	-0.536	-0.044	1.358	103900.000	103300.000	0.275	0.260	0.942
2	12:16:55	-0.385	-0.063	1.316	102900.000	103400.000	0.308	0.158	1.149
3	12:17:38	-0.438	-0.127	1.208	102600.000	102400.000	0.235	0.252	1.028
x		-0.453	-0.078	1.294	103100.000	103100.000	0.273	0.223	1.040
σ		0.077	0.044	0.078	703.200	552.900	0.036	0.057	0.104
%RSD		16.980	56.020	6.001	0.682	0.536	13.310	25.490	10.030

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:16:12	1.439	5.273	3.959	0.391	1.061	0.475	0.000	5.077
2	12:16:55	1.317	5.439	4.981	0.463	0.727	0.721	0.000	5.200
3	12:17:38	1.499	5.385	4.717	0.421	0.969	0.403	0.000	5.074
x		1.418	5.366	4.552	0.425	0.919	0.533	0.000	5.117
σ		0.092	0.085	0.530	0.036	0.173	0.167	0.000	0.072
%RSD		6.515	1.584	11.650	8.492	18.780	31.290	0.000	1.407

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:16:12	66.361%	2240.000	2243.000	69.995%	0.182	0.169	0.334	0.467
2	12:16:55	67.223%	2255.000	2262.000	69.132%	0.191	0.170	0.420	0.353
3	12:17:38	67.657%	2254.000	2259.000	69.854%	0.212	0.229	0.060	0.378
x		67.080%	2250.000	2254.000	69.660%	0.195	0.189	0.271	0.399
σ		0.660%	8.132	10.260	0.463%	0.016	0.035	0.188	0.060
%RSD		0.983	0.361	0.455	0.665	8.027	18.300	69.260	15.050

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:16:12	72.610%	1.139	0.420	0.455	0.669	0.701	75.195%	75.132%
2	12:16:55	73.846%	1.011	0.449	0.422	0.742	0.612	76.338%	75.158%
3	12:17:38	74.024%	1.017	0.530	0.455	0.567	0.808	77.490%	78.289%
x		73.493%	1.055	0.466	0.444	0.659	0.707	76.341%	76.193%
σ		0.770%	0.072	0.057	0.019	0.088	0.098	1.148%	1.815%
%RSD		1.047	6.858	12.240	4.221	13.300	13.880	1.503	2.382

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	12:16:12	0.188	0.181	0.860	0.893	0.839	66.296%
2	12:16:55	0.150	0.176	0.787	0.835	0.806	66.707%
3	12:17:38	0.154	0.163	0.727	0.757	0.755	67.875%
x		0.164	0.173	0.791	0.828	0.800	66.959%
σ		0.021	0.010	0.067	0.068	0.042	0.819%
%RSD		13.030	5.504	8.430	8.247	5.309	1.223

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:24:26	86.743%	18.340	34.400	36.790	0.000	92820.000	92510.000	92630.000
2	12:25:09	83.566%	19.270	36.840	34.910	0.000	93420.000	92040.000	92330.000
3	12:25:52	81.649%	18.400	34.670	34.820	0.000	92010.000	91130.000	91500.000
x		83.986%	93.355%	70.605%	71.013%	0.000	92.749%	91.894%	92.156%
σ		2.573%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		3.064	2.760	3.788	3.137	0.000	0.762	0.761	0.636

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:24:26	90930.000	492.600	0.000	95710.000	96300.000	92700.000	72.813%	2184.000
2	12:25:09	90980.000	495.100	0.000	95380.000	96820.000	92320.000	72.503%	2142.000
3	12:25:52	89960.000	490.800	0.000	95490.000	98610.000	92880.000	69.840%	2206.000
x		90.625%	98.571%	0.000	95.526%	97.241%	92.636%	71.719%	108.886%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.634%	n/a
%RSD		0.633	0.442	0.000	0.178	1.246	0.307	2.279	1.496

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:24:26	19.040	19.240	20.560	100300.000	100300.000	20.530	19.250	19.930
2	12:25:09	19.350	19.000	20.690	99880.000	100500.000	19.630	18.910	19.850
3	12:25:52	19.490	19.590	21.030	100800.000	101400.000	20.080	19.610	19.400
x		96.484%	96.392%	90.264%	100.308%	100.749%	100.403%	96.289%	98.625%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.193	1.540	1.185	0.462	0.608	2.249	1.839	1.462

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:24:26	20.680	23.930	23.350	21.010	50.740	49.230	0.000	26.000
2	12:25:09	20.100	24.340	21.560	20.600	50.070	49.520	0.000	26.120
3	12:25:52	20.120	23.680	24.240	19.710	49.840	51.210	0.000	26.290
x		101.491%	95.918%	92.208%	102.190%	100.436%	99.973%	0.000	130.697%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.615	1.386	5.925	3.251	0.928	2.136	0.000	0.556

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:24:26	67.569%	2182.000	2190.000	70.165%	18.610	19.040	19.390	18.850
2	12:25:09	67.774%	2188.000	2211.000	69.999%	18.800	18.600	19.300	18.390
3	12:25:52	66.535%	2205.000	2229.000	69.670%	18.360	18.970	18.870	18.960
x		67.293%	109.584%	110.488%	69.945%	92.955%	94.354%	95.929%	93.677%
σ		0.664%	n/a	n/a	0.252%	n/a	n/a	n/a	n/a
%RSD		0.987	0.527	0.882	0.360	1.192	1.260	1.433	1.625

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:24:26	74.437%	99.970	19.230	19.310	20.230	20.020	74.534%	74.545%
2	12:25:09	74.536%	99.740	19.440	20.040	20.650	20.060	76.794%	76.647%
3	12:25:52	74.526%	100.600	20.040	19.760	20.300	20.370	76.554%	76.656%
x		74.500%	100.108%	97.855%	98.531%	101.966%	100.759%	75.961%	75.949%
σ		0.054%	n/a	n/a	n/a	n/a	n/a	1.241%	1.216%
%RSD		0.073	0.454	2.150	1.861	1.100	0.948	1.634	1.601

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	12:24:26	20.200	20.030	20.730	20.830	20.850	64.737%
2	12:25:09	20.460	20.450	20.920	20.930	20.910	66.228%
3	12:25:52	20.310	20.310	21.150	20.970	20.850	67.016%
x		101.614%	101.320%	104.674%	104.554%	104.346%	65.994%
σ		n/a	n/a	n/a	n/a	n/a	1.157%
%RSD		0.647	1.070	1.010	0.344	0.160	1.754

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:32:40	79.250%	-0.005	-1.972	-3.514	0.000	32.780	9.452	11.090
2	12:33:23	80.059%	0.010	-5.097	-5.066	0.000	34.140	11.400	11.640
3	12:34:06	75.865%	0.011	-4.948	-4.174	0.000	48.710	20.290	20.120
x		78.391%	0.005	-4.005	-4.251	0.000	38.550	13.710	14.280
σ		2.225%	0.009	1.763	0.779	0.000	8.828	5.777	5.061
%RSD		2.838	161.100	44.010	18.320	0.000	22.900	42.130	35.430

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:32:40	482000.000	144.400	0.000	24.070	529.300	30.990	74.762%	1.913
2	12:33:23	438600.000	132.600	0.000	26.320	590.700	34.910	74.170%	1.391
3	12:34:06	477500.000	142.300	0.000	38.740	652.300	48.700	69.881%	1.806
x		466000.000	139.800	0.000	29.710	590.700	38.200	72.938%	1.703
σ		23850.000	6.278	0.000	7.904	61.520	9.303	2.664%	0.276
%RSD		5.118	4.491	0.000	26.600	10.410	24.360	3.652	16.180

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:32:40	-346.100	21970.000	21580.000	531300.000	535800.000	9.544	10620.000	20190.000
2	12:33:23	-304.600	20180.000	19750.000	491900.000	495900.000	8.641	9632.000	18550.000
3	12:34:06	-371.300	21720.000	21490.000	530500.000	535000.000	9.574	10340.000	19760.000
x		-340.700	21290.000	20940.000	517900.000	522200.000	9.253	10200.000	19500.000
σ		33.710	966.400	1029.000	22510.000	22820.000	0.530	507.400	850.400
%RSD		9.895	4.539	4.912	4.346	4.370	5.727	4.977	4.361

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:32:40	20580.000	21030.000	21980.000	0.822	0.739	1.818	0.000	0.125
2	12:33:23	18970.000	19610.000	20550.000	0.435	0.291	0.773	0.000	0.128
3	12:34:06	20220.000	20840.000	21940.000	0.539	0.504	1.159	0.000	0.152
x		19920.000	20490.000	21490.000	0.599	0.511	1.250	0.000	0.135
σ		845.300	771.900	816.800	0.200	0.224	0.528	0.000	0.015
%RSD		4.243	3.767	3.801	33.420	43.770	42.270	0.000	10.870

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:32:40	68.266%	5.734	5.889	76.403%	0.277	0.260	0.191	0.100
2	12:33:23	68.723%	5.099	4.835	77.363%	0.217	0.206	0.062	0.061
3	12:34:06	65.730%	5.180	4.819	73.360%	0.216	0.261	0.041	0.067
x		67.573%	5.338	5.181	75.709%	0.237	0.242	0.098	0.076
σ		1.612%	0.346	0.614	2.090%	0.035	0.031	0.081	0.021
%RSD		2.386	6.478	11.840	2.760	14.750	12.800	82.650	27.870

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:32:40	84.660%	0.352	0.715	0.742	16150.000	16000.000	68.917%	68.122%
2	12:33:23	86.073%	0.251	0.727	0.759	14820.000	14740.000	71.882%	71.982%
3	12:34:06	81.630%	0.291	0.854	0.908	16030.000	15920.000	67.960%	68.922%
x		84.121%	0.298	0.765	0.803	15660.000	15550.000	69.587%	69.675%
σ		2.270%	0.051	0.077	0.091	733.800	704.200	2.045%	2.037%
%RSD		2.699	17.180	10.060	11.360	4.684	4.528	2.939	2.924

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	12:32:40	0.051	0.055	19580.000	21200.000	20700.000	67.578%
2	12:33:23	0.040	0.034	16460.000	17580.000	17290.000	78.050%
3	12:34:06	0.064	0.056	18870.000	20420.000	19930.000	69.945%
x		0.052	0.048	18300.000	19740.000	19310.000	71.858%
σ		0.012	0.013	1636.000	1905.000	1789.000	5.492%
%RSD		22.880	26.510	8.938	9.655	9.265	7.643

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:40:54	86.747%	-0.006	-9.076	-8.824	0.000	471400.000	912300.000	914500.000
2	12:41:37	90.339%	-0.007	-8.221	-9.367	0.000	480800.000	947900.000	948300.000
3	12:42:20	92.823%	-0.007	-8.638	-9.548	0.000	490300.000	954900.000	953700.000
x		89.970%	-0.007	-8.645	-9.247	0.000	480800.000	938400.000	938800.000
σ		3.055%	0.000	0.428	0.377	0.000	9482.000	22880.000	21290.000
%RSD		3.396	6.761	4.947	4.076	0.000	1.972	2.438	2.268

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:40:54	23.460	133.300	0.000	471100.000	938500.000	938600.000	97.019%	2.124
2	12:41:37	21.990	141.800	0.000	493200.000	985400.000	979100.000	100.134%	2.683
3	12:42:20	23.180	141.300	0.000	495000.000	985700.000	976800.000	106.143%	2.252
x		22.880	138.800	0.000	486400.000	969900.000	964900.000	101.098%	2.353
σ		0.779	4.745	0.000	13310.000	27140.000	22760.000	4.638%	0.293
%RSD		3.407	3.419	0.000	2.737	2.798	2.359	4.587	12.440

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:40:54	0.005	0.870	1.208	56.950	2507.000	0.830	-4.323	2.965
2	12:41:37	0.066	0.944	1.139	61.300	2551.000	0.738	-6.100	3.212
3	12:42:20	0.080	0.925	1.236	61.110	2687.000	0.781	-5.561	3.437
x		0.050	0.913	1.194	59.790	2582.000	0.783	-5.328	3.205
σ		0.040	0.038	0.050	2.458	93.960	0.046	0.911	0.236
%RSD		78.780	4.204	4.182	4.111	3.639	5.845	17.100	7.363

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:40:54	2.383	2.931	2.383	0.171	1.225	0.481	0.000	35.990
2	12:41:37	2.420	3.199	2.009	0.420	1.393	1.420	0.000	36.900
3	12:42:20	2.496	3.225	2.372	0.329	1.565	0.745	0.000	37.090
x		2.433	3.118	2.255	0.307	1.394	0.882	0.000	36.660
σ		0.058	0.163	0.213	0.126	0.170	0.484	0.000	0.585
%RSD		2.370	5.214	9.430	41.100	12.190	54.860	0.000	1.595

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:40:54	106.233%	1.969	0.997	86.887%	0.121	0.098	0.304	0.172
2	12:41:37	111.260%	2.231	1.115	90.877%	0.109	0.105	0.132	0.072
3	12:42:20	116.277%	2.308	1.089	95.845%	0.151	0.128	0.131	0.075
x		111.257%	2.169	1.067	91.203%	0.127	0.110	0.189	0.106
σ		5.022%	0.177	0.062	4.488%	0.022	0.016	0.100	0.057
%RSD		4.514	8.177	5.839	4.921	17.010	14.250	52.930	53.460

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:40:54	96.349%	0.445	0.491	0.467	2.071	1.698	104.990%	104.270%
2	12:41:37	102.852%	0.309	0.460	0.523	1.806	1.746	108.565%	109.388%
3	12:42:20	107.932%	0.285	0.421	0.477	1.846	1.917	113.129%	113.731%
x		102.378%	0.346	0.457	0.489	1.907	1.787	108.895%	109.130%
σ		5.806%	0.086	0.035	0.030	0.143	0.115	4.079%	4.736%
%RSD		5.671	24.920	7.682	6.163	7.496	6.425	3.746	4.340

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	12:40:54	0.077	0.081	1.528	1.626	1.584	66.765%
2	12:41:37	0.073	0.076	1.270	1.235	1.300	80.368%
3	12:42:20	0.071	0.069	1.361	1.363	1.341	83.162%
x		0.074	0.075	1.386	1.408	1.408	76.765%
σ		0.003	0.006	0.131	0.200	0.153	8.773%
%RSD		4.015	8.245	9.410	14.170	10.890	11.428

CCV 801624 5/7/2013 12:48:24 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:49:07	91.523%	106.500	89.530	89.670	0.000	50260.000	51410.000	51400.000
2	12:49:50	94.714%	99.730	85.960	84.550	0.000	47990.000	49020.000	48640.000
3	12:50:33	93.220%	105.600	87.030	88.830	0.000	50090.000	50790.000	50940.000
x		93.152%	103.932%	87.505%	87.683%	0.000	98.900%	100.808%	100.648%
σ		1.597%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.714	3.529	2.091	3.130	0.000	2.556	2.464	2.943

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:49:07	530.900	5358.000	0.000	49850.000	49250.000	46690.000	93.727%	104.900
2	12:49:50	494.700	5039.000	0.000	47630.000	46820.000	44880.000	94.962%	98.110
3	12:50:33	515.200	5268.000	0.000	49890.000	49810.000	46740.000	93.559%	101.600
x		102.720%	104.431%	0.000	98.247%	97.250%	92.208%	94.083%	101.549%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.766%	n/a
%RSD		3.528	3.147	0.000	2.627	3.266	2.306	0.814	3.368

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:49:07	100.400	99.880	492.000	25040.000	25190.000	100.700	103.500	106.100
2	12:49:50	93.720	93.990	472.100	23780.000	23740.000	95.080	97.540	100.600
3	12:50:33	101.400	99.760	495.600	24980.000	24930.000	100.600	103.800	105.200
x		98.497%	97.878%	97.313%	98.391%	98.478%	98.789%	101.610%	103.940%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		4.237	3.440	2.602	2.896	3.148	3.253	3.470	2.831

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:49:07	104.600	105.300	103.800	101.500	103.800	102.100	0.000	96.070
2	12:49:50	98.840	98.490	99.790	93.950	96.100	92.550	0.000	91.130
3	12:50:33	103.400	104.100	101.800	103.000	104.500	98.820	0.000	96.110
x		102.257%	102.632%	101.791%	99.472%	101.493%	97.833%	0.000	94.436%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		2.955	3.535	1.989	4.871	4.617	4.968	0.000	3.030

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:49:07	93.141%	103.700	104.000	89.820%	99.350	100.800	101.500	101.400
2	12:49:50	96.917%	97.220	99.110	93.256%	93.800	94.860	95.850	95.410
3	12:50:33	95.733%	103.900	106.100	91.602%	99.510	100.200	99.500	100.700
x		95.264%	101.590%	103.082%	91.559%	97.555%	98.596%	98.953%	99.173%
σ		1.931%	n/a	n/a	1.719%	n/a	n/a	n/a	n/a
%RSD		2.028	3.723	3.489	1.877	3.332	3.292	2.905	3.305

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:49:07	87.809%	100.400	101.500	100.800	100.700	99.360	90.237%	90.589%
2	12:49:50	92.822%	95.680	95.230	96.870	92.780	94.340	94.591%	95.644%
3	12:50:33	90.958%	101.500	102.000	102.300	100.500	98.850	92.706%	93.664%
x		90.530%	99.179%	99.573%	99.970%	97.977%	97.516%	92.511%	93.299%
σ		2.534%	n/a	n/a	n/a	n/a	n/a	2.183%	2.547%
%RSD		2.799	3.100	3.781	2.782	4.596	2.830	2.360	2.730

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	12:49:07	97.050	96.870	97.500	98.050	97.680	79.367%
2	12:49:50	91.220	90.780	91.610	90.690	91.080	85.323%
3	12:50:33	96.090	95.990	97.970	96.870	97.240	83.442%
x		94.784%	94.544%	95.694%	95.200%	95.335%	82.711%
σ		n/a	n/a	n/a	n/a	n/a	3.045%
%RSD		3.299	3.482	3.702	4.152	3.870	3.681

CCB1 5/7/2013 12:56:39 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:57:22	115.603%	0.001	-10.280	-9.285	0.000	9.023	11.280	10.040
2	12:58:05	114.495%	0.001	-8.616	-9.120	0.000	13.230	18.140	17.960
3	12:58:48	111.274%	0.022	-10.450	-9.394	0.000	15.630	19.310	18.960
x		113.790%	0.008	-9.780	-9.266	0.000	12.630	16.240	15.660
σ		2.249%	0.012	1.011	0.138	0.000	3.343	4.340	4.886
%RSD		1.976	157.200	10.340	1.490	0.000	26.480	26.720	31.210

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:57:22	2.236	-0.435	0.000	12.900	21.600	8.603	119.710%	-0.235
2	12:58:05	3.244	0.452	0.000	16.480	13.310	14.560	118.760%	-0.183
3	12:58:48	3.443	-1.436	0.000	17.040	13.330	18.650	118.780%	-0.106
x		2.974	-0.473	0.000	15.480	16.080	13.940	119.083%	-0.175
σ		0.647	0.944	0.000	2.246	4.781	5.052	0.543%	0.065
%RSD		21.760	199.700	0.000	14.510	29.730	36.250	0.456	37.340

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:57:22	0.034	0.065	0.239	13.260	7.753	0.005	0.028	0.059
2	12:58:05	0.020	0.109	0.330	14.160	6.874	0.005	0.043	0.074
3	12:58:48	0.030	0.116	0.298	13.800	7.863	0.025	0.043	0.113
x		0.028	0.097	0.289	13.740	7.496	0.011	0.038	0.082
σ		0.007	0.028	0.046	0.453	0.542	0.012	0.009	0.028
%RSD		25.210	29.020	16.050	3.293	7.232	102.300	22.600	33.590

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:57:22	0.114	0.067	0.102	-0.067	0.195	-0.148	0.000	0.011
2	12:58:05	0.057	0.049	0.182	0.030	0.304	0.008	0.000	0.018
3	12:58:48	0.100	0.057	0.041	-0.154	0.356	-0.347	0.000	0.017
x		0.090	0.058	0.108	-0.064	0.285	-0.162	0.000	0.015
σ		0.030	0.009	0.071	0.092	0.082	0.178	0.000	0.004
%RSD		32.740	16.250	65.370	144.000	28.680	109.600	0.000	24.580

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:57:22	119.186%	0.413	0.436	120.650%	0.004	-0.002	0.139	0.104
2	12:58:05	121.472%	0.470	0.501	122.220%	0.007	0.004	0.097	0.063
3	12:58:48	121.751%	0.468	0.367	122.806%	-0.002	0.010	0.063	0.042
x		120.803%	0.450	0.435	121.892%	0.003	0.004	0.100	0.070
σ		1.407%	0.032	0.067	1.115%	0.004	0.006	0.038	0.032
%RSD		1.165	7.203	15.450	0.915	148.400	154.400	38.470	45.950

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:57:22	116.728%	0.145	0.040	0.078	-0.008	0.036	112.377%	111.368%
2	12:58:05	120.020%	0.101	0.045	0.034	0.038	0.069	114.693%	115.729%
3	12:58:48	119.283%	0.096	0.040	0.080	0.058	0.061	115.827%	115.941%
x		118.677%	0.114	0.042	0.064	0.029	0.055	114.299%	114.346%
σ		1.728%	0.027	0.003	0.026	0.034	0.017	1.759%	2.581%
%RSD		1.456	23.720	7.046	40.810	115.700	31.280	1.539	2.257

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	12:57:22	0.011	0.011	0.080	0.064	0.069	111.874%
2	12:58:05	0.015	0.012	0.103	0.091	0.096	115.419%
3	12:58:48	0.011	0.009	0.102	0.112	0.101	115.491%
x		0.012	0.011	0.095	0.089	0.089	114.261%
σ		0.002	0.002	0.013	0.024	0.017	2.068%
%RSD		20.050	15.160	14.140	27.060	19.700	1.810

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:05:35	115.666%	0.001	-9.735	-9.387	0.000	10.280	8.435	9.171
2	13:06:18	112.409%	-0.009	-10.740	-10.170	0.000	14.470	9.563	10.560
3	13:07:01	111.661%	0.001	-10.360	-10.030	0.000	16.540	12.630	12.600
x		113.246%	-0.002	-10.280	-9.862	0.000	13.760	10.210	10.780
σ		2.130%	0.006	0.505	0.417	0.000	3.186	2.174	1.726
%RSD		1.880	245.000	4.916	4.232	0.000	23.150	21.290	16.020
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:05:35	1.484	1.050	0.000	8.988	15.340	26.150	119.265%	0.177
2	13:06:18	2.048	1.096	0.000	10.550	21.910	26.360	118.494%	0.309
3	13:07:01	2.765	0.968	0.000	13.990	33.530	23.440	115.541%	-0.230
x		2.099	1.038	0.000	11.180	23.590	25.310	117.767%	0.085
σ		0.642	0.065	0.000	2.562	9.211	1.627	1.965%	0.281
%RSD		30.580	6.241	0.000	22.920	39.050	6.426	1.669	329.400
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:05:35	0.009	0.055	0.115	12.130	7.344	-0.001	0.022	0.145
2	13:06:18	0.030	0.064	0.188	10.990	7.017	0.002	0.052	0.163
3	13:07:01	0.016	0.036	0.291	11.990	6.594	0.004	0.038	0.108
x		0.018	0.051	0.198	11.700	6.985	0.001	0.037	0.138
σ		0.011	0.014	0.088	0.621	0.376	0.002	0.015	0.028
%RSD		59.030	27.890	44.730	5.303	5.383	157.200	40.940	20.310
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:05:35	0.187	0.597	0.630	0.014	0.003	-0.025	0.000	0.072
2	13:06:18	0.142	0.542	0.638	-0.101	0.060	-0.488	0.000	0.076
3	13:07:01	0.177	0.439	0.443	-0.145	0.200	-0.293	0.000	0.075
x		0.168	0.526	0.570	-0.077	0.088	-0.269	0.000	0.074
σ		0.024	0.080	0.110	0.082	0.101	0.232	0.000	0.002
%RSD		14.040	15.210	19.320	106.600	115.700	86.510	0.000	2.897
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:05:35	114.815%	0.382	0.404	115.064%	-0.002	-0.003	0.135	0.067
2	13:06:18	116.383%	0.393	0.388	115.956%	-0.005	-0.002	0.117	0.090
3	13:07:01	116.144%	0.378	0.326	116.700%	0.003	-0.003	0.196	0.151
x		115.781%	0.384	0.372	115.907%	-0.001	-0.003	0.149	0.103
σ		0.845%	0.008	0.041	0.819%	0.004	0.001	0.041	0.043
%RSD		0.730	1.980	11.070	0.706	273.500	28.960	27.750	42.040
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:05:35	111.810%	1.487	0.033	0.033	0.088	0.144	107.598%	106.461%
2	13:06:18	113.478%	1.328	0.027	0.057	0.142	0.177	110.455%	110.405%
3	13:07:01	113.962%	1.283	0.016	0.036	0.155	0.204	110.878%	110.067%
x		113.083%	1.366	0.025	0.042	0.129	0.175	109.643%	108.978%
σ		1.129%	0.108	0.009	0.013	0.035	0.030	1.784%	2.186%
%RSD		0.998	7.869	34.870	31.190	27.570	17.110	1.627	2.006
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	13:05:35	0.014	0.006	0.019	0.011	0.020	105.144%		
2	13:06:18	0.008	0.009	0.036	0.037	0.034	108.718%		
3	13:07:01	0.011	0.005	0.034	0.049	0.042	108.929%		
x		0.011	0.007	0.029	0.032	0.032	107.597%		
σ		0.003	0.002	0.009	0.019	0.011	2.127%		
%RSD		29.220	30.780	32.020	60.410	34.460	1.977		

LCS 180-69392/2-A 5/7/2013 1:13:02 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:13:45	98.947%	41.500	775.600	783.200	0.000	45470.000	45750.000	45450.000
2	13:14:28	92.380%	42.020	815.400	815.300	0.000	45740.000	46270.000	45850.000
3	13:15:11	93.121%	42.440	813.900	813.400	0.000	45960.000	46320.000	46060.000
x		94.816%	41.980	801.600	804.000	0.000	45720.000	46110.000	45790.000
σ		3.597%	0.469	22.600	18.020	0.000	244.800	317.900	309.800
%RSD		3.793	1.118	2.819	2.241	0.000	0.535	0.689	0.676

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:13:45	1902.000	4554.000	0.000	45740.000	45830.000	43250.000	95.156%	951.600
2	13:14:28	1901.000	4536.000	0.000	44870.000	45800.000	42170.000	91.963%	926.700
3	13:15:11	1908.000	4564.000	0.000	45330.000	45840.000	43220.000	90.286%	942.400
x		1904.000	4551.000	0.000	45310.000	45820.000	42880.000	92.469%	940.200
σ		3.989	14.060	0.000	438.400	23.490	615.200	2.474%	12.620
%RSD		0.209	0.309	0.000	0.968	0.051	1.435	2.676	1.342

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:13:45	477.600	186.500	458.100	1073.000	1228.000	488.400	494.400	249.300
2	13:14:28	463.100	182.800	457.600	1067.000	1199.000	478.100	481.800	244.200
3	13:15:11	469.400	186.500	466.500	1073.000	1188.000	477.900	481.200	244.400
x		470.000	185.300	460.800	1071.000	1205.000	481.500	485.800	246.000
σ		7.251	2.142	5.001	3.143	21.010	6.040	7.465	2.879
%RSD		1.543	1.156	1.085	0.293	1.743	1.254	1.537	1.170

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:13:45	252.200	417.000	416.100	34.520	7.810	8.608	0.000	1005.000
2	13:14:28	247.000	410.800	408.800	33.950	7.842	8.029	0.000	986.300
3	13:15:11	250.100	415.300	413.200	34.540	7.961	8.315	0.000	992.600
x		249.800	414.400	412.700	34.340	7.871	8.317	0.000	994.600
σ		2.628	3.206	3.691	0.332	0.080	0.289	0.000	9.528
%RSD		1.052	0.774	0.894	0.968	1.014	3.480	0.000	0.958

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:13:45	78.648%	1045.000	1029.000	79.967%	47.540	47.690	42.890	38.570
2	13:14:28	79.317%	1021.000	1025.000	81.174%	46.630	46.200	42.800	37.430
3	13:15:11	78.870%	1040.000	1039.000	79.620%	46.750	47.660	42.090	36.780
x		78.945%	1035.000	1031.000	80.254%	46.970	47.180	42.590	37.600
σ		0.341%	12.890	7.303	0.816%	0.495	0.854	0.436	0.909
%RSD		0.432	1.246	0.708	1.016	1.054	1.809	1.023	2.418

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:13:45	79.415%	1920.000	429.900	430.000	1908.000	1877.000	83.958%	88.554%
2	13:14:28	80.503%	1903.000	423.500	428.900	1884.000	1844.000	85.947%	91.224%
3	13:15:11	80.990%	1914.000	433.600	430.500	1887.000	1869.000	85.751%	92.300%
x		80.302%	1913.000	429.000	429.800	1893.000	1863.000	85.219%	90.693%
σ		0.806%	8.556	5.094	0.795	13.130	17.420	1.096%	1.929%
%RSD		1.004	0.447	1.187	0.185	0.693	0.935	1.286	2.127

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	13:13:45	46.210	46.940	18.320	20.090	19.090	68.044%
2	13:14:28	49.010	49.260	18.830	20.990	20.090	65.714%
3	13:15:11	49.650	49.430	18.800	21.300	20.250	66.365%
x		48.290	48.540	18.650	20.790	19.810	66.708%
σ		1.829	1.387	0.285	0.626	0.629	1.202%
%RSD		3.788	2.857	1.529	3.012	3.176	1.802

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:21:55	89.988%	4.155	31.180	27.960	0.000	425.100	14360.000	14240.000
2	13:22:38	87.005%	4.038	28.140	27.320	0.000	425.400	14260.000	14300.000
3	13:23:21	84.858%	3.983	27.620	27.720	0.000	425.200	14150.000	14170.000
x		87.284%	4.059	28.980	27.660	0.000	425.200	14260.000	14240.000
σ		2.576%	0.087	1.922	0.320	0.000	0.127	100.600	68.280
%RSD		2.951	2.154	6.633	1.156	0.000	0.030	0.706	0.480

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:21:55	76900.000	5324.000	0.000	9264.000	7658.000	6789.000	89.704%	839.200
2	13:22:38	77120.000	5265.000	0.000	9197.000	7426.000	6822.000	85.440%	825.600
3	13:23:21	76740.000	5269.000	0.000	9224.000	7330.000	6844.000	82.027%	837.000
x		76920.000	5286.000	0.000	9228.000	7471.000	6819.000	85.724%	833.900
σ		192.200	32.880	0.000	33.740	168.700	27.870	3.846%	7.301
%RSD		0.250	0.622	0.000	0.366	2.258	0.409	4.487	0.875

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:21:55	152.700	93.970	1651.000	127600.000	128800.000	61.930	128.400	123.200
2	13:22:38	154.400	93.250	1706.000	128100.000	128800.000	60.670	128.000	120.900
3	13:23:21	152.200	92.000	1677.000	128900.000	129700.000	61.360	128.000	120.700
x		153.100	93.070	1678.000	128200.000	129100.000	61.320	128.100	121.600
σ		1.138	0.997	27.520	640.900	534.800	0.633	0.231	1.394
%RSD		0.743	1.071	1.640	0.500	0.414	1.033	0.180	1.146

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:21:55	122.900	342.000	337.700	565.400	2.393	3.481	0.000	1709.000
2	13:22:38	122.400	337.000	339.000	553.300	2.387	2.949	0.000	1661.000
3	13:23:21	123.000	341.700	340.700	560.000	2.437	3.716	0.000	1679.000
x		122.800	340.200	339.100	559.600	2.406	3.382	0.000	1683.000
σ		0.306	2.850	1.510	6.034	0.028	0.393	0.000	24.030
%RSD		0.249	0.838	0.445	1.078	1.146	11.620	0.000	1.428

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:21:55	0.000	620.200	619.800	80.452%	0.310	0.235	2.186	1.808
2	13:22:38	0.000	618.000	622.900	79.037%	0.312	0.238	1.375	1.219
3	13:23:21	0.000	627.700	624.300	75.430%	0.321	0.262	1.523	1.152
x		0.000	621.900	622.300	78.306%	0.314	0.245	1.695	1.393
σ		0.000	5.081	2.276	2.590%	0.006	0.015	0.432	0.361
%RSD		0.000	0.817	0.366	3.307	1.816	6.094	25.480	25.920

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:21:55	82.681%	3.859	0.635	0.635	453.200	444.300	84.734%	84.563%
2	13:22:38	80.939%	3.785	0.569	0.599	448.300	438.800	85.005%	84.141%
3	13:23:21	79.561%	3.188	0.571	0.782	446.100	440.700	80.978%	82.045%
x		81.060%	3.611	0.592	0.672	449.200	441.300	83.572%	83.583%
σ		1.563%	0.368	0.038	0.097	3.636	2.839	2.251%	1.348%
%RSD		1.929	10.200	6.376	14.440	0.809	0.643	2.694	1.613

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	13:21:55	1.174	1.114	171.500	170.000	171.100	71.013%
2	13:22:38	1.126	1.119	175.000	172.700	173.600	70.116%
3	13:23:21	1.148	1.149	173.300	170.100	171.100	68.869%
x		1.150	1.127	173.300	171.000	172.000	69.999%
σ		0.024	0.019	1.749	1.540	1.452	1.077%
%RSD		2.114	1.706	1.009	0.901	0.844	1.539

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:30:05	85.558%	5.477	55.990	55.980	0.000	1020.000	68150.000	68420.000
2	13:30:48	84.829%	4.910	52.450	55.720	0.000	978.200	66620.000	66750.000
3	13:31:31	83.115%	4.941	56.630	58.070	0.000	1016.000	68750.000	68620.000
x		84.501%	5.109	55.030	56.590	0.000	1005.000	67840.000	67930.000
σ		1.254%	0.319	2.250	1.284	0.000	23.170	1097.000	1025.000
%RSD		1.484	6.239	4.089	2.269	0.000	2.306	1.617	1.508
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:30:05	104000.000	5071.000	0.000	18260.000	273000.000	273700.000	89.787%	912.200
2	13:30:48	101100.000	4890.000	0.000	18110.000	270100.000	266800.000	87.428%	890.900
3	13:31:31	104000.000	5018.000	0.000	18480.000	272000.000	270200.000	86.236%	912.100
x		103100.000	4993.000	0.000	18280.000	271700.000	270200.000	87.817%	905.100
σ		1668.000	93.010	0.000	187.000	1478.000	3485.000	1.807%	12.300
%RSD		1.619	1.863	0.000	1.023	0.544	1.290	2.058	1.359
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:30:05	166.300	158.300	2959.000	205800.000	208700.000	99.060	244.100	149.600
2	13:30:48	163.200	155.700	2946.000	203700.000	206000.000	96.240	236.300	148.200
3	13:31:31	167.800	159.400	2998.000	207200.000	209600.000	98.960	241.300	150.800
x		165.800	157.800	2968.000	205600.000	208100.000	98.090	240.500	149.500
σ		2.310	1.926	27.350	1777.000	1890.000	1.598	3.963	1.277
%RSD		1.393	1.220	0.921	0.865	0.908	1.629	1.648	0.854
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:30:05	153.300	438.800	441.400	69.390	1.517	2.285	0.000	473.700
2	13:30:48	149.000	433.700	437.800	68.400	1.830	2.018	0.000	475.700
3	13:31:31	151.000	442.000	440.600	70.590	1.637	2.261	0.000	484.300
x		151.100	438.200	439.900	69.460	1.661	2.188	0.000	477.900
σ		2.165	4.178	1.930	1.096	0.158	0.147	0.000	5.667
%RSD		1.433	0.953	0.439	1.578	9.486	6.740	0.000	1.186
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:30:05	0.000	10.910	11.320	77.281%	0.331	0.164	1.842	1.474
2	13:30:48	0.000	11.430	10.920	76.760%	0.281	0.191	1.497	1.079
3	13:31:31	0.000	11.330	11.010	75.493%	0.344	0.181	1.824	1.337
x		0.000	11.220	11.080	76.511%	0.318	0.178	1.721	1.297
σ		0.000	0.278	0.211	0.920%	0.033	0.014	0.194	0.201
%RSD		0.000	2.480	1.908	1.202	10.420	7.736	11.270	15.460
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:30:05	83.473%	1.433	0.126	0.134	573.300	565.000	86.332%	85.270%
2	13:30:48	82.197%	1.514	0.135	0.136	576.200	563.000	86.800%	84.951%
3	13:31:31	82.325%	1.364	0.120	0.157	575.200	569.200	86.079%	85.334%
x		82.665%	1.437	0.127	0.142	574.900	565.700	86.404%	85.185%
σ		0.703%	0.075	0.008	0.013	1.506	3.190	0.366%	0.205%
%RSD		0.850	5.223	5.952	9.287	0.262	0.564	0.423	0.241
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	13:30:05	1.560	1.608	91.580	89.350	90.870	67.461%		
2	13:30:48	1.546	1.584	91.410	90.890	91.740	68.197%		
3	13:31:31	1.566	1.590	93.210	91.800	92.660	66.771%		
x		1.557	1.594	92.070	90.680	91.750	67.476%		
σ		0.010	0.012	0.994	1.236	0.898	0.713%		
%RSD		0.651	0.773	1.080	1.363	0.979	1.057		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:38:15	83.202%	6.866	45.130	46.900	0.000	1110.000	77220.000	76440.000
2	13:38:58	81.579%	6.260	41.640	44.830	0.000	1081.000	74740.000	75170.000
3	13:39:41	80.854%	6.561	45.450	44.540	0.000	1073.000	74410.000	74270.000
x		81.879%	6.562	44.070	45.420	0.000	1088.000	75460.000	75290.000
σ		1.202%	0.303	2.113	1.285	0.000	19.370	1536.000	1094.000
%RSD		1.468	4.612	4.794	2.828	0.000	1.781	2.036	1.453

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:38:15	120300.000	4371.000	0.000	16190.000	277900.000	276000.000	88.139%	1163.000
2	13:38:58	118300.000	4290.000	0.000	16270.000	278500.000	276300.000	86.301%	1148.000
3	13:39:41	116100.000	4247.000	0.000	15870.000	274200.000	273200.000	84.922%	1140.000
x		118200.000	4303.000	0.000	16110.000	276900.000	275200.000	86.454%	1150.000
σ		2094.000	63.160	0.000	213.600	2338.000	1706.000	1.614%	12.140
%RSD		1.772	1.468	0.000	1.326	0.845	0.620	1.867	1.055

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:38:15	193.400	178.700	4228.000	262300.000	264500.000	125.600	296.000	193.900
2	13:38:58	193.900	178.200	4216.000	262100.000	264400.000	124.300	289.100	190.100
3	13:39:41	189.400	176.200	4211.000	260100.000	261900.000	122.500	284.900	189.200
x		192.300	177.700	4218.000	261500.000	263600.000	124.100	290.000	191.100
σ		2.453	1.333	8.854	1212.000	1475.000	1.578	5.639	2.475
%RSD		1.276	0.750	0.210	0.464	0.560	1.272	1.945	1.295

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:38:15	197.400	506.600	497.400	99.050	2.113	2.899	0.000	518.800
2	13:38:58	190.400	496.000	497.000	99.300	2.200	3.375	0.000	522.300
3	13:39:41	189.100	495.500	497.300	99.510	1.215	3.181	0.000	520.700
x		192.300	499.400	497.300	99.290	1.843	3.152	0.000	520.600
σ		4.474	6.254	0.207	0.234	0.545	0.239	0.000	1.752
%RSD		2.326	1.252	0.042	0.236	29.590	7.599	0.000	0.337

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:38:15	0.000	14.780	14.970	76.017%	0.357	0.166	2.508	1.786
2	13:38:58	0.000	15.240	14.750	75.507%	0.330	0.188	2.085	1.616
3	13:39:41	0.000	15.250	14.750	74.851%	0.412	0.186	2.102	1.602
x		0.000	15.090	14.820	75.458%	0.366	0.180	2.232	1.668
σ		0.000	0.265	0.123	0.585%	0.042	0.012	0.239	0.102
%RSD		0.000	1.757	0.827	0.775	11.400	6.813	10.720	6.135

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:38:15	82.577%	1.013	0.191	0.116	807.100	796.900	88.651%	86.814%
2	13:38:58	82.394%	1.003	0.120	0.196	796.200	782.800	90.096%	87.937%
3	13:39:41	82.033%	1.034	0.155	0.156	801.100	782.700	90.395%	87.381%
x		82.335%	1.017	0.155	0.156	801.500	787.500	89.714%	87.377%
σ		0.277%	0.016	0.036	0.040	5.491	8.220	0.933%	0.561%
%RSD		0.336	1.566	23.140	25.770	0.685	1.044	1.040	0.643

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	13:38:15	1.724	1.721	120.700	117.900	119.100	66.509%
2	13:38:58	1.708	1.753	121.000	119.000	120.100	67.021%
3	13:39:41	1.752	1.749	120.000	116.800	118.300	68.063%
x		1.728	1.741	120.600	117.900	119.200	67.198%
σ		0.022	0.017	0.496	1.053	0.926	0.792%
%RSD		1.279	0.981	0.411	0.893	0.777	1.179

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:46:26	111.710%	1.411	0.295	-0.391	0.000	212.600	15250.000	15140.000
2	13:47:09	106.350%	1.417	-0.489	0.431	0.000	214.500	15040.000	15060.000
3	13:47:52	105.568%	1.354	0.047	0.539	0.000	214.400	14920.000	14890.000
x		107.876%	1.394	-0.049	0.193	0.000	213.800	15070.000	15030.000
σ		3.343%	0.035	0.401	0.509	0.000	1.067	165.900	127.600
%RSD		3.099	2.513	818.600	263.100	0.000	0.499	1.101	0.849
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:46:26	24390.000	944.900	0.000	3273.000	56240.000	53180.000	110.058%	232.300
2	13:47:09	24050.000	951.700	0.000	3249.000	54940.000	52390.000	106.123%	239.300
3	13:47:52	23850.000	922.000	0.000	3272.000	56020.000	52640.000	103.243%	232.200
x		24090.000	939.500	0.000	3265.000	55730.000	52740.000	106.475%	234.600
σ		269.900	15.550	0.000	13.260	695.400	403.700	3.421%	4.056
%RSD		1.120	1.655	0.000	0.406	1.248	0.765	3.213	1.729
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:46:26	38.970	36.590	835.000	54100.000	54390.000	26.410	66.090	45.070
2	13:47:09	39.060	36.510	835.200	54220.000	54360.000	26.500	64.490	44.090
3	13:47:52	39.350	36.620	854.400	54760.000	54590.000	26.370	64.350	44.330
x		39.130	36.570	841.500	54360.000	54450.000	26.430	64.970	44.500
σ		0.199	0.059	11.140	349.100	124.300	0.065	0.965	0.507
%RSD		0.508	0.162	1.323	0.642	0.228	0.248	1.486	1.140
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:46:26	46.160	123.900	125.000	23.600	0.593	0.747	0.000	96.460
2	13:47:09	44.970	121.700	126.000	23.910	0.637	1.104	0.000	97.440
3	13:47:52	44.480	126.900	126.600	23.910	0.719	1.102	0.000	97.810
x		45.200	124.200	125.900	23.800	0.650	0.984	0.000	97.240
σ		0.862	2.613	0.825	0.181	0.064	0.205	0.000	0.698
%RSD		1.906	2.105	0.656	0.758	9.790	20.880	0.000	0.718
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:46:26	0.000	2.622	2.863	102.063%	0.068	0.054	0.620	0.411
2	13:47:09	0.000	2.735	2.739	100.518%	0.082	0.030	0.464	0.400
3	13:47:52	0.000	2.837	2.840	99.680%	0.088	0.031	0.416	0.326
x		0.000	2.731	2.814	100.754%	0.079	0.039	0.500	0.379
σ		0.000	0.108	0.066	1.209%	0.010	0.014	0.107	0.046
%RSD		0.000	3.947	2.358	1.200	12.910	35.250	21.360	12.230
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:46:26	102.489%	0.278	0.028	0.017	162.500	162.500	99.387%	98.935%
2	13:47:09	102.181%	0.289	0.051	0.017	164.200	160.100	100.904%	100.949%
3	13:47:52	100.304%	0.277	0.035	0.015	162.900	160.800	101.314%	100.999%
x		101.658%	0.281	0.038	0.017	163.200	161.100	100.535%	100.294%
σ		1.183%	0.007	0.011	0.001	0.888	1.219	1.015%	1.177%
%RSD		1.164	2.426	29.790	7.008	0.544	0.756	1.010	1.174
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	13:46:26	0.304	0.359	23.520	22.750	23.190	83.781%		
2	13:47:09	0.314	0.332	23.630	22.860	23.400	84.591%		
3	13:47:52	0.337	0.341	24.080	23.630	23.810	84.142%		
x		0.318	0.344	23.740	23.080	23.470	84.171%		
σ		0.017	0.013	0.297	0.478	0.317	0.406%		
%RSD		5.371	3.910	1.252	2.072	1.351	0.482		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:54:37	86.514%	6.424	45.880	47.090	0.000	1110.000	81410.000	80610.000
2	13:55:20	80.741%	6.225	44.690	49.850	0.000	1128.000	82930.000	82630.000
3	13:56:03	79.926%	6.547	50.740	49.430	0.000	1114.000	81560.000	81970.000
x		82.394%	6.398	47.100	48.790	0.000	1117.000	81970.000	81740.000
σ		3.591%	0.163	3.204	1.487	0.000	9.019	834.600	1033.000
%RSD		4.359	2.541	6.801	3.048	0.000	0.807	1.018	1.263

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:54:37	120400.000	5833.000	0.000	16620.000	273600.000	274700.000	90.311%	1207.000
2	13:55:20	121700.000	5951.000	0.000	16860.000	278200.000	278900.000	85.755%	1210.000
3	13:56:03	120000.000	5897.000	0.000	16760.000	277600.000	275300.000	84.706%	1198.000
x		120700.000	5893.000	0.000	16750.000	276500.000	276300.000	86.924%	1205.000
σ		887.800	59.060	0.000	120.300	2488.000	2276.000	2.980%	6.036
%RSD		0.736	1.002	0.000	0.718	0.900	0.824	3.428	0.501

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:54:37	197.700	178.500	3994.000	256900.000	259700.000	126.700	287.700	193.600
2	13:55:20	196.700	177.400	4036.000	258100.000	261200.000	125.800	282.800	192.600
3	13:56:03	194.200	179.400	4072.000	259200.000	261300.000	126.200	284.200	191.800
x		196.200	178.400	4034.000	258000.000	260700.000	126.200	284.900	192.700
σ		1.800	1.020	39.070	1173.000	859.400	0.447	2.506	0.870
%RSD		0.918	0.572	0.969	0.455	0.330	0.354	0.880	0.452

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:54:37	197.600	499.700	490.400	101.800	1.907	3.297	0.000	497.200
2	13:55:20	193.100	494.500	499.900	100.100	1.734	2.783	0.000	498.800
3	13:56:03	193.700	500.000	502.200	99.000	1.216	3.252	0.000	498.600
x		194.800	498.100	497.500	100.300	1.619	3.111	0.000	498.200
σ		2.402	3.070	6.223	1.417	0.359	0.284	0.000	0.909
%RSD		1.233	0.616	1.251	1.413	22.190	9.147	0.000	0.183

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:54:37	0.000	14.630	13.950	74.975%	0.409	0.206	2.538	1.787
2	13:55:20	0.000	14.150	14.540	74.106%	0.429	0.246	1.948	1.615
3	13:56:03	0.000	14.280	14.480	73.521%	0.353	0.190	2.150	1.737
x		0.000	14.350	14.320	74.201%	0.397	0.214	2.212	1.713
σ		0.000	0.246	0.327	0.732%	0.039	0.029	0.300	0.088
%RSD		0.000	1.714	2.285	0.986	9.813	13.540	13.560	5.148

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:54:37	80.143%	0.949	0.167	0.149	792.700	785.100	85.348%	83.512%
2	13:55:20	80.859%	0.933	0.115	0.163	785.800	767.700	87.700%	84.647%
3	13:56:03	80.028%	0.998	0.134	0.129	794.300	783.100	88.004%	85.865%
x		80.343%	0.960	0.139	0.147	791.000	778.600	87.018%	84.675%
σ		0.450%	0.034	0.027	0.017	4.539	9.538	1.454%	1.177%
%RSD		0.560	3.519	19.220	11.500	0.574	1.225	1.671	1.390

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	13:54:37	1.706	1.753	120.600	118.400	119.700	62.098%
2	13:55:20	1.777	1.737	120.000	117.300	118.600	63.738%
3	13:56:03	1.708	1.736	120.100	117.200	118.600	64.627%
x		1.730	1.742	120.200	117.600	119.000	63.488%
σ		0.041	0.010	0.330	0.694	0.668	1.283%
%RSD		2.342	0.568	0.274	0.590	0.561	2.021

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:02:48	79.182%	46.740	839.500	863.000	0.000	47270.000	125300.000	125000.000
2	14:03:31	77.419%	46.960	849.900	866.600	0.000	47170.000	125800.000	125500.000
3	14:04:14	76.556%	46.480	849.200	862.800	0.000	46660.000	124400.000	124000.000
x		77.719%	46.730	846.200	864.100	0.000	47030.000	125200.000	124800.000
σ		1.338%	0.243	5.790	2.129	0.000	330.800	731.000	729.400
%RSD		1.722	0.521	0.684	0.246	0.000	0.703	0.584	0.584
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:02:48	173900.000	11310.000	0.000	74820.000	323400.000	320900.000	81.825%	2145.000
2	14:03:31	173300.000	11210.000	0.000	74730.000	324600.000	324800.000	79.351%	2145.000
3	14:04:14	170800.000	11060.000	0.000	73440.000	323400.000	320700.000	78.063%	2138.000
x		172700.000	11190.000	0.000	74330.000	323800.000	322100.000	79.746%	2143.000
σ		1657.000	125.300	0.000	770.500	682.600	2300.000	1.912%	3.952
%RSD		0.960	1.120	0.000	1.037	0.211	0.714	2.398	0.184
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:02:48	737.600	401.800	4458.000	267700.000	270700.000	571.500	724.800	401.200
2	14:03:31	740.900	403.700	4479.000	267900.000	271400.000	567.500	721.800	398.400
3	14:04:14	733.500	404.400	4492.000	269000.000	272200.000	562.700	709.000	396.600
x		737.300	403.300	4476.000	268200.000	271400.000	567.200	718.500	398.800
σ		3.668	1.394	17.200	703.900	754.800	4.372	8.382	2.321
%RSD		0.497	0.346	0.384	0.262	0.278	0.771	1.167	0.582
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:02:48	403.100	868.800	868.500	130.100	8.306	9.982	0.000	1561.000
2	14:03:31	404.500	873.900	872.900	129.900	8.345	9.525	0.000	1569.000
3	14:04:14	398.800	857.400	865.900	126.600	8.409	8.793	0.000	1557.000
x		402.100	866.700	869.100	128.900	8.353	9.433	0.000	1562.000
σ		2.955	8.425	3.550	1.989	0.052	0.600	0.000	6.019
%RSD		0.735	0.972	0.408	1.543	0.623	6.359	0.000	0.385
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:02:48	0.000	969.400	981.100	64.898%	42.840	41.860	43.110	40.010
2	14:03:31	0.000	970.300	983.800	64.205%	42.860	41.780	43.200	41.220
3	14:04:14	0.000	965.000	982.000	64.212%	42.720	41.660	40.780	39.370
x		0.000	968.200	982.300	64.438%	42.810	41.770	42.360	40.200
σ		0.000	2.850	1.370	0.398%	0.075	0.102	1.370	0.943
%RSD		0.000	0.294	0.140	0.618	0.175	0.244	3.234	2.347
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:02:48	72.069%	427.200	84.150	83.910	2770.000	2735.000	77.474%	74.727%
2	14:03:31	71.600%	430.800	85.450	84.610	2771.000	2750.000	77.951%	75.918%
3	14:04:14	71.910%	427.500	84.220	85.240	2733.000	2700.000	77.927%	75.048%
x		71.860%	428.500	84.610	84.590	2758.000	2729.000	77.784%	75.231%
σ		0.238%	2.037	0.732	0.664	21.720	25.640	0.269%	0.616%
%RSD		0.332	0.475	0.865	0.785	0.787	0.940	0.346	0.819
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:02:48	47.710	47.340	143.500	143.300	144.400	56.723%		
2	14:03:31	48.900	48.550	147.700	145.900	147.100	56.137%		
3	14:04:14	47.340	47.630	144.000	144.400	144.500	56.948%		
x		47.990	47.840	145.100	144.500	145.400	56.603%		
σ		0.814	0.632	2.261	1.265	1.537	0.419%		
%RSD		1.696	1.320	1.559	0.875	1.058	0.740		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:00	73.397%	50.470	920.100	917.400	0.000	52550.000	126100.000	125000.000
2	14:11:43	72.440%	49.640	916.000	924.800	0.000	52590.000	126200.000	126600.000
3	14:12:26	72.773%	48.850	898.600	916.000	0.000	51970.000	125000.000	124800.000
x		72.870%	49.650	911.600	919.400	0.000	52370.000	125800.000	125500.000
σ		0.486%	0.812	11.370	4.707	0.000	346.100	696.700	1002.000
%RSD		0.667	1.635	1.248	0.512	0.000	0.661	0.554	0.799

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:00	122300.000	14300.000	0.000	66360.000	336000.000	333900.000	73.436%	2220.000
2	14:11:43	123500.000	14400.000	0.000	66770.000	336300.000	335700.000	71.572%	2217.000
3	14:12:26	120800.000	14310.000	0.000	66610.000	336300.000	334100.000	70.818%	2226.000
x		122200.000	14340.000	0.000	66580.000	336200.000	334600.000	71.942%	2221.000
σ		1334.000	55.220	0.000	210.200	158.000	968.200	1.347%	4.282
%RSD		1.092	0.385	0.000	0.316	0.047	0.289	1.873	0.193

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:00	722.400	388.900	4830.000	270600.000	273300.000	626.100	782.200	436.400
2	14:11:43	710.400	388.500	4917.000	274400.000	275700.000	633.800	795.300	438.400
3	14:12:26	716.600	384.200	4916.000	273100.000	276000.000	622.600	787.100	430.500
x		716.400	387.200	4888.000	272700.000	275000.000	627.500	788.200	435.100
σ		5.970	2.617	49.750	1950.000	1500.000	5.767	6.625	4.095
%RSD		0.833	0.676	1.018	0.715	0.545	0.919	0.841	0.941

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:00	445.500	943.100	943.500	140.300	10.170	10.310	0.000	1674.000
2	14:11:43	440.900	949.700	953.100	139.300	10.000	11.740	0.000	1695.000
3	14:12:26	434.900	939.400	944.200	139.000	10.350	11.800	0.000	1689.000
x		440.400	944.000	947.000	139.500	10.170	11.280	0.000	1686.000
σ		5.339	5.234	5.336	0.665	0.173	0.841	0.000	11.250
%RSD		1.212	0.554	0.564	0.476	1.703	7.457	0.000	0.667

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:00	0.000	1223.000	1233.000	58.388%	49.520	47.360	45.600	36.100
2	14:11:43	0.000	1244.000	1263.000	57.635%	49.240	47.980	46.690	37.160
3	14:12:26	0.000	1233.000	1261.000	56.891%	49.440	48.470	46.960	38.460
x		0.000	1234.000	1252.000	57.638%	49.400	47.930	46.420	37.240
σ		0.000	10.530	16.800	0.748%	0.141	0.554	0.718	1.183
%RSD		0.000	0.853	1.341	1.298	0.284	1.156	1.547	3.176

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:00	71.216%	1868.000	407.000	404.600	2650.000	2606.000	78.890%	76.420%
2	14:11:43	70.229%	1886.000	417.700	420.300	2669.000	2646.000	78.115%	77.078%
3	14:12:26	69.982%	1891.000	421.500	425.800	2670.000	2639.000	78.193%	76.525%
x		70.476%	1882.000	415.400	416.900	2663.000	2630.000	78.399%	76.675%
σ		0.653%	12.520	7.494	11.020	11.420	21.290	0.426%	0.354%
%RSD		0.926	0.665	1.804	2.643	0.429	0.809	0.544	0.461

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:00	52.610	53.060	136.500	135.600	137.000	57.818%
2	14:11:43	53.110	53.040	138.900	137.200	138.700	57.745%
3	14:12:26	53.460	53.110	141.500	140.900	140.100	56.737%
x		53.060	53.070	139.000	137.900	138.600	57.433%
σ		0.427	0.036	2.482	2.730	1.566	0.604%
%RSD		0.805	0.068	1.786	1.980	1.130	1.052

240-22852-B-2-B 5/7/2013 2:18:29 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:19:12	85.624%	4.278	52.080	50.790	0.000	796.100	57210.000	57070.000
2	14:19:55	83.959%	4.595	46.130	48.910	0.000	785.700	56270.000	56380.000
3	14:20:38	85.015%	4.164	46.140	48.050	0.000	782.200	56050.000	56110.000
x		84.866%	4.346	48.120	49.250	0.000	788.000	56510.000	56520.000
σ		0.843%	0.223	3.431	1.401	0.000	7.245	613.200	497.700
%RSD		0.993	5.140	7.131	2.844	0.000	0.919	1.085	0.881

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:19:12	92380.000	5607.000	0.000	14330.000	213600.000	210600.000	87.708%	923.900
2	14:19:55	90040.000	5677.000	0.000	14440.000	215200.000	212900.000	86.074%	921.900
3	14:20:38	90610.000	5643.000	0.000	14170.000	214500.000	213300.000	86.110%	927.600
x		91010.000	5642.000	0.000	14310.000	214400.000	212300.000	86.631%	924.500
σ		1221.000	34.760	0.000	133.300	764.000	1458.000	0.933%	2.856
%RSD		1.341	0.616	0.000	0.932	0.356	0.687	1.077	0.309

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:19:12	150.900	134.800	2818.000	186000.000	187700.000	86.810	216.100	142.000
2	14:19:55	152.400	133.200	2805.000	184400.000	186600.000	85.680	208.700	138.700
3	14:20:38	150.600	133.300	2813.000	185700.000	187300.000	84.600	209.500	136.300
x		151.300	133.800	2812.000	185400.000	187200.000	85.700	211.400	139.000
σ		0.954	0.913	6.173	849.400	595.900	1.110	4.074	2.865
%RSD		0.630	0.682	0.220	0.458	0.318	1.295	1.927	2.061

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:19:12	140.300	365.500	360.400	74.300	1.115	2.811	0.000	420.700
2	14:19:55	138.000	358.800	361.300	71.330	1.286	2.200	0.000	424.600
3	14:20:38	140.300	360.400	355.100	72.050	1.615	2.234	0.000	427.100
x		139.500	361.600	358.900	72.560	1.339	2.415	0.000	424.100
σ		1.350	3.500	3.365	1.551	0.254	0.343	0.000	3.212
%RSD		0.968	0.968	0.937	2.137	18.990	14.220	0.000	0.757

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:19:12	0.000	11.560	11.910	76.277%	0.297	0.165	1.810	1.362
2	14:19:55	0.000	12.080	11.620	75.646%	0.227	0.194	1.629	1.184
3	14:20:38	0.000	11.680	11.560	75.057%	0.313	0.140	1.714	1.220
x		0.000	11.770	11.700	75.660%	0.279	0.166	1.718	1.255
σ		0.000	0.271	0.189	0.610%	0.046	0.027	0.091	0.094
%RSD		0.000	2.303	1.616	0.807	16.310	16.290	5.275	7.479

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:19:12	80.954%	3.922	1.818	1.897	571.500	566.200	84.961%	82.466%
2	14:19:55	80.905%	3.299	1.444	1.674	570.800	568.400	84.497%	83.458%
3	14:20:38	80.219%	3.235	1.300	1.133	572.600	564.100	85.286%	83.271%
x		80.693%	3.486	1.521	1.568	571.600	566.200	84.915%	83.065%
σ		0.410%	0.380	0.267	0.393	0.881	2.135	0.396%	0.527%
%RSD		0.509	10.890	17.550	25.040	0.154	0.377	0.466	0.635

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:19:12	1.309	1.333	85.290	83.450	84.390	65.714%
2	14:19:55	1.333	1.291	86.470	84.070	85.140	66.560%
3	14:20:38	1.322	1.358	86.560	84.900	86.350	65.916%
x		1.321	1.327	86.110	84.140	85.290	66.063%
σ		0.012	0.034	0.708	0.725	0.992	0.442%
%RSD		0.902	2.527	0.822	0.862	1.162	0.669

CCV 801624 5/7/2013 2:26:41 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:27:24	91.557%	98.630	84.280	85.470	0.000	49170.000	50370.000	50210.000
2	14:28:07	87.192%	103.000	86.660	87.790	0.000	49140.000	50120.000	49650.000
3	14:28:50	88.994%	101.100	88.250	87.730	0.000	48810.000	49970.000	50130.000
x		89.248%	100.911%	86.394%	86.995%	0.000	98.077%	100.311%	99.999%
σ		2.194%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		2.458	2.188	2.316	1.519	0.000	0.406	0.404	0.608

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:27:24	520.000	5320.000	0.000	50290.000	49690.000	47390.000	83.739%	104.000
2	14:28:07	514.000	5218.000	0.000	49480.000	50430.000	46750.000	80.988%	103.700
3	14:28:50	511.000	5189.000	0.000	49150.000	49840.000	47010.000	82.326%	101.300
x		103.003%	104.848%	0.000	99.275%	99.970%	94.104%	82.351%	102.991%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.376%	n/a
%RSD		0.883	1.309	0.000	1.181	0.780	0.679	1.671	1.454

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:27:24	100.700	100.500	496.400	25270.000	25480.000	102.400	106.100	106.000
2	14:28:07	100.200	98.950	495.200	24920.000	24790.000	100.100	103.100	103.600
3	14:28:50	100.800	101.300	498.900	25090.000	25200.000	101.100	103.900	103.900
x		100.575%	100.244%	99.362%	100.379%	100.623%	101.186%	104.365%	104.502%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.338	1.190	0.381	0.681	1.370	1.134	1.519	1.292

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:27:24	107.100	106.100	104.000	103.400	106.000	103.600	0.000	95.210
2	14:28:07	101.800	103.500	102.600	99.750	101.500	100.500	0.000	96.130
3	14:28:50	103.800	105.000	106.100	101.200	100.700	96.090	0.000	94.630
x		104.235%	104.879%	104.216%	101.442%	102.776%	100.050%	0.000	95.322%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		2.558	1.227	1.715	1.798	2.773	3.748	0.000	0.793

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:27:24	84.009%	99.680	102.300	78.950%	99.350	99.290	95.650	98.150
2	14:28:07	82.208%	104.800	104.300	76.920%	99.120	99.750	96.740	98.630
3	14:28:50	83.905%	105.800	106.700	78.565%	99.420	99.480	96.380	97.900
x		83.374%	103.411%	104.446%	78.145%	99.298%	99.506%	96.258%	98.224%
σ		1.011%	n/a	n/a	1.078%	n/a	n/a	n/a	n/a
%RSD		1.213	3.166	2.077	1.380	0.158	0.234	0.574	0.378

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:27:24	82.391%	96.680	95.490	97.160	96.970	96.770	82.843%	83.127%
2	14:28:07	80.009%	98.030	98.990	96.840	99.030	94.860	83.505%	83.637%
3	14:28:50	82.528%	97.950	97.710	96.740	97.740	94.880	85.045%	86.067%
x		81.643%	97.551%	97.397%	96.917%	97.909%	95.501%	83.798%	84.277%
σ		1.417%	n/a	n/a	n/a	n/a	n/a	1.130%	1.571%
%RSD		1.735	0.779	1.814	0.227	1.063	1.150	1.349	1.864

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:27:24	96.450	95.660	97.410	97.630	97.350	70.258%
2	14:28:07	96.260	96.140	96.590	96.320	96.910	71.061%
3	14:28:50	97.020	96.240	97.590	96.860	97.550	72.778%
x		96.578%	96.015%	97.198%	96.936%	97.269%	71.366%
σ		n/a	n/a	n/a	n/a	n/a	1.287%
%RSD		0.412	0.323	0.546	0.678	0.334	1.804

CCB2 5/7/2013 2:34:55 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:35:38	122.367%	0.009	-10.430	-9.738	0.000	3.210	10.570	9.881
2	14:36:21	121.068%	0.028	-10.680	-10.240	0.000	4.465	12.070	12.200
3	14:37:04	114.687%	-0.009	-10.720	-10.980	0.000	6.917	10.430	12.220
x		119.374%	0.009	-10.610	-10.320	0.000	4.864	11.020	11.430
σ		4.110%	0.019	0.156	0.627	0.000	1.886	0.910	1.344
%RSD		3.443	200.200	1.473	6.076	0.000	38.770	8.253	11.750
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:35:38	4.281	-1.052	0.000	5.478	6.807	12.030	119.427%	0.024
2	14:36:21	5.420	3.237	0.000	5.145	15.060	18.140	120.640%	-0.236
3	14:37:04	5.844	-0.967	0.000	7.619	15.650	13.460	117.495%	-0.284
x		5.182	0.406	0.000	6.081	12.500	14.540	119.187%	-0.165
σ		0.808	2.452	0.000	1.343	4.943	3.198	1.586%	0.166
%RSD		15.600	603.500	0.000	22.080	39.530	21.990	1.331	100.400
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:35:38	0.046	0.055	0.285	11.650	12.970	0.014	0.039	0.040
2	14:36:21	0.031	0.026	0.396	12.080	13.100	0.017	0.038	0.031
3	14:37:04	0.060	0.079	0.356	13.460	14.340	0.036	0.055	0.031
x		0.046	0.053	0.346	12.400	13.470	0.022	0.044	0.034
σ		0.014	0.027	0.056	0.945	0.757	0.012	0.010	0.005
%RSD		31.400	50.230	16.260	7.621	5.618	52.330	21.830	16.100
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:35:38	0.006	-0.089	-0.018	0.044	-0.018	-0.189	0.000	0.051
2	14:36:21	0.050	0.058	-0.101	-0.123	0.018	-0.633	0.000	0.046
3	14:37:04	0.039	-0.035	0.125	-0.114	-0.158	-0.545	0.000	0.047
x		0.031	-0.022	0.002	-0.064	-0.053	-0.456	0.000	0.048
σ		0.023	0.074	0.114	0.094	0.093	0.235	0.000	0.003
%RSD		73.200	336.900	5507.000	146.000	175.800	51.670	0.000	6.431
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:35:38	102.687%	0.415	0.446	104.093%	0.018	0.004	0.174	0.153
2	14:36:21	107.169%	0.395	0.427	107.265%	0.011	0.004	0.049	0.021
3	14:37:04	104.851%	0.383	0.380	104.691%	0.018	0.004	0.140	0.108
x		104.902%	0.398	0.418	105.350%	0.016	0.004	0.121	0.094
σ		2.241%	0.016	0.034	1.685%	0.004	0.000	0.065	0.067
%RSD		2.136	4.129	8.186	1.600	24.200	9.161	53.600	71.070
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:35:38	99.875%	0.439	0.169	0.215	0.026	0.081	95.553%	95.069%
2	14:36:21	105.072%	0.514	0.163	0.148	0.029	0.076	101.494%	101.489%
3	14:37:04	103.262%	0.490	0.191	0.149	0.030	0.082	99.444%	99.542%
x		102.736%	0.481	0.174	0.171	0.028	0.080	98.830%	98.700%
σ		2.638%	0.039	0.014	0.038	0.002	0.003	3.018%	3.292%
%RSD		2.568	8.058	8.293	22.490	8.266	4.148	3.054	3.335
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:35:38	0.013	0.010	0.043	0.041	0.044	93.153%		
2	14:36:21	0.018	0.014	0.037	0.053	0.047	100.063%		
3	14:37:04	0.013	0.010	0.049	0.042	0.046	99.355%		
x		0.015	0.011	0.043	0.045	0.046	97.523%		
σ		0.003	0.002	0.006	0.007	0.002	3.802%		
%RSD		20.280	19.150	13.870	14.350	3.607	3.898		

MB 180-70060/1-A 5/7/2013 2:43:09 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:43:52	97.438%	-0.019	-9.803	-10.380	0.000	5.473	0.732	1.012
2	14:44:35	95.737%	0.029	-10.180	-10.300	0.000	7.332	1.317	1.703
3	14:45:18	95.007%	0.017	-10.560	-11.030	0.000	7.433	1.845	1.757
x		96.061%	0.009	-10.180	-10.570	0.000	6.746	1.298	1.491
σ		1.247%	0.025	0.377	0.399	0.000	1.103	0.557	0.415
%RSD		1.298	278.200	3.701	3.771	0.000	16.360	42.900	27.870

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:43:52	1.494	1.955	0.000	6.149	2.256	1.822	93.124%	-0.290
2	14:44:35	1.643	5.641	0.000	6.756	5.394	2.884	89.431%	-0.047
3	14:45:18	1.684	1.327	0.000	8.400	-0.187	2.593	88.742%	-0.182
x		1.607	2.974	0.000	7.102	2.488	2.433	90.432%	-0.173
σ		0.100	2.331	0.000	1.164	2.797	0.548	2.357%	0.122
%RSD		6.216	78.370	0.000	16.400	112.400	22.540	2.606	70.570

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:43:52	0.194	0.127	0.093	4.839	4.938	0.001	0.015	0.083
2	14:44:35	0.062	0.145	0.075	4.120	3.217	-0.005	-0.004	0.112
3	14:45:18	0.006	0.078	0.096	3.394	2.729	-0.001	0.026	0.064
x		0.087	0.117	0.088	4.117	3.628	-0.002	0.013	0.087
σ		0.096	0.034	0.011	0.722	1.161	0.003	0.015	0.024
%RSD		110.600	29.500	12.750	17.540	31.990	158.300	121.900	27.760

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:43:52	0.157	0.620	0.191	0.243	0.154	0.218	0.000	0.011
2	14:44:35	0.162	0.345	0.518	-0.496	0.038	-0.488	0.000	0.008
3	14:45:18	0.037	0.278	0.172	-0.059	-0.114	-0.644	0.000	0.023
x		0.119	0.414	0.294	-0.104	0.026	-0.305	0.000	0.014
σ		0.070	0.181	0.195	0.372	0.135	0.459	0.000	0.008
%RSD		59.440	43.650	66.360	357.600	518.100	150.700	0.000	57.250

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:43:52	89.857%	0.261	0.192	90.647%	-0.001	-0.000	0.205	0.153
2	14:44:35	89.143%	0.250	0.231	90.257%	-0.006	-0.005	0.084	0.047
3	14:45:18	89.484%	0.201	0.164	89.180%	-0.006	-0.005	0.037	0.026
x		89.494%	0.237	0.196	90.028%	-0.004	-0.004	0.109	0.075
σ		0.357%	0.032	0.033	0.760%	0.003	0.003	0.087	0.068
%RSD		0.399	13.390	17.070	0.844	71.470	84.270	79.480	90.360

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:43:52	88.631%	0.595	0.095	0.112	-0.045	0.011	85.701%	85.382%
2	14:44:35	88.599%	0.576	0.097	0.120	-0.063	0.031	88.050%	88.202%
3	14:45:18	88.147%	0.458	0.116	0.094	-0.036	-0.005	87.974%	88.294%
x		88.459%	0.543	0.103	0.109	-0.048	0.012	87.242%	87.293%
σ		0.271%	0.074	0.012	0.013	0.014	0.018	1.335%	1.655%
%RSD		0.306	13.700	11.400	12.180	28.510	145.200	1.530	1.896

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:43:52	0.011	0.015	0.462	0.468	0.472	96.797%
2	14:44:35	0.016	0.004	0.372	0.409	0.417	95.888%
3	14:45:18	0.001	0.006	0.353	0.331	0.334	97.039%
x		0.009	0.008	0.395	0.402	0.408	96.575%
σ		0.008	0.006	0.058	0.069	0.070	0.607%
%RSD		79.300	67.710	14.760	17.120	17.160	0.628

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:52:04	71.226%	51.810	930.600	923.200	0.000	45600.000	45700.000	45740.000
2	14:52:47	70.125%	49.970	956.700	933.100	0.000	44400.000	44700.000	45370.000
3	14:53:30	70.716%	50.070	950.200	918.300	0.000	44450.000	44700.000	44370.000
x		70.689%	50.620	945.800	924.900	0.000	44810.000	45030.000	45160.000
σ		0.551%	1.030	13.590	7.533	0.000	679.000	575.000	709.600
%RSD		0.779	2.036	1.436	0.815	0.000	1.515	1.277	1.571

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:52:04	1796.000	9137.000	0.000	45900.000	47050.000	43950.000	61.647%	983.000
2	14:52:47	1758.000	8962.000	0.000	46240.000	47350.000	43800.000	59.904%	970.000
3	14:53:30	1731.000	8804.000	0.000	45580.000	46990.000	44450.000	58.631%	986.800
x		1762.000	8968.000	0.000	45910.000	47130.000	44070.000	60.061%	979.900
σ		32.850	166.700	0.000	327.100	192.100	340.900	1.514%	8.836
%RSD		1.865	1.859	0.000	0.713	0.407	0.774	2.521	0.902

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:52:04	471.500	188.500	475.200	947.500	1069.000	468.200	475.000	243.000
2	14:52:47	468.400	187.100	473.200	951.800	1080.000	469.100	471.900	239.700
3	14:53:30	470.400	188.700	479.800	957.700	1037.000	464.600	470.500	239.800
x		470.100	188.100	476.100	952.300	1062.000	467.300	472.400	240.900
σ		1.567	0.885	3.407	5.130	22.560	2.357	2.318	1.878
%RSD		0.333	0.471	0.716	0.539	2.125	0.504	0.491	0.780

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:52:04	240.300	491.200	479.300	35.900	8.747	8.525	0.000	892.600
2	14:52:47	240.700	476.800	480.900	35.590	9.881	10.010	0.000	888.200
3	14:53:30	237.100	482.300	488.500	37.470	9.021	10.120	0.000	886.300
x		239.400	483.400	482.900	36.320	9.216	9.550	0.000	889.100
σ		1.982	7.244	4.902	1.008	0.592	0.889	0.000	3.239
%RSD		0.828	1.498	1.015	2.775	6.421	9.312	0.000	0.364

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:52:04	64.994%	970.300	993.400	61.698%	48.260	48.260	48.180	43.380
2	14:52:47	65.690%	970.900	1001.000	61.752%	47.800	48.790	48.280	41.630
3	14:53:30	65.777%	974.000	1006.000	61.688%	47.950	48.760	46.940	41.470
x		65.487%	971.700	1000.000	61.713%	48.000	48.600	47.800	42.160
σ		0.429%	1.976	6.470	0.034%	0.233	0.296	0.746	1.061
%RSD		0.655	0.203	0.647	0.055	0.486	0.610	1.560	2.516

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:52:04	64.844%	1881.000	467.100	466.600	1822.000	1804.000	70.428%	70.356%
2	14:52:47	65.543%	1903.000	469.100	467.400	1826.000	1819.000	71.657%	72.340%
3	14:53:30	65.624%	1903.000	471.100	468.600	1830.000	1823.000	72.283%	73.794%
x		65.337%	1896.000	469.100	467.500	1826.000	1815.000	71.456%	72.164%
σ		0.429%	12.540	1.976	1.033	4.127	9.696	0.944%	1.726%
%RSD		0.656	0.661	0.421	0.221	0.226	0.534	1.320	2.391

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:52:04	44.180	43.780	19.430	21.150	20.210	60.872%
2	14:52:47	44.420	43.580	19.090	20.480	19.670	62.654%
3	14:53:30	44.920	44.650	18.780	20.540	19.640	62.260%
x		44.510	44.000	19.100	20.720	19.840	61.929%
σ		0.374	0.566	0.326	0.368	0.321	0.936%
%RSD		0.841	1.285	1.705	1.776	1.616	1.511

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:00:14	76.755%	-0.004	-3.063	-2.706	0.000	63.840	1.897	2.148
2	15:00:57	74.283%	0.028	-3.856	-3.608	0.000	64.500	1.106	2.007
3	15:01:40	71.279%	-0.019	-5.176	-3.722	0.000	66.290	1.296	1.487
x		74.106%	0.002	-4.032	-3.345	0.000	64.880	1.433	1.881
σ		2.743%	0.024	1.067	0.556	0.000	1.266	0.413	0.348
%RSD		3.701	1570.000	26.470	16.630	0.000	1.951	28.830	18.530

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:00:14	4.785	27.760	0.000	27.600	13.060	23.300	66.234%	0.072
2	15:00:57	4.546	27.300	0.000	26.610	-1.881	20.360	63.008%	0.337
3	15:01:40	4.259	25.010	0.000	27.990	14.930	23.960	60.226%	0.320
x		4.530	26.690	0.000	27.400	8.703	22.540	63.156%	0.243
σ		0.264	1.477	0.000	0.709	9.213	1.916	3.007%	0.148
%RSD		5.818	5.533	0.000	2.588	105.900	8.500	4.761	61.100

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:00:14	-1.469	3.489	0.745	3.744	3.536	0.095	6.135	0.353
2	15:00:57	-1.482	3.018	0.750	0.326	3.670	0.121	5.626	0.350
3	15:01:40	0.067	3.135	0.729	-0.191	5.206	0.029	5.894	0.347
x		-0.961	3.214	0.741	1.293	4.137	0.082	5.885	0.350
σ		0.891	0.245	0.011	2.138	0.928	0.047	0.255	0.003
%RSD		92.670	7.630	1.426	165.400	22.440	57.710	4.325	0.751

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:00:14	0.402	3.351	3.738	-0.491	-0.184	-0.382	0.000	0.079
2	15:00:57	0.433	3.163	2.750	0.714	-0.231	-0.108	0.000	0.051
3	15:01:40	0.385	2.954	3.524	-0.383	0.049	0.178	0.000	0.042
x		0.407	3.156	3.337	-0.053	-0.122	-0.104	0.000	0.058
σ		0.024	0.198	0.520	0.666	0.150	0.280	0.000	0.019
%RSD		5.972	6.286	15.580	1247.000	123.200	268.400	0.000	33.720

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:00:14	71.096%	2.201	2.516	70.145%	0.018	-0.005	-0.049	-0.090
2	15:00:57	68.910%	2.192	2.300	68.420%	-0.003	-0.001	0.022	0.016
3	15:01:40	65.616%	2.446	2.450	65.695%	-0.009	-0.007	-0.010	-0.012
x		68.541%	2.280	2.422	68.087%	0.002	-0.004	-0.012	-0.029
σ		2.759%	0.144	0.111	2.244%	0.014	0.003	0.036	0.055
%RSD		4.025	6.324	4.566	3.295	867.100	77.720	287.300	190.600

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:00:14	72.769%	4.821	0.126	0.068	0.098	0.100	75.501%	76.416%
2	15:00:57	70.886%	4.300	0.097	0.127	0.001	0.101	76.859%	77.470%
3	15:01:40	68.547%	4.147	0.146	0.061	0.071	0.079	74.354%	75.622%
x		70.734%	4.423	0.123	0.085	0.057	0.093	75.571%	76.503%
σ		2.115%	0.353	0.025	0.036	0.050	0.012	1.254%	0.927%
%RSD		2.990	7.982	19.990	42.490	87.760	12.960	1.660	1.212

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:00:14	0.068	0.076	0.707	0.629	0.663	72.074%
2	15:00:57	0.072	0.062	0.531	0.559	0.553	76.336%
3	15:01:40	0.070	0.069	0.546	0.561	0.540	71.225%
x		0.070	0.069	0.595	0.583	0.586	73.211%
σ		0.002	0.007	0.097	0.040	0.068	2.739%
%RSD		3.189	9.843	16.350	6.792	11.560	3.741

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:08:24	93.553%	-0.007	-7.481	-8.102	0.000	18.960	1.682	1.982
2	15:09:07	90.644%	-0.006	-8.816	-8.675	0.000	21.100	1.732	1.292
3	15:09:50	86.770%	-0.019	-7.764	-9.267	0.000	22.330	1.429	1.664
x		90.323%	-0.011	-8.020	-8.682	0.000	20.800	1.614	1.646
σ		3.403%	0.007	0.703	0.583	0.000	1.703	0.162	0.345
%RSD		3.768	67.250	8.769	6.710	0.000	8.188	10.040	20.990

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:08:24	6.740	6.070	0.000	9.613	15.180	22.100	83.507%	-0.169
2	15:09:07	4.888	7.309	0.000	10.310	15.620	18.200	81.854%	-0.202
3	15:09:50	5.961	4.943	0.000	11.490	12.860	20.800	80.595%	0.066
x		5.863	6.107	0.000	10.470	14.550	20.370	81.985%	-0.102
σ		0.929	1.183	0.000	0.947	1.481	1.984	1.460%	0.146
%RSD		15.850	19.380	0.000	9.045	10.180	9.739	1.781	144.000

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:08:24	-0.892	0.769	0.260	1.656	1.806	0.028	1.443	0.100
2	15:09:07	-0.444	0.641	0.238	0.697	0.995	0.025	1.470	0.176
3	15:09:50	0.161	0.703	0.211	-0.451	2.126	0.014	1.415	0.104
x		-0.392	0.705	0.236	0.634	1.642	0.022	1.442	0.127
σ		0.529	0.064	0.025	1.055	0.583	0.007	0.028	0.042
%RSD		135.000	9.095	10.550	166.400	35.490	32.220	1.911	33.450

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:08:24	0.150	0.963	1.216	-0.316	-0.123	0.101	0.000	0.027
2	15:09:07	0.224	1.218	1.174	0.049	0.153	-0.201	0.000	0.035
3	15:09:50	0.264	1.089	1.212	-0.155	0.053	-0.519	0.000	0.025
x		0.213	1.090	1.200	-0.141	0.027	-0.206	0.000	0.029
σ		0.058	0.128	0.023	0.183	0.140	0.310	0.000	0.005
%RSD		27.130	11.700	1.918	130.000	510.400	150.300	0.000	18.250

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:08:24	83.543%	0.657	0.749	84.419%	-0.007	0.001	0.089	0.071
2	15:09:07	84.115%	0.806	0.727	84.447%	0.009	-0.007	0.042	0.044
3	15:09:50	83.088%	0.649	0.712	83.381%	0.002	-0.003	-0.048	-0.023
x		83.582%	0.704	0.730	84.083%	0.001	-0.003	0.028	0.031
σ		0.515%	0.088	0.019	0.608%	0.008	0.004	0.070	0.049
%RSD		0.616	12.520	2.552	0.723	566.900	132.200	250.400	159.200

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:08:24	82.860%	0.384	0.018	0.035	-0.035	0.017	83.683%	84.398%
2	15:09:07	85.416%	0.322	0.019	0.034	-0.017	0.022	86.035%	87.093%
3	15:09:50	83.888%	0.355	0.042	0.029	-0.017	0.022	85.696%	86.019%
x		84.054%	0.354	0.027	0.033	-0.023	0.020	85.138%	85.836%
σ		1.286%	0.031	0.014	0.004	0.010	0.003	1.271%	1.357%
%RSD		1.530	8.804	50.850	11.150	45.470	12.820	1.493	1.581

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:08:24	0.023	0.023	0.302	0.278	0.289	83.438%
2	15:09:07	0.030	0.018	0.255	0.284	0.277	85.623%
3	15:09:50	0.016	0.016	0.237	0.231	0.235	86.318%
x		0.023	0.019	0.265	0.264	0.267	85.126%
σ		0.007	0.004	0.034	0.029	0.028	1.503%
%RSD		29.920	18.150	12.770	11.130	10.590	1.766

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:16:34	78.120%	49.510	911.100	863.700	0.000	42020.000	42360.000	42600.000
2	15:17:17	74.909%	50.430	904.600	853.000	0.000	41040.000	40950.000	41400.000
3	15:18:00	73.874%	50.020	892.400	867.900	0.000	40510.000	41000.000	40860.000
x		75.634%	49.990	902.700	861.500	0.000	41190.000	41440.000	41620.000
σ		2.214%	0.465	9.507	7.653	0.000	766.600	799.500	890.500
%RSD		2.927	0.929	1.053	0.888	0.000	1.861	1.929	2.140

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:16:34	1658.000	8372.000	0.000	43150.000	45240.000	42120.000	64.323%	919.300
2	15:17:17	1604.000	8176.000	0.000	42280.000	43540.000	41250.000	62.036%	911.100
3	15:18:00	1591.000	8101.000	0.000	42340.000	44890.000	41910.000	60.958%	914.200
x		1618.000	8216.000	0.000	42590.000	44550.000	41760.000	62.439%	914.900
σ		35.420	139.800	0.000	489.900	898.100	454.600	1.718%	4.144
%RSD		2.189	1.701	0.000	1.150	2.016	1.089	2.752	0.453

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:16:34	453.600	183.200	457.100	927.500	1029.000	455.100	465.000	234.600
2	15:17:17	443.100	180.600	454.600	913.300	996.500	447.300	456.500	230.000
3	15:18:00	450.800	179.000	453.100	904.900	979.300	437.400	451.400	226.200
x		449.200	181.000	454.900	915.300	1002.000	446.600	457.600	230.300
σ		5.445	2.124	2.043	11.400	25.190	8.893	6.870	4.205
%RSD		1.212	1.173	0.449	1.246	2.515	1.991	1.501	1.826

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:16:34	235.600	463.800	474.600	37.080	9.285	9.231	0.000	870.200
2	15:17:17	228.600	463.200	464.100	36.050	8.879	8.912	0.000	864.800
3	15:18:00	227.200	466.800	468.600	33.480	9.054	8.082	0.000	877.600
x		230.500	464.600	469.100	35.540	9.073	8.742	0.000	870.900
σ		4.472	1.929	5.260	1.858	0.204	0.594	0.000	6.402
%RSD		1.940	0.415	1.121	5.229	2.246	6.789	0.000	0.735

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:16:34	67.620%	949.300	971.400	63.963%	47.600	46.820	47.500	42.310
2	15:17:17	66.446%	936.700	973.800	63.681%	46.810	46.210	47.440	41.540
3	15:18:00	65.552%	962.000	981.200	62.688%	47.180	47.490	48.430	40.480
x		66.540%	949.400	975.400	63.444%	47.200	46.840	47.790	41.450
σ		1.037%	12.650	5.127	0.670%	0.395	0.640	0.558	0.919
%RSD		1.559	1.332	0.526	1.056	0.836	1.366	1.168	2.218

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:16:34	67.221%	1849.000	460.400	453.100	1790.000	1765.000	72.473%	72.944%
2	15:17:17	67.631%	1850.000	460.600	462.300	1778.000	1755.000	73.746%	75.027%
3	15:18:00	66.718%	1874.000	465.500	459.200	1778.000	1772.000	74.323%	75.195%
x		67.190%	1858.000	462.200	458.200	1782.000	1764.000	73.514%	74.389%
σ		0.457%	13.810	2.880	4.683	6.934	8.366	0.947%	1.254%
%RSD		0.680	0.744	0.623	1.022	0.389	0.474	1.288	1.686

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:16:34	43.900	43.940	17.910	19.070	18.630	61.479%
2	15:17:17	43.680	43.400	17.210	19.340	18.260	64.030%
3	15:18:00	44.480	44.630	17.540	19.430	18.700	63.884%
x		44.020	43.990	17.550	19.280	18.530	63.131%
σ		0.411	0.617	0.352	0.188	0.236	1.433%
%RSD		0.933	1.402	2.008	0.974	1.273	2.269

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:24:44	82.251%	48.300	891.500	844.700	0.000	41090.000	41350.000	41750.000
2	15:25:27	78.567%	47.330	887.600	850.600	0.000	39390.000	40230.000	40040.000
3	15:26:10	75.047%	50.490	920.600	877.300	0.000	41540.000	41980.000	41930.000
x		78.622%	48.710	899.900	857.500	0.000	40670.000	41190.000	41240.000
σ		3.602%	1.618	18.010	17.390	0.000	1133.000	884.600	1043.000
%RSD		4.582	3.321	2.002	2.028	0.000	2.785	2.148	2.529

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:24:44	1636.000	8233.000	0.000	42610.000	43960.000	42120.000	65.579%	918.900
2	15:25:27	1566.000	7954.000	0.000	41500.000	43230.000	40760.000	62.625%	903.000
3	15:26:10	1617.000	8183.000	0.000	43360.000	44310.000	42190.000	59.430%	935.400
x		1606.000	8123.000	0.000	42490.000	43830.000	41690.000	62.545%	919.100
σ		36.300	148.500	0.000	938.700	552.400	808.000	3.076%	16.230
%RSD		2.260	1.828	0.000	2.209	1.260	1.938	4.918	1.766

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:24:44	453.500	182.400	452.900	912.700	1021.000	450.000	463.000	232.200
2	15:25:27	443.400	178.100	444.400	886.100	965.900	430.400	446.600	222.200
3	15:26:10	456.800	183.900	460.800	916.500	1000.000	445.200	454.400	231.500
x		451.200	181.400	452.700	905.100	995.700	441.800	454.700	228.600
σ		6.989	2.992	8.209	16.540	27.810	10.210	8.235	5.561
%RSD		1.549	1.649	1.813	1.827	2.793	2.311	1.811	2.432

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:24:44	231.400	461.300	466.700	36.730	8.933	9.551	0.000	877.500
2	15:25:27	225.300	456.400	457.600	34.670	8.632	9.154	0.000	848.100
3	15:26:10	228.300	471.600	469.700	36.000	9.662	9.647	0.000	879.700
x		228.300	463.100	464.700	35.800	9.076	9.451	0.000	868.500
σ		3.029	7.775	6.311	1.046	0.529	0.261	0.000	17.640
%RSD		1.326	1.679	1.358	2.923	5.833	2.765	0.000	2.031

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:24:44	67.229%	945.600	971.700	63.909%	47.820	48.410	47.530	41.200
2	15:25:27	67.067%	937.200	964.900	62.725%	46.710	46.400	46.310	40.740
3	15:26:10	64.572%	961.000	1000.000	60.929%	47.960	47.840	48.080	41.840
x		66.289%	947.900	979.000	62.521%	47.500	47.550	47.300	41.260
σ		1.490%	12.050	18.850	1.501%	0.682	1.037	0.904	0.554
%RSD		2.247	1.271	1.925	2.400	1.435	2.181	1.911	1.342

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:24:44	66.014%	1875.000	456.900	459.400	1806.000	1777.000	71.524%	71.845%
2	15:25:27	65.522%	1853.000	460.100	456.300	1775.000	1749.000	72.760%	74.128%
3	15:26:10	64.859%	1897.000	472.600	470.000	1804.000	1789.000	72.143%	72.518%
x		65.465%	1875.000	463.200	461.900	1795.000	1772.000	72.142%	72.831%
σ		0.580%	22.480	8.302	7.162	17.550	20.470	0.618%	1.173%
%RSD		0.885	1.199	1.792	1.551	0.978	1.156	0.856	1.611

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:24:44	45.160	44.370	17.660	19.920	18.800	60.512%
2	15:25:27	43.640	43.800	17.520	19.050	18.240	62.049%
3	15:26:10	44.910	45.050	17.930	19.830	18.750	61.402%
x		44.570	44.400	17.700	19.600	18.600	61.321%
σ		0.813	0.625	0.205	0.477	0.311	0.771%
%RSD		1.824	1.409	1.160	2.434	1.674	1.258

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:32:56	76.726%	53.200	1016.000	970.300	0.000	45680.000	46210.000	46330.000
2	15:33:39	77.980%	51.900	944.300	914.200	0.000	42500.000	42570.000	42590.000
3	15:34:22	75.722%	52.630	986.900	949.500	0.000	44600.000	45020.000	45120.000
x		76.810%	52.580	982.500	944.700	0.000	44260.000	44600.000	44680.000
σ		1.131%	0.651	36.150	28.380	0.000	1616.000	1857.000	1913.000
%RSD		1.473	1.238	3.680	3.004	0.000	3.651	4.164	4.282

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:32:56	1834.000	8803.000	0.000	47030.000	48080.000	45770.000	64.089%	973.900
2	15:33:39	1702.000	8302.000	0.000	44560.000	46040.000	43330.000	62.660%	927.500
3	15:34:22	1754.000	8714.000	0.000	46630.000	47260.000	45520.000	59.016%	976.200
x		1763.000	8606.000	0.000	46070.000	47130.000	44870.000	61.922%	959.200
σ		66.310	267.100	0.000	1323.000	1028.000	1345.000	2.616%	27.450
%RSD		3.761	3.104	0.000	2.873	2.181	2.996	4.224	2.862

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:32:56	499.400	200.700	502.100	1015.000	1138.000	494.400	508.300	253.400
2	15:33:39	467.500	189.300	480.600	963.400	1059.000	465.700	476.400	239.800
3	15:34:22	495.800	199.800	506.500	1020.000	1099.000	490.400	496.300	249.500
x		487.600	196.600	496.400	999.200	1099.000	483.500	493.700	247.600
σ		17.480	6.310	13.830	31.110	39.180	15.550	16.100	6.987
%RSD		3.586	3.210	2.786	3.113	3.567	3.215	3.261	2.822

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:32:56	247.300	511.800	517.300	37.590	10.330	9.324	0.000	966.200
2	15:33:39	242.900	489.700	484.700	34.560	9.059	8.405	0.000	923.200
3	15:34:22	248.100	511.100	513.400	39.270	10.020	9.904	0.000	952.500
x		246.100	504.200	505.100	37.140	9.802	9.211	0.000	947.300
σ		2.806	12.510	17.780	2.384	0.662	0.755	0.000	21.980
%RSD		1.140	2.482	3.521	6.419	6.754	8.201	0.000	2.320

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:32:56	66.354%	1011.000	1041.000	63.137%	51.990	52.770	51.090	46.020
2	15:33:39	66.536%	976.100	998.200	63.340%	49.830	50.980	50.100	43.360
3	15:34:22	64.591%	1004.000	1045.000	60.986%	52.810	52.850	50.740	43.470
x		65.827%	997.100	1028.000	62.488%	51.540	52.200	50.640	44.280
σ		1.074%	18.480	25.820	1.304%	1.537	1.058	0.497	1.505
%RSD		1.632	1.853	2.512	2.087	2.981	2.026	0.981	3.398

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:32:56	66.528%	1961.000	475.000	477.100	1959.000	1953.000	71.867%	73.262%
2	15:33:39	66.049%	1912.000	466.700	465.500	1899.000	1893.000	73.776%	74.905%
3	15:34:22	64.795%	1988.000	483.800	482.900	1980.000	1949.000	72.002%	73.128%
x		65.790%	1954.000	475.200	475.200	1946.000	1932.000	72.549%	73.765%
σ		0.895%	38.450	8.579	8.853	42.240	33.360	1.065%	0.989%
%RSD		1.360	1.968	1.805	1.863	2.171	1.727	1.469	1.341

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:32:56	49.210	49.530	19.360	20.990	20.140	62.168%
2	15:33:39	48.560	48.950	19.360	20.710	20.090	61.928%
3	15:34:22	50.000	49.870	19.450	21.250	20.480	61.848%
x		49.260	49.450	19.390	20.980	20.230	61.981%
σ		0.722	0.465	0.049	0.268	0.213	0.166%
%RSD		1.466	0.940	0.255	1.275	1.053	0.269

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:07	100.029%	-0.008	1.573	1.827	0.000	12.320	2.845	3.508
2	15:41:50	98.197%	0.004	0.554	0.597	0.000	15.390	5.475	6.200
3	15:42:33	102.097%	-0.019	-2.844	-2.513	0.000	12.280	3.781	3.790
x		100.107%	-0.007	-0.239	-0.030	0.000	13.330	4.034	4.499
σ		1.951%	0.012	2.313	2.237	0.000	1.785	1.333	1.480
%RSD		1.949	158.100	967.000	7505.000	0.000	13.390	33.050	32.890

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:07	0.786	3.265	0.000	3.983	5.463	7.009	88.668%	0.025
2	15:41:50	0.903	3.864	0.000	6.124	-3.004	5.543	88.071%	-0.007
3	15:42:33	0.620	4.609	0.000	2.328	2.510	5.350	89.951%	0.189
x		0.770	3.913	0.000	4.145	1.656	5.968	88.897%	0.069
σ		0.142	0.673	0.000	1.903	4.298	0.907	0.961%	0.105
%RSD		18.480	17.210	0.000	45.920	259.500	15.200	1.081	151.800

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:07	-0.025	0.203	0.101	1.514	1.484	0.042	-0.014	0.037
2	15:41:50	-0.198	0.143	0.159	1.852	1.640	0.048	0.047	0.057
3	15:42:33	0.067	0.143	0.131	-0.097	1.014	0.029	0.016	0.082
x		-0.052	0.163	0.130	1.090	1.379	0.040	0.016	0.058
σ		0.134	0.035	0.029	1.042	0.326	0.009	0.030	0.022
%RSD		258.700	21.260	22.490	95.590	23.640	23.590	186.400	38.450

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:07	0.063	0.305	0.334	-0.227	-0.161	-0.153	0.000	0.075
2	15:41:50	0.038	0.383	0.347	-0.198	-0.156	-0.768	0.000	0.127
3	15:42:33	0.052	0.302	0.179	-0.254	-0.098	-0.722	0.000	0.073
x		0.051	0.330	0.287	-0.226	-0.138	-0.547	0.000	0.092
σ		0.013	0.046	0.094	0.028	0.035	0.343	0.000	0.031
%RSD		25.090	13.970	32.660	12.520	25.290	62.590	0.000	33.310

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:07	88.362%	0.983	1.246	89.414%	0.003	0.007	0.088	0.063
2	15:41:50	89.618%	1.226	1.062	89.868%	0.006	0.007	0.133	0.097
3	15:42:33	91.455%	1.145	1.194	91.034%	0.002	0.012	0.047	0.025
x		89.812%	1.118	1.167	90.105%	0.004	0.009	0.089	0.062
σ		1.555%	0.124	0.095	0.836%	0.002	0.003	0.043	0.036
%RSD		1.732	11.080	8.101	0.928	51.240	31.610	48.410	57.990

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:07	87.036%	0.605	0.781	0.824	0.100	0.195	87.995%	88.216%
2	15:41:50	89.713%	0.615	0.694	0.779	0.158	0.260	89.879%	89.590%
3	15:42:33	90.919%	0.577	0.701	0.722	0.093	0.127	92.300%	92.742%
x		89.222%	0.599	0.725	0.775	0.117	0.194	90.058%	90.183%
σ		1.987%	0.020	0.049	0.051	0.036	0.066	2.158%	2.321%
%RSD		2.227	3.330	6.691	6.606	30.480	34.210	2.396	2.573

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:07	0.041	0.045	0.126	0.127	0.123	87.891%
2	15:41:50	0.056	0.045	0.120	0.129	0.132	89.388%
3	15:42:33	0.044	0.049	0.115	0.112	0.121	94.318%
x		0.047	0.046	0.120	0.123	0.125	90.532%
σ		0.008	0.002	0.005	0.009	0.006	3.363%
%RSD		16.620	3.890	4.375	7.264	4.743	3.715

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:49:19	71.011%	49.780	950.400	915.400	0.000	45530.000	45320.000	45610.000
2	15:50:02	66.075%	51.750	966.700	921.500	0.000	44980.000	44580.000	44890.000
3	15:50:45	66.443%	50.440	979.800	900.800	0.000	43570.000	44100.000	43800.000
x		67.843%	50.660	965.700	912.600	0.000	44690.000	44670.000	44770.000
σ		2.749%	1.005	14.770	10.630	0.000	1010.000	610.200	911.000
%RSD		4.053	1.985	1.529	1.165	0.000	2.260	1.366	2.035
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:49:19	1768.000	8806.000	0.000	46270.000	47510.000	45300.000	58.465%	1015.000
2	15:50:02	1734.000	8714.000	0.000	46260.000	47330.000	44910.000	55.795%	1007.000
3	15:50:45	1673.000	8371.000	0.000	45180.000	47380.000	44630.000	53.348%	1006.000
x		1725.000	8631.000	0.000	45900.000	47410.000	44950.000	55.869%	1009.000
σ		47.970	229.000	0.000	625.500	93.120	337.000	2.559%	4.837
%RSD		2.780	2.654	0.000	1.363	0.196	0.750	4.580	0.479
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:49:19	493.800	198.000	500.300	1002.000	1115.000	490.000	490.000	249.300
2	15:50:02	483.600	194.900	497.900	1001.000	1098.000	484.900	477.900	245.900
3	15:50:45	482.900	194.000	500.800	992.700	1114.000	479.400	478.200	239.700
x		486.800	195.600	499.600	998.600	1109.000	484.800	482.000	245.000
σ		6.083	2.083	1.565	5.065	9.777	5.275	6.888	4.872
%RSD		1.250	1.065	0.313	0.507	0.882	1.088	1.429	1.989
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:49:19	250.600	464.700	462.600	35.430	8.627	7.937	0.000	1001.000
2	15:50:02	246.400	457.100	462.300	36.290	9.219	8.632	0.000	1012.000
3	15:50:45	240.100	454.000	454.500	37.200	7.502	8.880	0.000	988.300
x		245.700	458.600	459.800	36.310	8.449	8.483	0.000	1000.000
σ		5.281	5.508	4.566	0.884	0.872	0.489	0.000	11.630
%RSD		2.150	1.201	0.993	2.434	10.320	5.762	0.000	1.163
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:49:19	57.575%	1067.000	1081.000	59.146%	49.240	49.080	45.850	41.410
2	15:50:02	55.645%	1075.000	1080.000	57.567%	49.370	49.820	46.680	40.650
3	15:50:45	55.484%	1049.000	1074.000	56.870%	48.540	48.110	47.030	40.010
x		56.235%	1064.000	1079.000	57.861%	49.050	49.000	46.520	40.690
σ		1.164%	13.580	3.624	1.166%	0.446	0.856	0.603	0.701
%RSD		2.069	1.277	0.336	2.015	0.910	1.747	1.295	1.722
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:49:19	62.422%	1977.000	462.600	459.000	1854.000	1829.000	71.734%	72.564%
2	15:50:02	61.674%	1975.000	468.700	465.000	1839.000	1819.000	72.600%	73.788%
3	15:50:45	61.331%	1964.000	461.500	458.100	1827.000	1800.000	72.820%	73.808%
x		61.809%	1972.000	464.300	460.700	1840.000	1816.000	72.385%	73.387%
σ		0.558%	7.028	3.866	3.714	13.610	14.820	0.574%	0.713%
%RSD		0.902	0.356	0.833	0.806	0.740	0.816	0.794	0.971
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:49:19	45.200	45.090	18.100	20.250	19.150	59.795%		
2	15:50:02	45.680	45.640	18.330	20.050	19.140	60.570%		
3	15:50:45	45.000	44.790	18.070	19.390	18.790	61.738%		
x		45.290	45.170	18.170	19.900	19.030	60.701%		
σ		0.348	0.432	0.141	0.450	0.201	0.978%		
%RSD		0.769	0.957	0.778	2.260	1.055	1.612		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:57:32	70.593%	50.780	948.300	911.300	0.000	45170.000	45390.000	45960.000
2	15:58:14	66.806%	49.980	980.000	939.000	0.000	45000.000	44070.000	44020.000
3	15:58:57	64.846%	52.120	971.600	928.800	0.000	43880.000	43960.000	44410.000
x		67.415%	50.960	966.600	926.300	0.000	44680.000	44470.000	44800.000
σ		2.921%	1.080	16.410	13.980	0.000	699.600	796.300	1030.000
%RSD		4.333	2.120	1.698	1.510	0.000	1.566	1.790	2.300

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:57:32	1766.000	8851.000	0.000	46800.000	48830.000	45880.000	56.192%	1030.000
2	15:58:14	1725.000	8718.000	0.000	46500.000	47520.000	45370.000	54.389%	1000.000
3	15:58:57	1700.000	8581.000	0.000	46090.000	46980.000	45160.000	52.246%	975.300
x		1730.000	8717.000	0.000	46460.000	47780.000	45470.000	54.276%	1002.000
σ		32.990	135.000	0.000	356.800	949.000	369.200	1.976%	27.320
%RSD		1.907	1.548	0.000	0.768	1.986	0.812	3.640	2.727

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:57:32	488.000	197.800	497.300	1004.000	1104.000	491.100	487.200	247.000
2	15:58:14	484.600	192.700	496.900	993.500	1110.000	480.300	480.800	241.300
3	15:58:57	479.700	193.700	492.300	981.500	1097.000	475.800	473.700	239.600
x		484.100	194.700	495.500	993.100	1104.000	482.400	480.600	242.600
σ		4.175	2.726	2.742	11.330	6.105	7.819	6.734	3.852
%RSD		0.862	1.400	0.553	1.141	0.553	1.621	1.401	1.588

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:57:32	248.500	455.200	457.400	34.190	8.748	7.676	0.000	979.400
2	15:58:14	248.000	452.900	460.000	32.880	7.759	8.863	0.000	987.500
3	15:58:57	241.700	450.200	455.000	36.340	7.821	8.583	0.000	980.800
x		246.100	452.800	457.500	34.470	8.109	8.374	0.000	982.600
σ		3.773	2.464	2.478	1.746	0.554	0.621	0.000	4.368
%RSD		1.534	0.544	0.542	5.065	6.830	7.412	0.000	0.445

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:57:32	57.105%	1048.000	1069.000	57.267%	49.340	50.260	45.720	40.450
2	15:58:14	55.953%	1052.000	1079.000	56.024%	49.790	50.220	46.880	40.810
3	15:58:57	55.186%	1061.000	1080.000	55.685%	47.710	48.610	46.050	40.150
x		56.081%	1054.000	1076.000	56.326%	48.950	49.690	46.210	40.470
σ		0.966%	6.526	6.080	0.833%	1.093	0.939	0.598	0.330
%RSD		1.723	0.619	0.565	1.478	2.234	1.889	1.294	0.815

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:57:32	60.603%	1984.000	468.900	463.800	1848.000	1834.000	69.470%	70.769%
2	15:58:14	59.003%	2025.000	476.000	473.100	1854.000	1825.000	71.058%	71.857%
3	15:58:57	59.721%	1991.000	470.200	464.700	1833.000	1819.000	71.260%	72.307%
x		59.775%	2000.000	471.700	467.200	1845.000	1826.000	70.596%	71.644%
σ		0.801%	21.530	3.741	5.130	11.200	7.736	0.980%	0.791%
%RSD		1.341	1.076	0.793	1.098	0.607	0.424	1.388	1.103

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:57:32	44.990	45.220	18.210	19.830	18.890	57.855%
2	15:58:14	45.510	45.850	18.000	19.700	18.830	59.449%
3	15:58:57	45.240	44.990	17.960	20.020	18.840	59.941%
x		45.250	45.350	18.050	19.850	18.850	59.082%
σ		0.258	0.444	0.133	0.163	0.032	1.090%
%RSD		0.571	0.978	0.736	0.818	0.168	1.846

CCV 801624 5/7/2013 4:05:00 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:43	90.636%	103.900	95.950	97.160	0.000	47670.000	48800.000	48550.000
2	16:06:26	87.040%	105.300	97.170	98.460	0.000	48290.000	48860.000	48200.000
3	16:07:09	86.769%	101.000	92.490	92.310	0.000	45460.000	46230.000	46980.000
x		88.148%	103.393%	95.202%	95.976%	0.000	94.286%	95.927%	95.820%
σ		2.158%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		2.449	2.152	2.547	3.378	0.000	3.155	3.129	1.726

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:43	498.300	5032.000	0.000	48500.000	49370.000	46260.000	78.073%	102.400
2	16:06:26	490.500	5005.000	0.000	49210.000	49650.000	46530.000	75.210%	101.800
3	16:07:09	473.200	4813.000	0.000	47090.000	46850.000	45380.000	76.196%	101.600
x		97.466%	99.000%	0.000	96.540%	97.248%	92.109%	76.493%	101.915%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.454%	n/a
%RSD		2.639	2.410	0.000	2.240	3.174	1.300	1.901	0.424

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:43	99.890	99.240	495.200	25290.000	25240.000	102.600	105.700	105.100
2	16:06:26	100.200	102.700	502.100	25530.000	25460.000	102.000	103.500	105.700
3	16:07:09	96.210	96.510	486.400	24450.000	24490.000	97.720	97.220	100.800
x		98.775%	99.478%	98.915%	100.367%	100.250%	100.769%	102.115%	103.870%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.252	3.113	1.584	2.267	2.042	2.642	4.288	2.588

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:43	105.000	104.400	103.600	103.200	102.300	100.600	0.000	95.740
2	16:06:26	107.300	105.700	104.800	99.760	101.300	99.830	0.000	94.930
3	16:07:09	98.420	100.900	101.000	96.480	100.200	96.850	0.000	93.070
x		103.577%	103.687%	103.113%	99.810%	101.235%	99.099%	0.000	94.579%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		4.446	2.373	1.889	3.360	1.040	2.001	0.000	1.444

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:43	77.309%	103.000	105.800	73.183%	101.700	100.300	98.430	97.920
2	16:06:26	77.031%	103.100	105.900	73.361%	99.430	100.500	96.490	98.100
3	16:07:09	77.789%	101.800	103.800	74.579%	97.010	97.440	96.530	96.720
x		77.376%	102.597%	105.169%	73.708%	99.383%	99.437%	97.151%	97.582%
σ		0.383%	n/a	n/a	0.760%	n/a	n/a	n/a	n/a
%RSD		0.495	0.715	1.090	1.031	2.362	1.742	1.144	0.766

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:43	75.715%	97.340	96.970	95.900	94.310	95.520	76.753%	78.281%
2	16:06:26	75.095%	98.830	98.760	98.450	95.040	95.590	78.094%	79.473%
3	16:07:09	76.620%	95.920	96.270	95.070	91.060	91.730	80.783%	81.449%
x		75.810%	97.364%	97.335%	96.472%	93.468%	94.280%	78.543%	79.735%
σ		0.767%	n/a	n/a	n/a	n/a	n/a	2.052%	1.600%
%RSD		1.011	1.492	1.317	1.824	2.267	2.343	2.613	2.007

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:43	96.750	96.460	98.240	97.160	97.430	65.843%
2	16:06:26	96.660	97.190	97.960	97.220	97.800	66.866%
3	16:07:09	93.950	93.930	94.570	94.280	94.770	69.010%
x		95.785%	95.860%	96.920%	96.223%	96.666%	67.240%
σ		n/a	n/a	n/a	n/a	n/a	1.616%
%RSD		1.663	1.781	2.108	1.746	1.710	2.404

CCB3 5/7/2013 4:13:14 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:57	113.962%	-0.009	-6.196	-5.854	0.000	9.304	6.170	7.232
2	16:14:40	110.517%	0.002	-6.602	-7.130	0.000	15.120	12.950	12.190
3	16:15:23	112.797%	0.012	-7.157	-7.025	0.000	14.020	11.140	12.040
x		112.425%	0.001	-6.652	-6.670	0.000	12.820	10.090	10.490
σ		1.752%	0.010	0.482	0.708	0.000	3.089	3.511	2.820
%RSD		1.559	736.600	7.249	10.620	0.000	24.110	34.810	26.890
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:57	2.252	-0.528	0.000	0.507	-0.990	9.323	103.238%	-0.240
2	16:14:40	2.722	1.441	0.000	3.791	8.592	12.360	104.511%	-0.095
3	16:15:23	2.786	0.159	0.000	2.379	1.385	13.990	104.161%	-0.183
x		2.587	0.357	0.000	2.226	2.996	11.890	103.970%	-0.173
σ		0.292	0.999	0.000	1.647	4.990	2.370	0.657%	0.073
%RSD		11.270	280.000	0.000	74.010	166.600	19.930	0.632	42.180
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:57	-0.052	0.065	0.606	10.160	8.036	0.013	0.046	0.053
2	16:14:40	0.102	0.032	0.607	11.710	8.852	0.037	0.097	0.044
3	16:15:23	0.007	0.024	0.685	12.330	9.928	0.027	0.071	0.068
x		0.019	0.040	0.632	11.400	8.939	0.026	0.072	0.055
σ		0.078	0.021	0.046	1.119	0.949	0.012	0.026	0.012
%RSD		408.500	53.040	7.220	9.815	10.610	45.540	35.570	22.010
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:57	0.041	0.110	0.131	-0.049	0.032	0.157	0.000	0.039
2	16:14:40	0.134	0.045	0.047	-0.044	-0.030	-0.314	0.000	0.055
3	16:15:23	0.075	0.054	0.046	0.002	-0.271	-0.440	0.000	0.042
x		0.083	0.069	0.075	-0.030	-0.089	-0.199	0.000	0.045
σ		0.047	0.035	0.048	0.028	0.160	0.315	0.000	0.009
%RSD		56.500	50.320	65.030	93.920	179.000	158.100	0.000	19.250
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:57	99.505%	0.673	0.785	100.526%	0.003	0.007	0.171	0.116
2	16:14:40	100.725%	0.594	0.705	101.883%	0.027	0.011	0.176	0.113
3	16:15:23	101.948%	0.627	0.582	102.087%	0.026	0.015	0.175	0.127
x		100.726%	0.631	0.691	101.499%	0.019	0.011	0.174	0.118
σ		1.222%	0.040	0.102	0.848%	0.014	0.004	0.003	0.007
%RSD		1.213	6.346	14.820	0.836	74.590	40.760	1.513	6.194
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:57	96.189%	0.278	0.101	0.071	-0.005	0.042	93.042%	93.046%
2	16:14:40	99.211%	0.324	0.133	0.148	0.050	0.118	95.909%	95.406%
3	16:15:23	98.350%	0.341	0.165	0.120	0.002	0.096	95.850%	96.814%
x		97.917%	0.314	0.133	0.113	0.016	0.085	94.934%	95.089%
σ		1.557%	0.033	0.032	0.038	0.030	0.039	1.639%	1.904%
%RSD		1.590	10.440	24.250	34.100	190.100	45.990	1.726	2.003
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:13:57	0.052	0.051	0.201	0.200	0.203	93.434%		
2	16:14:40	0.058	0.063	0.213	0.188	0.212	95.474%		
3	16:15:23	0.066	0.060	0.232	0.205	0.209	96.108%		
x		0.059	0.058	0.215	0.198	0.208	95.006%		
σ		0.007	0.006	0.015	0.009	0.005	1.397%		
%RSD		12.110	10.930	7.114	4.320	2.296	1.471		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:22:11	84.060%	0.176	2.955	2.737	0.000	2343.000	1605.000	1595.000
2	16:22:54	82.651%	0.080	2.620	3.490	0.000	2281.000	1544.000	1565.000
3	16:23:37	78.952%	0.145	2.874	2.013	0.000	2306.000	1517.000	1519.000
x		81.888%	0.134	2.816	2.747	0.000	2310.000	1555.000	1559.000
σ		2.638%	0.049	0.175	0.738	0.000	31.350	45.440	38.130
%RSD		3.222	36.330	6.206	26.880	0.000	1.357	2.921	2.445
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:22:11	250.000	1608.000	0.000	1204.000	490.100	392.400	67.487%	3.551
2	16:22:54	244.000	1564.000	0.000	1202.000	421.200	417.900	62.435%	3.082
3	16:23:37	243.300	1535.000	0.000	1177.000	415.100	387.600	59.788%	2.875
x		245.800	1569.000	0.000	1194.000	442.100	399.300	63.236%	3.169
σ		3.652	36.670	0.000	15.070	41.660	16.290	3.912%	0.346
%RSD		1.486	2.337	0.000	1.262	9.423	4.080	6.186	10.930
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:22:11	3.797	4.857	2.381	236.500	240.900	0.243	0.733	0.760
2	16:22:54	-0.153	4.485	2.430	230.700	237.300	0.176	0.673	0.720
3	16:23:37	1.382	4.252	2.428	231.600	231.800	0.254	0.875	0.802
x		1.675	4.531	2.413	232.900	236.700	0.224	0.760	0.761
σ		1.991	0.305	0.028	3.117	4.583	0.042	0.104	0.041
%RSD		118.800	6.742	1.159	1.338	1.937	18.810	13.640	5.370
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:22:11	0.841	3.414	3.960	-0.203	-0.205	-0.252	0.000	9.946
2	16:22:54	0.643	3.633	3.418	0.480	-0.257	-0.815	0.000	9.760
3	16:23:37	0.812	3.852	3.415	0.113	-0.237	-0.332	0.000	9.890
x		0.765	3.633	3.598	0.130	-0.233	-0.467	0.000	9.865
σ		0.107	0.219	0.314	0.342	0.026	0.305	0.000	0.096
%RSD		13.970	6.035	8.720	263.400	11.250	65.310	0.000	0.970
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:22:11	68.858%	1.290	1.505	68.291%	0.010	-0.003	-0.001	-0.034
2	16:22:54	65.926%	1.326	1.435	64.918%	-0.005	0.016	-0.027	-0.058
3	16:23:37	64.379%	1.437	1.397	63.272%	-0.000	-0.007	-0.099	-0.082
x		66.388%	1.351	1.446	65.493%	0.002	0.002	-0.042	-0.058
σ		2.275%	0.077	0.055	2.558%	0.008	0.012	0.051	0.024
%RSD		3.426	5.688	3.777	3.906	449.200	525.500	121.200	42.080
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:22:11	69.210%	11.980	0.671	0.810	10.040	9.351	73.468%	74.245%
2	16:22:54	67.737%	11.630	0.651	0.678	9.186	9.524	73.290%	73.825%
3	16:23:37	66.068%	11.120	0.810	0.726	9.144	9.657	71.646%	72.456%
x		67.672%	11.580	0.711	0.738	9.456	9.511	72.801%	73.509%
σ		1.572%	0.434	0.087	0.067	0.504	0.153	1.005%	0.935%
%RSD		2.324	3.748	12.190	9.048	5.331	1.613	1.380	1.272
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:22:11	0.035	0.047	0.591	0.582	0.582	67.134%		
2	16:22:54	0.051	0.046	0.552	0.588	0.553	66.105%		
3	16:23:37	0.054	0.050	0.499	0.522	0.519	65.213%		
x		0.047	0.048	0.547	0.564	0.551	66.151%		
σ		0.010	0.002	0.046	0.036	0.031	0.962%		
%RSD		21.710	4.490	8.469	6.439	5.705	1.454		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:30:24	92.447%	0.006	-7.813	-7.024	0.000	471.700	319.700	324.300
2	16:31:07	89.076%	0.033	-7.032	-8.113	0.000	477.000	322.900	327.900
3	16:31:50	90.671%	0.006	-7.381	-7.924	0.000	453.200	303.800	313.700
x		90.731%	0.015	-7.408	-7.687	0.000	467.300	315.500	322.000
σ		1.686%	0.015	0.391	0.582	0.000	12.510	10.240	7.366
%RSD		1.858	102.000	5.281	7.564	0.000	2.677	3.247	2.288
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:30:24	52.320	332.300	0.000	233.500	61.600	78.760	77.924%	0.121
2	16:31:07	53.170	337.900	0.000	232.800	95.710	85.480	76.461%	0.331
3	16:31:50	49.770	323.600	0.000	222.700	68.700	81.820	77.257%	0.402
x		51.750	331.300	0.000	229.700	75.340	82.020	77.214%	0.284
σ		1.771	7.241	0.000	6.037	18.000	3.368	0.732%	0.146
%RSD		3.421	2.186	0.000	2.629	23.890	4.107	0.949	51.230
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:30:24	0.238	1.084	0.524	45.950	48.130	0.062	0.192	0.222
2	16:31:07	-0.112	0.929	0.507	45.180	50.360	0.054	0.184	0.380
3	16:31:50	0.195	1.024	0.532	42.150	47.110	0.028	0.249	0.345
x		0.107	1.012	0.521	44.430	48.530	0.048	0.208	0.316
σ		0.191	0.078	0.013	2.008	1.665	0.017	0.036	0.083
%RSD		177.900	7.725	2.484	4.519	3.430	36.120	17.100	26.300
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:30:24	0.258	1.249	0.981	-0.361	-0.063	-0.475	0.000	2.052
2	16:31:07	0.397	1.100	1.029	0.249	-0.175	-0.515	0.000	1.893
3	16:31:50	0.219	1.075	0.623	0.105	-0.312	-0.281	0.000	1.736
x		0.291	1.142	0.878	-0.002	-0.183	-0.424	0.000	1.894
σ		0.094	0.094	0.222	0.319	0.125	0.126	0.000	0.158
%RSD		32.110	8.234	25.260	14620.000	68.150	29.660	0.000	8.326
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:30:24	79.243%	0.150	0.144	79.219%	-0.005	-0.014	0.055	0.040
2	16:31:07	78.500%	0.137	0.145	79.118%	-0.001	-0.012	-0.040	-0.023
3	16:31:50	80.656%	0.106	0.171	80.524%	-0.003	-0.006	0.001	0.020
x		79.466%	0.131	0.153	79.620%	-0.003	-0.011	0.005	0.012
σ		1.095%	0.023	0.015	0.784%	0.002	0.004	0.048	0.032
%RSD		1.379	17.160	9.932	0.985	68.320	37.070	873.600	260.300
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:30:24	78.934%	0.343	0.028	0.041	1.554	1.999	81.374%	81.700%
2	16:31:07	79.804%	0.425	0.043	0.044	1.853	1.974	82.094%	82.548%
3	16:31:50	81.491%	0.396	0.039	0.042	1.923	1.788	85.229%	85.384%
x		80.076%	0.388	0.037	0.043	1.777	1.920	82.899%	83.211%
σ		1.300%	0.042	0.008	0.001	0.196	0.116	2.050%	1.929%
%RSD		1.624	10.760	21.080	3.047	11.020	6.013	2.473	2.319
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:30:24	0.009	0.018	0.164	0.194	0.196	79.177%		
2	16:31:07	0.017	0.018	0.196	0.166	0.191	81.274%		
3	16:31:50	0.020	0.018	0.186	0.180	0.193	86.126%		
x		0.015	0.018	0.182	0.180	0.193	82.193%		
σ		0.005	0.000	0.016	0.014	0.003	3.565%		
%RSD		34.210	0.684	8.790	7.727	1.410	4.337		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:38:38	81.065%	45.970	882.000	848.500	0.000	44040.000	43300.000	43740.000
2	16:39:21	77.963%	43.970	875.100	828.000	0.000	42930.000	42060.000	42520.000
3	16:40:04	77.215%	44.550	875.600	839.900	0.000	42940.000	42560.000	42540.000
x		78.748%	44.830	877.500	838.800	0.000	43300.000	42640.000	42930.000
σ		2.042%	1.030	3.829	10.260	0.000	638.300	625.300	696.300
%RSD		2.593	2.298	0.436	1.223	0.000	1.474	1.467	1.622

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:38:38	1923.000	9817.000	0.000	45290.000	46960.000	43480.000	62.954%	949.400
2	16:39:21	1853.000	9457.000	0.000	44380.000	46450.000	43160.000	59.369%	955.100
3	16:40:04	1840.000	9439.000	0.000	44780.000	46340.000	43130.000	58.029%	949.900
x		1872.000	9571.000	0.000	44820.000	46580.000	43260.000	60.117%	951.500
σ		44.830	213.400	0.000	452.000	327.400	196.100	2.546%	3.138
%RSD		2.395	2.230	0.000	1.009	0.703	0.453	4.235	0.330

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:38:38	474.100	194.500	475.900	1198.000	1354.000	476.500	476.500	241.800
2	16:39:21	464.100	188.300	477.600	1203.000	1285.000	467.200	464.200	236.900
3	16:40:04	469.400	189.000	479.700	1201.000	1317.000	468.500	461.100	232.900
x		469.200	190.600	477.700	1201.000	1319.000	470.700	467.300	237.200
σ		5.023	3.384	1.895	2.160	34.860	5.043	8.119	4.443
%RSD		1.071	1.775	0.397	0.180	2.644	1.071	1.737	1.873

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:38:38	245.100	446.500	444.100	33.560	8.139	10.260	0.000	991.700
2	16:39:21	235.600	439.200	444.200	35.310	7.494	7.831	0.000	979.500
3	16:40:04	234.400	434.500	453.700	34.210	8.260	7.827	0.000	986.800
x		238.400	440.000	447.300	34.360	7.964	8.640	0.000	986.000
σ		5.841	6.013	5.488	0.887	0.412	1.403	0.000	6.133
%RSD		2.451	1.367	1.227	2.582	5.171	16.240	0.000	0.622

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:38:38	59.827%	1045.000	1056.000	60.646%	48.630	49.180	44.680	39.400
2	16:39:21	59.056%	1041.000	1062.000	59.494%	48.090	48.240	45.600	40.040
3	16:40:04	58.479%	1047.000	1066.000	59.396%	48.360	48.410	47.340	38.670
x		59.121%	1045.000	1061.000	59.845%	48.360	48.610	45.880	39.370
σ		0.676%	2.961	5.376	0.695%	0.267	0.500	1.351	0.686
%RSD		1.144	0.283	0.506	1.161	0.552	1.029	2.945	1.741

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:38:38	63.654%	1964.000	461.000	457.400	1885.000	1855.000	69.769%	71.193%
2	16:39:21	64.345%	1942.000	458.800	458.300	1852.000	1841.000	71.852%	73.341%
3	16:40:04	64.469%	1954.000	455.200	456.500	1864.000	1836.000	73.296%	74.033%
x		64.156%	1953.000	458.300	457.400	1867.000	1844.000	71.639%	72.856%
σ		0.439%	11.100	2.934	0.876	16.910	9.796	1.773%	1.480%
%RSD		0.684	0.568	0.640	0.192	0.906	0.531	2.475	2.032

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	16:38:38	46.930	46.940	18.640	20.910	19.790	58.235%
2	16:39:21	47.190	47.120	19.280	21.000	20.200	59.802%
3	16:40:04	47.530	47.520	18.800	20.670	19.680	60.768%
x		47.220	47.190	18.910	20.860	19.890	59.602%
σ		0.302	0.294	0.335	0.171	0.272	1.278%
%RSD		0.639	0.624	1.773	0.818	1.368	2.144

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:46:50	84.289%	46.520	914.700	887.000	0.000	47100.000	45990.000	46160.000
2	16:47:33	79.510%	48.350	929.800	867.700	0.000	46720.000	45380.000	45820.000
3	16:48:16	73.897%	49.510	948.600	911.900	0.000	46940.000	45900.000	46720.000
x		79.232%	48.130	931.000	888.900	0.000	46920.000	45760.000	46230.000
σ		5.202%	1.506	16.970	22.150	0.000	190.400	329.500	453.800
%RSD		6.565	3.130	1.823	2.492	0.000	0.406	0.720	0.982

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:46:50	1953.000	9981.000	0.000	48460.000	48840.000	46330.000	62.953%	1005.000
2	16:47:33	1942.000	10080.000	0.000	48730.000	50030.000	47070.000	59.708%	1018.000
3	16:48:16	1912.000	9999.000	0.000	47450.000	49110.000	45830.000	57.959%	992.200
x		1936.000	10020.000	0.000	48210.000	49330.000	46410.000	60.207%	1005.000
σ		21.050	53.980	0.000	676.400	623.600	624.100	2.534%	12.950
%RSD		1.087	0.539	0.000	1.403	1.264	1.345	4.209	1.289

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:46:50	497.900	202.800	501.400	1235.000	1347.000	500.500	500.900	251.200
2	16:47:33	497.300	202.400	506.400	1237.000	1342.000	491.400	490.600	251.100
3	16:48:16	492.100	199.300	499.400	1214.000	1300.000	481.800	482.200	243.000
x		495.800	201.500	502.400	1229.000	1330.000	491.200	491.200	248.400
σ		3.179	1.935	3.606	12.730	26.160	9.329	9.351	4.728
%RSD		0.641	0.960	0.718	1.036	1.968	1.899	1.903	1.903

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:46:50	253.300	474.400	477.100	37.270	8.291	8.567	0.000	1036.000
2	16:47:33	249.200	469.600	466.700	36.070	8.450	9.331	0.000	1030.000
3	16:48:16	243.800	465.400	473.600	36.070	9.119	8.950	0.000	1019.000
x		248.800	469.800	472.500	36.470	8.620	8.949	0.000	1029.000
σ		4.735	4.463	5.281	0.693	0.439	0.382	0.000	8.607
%RSD		1.903	0.950	1.118	1.900	5.098	4.269	0.000	0.837

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:46:50	59.874%	1084.000	1099.000	61.405%	50.760	51.390	47.090	41.430
2	16:47:33	58.591%	1087.000	1105.000	59.427%	51.850	51.430	48.820	41.190
3	16:48:16	58.357%	1088.000	1105.000	59.341%	51.490	51.680	45.490	43.240
x		58.940%	1086.000	1103.000	60.058%	51.370	51.500	47.130	41.950
σ		0.817%	2.038	3.475	1.167%	0.550	0.157	1.662	1.125
%RSD		1.386	0.188	0.315	1.944	1.071	0.305	3.527	2.681

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:46:50	63.932%	2018.000	469.900	466.600	1942.000	1930.000	70.676%	71.031%
2	16:47:33	62.854%	2053.000	479.900	477.000	1977.000	1954.000	70.974%	72.533%
3	16:48:16	62.699%	2050.000	476.200	480.700	1959.000	1920.000	72.523%	73.034%
x		63.161%	2040.000	475.300	474.800	1959.000	1935.000	71.391%	72.199%
σ		0.672%	19.270	5.007	7.329	17.580	17.330	0.992%	1.042%
%RSD		1.063	0.944	1.053	1.544	0.897	0.895	1.389	1.443

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	16:46:50	50.210	49.910	20.140	21.940	21.110	57.148%
2	16:47:33	50.800	50.250	20.150	21.790	20.950	58.341%
3	16:48:16	49.600	49.360	19.720	21.110	20.420	60.309%
x		50.200	49.840	20.000	21.610	20.830	58.599%
σ		0.603	0.448	0.243	0.440	0.364	1.597%
%RSD		1.200	0.898	1.216	2.037	1.750	2.725

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:55:00	83.157%	0.052	19.830	17.110	0.000	2987.000	1177.000	1179.000
2	16:55:43	80.350%	0.039	19.230	15.880	0.000	2940.000	1148.000	1164.000
3	16:56:26	78.805%	0.041	16.900	13.740	0.000	2888.000	1127.000	1148.000
x		80.771%	0.044	18.650	15.580	0.000	2938.000	1151.000	1164.000
σ		2.206%	0.007	1.549	1.705	0.000	49.600	25.000	15.750
%RSD		2.731	15.240	8.306	10.940	0.000	1.688	2.172	1.353

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:55:00	399.700	3730.000	0.000	1342.000	448.700	381.300	62.481%	5.771
2	16:55:43	380.000	3626.000	0.000	1351.000	352.200	401.600	60.541%	6.014
3	16:56:26	377.600	3541.000	0.000	1359.000	386.800	392.500	57.684%	4.893
x		385.700	3632.000	0.000	1351.000	395.900	391.800	60.235%	5.559
σ		12.120	94.450	0.000	8.634	48.890	10.170	2.413%	0.589
%RSD		3.142	2.600	0.000	0.639	12.350	2.595	4.007	10.600

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:55:00	6.200	17.530	4.212	889.500	891.900	0.358	2.531	0.448
2	16:55:43	5.813	17.270	4.374	873.100	876.100	0.328	2.556	0.485
3	16:56:26	4.786	16.570	4.105	871.400	875.400	0.329	2.242	0.359
x		5.600	17.120	4.230	878.000	881.100	0.338	2.443	0.431
σ		0.730	0.494	0.136	9.997	9.347	0.017	0.175	0.064
%RSD		13.040	2.886	3.203	1.139	1.061	5.024	7.147	14.960

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:55:00	0.379	6.109	5.629	0.542	-0.067	-0.410	0.000	8.618
2	16:55:43	0.450	6.014	5.946	-0.344	-0.626	-0.899	0.000	8.449
3	16:56:26	0.515	6.560	5.803	0.381	-0.150	0.288	0.000	8.370
x		0.448	6.228	5.792	0.193	-0.281	-0.340	0.000	8.479
σ		0.068	0.291	0.159	0.472	0.302	0.597	0.000	0.127
%RSD		15.150	4.678	2.745	244.600	107.300	175.400	0.000	1.496

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:55:00	64.627%	1.637	1.490	63.686%	-0.005	-0.007	-0.026	-0.002
2	16:55:43	63.714%	1.082	1.147	62.793%	0.002	-0.002	-0.002	-0.030
3	16:56:26	63.225%	0.849	1.053	61.385%	0.022	0.006	0.057	0.046
x		63.855%	1.190	1.230	62.621%	0.007	-0.001	0.010	0.005
σ		0.711%	0.405	0.230	1.160%	0.014	0.006	0.042	0.039
%RSD		1.114	34.020	18.670	1.852	208.700	701.200	434.900	785.300

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:55:00	64.895%	10.580	1.508	1.492	13.250	12.220	69.364%	70.493%
2	16:55:43	64.943%	9.989	1.094	1.206	12.190	12.510	70.961%	72.284%
3	16:56:26	64.412%	8.723	0.818	0.700	12.360	12.240	70.700%	72.485%
x		64.750%	9.764	1.140	1.132	12.600	12.320	70.342%	71.754%
σ		0.294%	0.948	0.347	0.401	0.572	0.159	0.857%	1.097%
%RSD		0.454	9.713	30.470	35.400	4.541	1.288	1.218	1.528

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	16:55:00	0.111	0.127	0.552	0.465	0.511	62.767%
2	16:55:43	0.104	0.130	0.494	0.523	0.498	63.258%
3	16:56:26	0.092	0.113	0.464	0.459	0.471	64.979%
x		0.102	0.123	0.503	0.482	0.493	63.668%
σ		0.009	0.009	0.045	0.035	0.020	1.162%
%RSD		9.184	7.107	8.856	7.301	4.086	1.825

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:03:11	83.789%	0.107	13.290	10.950	0.000	2965.000	1140.000	1180.000
2	17:03:54	80.780%	0.054	12.580	10.240	0.000	2932.000	1131.000	1146.000
3	17:04:37	77.842%	0.102	13.600	11.010	0.000	2926.000	1126.000	1141.000
x		80.804%	0.088	13.160	10.730	0.000	2941.000	1132.000	1156.000
σ		2.973%	0.029	0.527	0.429	0.000	21.160	6.990	20.920
%RSD		3.680	33.590	4.009	4.002	0.000	0.720	0.617	1.810
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:03:11	399.200	3706.000	0.000	1357.000	333.700	406.600	62.340%	6.520
2	17:03:54	393.200	3625.000	0.000	1347.000	448.600	416.200	59.145%	6.312
3	17:04:37	388.400	3601.000	0.000	1353.000	343.000	402.500	57.073%	7.080
x		393.600	3644.000	0.000	1352.000	375.100	408.500	59.519%	6.637
σ		5.394	54.800	0.000	4.777	63.820	7.023	2.653%	0.397
%RSD		1.370	1.504	0.000	0.353	17.010	1.719	4.458	5.985
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:03:11	3.418	18.060	4.046	922.200	934.500	0.386	2.554	0.376
2	17:03:54	5.358	17.590	4.419	914.100	930.400	0.382	2.444	0.303
3	17:04:37	3.688	17.630	4.109	911.900	920.500	0.348	2.118	0.404
x		4.155	17.760	4.191	916.100	928.500	0.372	2.372	0.361
σ		1.051	0.258	0.200	5.448	7.179	0.021	0.227	0.052
%RSD		25.290	1.455	4.768	0.595	0.773	5.590	9.556	14.300
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:03:11	0.357	6.532	7.303	-0.410	-0.135	-0.222	0.000	8.283
2	17:03:54	0.322	6.280	6.241	0.143	-0.485	-0.304	0.000	8.362
3	17:04:37	0.480	6.666	6.215	0.380	-0.339	0.096	0.000	8.284
x		0.386	6.493	6.586	0.038	-0.320	-0.143	0.000	8.310
σ		0.083	0.196	0.621	0.406	0.175	0.212	0.000	0.045
%RSD		21.450	3.015	9.426	1072.000	54.880	147.400	0.000	0.547
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:03:11	64.358%	0.472	0.599	63.738%	0.002	-0.007	0.020	-0.019
2	17:03:54	64.004%	0.483	0.675	63.555%	-0.007	0.017	-0.059	0.001
3	17:04:37	63.616%	0.472	0.638	62.224%	-0.007	-0.004	0.002	0.035
x		63.993%	0.476	0.637	63.173%	-0.004	0.002	-0.012	0.006
σ		0.371%	0.006	0.038	0.826%	0.005	0.013	0.041	0.027
%RSD		0.580	1.350	6.003	1.308	137.500	612.100	333.300	483.100
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:03:11	65.623%	6.523	0.440	0.443	12.910	12.590	71.004%	72.424%
2	17:03:54	65.026%	6.805	0.427	0.430	12.130	12.890	72.067%	73.084%
3	17:04:37	64.933%	6.338	0.368	0.391	13.080	12.400	72.400%	73.091%
x		65.194%	6.555	0.411	0.421	12.710	12.630	71.824%	72.867%
σ		0.374%	0.235	0.038	0.027	0.502	0.247	0.729%	0.383%
%RSD		0.574	3.587	9.343	6.454	3.955	1.956	1.015	0.526
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	17:03:11	0.079	0.087	0.533	0.487	0.504	64.585%		
2	17:03:54	0.086	0.088	0.536	0.503	0.504	65.749%		
3	17:04:37	0.069	0.090	0.448	0.495	0.491	65.167%		
x		0.078	0.088	0.505	0.495	0.500	65.167%		
σ		0.009	0.002	0.050	0.008	0.007	0.582%		
%RSD		11.000	1.853	9.903	1.588	1.497	0.893		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:11:22	79.568%	0.010	-2.885	-3.971	0.000	2243.000	131.200	136.300
2	17:12:05	76.853%	0.057	-3.875	-4.246	0.000	2248.000	131.200	130.900
3	17:12:48	76.587%	0.058	-5.118	-4.194	0.000	2204.000	130.400	132.800
x		77.669%	0.042	-3.959	-4.137	0.000	2231.000	130.900	133.300
σ		1.650%	0.027	1.119	0.146	0.000	23.980	0.473	2.752
%RSD		2.124	65.250	28.260	3.532	0.000	1.075	0.362	2.064

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:11:22	132.600	1801.000	0.000	97.060	749.300	593.700	62.114%	1.822
2	17:12:05	129.400	1792.000	0.000	102.500	619.800	638.500	58.570%	2.004
3	17:12:48	132.300	1748.000	0.000	97.550	535.000	643.400	57.577%	1.674
x		131.400	1780.000	0.000	99.040	634.700	625.200	59.420%	1.833
σ		1.807	28.160	0.000	3.015	107.900	27.400	2.385%	0.165
%RSD		1.375	1.582	0.000	3.045	17.010	4.382	4.014	9.016

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:11:22	1.242	5.174	13.410	368.000	368.700	0.371	2.522	1.062
2	17:12:05	0.550	4.543	13.290	372.100	378.400	0.401	2.526	1.108
3	17:12:48	-0.310	4.776	12.970	368.700	375.100	0.354	2.518	1.099
x		0.494	4.831	13.220	369.600	374.100	0.375	2.522	1.090
σ		0.778	0.319	0.228	2.173	4.928	0.024	0.004	0.024
%RSD		157.500	6.600	1.723	0.588	1.317	6.293	0.166	2.212

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:11:22	0.961	45.100	43.330	-0.324	-0.386	-0.569	0.000	8.748
2	17:12:05	1.102	43.130	44.820	-0.936	-0.489	-0.568	0.000	8.474
3	17:12:48	0.981	42.110	46.010	-1.360	-0.352	-0.359	0.000	8.758
x		1.014	43.450	44.720	-0.873	-0.409	-0.499	0.000	8.660
σ		0.076	1.519	1.344	0.521	0.072	0.121	0.000	0.161
%RSD		7.513	3.497	3.006	59.680	17.500	24.260	0.000	1.861

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:11:22	65.801%	0.200	0.235	64.701%	-0.005	-0.004	0.496	0.401
2	17:12:05	64.496%	0.213	0.284	63.060%	0.009	-0.002	0.326	0.272
3	17:12:48	64.072%	0.311	0.302	62.734%	-0.007	0.010	0.328	0.252
x		64.790%	0.241	0.274	63.498%	-0.001	0.001	0.383	0.308
σ		0.901%	0.060	0.034	1.054%	0.009	0.008	0.098	0.081
%RSD		1.391	25.030	12.520	1.660	1104.000	609.600	25.490	26.240

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:11:22	66.514%	4.747	0.298	0.279	14.450	14.770	72.666%	73.186%
2	17:12:05	66.081%	5.199	0.355	0.357	15.330	14.680	73.486%	74.471%
3	17:12:48	65.365%	5.368	0.312	0.337	15.390	14.620	73.436%	74.893%
x		65.987%	5.105	0.322	0.324	15.060	14.690	73.196%	74.183%
σ		0.581%	0.321	0.030	0.041	0.527	0.080	0.460%	0.889%
%RSD		0.880	6.290	9.218	12.530	3.503	0.546	0.628	1.199

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	17:11:22	0.030	0.019	0.918	0.922	0.934	67.060%
2	17:12:05	0.024	0.034	0.993	0.914	0.949	67.338%
3	17:12:48	0.031	0.034	0.977	0.914	0.956	67.045%
x		0.029	0.029	0.963	0.917	0.947	67.147%
σ		0.004	0.009	0.039	0.005	0.011	0.165%
%RSD		13.730	29.880	4.084	0.494	1.184	0.246

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:19:34	77.600%	0.102	86.890	78.040	0.000	5837.000	472.000	489.000
2	17:20:17	76.457%	0.227	82.650	77.930	0.000	5647.000	462.200	468.100
3	17:20:59	73.665%	0.173	86.100	77.870	0.000	5650.000	469.500	473.800
x		75.907%	0.167	85.210	77.950	0.000	5711.000	467.900	477.000
σ		2.024%	0.063	2.251	0.085	0.000	109.200	5.072	10.790
%RSD		2.667	37.510	2.642	0.110	0.000	1.912	1.084	2.262
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:19:34	119.500	3341.000	0.000	1001.000	3400.000	3340.000	59.141%	1.054
2	17:20:17	114.400	3219.000	0.000	996.800	3665.000	3394.000	57.495%	1.201
3	17:20:59	116.100	3219.000	0.000	997.000	3483.000	3421.000	55.202%	1.211
x		116.600	3260.000	0.000	998.100	3516.000	3385.000	57.279%	1.155
σ		2.606	70.440	0.000	2.141	135.400	40.990	1.978%	0.088
%RSD		2.234	2.161	0.000	0.215	3.851	1.211	3.454	7.597
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:19:34	-0.182	4.946	18.990	76.400	99.450	1.622	3.310	0.403
2	17:20:17	-0.688	4.374	18.730	67.030	82.000	1.562	3.750	0.289
3	17:20:59	-2.207	4.201	18.380	70.140	81.950	1.518	2.943	0.301
x		-1.026	4.507	18.700	71.190	87.800	1.567	3.334	0.331
σ		1.054	0.390	0.305	4.774	10.090	0.052	0.404	0.062
%RSD		102.800	8.643	1.631	6.706	11.490	3.318	12.130	18.770
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:19:34	0.309	8.982	8.765	-0.154	-0.384	-0.185	0.000	14.090
2	17:20:17	0.207	9.482	9.389	0.726	-0.198	-0.637	0.000	14.030
3	17:20:59	0.395	9.103	8.785	-0.517	-0.655	-0.269	0.000	14.090
x		0.303	9.189	8.980	0.018	-0.413	-0.363	0.000	14.070
σ		0.094	0.261	0.354	0.639	0.230	0.240	0.000	0.036
%RSD		30.940	2.838	3.947	3511.000	55.670	66.110	0.000	0.256
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:19:34	64.366%	0.206	0.212	62.148%	0.005	-0.002	0.256	0.183
2	17:20:17	62.630%	0.228	0.150	61.630%	0.003	0.006	0.176	0.224
3	17:20:59	61.694%	0.179	0.182	59.710%	0.018	0.016	0.125	0.191
x		62.897%	0.204	0.181	61.163%	0.008	0.007	0.185	0.199
σ		1.356%	0.025	0.031	1.285%	0.008	0.009	0.066	0.022
%RSD		2.156	12.130	17.090	2.100	95.510	133.700	35.620	10.920
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:19:34	65.208%	4.445	0.141	0.171	20.490	19.710	72.022%	71.858%
2	17:20:17	64.330%	4.969	0.197	0.217	20.920	19.700	71.721%	74.048%
3	17:20:59	64.349%	4.758	0.146	0.121	19.860	20.370	72.473%	73.859%
x		64.629%	4.724	0.162	0.170	20.420	19.930	72.072%	73.255%
σ		0.501%	0.263	0.031	0.048	0.531	0.382	0.379%	1.214%
%RSD		0.776	5.575	19.110	28.080	2.603	1.915	0.525	1.657
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	17:19:34	0.045	0.056	0.279	0.267	0.294	64.630%		
2	17:20:17	0.051	0.053	0.277	0.253	0.279	65.918%		
3	17:20:59	0.057	0.060	0.281	0.267	0.290	66.213%		
x		0.051	0.056	0.279	0.263	0.287	65.587%		
σ		0.006	0.003	0.002	0.008	0.008	0.842%		
%RSD		11.810	5.592	0.737	3.026	2.733	1.283		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:27:45	94.024%	-0.007	-10.420	-11.050	0.000	10.440	-0.018	0.076
2	17:28:28	91.265%	0.006	-11.120	-11.050	0.000	11.650	0.294	0.061
3	17:29:11	91.323%	-0.006	-10.120	-11.890	0.000	12.120	0.341	0.254
x		92.204%	-0.002	-10.550	-11.330	0.000	11.400	0.206	0.131
σ		1.577%	0.007	0.510	0.483	0.000	0.867	0.195	0.107
%RSD		1.710	321.800	4.833	4.264	0.000	7.604	94.670	82.130
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:27:45	0.242	-0.079	0.000	-10.180	3.590	1.205	79.524%	0.265
2	17:28:28	0.371	0.955	0.000	-9.030	-5.854	1.112	77.894%	-0.153
3	17:29:11	0.337	0.748	0.000	-9.906	-2.684	-0.287	79.043%	-0.080
x		0.317	0.541	0.000	-9.707	-1.650	0.677	78.820%	0.011
σ		0.067	0.547	0.000	0.603	4.806	0.836	0.838%	0.223
%RSD		21.060	101.100	0.000	6.208	291.400	123.600	1.063	2104.000
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:27:45	-0.179	0.221	0.098	0.586	-0.341	-0.000	-0.013	0.148
2	17:28:28	0.083	0.312	0.100	-0.120	-0.963	-0.005	-0.012	0.124
3	17:29:11	0.209	0.204	0.108	-1.141	1.485	-0.005	0.043	0.170
x		0.038	0.246	0.102	-0.225	0.060	-0.003	0.006	0.148
σ		0.198	0.058	0.005	0.868	1.272	0.002	0.032	0.023
%RSD		525.800	23.630	5.388	385.700	2119.000	75.790	529.800	15.690
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:27:45	0.205	0.048	-0.024	-0.347	-0.553	-0.361	0.000	0.004
2	17:28:28	0.152	-0.064	-0.092	0.138	-0.033	-0.546	0.000	0.003
3	17:29:11	0.103	0.009	0.016	-0.115	-0.473	-0.330	0.000	0.009
x		0.153	-0.002	-0.033	-0.108	-0.353	-0.412	0.000	0.005
σ		0.051	0.057	0.055	0.243	0.280	0.117	0.000	0.003
%RSD		33.510	2495.000	164.100	224.300	79.320	28.410	0.000	59.200
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:27:45	80.789%	0.119	0.078	81.629%	-0.003	0.005	-0.010	-0.008
2	17:28:28	80.957%	0.072	0.061	81.215%	-0.005	-0.002	-0.005	-0.011
3	17:29:11	82.065%	0.084	0.040	82.469%	-0.005	-0.010	0.026	0.015
x		81.270%	0.092	0.060	81.771%	-0.004	-0.002	0.004	-0.001
σ		0.693%	0.025	0.019	0.639%	0.001	0.008	0.019	0.014
%RSD		0.853	27.040	31.920	0.781	26.280	312.300	533.700	1201.000
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:27:45	80.223%	0.106	0.002	0.018	-0.044	-0.015	81.750%	81.646%
2	17:28:28	80.787%	0.105	-0.004	0.014	-0.025	-0.004	82.739%	82.429%
3	17:29:11	82.497%	0.108	0.026	-0.002	-0.016	0.017	84.457%	84.949%
x		81.169%	0.106	0.008	0.010	-0.028	-0.001	82.982%	83.008%
σ		1.184%	0.001	0.016	0.011	0.014	0.016	1.370%	1.726%
%RSD		1.459	1.117	200.000	104.800	51.030	3044.000	1.651	2.079
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	17:27:45	0.007	0.008	0.066	0.058	0.070	80.958%		
2	17:28:28	0.005	0.007	0.067	0.068	0.073	80.645%		
3	17:29:11	0.004	0.006	0.073	0.069	0.078	82.735%		
x		0.005	0.007	0.069	0.065	0.074	81.446%		
σ		0.002	0.001	0.004	0.006	0.004	1.127%		
%RSD		34.380	16.800	5.095	9.212	5.979	1.384		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:35:57	75.256%	49.170	925.600	895.900	0.000	45380.000	45770.000	45500.000
2	17:36:40	72.274%	51.010	927.500	889.900	0.000	42590.000	43100.000	43900.000
3	17:37:23	69.999%	49.950	941.100	900.000	0.000	43210.000	44120.000	43530.000
x		72.510%	50.040	931.400	895.300	0.000	43730.000	44330.000	44310.000
σ		2.636%	0.927	8.444	5.061	0.000	1465.000	1347.000	1045.000
%RSD		3.636	1.852	0.906	0.565	0.000	3.350	3.038	2.358

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:35:57	1748.000	8786.000	0.000	46740.000	48050.000	45400.000	58.604%	976.200
2	17:36:40	1707.000	8455.000	0.000	45730.000	47960.000	44900.000	56.322%	980.300
3	17:37:23	1665.000	8369.000	0.000	45870.000	47830.000	45160.000	55.759%	976.800
x		1707.000	8536.000	0.000	46110.000	47950.000	45150.000	56.895%	977.800
σ		41.570	220.200	0.000	543.100	113.900	247.800	1.507%	2.199
%RSD		2.435	2.579	0.000	1.178	0.237	0.549	2.648	0.225

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:35:57	493.000	197.700	495.800	1005.000	1116.000	494.300	500.600	252.300
2	17:36:40	484.000	193.200	491.400	983.500	1074.000	483.600	489.000	246.500
3	17:37:23	482.300	195.800	493.400	980.700	1085.000	474.000	480.300	239.900
x		486.400	195.500	493.500	989.700	1092.000	484.000	489.900	246.200
σ		5.754	2.264	2.190	13.300	21.760	10.130	10.190	6.211
%RSD		1.183	1.158	0.444	1.344	1.992	2.092	2.081	2.523

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:35:57	254.300	474.700	468.900	34.120	8.588	8.491	0.000	1004.000
2	17:36:40	246.600	455.700	455.700	34.670	8.429	8.984	0.000	1011.000
3	17:37:23	243.100	452.200	456.300	34.560	7.722	7.832	0.000	995.700
x		248.000	460.900	460.300	34.450	8.246	8.436	0.000	1004.000
σ		5.728	12.080	7.473	0.289	0.461	0.578	0.000	7.810
%RSD		2.309	2.621	1.623	0.839	5.590	6.852	0.000	0.778

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:35:57	56.853%	1050.000	1052.000	59.696%	49.380	49.650	45.420	39.420
2	17:36:40	55.571%	1058.000	1062.000	58.997%	48.640	49.160	45.350	39.870
3	17:37:23	55.900%	1053.000	1068.000	58.619%	48.490	49.300	46.240	40.120
x		56.108%	1054.000	1061.000	59.104%	48.840	49.370	45.670	39.800
σ		0.666%	4.094	7.982	0.546%	0.474	0.247	0.492	0.352
%RSD		1.186	0.389	0.752	0.924	0.970	0.501	1.078	0.885

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:35:57	62.007%	1919.000	457.000	452.100	1857.000	1827.000	68.917%	69.444%
2	17:36:40	61.863%	1926.000	456.100	454.800	1843.000	1824.000	70.702%	72.309%
3	17:37:23	62.529%	1917.000	461.400	462.200	1836.000	1815.000	71.056%	71.999%
x		62.133%	1920.000	458.200	456.400	1845.000	1822.000	70.225%	71.251%
σ		0.351%	5.088	2.811	5.256	10.780	6.428	1.147%	1.572%
%RSD		0.565	0.265	0.614	1.152	0.584	0.353	1.633	2.206

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	17:35:57	46.280	46.260	18.450	20.110	19.270	56.991%
2	17:36:40	46.370	46.310	18.310	19.350	19.030	59.429%
3	17:37:23	46.160	46.650	18.410	19.720	19.040	60.175%
x		46.270	46.410	18.390	19.720	19.110	58.865%
σ		0.106	0.215	0.073	0.380	0.135	1.666%
%RSD		0.228	0.464	0.399	1.927	0.707	2.830

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:44:09	91.016%	103.300	89.330	88.180	0.000	46560.000	47550.000	47790.000
2	17:44:52	90.214%	99.610	90.520	88.360	0.000	47060.000	47060.000	46770.000
3	17:45:35	89.597%	103.000	90.530	91.280	0.000	47300.000	47710.000	47540.000
x		90.276%	101.957%	90.124%	89.272%	0.000	93.949%	94.878%	94.729%
σ		0.712%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.788	1.997	0.766	1.950	0.000	0.799	0.717	1.113
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:44:09	489.600	5007.000	0.000	48370.000	48080.000	46180.000	77.065%	102.300
2	17:44:52	482.100	4901.000	0.000	48530.000	50460.000	46610.000	74.828%	102.000
3	17:45:35	487.800	4919.000	0.000	47700.000	48580.000	46610.000	74.222%	105.200
x		97.301%	98.843%	0.000	96.400%	98.082%	92.934%	75.372%	103.140%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.498%	n/a
%RSD		0.798	1.150	0.000	0.912	2.565	0.527	1.987	1.723
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:44:09	100.700	100.500	499.200	25250.000	25500.000	103.300	102.800	108.000
2	17:44:52	101.700	102.600	505.600	25560.000	25570.000	102.400	106.200	106.800
3	17:45:35	101.300	102.000	502.600	25490.000	25580.000	103.400	106.900	105.200
x		101.258%	101.717%	100.495%	101.746%	102.189%	103.046%	105.279%	106.678%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.505	1.051	0.633	0.632	0.173	0.521	2.099	1.299
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:44:09	107.200	105.200	104.500	100.400	103.200	98.000	0.000	95.570
2	17:44:52	105.900	104.900	103.200	99.330	102.000	100.600	0.000	95.620
3	17:45:35	105.700	106.100	105.300	102.600	103.300	99.820	0.000	94.910
x		106.249%	105.378%	104.337%	100.760%	102.840%	99.474%	0.000	95.365%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.752	0.564	1.029	1.650	0.678	1.341	0.000	0.415
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:44:09	78.410%	103.600	104.800	73.843%	101.400	100.800	97.190	99.520
2	17:44:52	76.512%	103.600	105.000	73.103%	99.760	100.900	98.730	98.690
3	17:45:35	77.343%	105.000	105.700	73.209%	99.970	101.700	99.420	98.950
x		77.422%	104.064%	105.170%	73.385%	100.368%	101.132%	98.449%	99.054%
σ		0.952%	n/a	n/a	0.400%	n/a	n/a	n/a	n/a
%RSD		1.229	0.801	0.476	0.545	0.874	0.467	1.158	0.430
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:44:09	75.308%	96.420	95.960	96.230	95.120	95.590	78.462%	79.246%
2	17:44:52	74.134%	97.930	98.660	97.580	99.060	96.430	78.793%	78.872%
3	17:45:35	74.885%	98.830	98.100	97.680	96.320	94.410	78.968%	79.033%
x		74.776%	97.726%	97.574%	97.160%	96.836%	95.477%	78.741%	79.051%
σ		0.594%	n/a	n/a	n/a	n/a	n/a	0.257%	0.188%
%RSD		0.795	1.244	1.465	0.835	2.084	1.067	0.326	0.237
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	17:44:09	96.140	95.470	96.420	95.900	96.570	67.917%		
2	17:44:52	96.990	97.810	98.560	97.410	98.130	67.095%		
3	17:45:35	96.840	97.170	98.280	97.000	97.710	67.807%		
x		96.656%	96.816%	97.753%	96.770%	97.469%	67.606%		
σ		n/a	n/a	n/a	n/a	n/a	0.446%		
%RSD		0.472	1.250	1.188	0.809	0.826	0.660		

CCB4 5/7/2013 5:51:41 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:52:24	108.582%	0.013	-8.714	-9.106	0.000	9.378	4.841	5.567
2	17:53:07	107.863%	-0.019	-9.902	-9.828	0.000	9.348	6.212	4.912
3	17:53:50	108.530%	0.013	-11.220	-10.470	0.000	10.680	6.310	6.478
x		108.325%	0.002	-9.945	-9.800	0.000	9.801	5.788	5.652
σ		0.401%	0.018	1.252	0.680	0.000	0.758	0.821	0.786
%RSD		0.370	873.700	12.590	6.942	0.000	7.737	14.190	13.920
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:52:24	1.843	-1.503	0.000	-5.768	6.808	8.330	99.195%	-0.296
2	17:53:07	1.805	-1.376	0.000	-5.340	4.224	7.358	99.767%	-0.051
3	17:53:50	1.741	-1.298	0.000	-5.643	1.688	8.694	99.961%	-0.083
x		1.796	-1.392	0.000	-5.583	4.240	8.127	99.641%	-0.143
σ		0.052	0.103	0.000	0.220	2.560	0.690	0.398%	0.133
%RSD		2.875	7.425	0.000	3.940	60.380	8.495	0.399	92.950
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:52:24	0.030	0.058	0.566	8.642	4.657	0.004	0.058	0.036
2	17:53:07	0.027	0.081	0.622	7.172	5.484	0.004	0.003	0.020
3	17:53:50	-0.032	-0.032	0.512	7.655	4.601	0.005	0.030	0.070
x		0.009	0.036	0.567	7.823	4.914	0.004	0.030	0.042
σ		0.035	0.060	0.055	0.749	0.495	0.001	0.027	0.026
%RSD		414.800	166.900	9.727	9.578	10.060	22.950	90.530	61.000
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:52:24	0.006	0.082	0.045	-0.114	0.409	-0.368	0.000	0.017
2	17:53:07	0.080	0.076	0.039	-0.000	0.112	-0.251	0.000	0.020
3	17:53:50	0.117	0.075	-0.005	-0.180	0.106	-0.485	0.000	0.022
x		0.068	0.078	0.026	-0.098	0.209	-0.368	0.000	0.020
σ		0.056	0.004	0.027	0.091	0.173	0.117	0.000	0.003
%RSD		83.280	4.953	102.300	92.650	82.820	31.780	0.000	13.260
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:52:24	96.324%	0.466	0.484	97.603%	0.000	-0.001	0.106	0.072
2	17:53:07	99.198%	0.566	0.483	99.400%	0.001	-0.004	0.063	0.066
3	17:53:50	99.496%	0.591	0.489	100.382%	-0.008	-0.005	0.038	0.047
x		98.340%	0.541	0.485	99.128%	-0.002	-0.003	0.069	0.062
σ		1.752%	0.066	0.004	1.409%	0.005	0.002	0.034	0.013
%RSD		1.782	12.220	0.730	1.422	223.000	61.900	49.660	21.060
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:52:24	93.418%	0.167	0.075	0.054	0.005	0.057	92.692%	93.318%
2	17:53:07	95.731%	0.199	0.086	0.058	-0.013	0.046	94.608%	95.277%
3	17:53:50	97.788%	0.220	0.075	0.067	0.002	0.008	96.042%	96.351%
x		95.646%	0.195	0.079	0.060	-0.002	0.037	94.448%	94.982%
σ		2.186%	0.026	0.006	0.007	0.010	0.026	1.681%	1.538%
%RSD		2.286	13.570	7.787	10.970	448.300	69.160	1.780	1.619
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	17:52:24	0.036	0.032	0.179	0.163	0.169	92.721%		
2	17:53:07	0.031	0.036	0.168	0.174	0.168	96.405%		
3	17:53:50	0.038	0.038	0.161	0.176	0.166	98.379%		
x		0.035	0.036	0.169	0.171	0.167	95.835%		
σ		0.004	0.003	0.009	0.007	0.002	2.872%		
%RSD		10.520	8.600	5.371	4.161	0.921	2.997		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:00:39	80.535%	0.054	0.604	0.360	0.000	1608.000	612.300	625.600
2	18:01:22	76.089%	0.089	1.735	0.922	0.000	1599.000	608.700	613.000
3	18:02:05	76.817%	0.058	1.047	-1.075	0.000	1560.000	578.800	599.100
x		77.814%	0.067	1.129	0.069	0.000	1589.000	599.900	612.600
σ		2.385%	0.019	0.570	1.030	0.000	25.430	18.430	13.260
%RSD		3.065	28.960	50.470	1492.000	0.000	1.600	3.071	2.165

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:00:39	52.100	2027.000	0.000	1032.000	214.000	263.100	62.388%	1.031
2	18:01:22	50.140	1978.000	0.000	1045.000	249.200	266.900	57.657%	1.356
3	18:02:05	49.990	1946.000	0.000	1029.000	253.200	257.000	55.705%	1.143
x		50.740	1984.000	0.000	1035.000	238.800	262.300	58.583%	1.176
σ		1.178	40.520	0.000	8.497	21.530	4.989	3.436%	0.165
%RSD		2.321	2.043	0.000	0.821	9.018	1.902	5.866	14.050

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:00:39	-3.518	4.559	2.086	66.630	70.100	0.478	1.938	0.380
2	18:01:22	-0.519	4.598	2.111	65.350	71.860	0.389	2.268	0.319
3	18:02:05	-1.568	4.199	2.183	63.850	68.600	0.513	1.779	0.257
x		-1.868	4.452	2.127	65.280	70.190	0.460	1.995	0.319
σ		1.522	0.220	0.051	1.394	1.631	0.064	0.249	0.061
%RSD		81.480	4.933	2.386	2.135	2.324	13.950	12.500	19.210

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:00:39	0.320	4.719	5.040	0.692	-0.045	-0.121	0.000	4.586
2	18:01:22	0.381	4.503	5.112	-0.421	-0.260	-0.488	0.000	4.643
3	18:02:05	0.292	4.120	4.851	-1.363	0.108	-0.753	0.000	4.605
x		0.331	4.447	5.001	-0.364	-0.065	-0.454	0.000	4.611
σ		0.046	0.303	0.134	1.029	0.185	0.318	0.000	0.029
%RSD		13.820	6.825	2.688	282.800	283.200	69.960	0.000	0.631

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:00:39	64.990%	0.365	0.285	64.276%	-0.000	0.000	0.023	0.060
2	18:01:22	62.486%	0.237	0.388	62.131%	-0.002	-0.004	0.087	0.041
3	18:02:05	61.049%	0.234	0.399	60.235%	-0.002	-0.009	-0.037	-0.072
x		62.842%	0.279	0.357	62.214%	-0.001	-0.004	0.024	0.010
σ		1.994%	0.075	0.063	2.022%	0.001	0.005	0.062	0.072
%RSD		3.174	26.910	17.660	3.250	81.680	111.400	253.200	752.600

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:00:39	65.066%	8.289	0.201	0.195	15.520	15.270	71.651%	72.677%
2	18:01:22	64.632%	7.433	0.149	0.165	15.740	15.950	71.062%	72.676%
3	18:02:05	63.394%	6.993	0.197	0.228	15.570	16.160	71.146%	72.749%
x		64.364%	7.572	0.183	0.196	15.610	15.790	71.286%	72.701%
σ		0.868%	0.659	0.029	0.032	0.115	0.467	0.319%	0.042%
%RSD		1.348	8.703	15.830	16.120	0.738	2.954	0.447	0.058

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	18:00:39	0.030	0.039	0.372	0.417	0.401	65.078%
2	18:01:22	0.035	0.034	0.382	0.359	0.392	65.163%
3	18:02:05	0.038	0.040	0.343	0.348	0.353	65.735%
x		0.035	0.038	0.366	0.374	0.382	65.325%
σ		0.004	0.003	0.020	0.037	0.025	0.357%
%RSD		11.690	8.148	5.563	9.860	6.641	0.547

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:08:53	79.320%	-0.004	32.110	27.930	0.000	6478.000	381.300	401.900
2	18:09:36	73.884%	0.045	27.980	27.540	0.000	6385.000	369.600	380.700
3	18:10:19	72.518%	-0.003	29.070	28.190	0.000	6440.000	378.200	392.500
x		75.241%	0.012	29.720	27.890	0.000	6434.000	376.400	391.700
σ		3.598%	0.028	2.138	0.327	0.000	46.790	6.065	10.660
%RSD		4.782	223.600	7.193	1.174	0.000	0.727	1.611	2.722
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:08:53	34.480	2596.000	0.000	755.100	283.700	336.700	58.459%	0.917
2	18:09:36	33.450	2539.000	0.000	729.100	304.200	314.000	55.432%	1.315
3	18:10:19	32.370	2545.000	0.000	749.100	296.900	322.900	53.438%	1.035
x		33.430	2560.000	0.000	744.400	295.000	324.500	55.776%	1.089
σ		1.058	31.480	0.000	13.610	10.400	11.460	2.528%	0.204
%RSD		3.164	1.230	0.000	1.828	3.526	3.533	4.532	18.760
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:08:53	-0.928	4.204	4.019	18.190	21.950	0.242	1.149	0.368
2	18:09:36	-0.656	3.814	4.036	16.860	23.550	0.245	1.363	0.308
3	18:10:19	-0.648	4.061	3.879	15.940	21.630	0.290	1.323	0.312
x		-0.744	4.026	3.978	17.000	22.380	0.259	1.278	0.330
σ		0.159	0.197	0.086	1.131	1.029	0.027	0.114	0.034
%RSD		21.410	4.893	2.167	6.656	4.600	10.390	8.892	10.220
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:08:53	0.308	4.816	5.123	-0.033	-0.137	-0.265	0.000	3.621
2	18:09:36	0.473	4.290	5.269	-0.588	-0.469	-0.308	0.000	3.712
3	18:10:19	0.394	4.587	4.908	-0.824	-0.031	-0.204	0.000	3.632
x		0.391	4.564	5.100	-0.482	-0.212	-0.259	0.000	3.655
σ		0.083	0.263	0.182	0.406	0.229	0.052	0.000	0.050
%RSD		21.080	5.771	3.562	84.230	107.600	20.100	0.000	1.364
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:08:53	60.902%	0.244	0.262	59.749%	0.023	-0.014	0.055	0.000
2	18:09:36	61.040%	0.153	0.178	59.514%	-0.002	0.014	-0.018	-0.088
3	18:10:19	60.353%	0.202	0.153	58.211%	0.011	-0.009	0.020	0.049
x		60.765%	0.200	0.197	59.158%	0.011	-0.003	0.019	-0.013
σ		0.363%	0.046	0.057	0.829%	0.012	0.015	0.037	0.069
%RSD		0.597	23.020	28.920	1.400	114.200	503.100	194.700	527.100
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:08:53	62.299%	5.266	0.074	0.094	7.288	7.059	68.139%	69.603%
2	18:09:36	63.164%	5.171	0.121	0.148	6.500	7.299	70.222%	71.705%
3	18:10:19	62.512%	5.072	0.113	0.061	6.715	7.116	70.362%	72.500%
x		62.658%	5.170	0.102	0.101	6.834	7.158	69.574%	71.269%
σ		0.451%	0.097	0.025	0.044	0.407	0.126	1.245%	1.496%
%RSD		0.720	1.875	24.330	43.970	5.956	1.754	1.789	2.100
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:08:53	0.056	0.057	0.317	0.321	0.325	61.806%		
2	18:09:36	0.050	0.049	0.355	0.339	0.324	63.984%		
3	18:10:19	0.054	0.043	0.288	0.258	0.283	64.951%		
x		0.054	0.050	0.320	0.306	0.310	63.580%		
σ		0.003	0.007	0.034	0.043	0.024	1.611%		
%RSD		6.054	14.400	10.550	13.970	7.676	2.534		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:06	91.583%	-0.019	-4.878	-3.704	0.000	1320.000	82.800	83.640
2	18:17:49	86.347%	0.008	-4.108	-4.822	0.000	1310.000	82.820	80.780
3	18:18:32	82.697%	0.023	-2.449	-4.546	0.000	1327.000	81.220	83.610
x		86.876%	0.004	-3.811	-4.357	0.000	1319.000	82.280	82.680
σ		4.467%	0.021	1.241	0.583	0.000	8.260	0.919	1.638
%RSD		5.141	543.000	32.570	13.370	0.000	0.626	1.117	1.982

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:06	7.769	569.300	0.000	142.000	85.520	68.170	73.821%	0.316
2	18:17:49	7.297	545.700	0.000	138.900	75.930	74.150	70.285%	0.089
3	18:18:32	7.246	563.800	0.000	141.200	45.730	68.740	67.857%	0.016
x		7.437	559.600	0.000	140.700	69.060	70.350	70.654%	0.141
σ		0.288	12.340	0.000	1.600	20.770	3.299	2.999%	0.156
%RSD		3.876	2.205	0.000	1.137	30.070	4.689	4.245	111.300

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:06	-0.039	1.011	0.759	2.664	5.531	0.040	0.218	0.071
2	18:17:49	-0.865	0.920	0.885	0.654	3.348	0.066	0.264	0.081
3	18:18:32	0.110	0.870	0.858	0.252	4.166	0.041	0.274	0.050
x		-0.265	0.934	0.834	1.190	4.348	0.049	0.252	0.067
σ		0.525	0.072	0.066	1.292	1.103	0.015	0.030	0.016
%RSD		198.400	7.703	7.935	108.600	25.360	30.100	11.750	23.510

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:06	0.087	0.814	0.973	-0.130	-0.322	-0.277	0.000	0.714
2	18:17:49	0.122	1.054	0.550	0.268	-0.503	-0.105	0.000	0.701
3	18:18:32	0.128	0.964	1.096	0.153	-0.188	-0.135	0.000	0.799
x		0.112	0.944	0.873	0.097	-0.338	-0.172	0.000	0.738
σ		0.022	0.121	0.286	0.205	0.159	0.092	0.000	0.053
%RSD		19.530	12.860	32.810	210.600	46.960	53.600	0.000	7.199

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:06	73.127%	0.117	0.106	73.649%	-0.006	-0.008	-0.039	-0.014
2	18:17:49	73.379%	0.072	0.074	73.233%	-0.008	-0.006	0.013	0.014
3	18:18:32	71.437%	0.066	0.039	71.373%	0.001	-0.005	-0.067	-0.041
x		72.648%	0.085	0.073	72.752%	-0.004	-0.006	-0.031	-0.014
σ		1.056%	0.028	0.034	1.212%	0.004	0.001	0.041	0.027
%RSD		1.454	32.850	46.310	1.666	101.000	20.330	131.500	196.700

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:06	72.781%	0.234	0.010	0.022	1.144	1.528	74.795%	75.804%
2	18:17:49	74.313%	0.259	0.034	0.000	1.417	1.458	77.347%	78.131%
3	18:18:32	72.665%	0.210	0.015	0.004	1.683	1.574	76.995%	77.551%
x		73.253%	0.234	0.020	0.009	1.414	1.520	76.379%	77.162%
σ		0.920%	0.024	0.013	0.012	0.270	0.059	1.383%	1.211%
%RSD		1.256	10.370	64.120	134.600	19.070	3.855	1.811	1.570

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:06	0.015	0.015	0.118	0.087	0.112	70.476%
2	18:17:49	0.019	0.015	0.120	0.097	0.102	71.209%
3	18:18:32	0.018	0.016	0.120	0.087	0.106	73.549%
x		0.017	0.015	0.119	0.090	0.106	71.745%
σ		0.002	0.000	0.001	0.006	0.005	1.605%
%RSD		11.040	1.139	0.950	6.590	4.594	2.237

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:25:20	81.122%	44.640	908.400	867.100	0.000	49780.000	43170.000	43680.000
2	18:26:03	79.014%	43.470	893.600	866.000	0.000	48170.000	41670.000	41680.000
3	18:26:46	77.470%	45.920	916.400	886.500	0.000	48390.000	41750.000	41800.000
x		79.202%	44.680	906.100	873.200	0.000	48780.000	42200.000	42390.000
σ		1.833%	1.224	11.570	11.550	0.000	872.400	842.400	1120.000
%RSD		2.315	2.739	1.277	1.323	0.000	1.788	1.996	2.642
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:25:20	1734.000	10920.000	0.000	46680.000	48700.000	45870.000	59.427%	991.200
2	18:26:03	1622.000	10390.000	0.000	45400.000	46270.000	44000.000	58.406%	963.500
3	18:26:46	1654.000	10580.000	0.000	45630.000	46460.000	45150.000	56.209%	984.100
x		1670.000	10630.000	0.000	45900.000	47140.000	45010.000	58.014%	979.600
σ		57.710	269.900	0.000	681.400	1352.000	943.300	1.645%	14.390
%RSD		3.456	2.538	0.000	1.484	2.868	2.096	2.835	1.469
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:25:20	492.900	196.700	491.300	1023.000	1126.000	484.300	487.100	242.900
2	18:26:03	475.700	193.400	480.900	991.000	1101.000	468.100	473.700	236.500
3	18:26:46	482.500	196.500	489.800	1007.000	1118.000	473.900	464.100	235.300
x		483.700	195.500	487.300	1007.000	1115.000	475.400	475.000	238.200
σ		8.627	1.836	5.655	15.790	12.820	8.207	11.570	4.099
%RSD		1.784	0.939	1.160	1.568	1.149	1.726	2.436	1.721
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:25:20	247.300	445.700	451.900	32.620	7.867	8.707	0.000	961.900
2	18:26:03	231.800	436.300	437.800	32.760	7.618	8.248	0.000	955.900
3	18:26:46	236.700	443.900	440.400	32.080	8.505	7.255	0.000	955.600
x		238.600	442.000	443.400	32.490	7.997	8.070	0.000	957.800
σ		7.912	5.000	7.489	0.362	0.457	0.742	0.000	3.586
%RSD		3.316	1.131	1.689	1.113	5.721	9.198	0.000	0.374
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:25:20	59.556%	1021.000	1044.000	58.991%	49.640	49.650	46.610	40.330
2	18:26:03	59.831%	1024.000	1045.000	59.036%	49.290	49.300	45.750	38.770
3	18:26:46	60.014%	1031.000	1053.000	59.488%	49.270	49.340	44.950	39.580
x		59.800%	1025.000	1047.000	59.172%	49.400	49.430	45.770	39.560
σ		0.230%	4.799	4.868	0.275%	0.210	0.191	0.830	0.783
%RSD		0.385	0.468	0.465	0.465	0.425	0.386	1.813	1.980
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:25:20	61.753%	1928.000	452.800	451.100	1868.000	1851.000	68.560%	69.240%
2	18:26:03	63.308%	1906.000	449.000	450.700	1844.000	1830.000	70.705%	71.941%
3	18:26:46	62.318%	1958.000	466.000	456.100	1881.000	1871.000	71.882%	73.006%
x		62.460%	1930.000	455.900	452.600	1864.000	1851.000	70.383%	71.396%
σ		0.787%	26.170	8.912	3.061	18.760	20.930	1.684%	1.941%
%RSD		1.260	1.356	1.955	0.676	1.006	1.131	2.393	2.719
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:25:20	45.860	46.430	18.750	20.460	19.510	57.183%		
2	18:26:03	46.810	46.740	18.480	20.270	19.320	59.143%		
3	18:26:46	46.930	47.300	19.070	20.150	19.690	59.834%		
x		46.530	46.820	18.770	20.300	19.510	58.720%		
σ		0.588	0.443	0.295	0.154	0.188	1.375%		
%RSD		1.264	0.946	1.575	0.759	0.964	2.341		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:33:34	81.563%	45.640	905.600	864.000	0.000	48800.000	42150.000	42620.000
2	18:34:17	78.755%	46.470	915.600	869.700	0.000	47490.000	41440.000	42320.000
3	18:35:00	77.773%	46.200	923.900	886.200	0.000	48140.000	41940.000	41940.000
x		79.364%	46.100	915.000	873.300	0.000	48140.000	41840.000	42290.000
σ		1.967%	0.421	9.156	11.520	0.000	655.600	364.800	338.700
%RSD		2.479	0.913	1.001	1.319	0.000	1.362	0.872	0.801
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:33:34	1696.000	10800.000	0.000	46160.000	47740.000	44950.000	59.539%	971.500
2	18:34:17	1671.000	10550.000	0.000	46460.000	48470.000	45470.000	55.824%	980.900
3	18:35:00	1644.000	10510.000	0.000	45680.000	46810.000	45200.000	56.539%	959.100
x		1670.000	10620.000	0.000	46100.000	47670.000	45210.000	57.301%	970.500
σ		26.090	157.500	0.000	394.800	833.400	258.200	1.971%	10.890
%RSD		1.562	1.483	0.000	0.856	1.748	0.571	3.440	1.122
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:33:34	486.300	198.900	491.400	1005.000	1088.000	479.400	480.700	240.600
2	18:34:17	484.500	199.200	497.600	1017.000	1120.000	482.900	472.300	242.200
3	18:35:00	476.500	195.600	496.000	992.900	1097.000	476.700	472.200	238.700
x		482.400	197.900	495.000	1005.000	1102.000	479.700	475.100	240.500
σ		5.205	2.018	3.190	12.220	16.420	3.118	4.900	1.740
%RSD		1.079	1.020	0.644	1.215	1.490	0.650	1.031	0.724
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:33:34	241.600	449.100	454.600	33.970	8.457	8.666	0.000	976.500
2	18:34:17	241.100	448.400	454.700	32.760	7.599	9.058	0.000	955.900
3	18:35:00	238.400	445.800	451.300	35.250	7.993	8.542	0.000	964.700
x		240.400	447.800	453.500	33.990	8.016	8.755	0.000	965.700
σ		1.708	1.743	1.936	1.248	0.429	0.270	0.000	10.330
%RSD		0.711	0.389	0.427	3.673	5.357	3.079	0.000	1.070
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:33:34	60.554%	1035.000	1053.000	59.540%	49.300	50.580	45.830	41.210
2	18:34:17	60.398%	1026.000	1054.000	59.106%	49.680	49.970	44.250	40.300
3	18:35:00	59.821%	1036.000	1065.000	59.155%	49.950	50.640	46.250	40.800
x		60.258%	1032.000	1057.000	59.267%	49.640	50.400	45.440	40.770
σ		0.386%	5.549	6.841	0.238%	0.325	0.370	1.055	0.457
%RSD		0.641	0.537	0.647	0.402	0.655	0.733	2.321	1.122
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:33:34	62.698%	1944.000	459.400	458.600	1891.000	1868.000	70.815%	71.723%
2	18:34:17	63.180%	1952.000	455.900	454.500	1871.000	1859.000	71.402%	73.102%
3	18:35:00	62.681%	1958.000	462.800	465.100	1898.000	1883.000	71.085%	72.553%
x		62.853%	1951.000	459.400	459.400	1887.000	1870.000	71.101%	72.459%
σ		0.283%	7.024	3.413	5.333	14.270	12.150	0.294%	0.694%
%RSD		0.451	0.360	0.743	1.161	0.756	0.650	0.413	0.958
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:33:34	46.620	47.340	19.090	20.820	19.740	58.856%		
2	18:34:17	47.370	47.050	18.730	20.240	19.530	59.917%		
3	18:35:00	48.120	48.190	18.690	20.540	19.670	59.801%		
x		47.370	47.530	18.840	20.540	19.650	59.525%		
σ		0.752	0.590	0.220	0.293	0.105	0.582%		
%RSD		1.588	1.242	1.166	1.429	0.535	0.978		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:47	79.557%	47.390	943.100	905.700	0.000	49080.000	42890.000	43310.000
2	18:42:30	74.840%	49.480	967.000	921.400	0.000	48700.000	43400.000	43630.000
3	18:43:13	74.300%	49.570	973.300	921.000	0.000	48360.000	42700.000	42800.000
x		76.232%	48.810	961.100	916.000	0.000	48710.000	42990.000	43250.000
σ		2.892%	1.233	15.940	8.978	0.000	363.400	361.300	418.000
%RSD		3.794	2.526	1.658	0.980	0.000	0.746	0.840	0.966
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:47	1728.000	10810.000	0.000	47300.000	49100.000	46610.000	58.210%	1020.000
2	18:42:30	1751.000	10960.000	0.000	47010.000	48760.000	45620.000	55.767%	1016.000
3	18:43:13	1714.000	10960.000	0.000	46650.000	48600.000	46380.000	54.039%	1015.000
x		1731.000	10910.000	0.000	46990.000	48820.000	46200.000	56.005%	1017.000
σ		18.760	85.990	0.000	326.500	251.400	520.300	2.096%	2.994
%RSD		1.084	0.788	0.000	0.695	0.515	1.126	3.742	0.294
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:47	507.800	204.200	506.100	1047.000	1143.000	499.800	492.900	250.600
2	18:42:30	513.000	206.700	510.900	1038.000	1127.000	492.900	488.600	247.300
3	18:43:13	505.900	203.000	512.300	1036.000	1154.000	490.500	482.400	249.000
x		508.900	204.600	509.800	1040.000	1141.000	494.400	488.000	248.900
σ		3.646	1.866	3.244	6.208	13.720	4.864	5.294	1.627
%RSD		0.717	0.912	0.636	0.597	1.202	0.984	1.085	0.653
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:47	249.600	464.400	472.400	36.310	8.582	7.703	0.000	1010.000
2	18:42:30	244.100	464.100	469.300	35.940	8.958	9.325	0.000	1010.000
3	18:43:13	246.900	468.700	470.900	34.810	8.194	8.238	0.000	1006.000
x		246.900	465.700	470.900	35.690	8.578	8.422	0.000	1008.000
σ		2.777	2.560	1.531	0.785	0.382	0.826	0.000	2.162
%RSD		1.125	0.550	0.325	2.199	4.453	9.812	0.000	0.214
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:47	59.807%	1080.000	1103.000	58.597%	51.610	52.470	47.920	42.910
2	18:42:30	58.627%	1081.000	1104.000	57.780%	51.190	52.510	46.820	40.630
3	18:43:13	57.860%	1088.000	1105.000	57.392%	51.490	52.370	47.140	41.980
x		58.765%	1083.000	1104.000	57.923%	51.430	52.450	47.300	41.840
σ		0.981%	4.056	0.951	0.615%	0.219	0.070	0.565	1.148
%RSD		1.669	0.375	0.086	1.062	0.425	0.133	1.194	2.743
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:47	61.822%	2064.000	486.400	478.000	1989.000	1969.000	70.015%	71.272%
2	18:42:30	62.407%	2042.000	476.900	472.600	1960.000	1931.000	71.460%	72.791%
3	18:43:13	61.743%	2060.000	484.400	480.500	1959.000	1945.000	72.119%	72.827%
x		61.990%	2055.000	482.600	477.000	1970.000	1948.000	71.198%	72.297%
σ		0.363%	11.570	5.008	4.057	17.200	18.810	1.076%	0.887%
%RSD		0.585	0.563	1.038	0.851	0.874	0.965	1.511	1.227
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:41:47	51.070	50.220	19.940	21.520	20.760	58.691%		
2	18:42:30	49.670	50.150	20.020	21.260	20.490	59.982%		
3	18:43:13	50.090	49.670	20.030	21.400	20.740	60.145%		
x		50.280	50.010	20.000	21.400	20.660	59.606%		
σ		0.718	0.301	0.051	0.131	0.152	0.797%		
%RSD		1.429	0.601	0.258	0.613	0.737	1.336		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:49:59	78.968%	0.085	13.780	12.500	0.000	3103.000	1533.000	1531.000
2	18:50:42	76.527%	0.027	13.270	11.180	0.000	2944.000	1463.000	1468.000
3	18:51:25	73.237%	0.029	11.780	9.654	0.000	2908.000	1439.000	1444.000
x		76.244%	0.047	12.940	11.110	0.000	2985.000	1478.000	1481.000
σ		2.876%	0.033	1.040	1.424	0.000	104.100	48.940	45.150
%RSD		3.772	70.210	8.032	12.820	0.000	3.486	3.310	3.049

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:49:59	91.760	3141.000	0.000	1100.000	2901.000	2607.000	59.225%	1.722
2	18:50:42	84.420	2985.000	0.000	1073.000	2711.000	2606.000	57.206%	2.116
3	18:51:25	87.060	2964.000	0.000	1074.000	2938.000	2564.000	55.534%	1.311
x		87.750	3030.000	0.000	1083.000	2850.000	2592.000	57.321%	1.716
σ		3.719	96.680	0.000	15.470	121.700	24.880	1.848%	0.402
%RSD		4.238	3.191	0.000	1.429	4.271	0.960	3.224	23.450

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:49:59	0.246	3.099	21.330	712.700	738.900	1.175	2.561	0.405
2	18:50:42	-0.189	2.696	20.390	698.000	712.000	1.089	2.497	0.408
3	18:51:25	-0.901	2.720	20.600	686.100	696.400	1.067	2.423	0.343
x		-0.281	2.839	20.780	699.000	715.800	1.110	2.494	0.385
σ		0.579	0.226	0.493	13.330	21.520	0.057	0.069	0.037
%RSD		205.900	7.965	2.375	1.907	3.007	5.102	2.765	9.493

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:49:59	0.384	4.182	4.423	0.353	-0.492	-0.455	0.000	24.450
2	18:50:42	0.347	4.012	4.994	-0.475	-0.481	-0.523	0.000	25.460
3	18:51:25	0.303	4.191	3.819	-0.328	-0.515	-0.860	0.000	24.950
x		0.345	4.129	4.412	-0.150	-0.496	-0.612	0.000	24.950
σ		0.040	0.101	0.588	0.442	0.017	0.217	0.000	0.504
%RSD		11.680	2.443	13.320	293.900	3.453	35.390	0.000	2.019

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:49:59	63.522%	1.079	1.176	62.303%	-0.007	-0.007	-0.006	0.003
2	18:50:42	61.890%	0.905	0.865	61.297%	0.000	0.008	-0.009	-0.013
3	18:51:25	61.762%	0.927	0.904	59.551%	-0.007	-0.006	0.016	0.044
x		62.391%	0.970	0.982	61.050%	-0.004	-0.002	0.000	0.011
σ		0.981%	0.095	0.169	1.393%	0.004	0.008	0.014	0.029
%RSD		1.573	9.776	17.250	2.281	94.520	541.000	12730.000	269.100

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:49:59	64.198%	9.710	0.753	0.757	16.750	15.870	71.162%	71.252%
2	18:50:42	64.574%	8.899	0.534	0.547	15.460	15.980	71.465%	73.160%
3	18:51:25	63.968%	8.034	0.460	0.393	15.600	15.420	70.883%	72.727%
x		64.247%	8.881	0.582	0.566	15.940	15.750	71.170%	72.379%
σ		0.306%	0.838	0.152	0.182	0.706	0.295	0.291%	1.000%
%RSD		0.476	9.439	26.180	32.240	4.430	1.875	0.409	1.382

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	18:49:59	0.087	0.092	0.207	0.235	0.211	64.303%
2	18:50:42	0.104	0.101	0.219	0.254	0.225	66.296%
3	18:51:25	0.093	0.095	0.208	0.252	0.205	66.821%
x		0.094	0.096	0.211	0.247	0.214	65.807%
σ		0.009	0.005	0.007	0.010	0.010	1.328%
%RSD		9.028	4.811	3.109	4.039	4.891	2.018

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:58:11	80.931%	0.039	2.668	0.863	0.000	2730.000	521.600	522.300
2	18:58:54	73.911%	-0.019	0.283	-0.701	0.000	2705.000	510.400	504.700
3	18:59:37	72.310%	-0.003	1.018	0.074	0.000	2678.000	499.100	509.500
x		75.718%	0.006	1.323	0.079	0.000	2705.000	510.400	512.100
σ		4.586%	0.030	1.221	0.782	0.000	26.030	11.240	9.107
%RSD		6.056	526.400	92.330	992.600	0.000	0.963	2.202	1.778

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:58:11	96.300	6097.000	0.000	1175.000	14800.000	14510.000	58.344%	3.795
2	18:58:54	94.520	5943.000	0.000	1172.000	14830.000	14250.000	56.008%	3.531
3	18:59:37	96.370	5991.000	0.000	1188.000	15050.000	14330.000	53.365%	3.035
x		95.730	6010.000	0.000	1178.000	14890.000	14360.000	55.906%	3.454
σ		1.046	78.810	0.000	8.368	140.700	132.500	2.491%	0.386
%RSD		1.092	1.311	0.000	0.710	0.945	0.922	4.456	11.180

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:58:11	0.411	3.140	13.510	495.900	539.300	0.197	0.956	0.288
2	18:58:54	-0.003	2.548	13.450	489.600	529.100	0.184	0.875	0.289
3	18:59:37	-1.116	2.575	13.840	493.500	534.000	0.210	0.852	0.309
x		-0.236	2.755	13.600	493.000	534.100	0.197	0.894	0.295
σ		0.790	0.334	0.213	3.182	5.103	0.013	0.055	0.012
%RSD		334.700	12.130	1.563	0.645	0.955	6.679	6.112	3.948

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:58:11	0.356	2.424	2.210	0.870	-0.359	-0.273	0.000	26.240
2	18:58:54	0.190	2.146	2.406	-0.230	-0.312	-0.640	0.000	26.060
3	18:59:37	0.371	2.173	1.791	0.083	-0.172	-0.408	0.000	26.190
x		0.305	2.247	2.136	0.241	-0.281	-0.441	0.000	26.160
σ		0.101	0.153	0.314	0.567	0.097	0.186	0.000	0.092
%RSD		32.920	6.825	14.710	235.300	34.600	42.100	0.000	0.353

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:58:11	61.706%	0.379	0.472	59.922%	-0.004	0.001	0.051	0.039
2	18:58:54	60.232%	0.331	0.276	58.960%	-0.002	-0.004	0.048	-0.037
3	18:59:37	59.345%	0.364	0.303	58.256%	-0.009	-0.009	0.020	0.020
x		60.428%	0.358	0.350	59.046%	-0.005	-0.004	0.039	0.007
σ		1.193%	0.024	0.106	0.836%	0.004	0.005	0.017	0.040
%RSD		1.974	6.830	30.210	1.417	76.570	133.300	43.080	560.300

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:58:11	62.779%	5.900	0.204	0.187	3.621	3.622	68.105%	69.059%
2	18:58:54	62.707%	6.160	0.194	0.227	3.032	3.888	69.010%	70.679%
3	18:59:37	61.360%	6.102	0.201	0.252	3.656	3.700	69.210%	70.984%
x		62.282%	6.054	0.199	0.222	3.437	3.736	68.775%	70.241%
σ		0.799%	0.136	0.005	0.033	0.351	0.137	0.589%	1.034%
%RSD		1.283	2.252	2.583	14.870	10.200	3.657	0.856	1.472

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	18:58:11	0.072	0.058	0.196	0.201	0.193	61.617%
2	18:58:54	0.053	0.056	0.195	0.195	0.189	63.235%
3	18:59:37	0.063	0.046	0.170	0.203	0.187	63.821%
x		0.063	0.053	0.187	0.199	0.190	62.891%
σ		0.010	0.006	0.015	0.004	0.003	1.142%
%RSD		15.320	11.490	7.971	1.968	1.610	1.815

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:06:23	94.418%	0.006	-10.430	-10.170	0.000	6.449	0.436	0.165
2	19:07:06	91.910%	-0.006	-12.040	-10.500	0.000	9.401	0.041	0.152
3	19:07:49	89.787%	-0.006	-11.090	-11.050	0.000	10.890	-0.112	0.091
x		92.038%	-0.002	-11.190	-10.580	0.000	8.912	0.122	0.136
σ		2.319%	0.007	0.806	0.445	0.000	2.259	0.283	0.039
%RSD		2.519	286.500	7.208	4.212	0.000	25.350	232.400	28.790

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:06:23	1.752	2.267	0.000	-13.220	-5.854	1.484	78.072%	-0.271
2	19:07:06	1.052	1.445	0.000	-11.770	-5.854	-0.170	76.195%	0.012
3	19:07:49	0.611	1.460	0.000	-12.060	-5.854	-0.517	75.006%	-0.022
x		1.138	1.724	0.000	-12.350	-5.854	0.266	76.424%	-0.094
σ		0.575	0.470	0.000	0.768	0.000	1.069	1.546%	0.155
%RSD		50.540	27.280	0.000	6.222	0.000	402.400	2.023	165.100

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:06:23	-0.114	0.113	0.139	-0.176	-0.090	-0.007	0.011	-0.002
2	19:07:06	0.081	0.246	0.133	-0.778	-0.554	-0.007	0.011	0.027
3	19:07:49	-0.017	0.127	0.165	-0.975	0.383	-0.000	-0.000	0.010
x		-0.017	0.162	0.145	-0.643	-0.087	-0.005	0.007	0.011
σ		0.098	0.073	0.017	0.416	0.469	0.004	0.006	0.014
%RSD		583.000	45.110	11.660	64.740	537.800	85.780	87.640	125.100

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:06:23	0.003	0.136	0.110	0.324	-0.447	0.569	0.000	0.003
2	19:07:06	0.022	0.099	-0.033	0.104	-0.085	0.586	0.000	0.002
3	19:07:49	0.053	0.107	0.176	-0.225	-0.405	-0.297	0.000	0.004
x		0.026	0.114	0.084	0.067	-0.312	0.286	0.000	0.003
σ		0.025	0.019	0.107	0.276	0.197	0.505	0.000	0.001
%RSD		98.130	17.070	126.900	409.800	63.250	176.700	0.000	42.820

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:06:23	77.986%	0.245	0.155	78.233%	-0.006	-0.002	0.077	0.047
2	19:07:06	79.081%	0.166	0.146	78.123%	-0.006	-0.010	0.092	0.073
3	19:07:49	77.075%	0.205	0.153	77.218%	-0.002	-0.012	-0.049	-0.035
x		78.047%	0.205	0.151	77.858%	-0.005	-0.008	0.040	0.028
σ		1.005%	0.040	0.005	0.557%	0.002	0.005	0.077	0.056
%RSD		1.287	19.350	3.206	0.715	45.780	66.770	193.400	197.300

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:06:23	76.682%	0.087	0.019	0.033	-0.033	0.014	78.796%	78.338%
2	19:07:06	77.705%	0.080	0.032	0.039	-0.053	-0.003	78.465%	80.257%
3	19:07:49	76.806%	0.078	0.027	0.020	-0.023	-0.003	78.570%	78.992%
x		77.064%	0.082	0.026	0.031	-0.036	0.002	78.610%	79.196%
σ		0.558%	0.005	0.006	0.010	0.016	0.010	0.169%	0.975%
%RSD		0.724	5.797	25.120	32.740	43.280	425.400	0.215	1.232

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	19:06:23	0.028	0.019	0.084	0.065	0.068	74.044%
2	19:07:06	0.016	0.020	0.058	0.049	0.055	75.323%
3	19:07:49	0.031	0.019	0.055	0.068	0.065	72.054%
x		0.025	0.019	0.066	0.061	0.063	73.807%
σ		0.008	0.000	0.016	0.010	0.007	1.648%
%RSD		32.490	1.363	24.320	16.650	11.180	2.232

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:14:36	77.119%	47.900	892.300	847.000	0.000	42940.000	42770.000	43040.000
2	19:15:19	75.921%	48.690	910.300	864.500	0.000	42820.000	42600.000	42900.000
3	19:16:02	73.806%	48.540	908.600	862.800	0.000	42240.000	42160.000	42610.000
x		75.616%	48.380	903.700	858.100	0.000	42660.000	42510.000	42850.000
σ		1.677%	0.419	9.965	9.653	0.000	373.600	315.800	221.400
%RSD		2.218	0.867	1.103	1.125	0.000	0.876	0.743	0.517

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:14:36	1678.000	8473.000	0.000	44850.000	47070.000	45390.000	58.538%	1004.000
2	19:15:19	1667.000	8335.000	0.000	45240.000	46640.000	45250.000	56.145%	1008.000
3	19:16:02	1644.000	8324.000	0.000	45310.000	47630.000	44790.000	54.185%	1002.000
x		1663.000	8377.000	0.000	45140.000	47110.000	45140.000	56.289%	1004.000
σ		17.200	83.180	0.000	250.700	500.000	316.700	2.181%	3.033
%RSD		1.034	0.993	0.000	0.555	1.061	0.702	3.874	0.302

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:14:36	481.000	194.500	487.900	985.500	1077.000	485.800	484.800	250.800
2	19:15:19	488.700	197.700	500.000	1007.000	1109.000	496.700	488.900	248.900
3	19:16:02	491.300	198.800	504.600	1015.000	1101.000	485.200	481.300	244.400
x		487.000	197.000	497.500	1003.000	1096.000	489.200	485.000	248.000
σ		5.345	2.221	8.590	15.360	16.420	6.504	3.816	3.322
%RSD		1.098	1.128	1.727	1.532	1.499	1.329	0.787	1.339

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:14:36	250.500	457.000	463.900	35.920	8.141	9.108	0.000	1013.000
2	19:15:19	251.800	457.500	467.500	35.650	8.505	9.347	0.000	1007.000
3	19:16:02	244.300	457.000	462.100	34.230	8.602	8.129	0.000	999.900
x		248.900	457.200	464.500	35.270	8.416	8.861	0.000	1006.000
σ		3.999	0.307	2.775	0.906	0.243	0.645	0.000	6.492
%RSD		1.607	0.067	0.598	2.569	2.888	7.282	0.000	0.645

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:14:36	55.346%	1060.000	1061.000	58.318%	48.420	49.630	46.280	39.750
2	19:15:19	55.578%	1061.000	1069.000	57.931%	49.320	48.870	45.060	40.740
3	19:16:02	55.682%	1056.000	1066.000	58.425%	47.690	49.260	45.620	39.840
x		55.535%	1059.000	1066.000	58.224%	48.480	49.250	45.650	40.110
σ		0.172%	2.359	3.779	0.260%	0.817	0.378	0.610	0.547
%RSD		0.309	0.223	0.355	0.446	1.685	0.767	1.337	1.365

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:14:36	60.760%	1945.000	458.000	451.800	1851.000	1839.000	68.054%	69.146%
2	19:15:19	61.468%	1954.000	456.100	449.000	1842.000	1828.000	69.487%	70.466%
3	19:16:02	61.801%	1941.000	454.800	450.700	1826.000	1826.000	70.360%	71.792%
x		61.343%	1947.000	456.300	450.500	1840.000	1831.000	69.300%	70.468%
σ		0.532%	6.658	1.610	1.399	12.500	7.018	1.164%	1.323%
%RSD		0.867	0.342	0.353	0.311	0.679	0.383	1.680	1.878

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	19:14:36	46.640	46.640	18.750	20.170	19.420	56.223%
2	19:15:19	46.550	47.040	18.400	20.410	19.440	57.754%
3	19:16:02	47.200	46.960	18.340	19.840	19.400	58.087%
x		46.790	46.880	18.500	20.140	19.420	57.355%
σ		0.354	0.212	0.220	0.286	0.020	0.994%
%RSD		0.756	0.453	1.187	1.423	0.101	1.733

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:22:49	87.675%	102.900	93.770	92.230	0.000	46840.000	47680.000	47810.000
2	19:23:32	85.437%	104.600	89.130	89.060	0.000	47210.000	47250.000	47380.000
3	19:24:15	85.774%	99.160	87.670	86.150	0.000	46230.000	46940.000	46130.000
x		86.296%	102.223%	90.189%	89.146%	0.000	93.520%	94.583%	94.212%
σ		1.207%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.398	2.739	3.535	3.412	0.000	1.052	0.794	1.854

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:22:49	493.000	5018.000	0.000	48450.000	49270.000	46810.000	74.178%	107.300
2	19:23:32	481.100	4913.000	0.000	48060.000	48620.000	46080.000	73.764%	106.700
3	19:24:15	471.800	4762.000	0.000	46710.000	47270.000	44190.000	74.071%	98.620
x		96.401%	97.951%	0.000	95.478%	96.771%	91.383%	74.005%	104.200%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.215%	n/a
%RSD		2.206	2.627	0.000	1.919	2.111	2.961	0.291	4.644

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:22:49	100.800	101.300	509.900	25610.000	25480.000	103.600	108.100	106.500
2	19:23:32	100.200	100.500	506.600	25500.000	25730.000	102.900	102.600	107.800
3	19:24:15	96.740	96.820	481.700	24300.000	24370.000	97.860	100.900	100.200
x		99.246%	99.556%	99.886%	100.542%	100.779%	101.459%	103.895%	104.815%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.202	2.413	3.088	2.892	2.875	3.094	3.600	3.870

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:22:49	107.600	104.900	102.900	100.900	101.300	100.500	0.000	95.810
2	19:23:32	105.200	103.700	105.900	101.800	102.200	102.800	0.000	96.160
3	19:24:15	99.700	99.570	99.760	95.900	98.340	92.850	0.000	91.030
x		104.166%	102.709%	102.854%	99.539%	100.614%	98.736%	0.000	94.335%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		3.884	2.715	2.974	3.200	2.003	5.289	0.000	3.036

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:22:49	76.579%	102.400	104.300	72.559%	101.200	101.000	97.380	100.800
2	19:23:32	75.543%	105.300	107.400	71.530%	100.600	101.800	99.270	99.510
3	19:24:15	77.411%	100.500	101.900	73.079%	95.330	96.960	92.730	94.910
x		76.511%	102.738%	104.541%	72.389%	99.044%	99.916%	96.461%	98.406%
σ		0.936%	n/a	n/a	0.788%	n/a	n/a	n/a	n/a
%RSD		1.223	2.343	2.645	1.089	3.263	2.599	3.487	3.144

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:22:49	74.460%	98.280	97.620	97.560	95.580	96.580	78.317%	78.683%
2	19:23:32	73.354%	99.390	98.420	99.040	96.270	95.430	78.207%	78.406%
3	19:24:15	75.224%	95.710	93.620	94.560	92.050	91.550	80.298%	80.148%
x		74.346%	97.790%	96.552%	97.054%	94.632%	94.518%	78.941%	79.079%
σ		0.940%	n/a	n/a	n/a	n/a	n/a	1.176%	0.936%
%RSD		1.264	1.931	2.666	2.349	2.391	2.788	1.490	1.184

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	19:22:49	96.680	96.760	98.150	98.760	98.310	67.127%
2	19:23:32	98.670	97.660	98.760	97.840	98.890	67.120%
3	19:24:15	92.980	92.280	92.960	93.530	92.890	69.351%
x		96.111%	95.568%	96.623%	96.710%	96.696%	67.866%
σ		n/a	n/a	n/a	n/a	n/a	1.286%
%RSD		3.009	3.014	3.300	2.885	3.424	1.895

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:31:04	104.875%	0.003	-9.402	-9.006	0.000	9.069	6.371	5.551
2	19:31:47	104.336%	0.014	-9.327	-9.555	0.000	11.910	8.240	6.998
3	19:32:30	102.832%	0.003	-9.795	-9.807	0.000	11.140	6.154	5.732
x		104.014%	0.007	-9.508	-9.456	0.000	10.700	6.921	6.094
σ		1.059%	0.006	0.251	0.409	0.000	1.467	1.147	0.788
%RSD		1.018	94.250	2.640	4.330	0.000	13.710	16.570	12.940

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:31:04	1.602	-0.719	0.000	-6.689	-0.580	3.755	95.238%	-0.164
2	19:31:47	1.557	-0.923	0.000	-4.974	4.687	8.021	95.322%	-0.196
3	19:32:30	1.651	-0.024	0.000	-7.616	4.641	8.279	95.838%	-0.102
x		1.604	-0.556	0.000	-6.426	2.916	6.685	95.466%	-0.154
σ		0.047	0.471	0.000	1.340	3.028	2.540	0.325%	0.048
%RSD		2.948	84.820	0.000	20.860	103.800	38.000	0.340	31.240

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:31:04	0.004	0.014	0.611	8.059	5.681	0.019	0.023	0.029
2	19:31:47	0.042	0.062	0.535	8.606	5.837	0.020	0.061	0.040
3	19:32:30	0.015	-0.019	0.494	6.577	5.886	0.025	0.023	0.061
x		0.020	0.019	0.547	7.747	5.801	0.021	0.036	0.043
σ		0.020	0.041	0.059	1.050	0.107	0.004	0.022	0.016
%RSD		96.130	214.200	10.890	13.550	1.848	16.460	61.040	37.150

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:31:04	0.056	0.095	0.211	0.038	0.100	-0.025	0.000	0.035
2	19:31:47	0.063	0.178	0.191	-0.129	0.102	-0.603	0.000	0.027
3	19:32:30	0.061	0.077	0.210	-0.185	0.059	-0.441	0.000	0.029
x		0.060	0.117	0.204	-0.092	0.087	-0.356	0.000	0.030
σ		0.004	0.054	0.011	0.116	0.024	0.298	0.000	0.004
%RSD		6.077	45.950	5.393	126.100	27.840	83.550	0.000	13.480

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:31:04	93.527%	0.444	0.469	95.076%	0.010	0.008	0.155	0.115
2	19:31:47	95.207%	0.476	0.522	97.072%	-0.003	0.010	0.128	0.084
3	19:32:30	97.073%	0.379	0.457	96.925%	0.008	0.002	0.082	0.076
x		95.269%	0.433	0.483	96.358%	0.005	0.007	0.122	0.092
σ		1.774%	0.049	0.035	1.112%	0.007	0.004	0.037	0.020
%RSD		1.862	11.350	7.260	1.154	142.800	60.800	30.280	22.230

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:31:04	91.624%	0.183	0.066	0.104	-0.028	0.020	89.901%	90.520%
2	19:31:47	93.696%	0.212	0.080	0.073	0.005	0.048	92.913%	94.404%
3	19:32:30	94.026%	0.182	0.064	0.054	-0.021	0.028	93.744%	93.839%
x		93.115%	0.192	0.070	0.077	-0.015	0.032	92.186%	92.921%
σ		1.302%	0.017	0.009	0.025	0.017	0.014	2.022%	2.099%
%RSD		1.398	8.659	12.170	32.950	115.800	45.080	2.194	2.258

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	19:31:04	0.033	0.039	0.153	0.129	0.154	91.982%
2	19:31:47	0.035	0.046	0.168	0.174	0.162	95.322%
3	19:32:30	0.039	0.041	0.147	0.153	0.150	96.340%
x		0.035	0.042	0.156	0.152	0.156	94.548%
σ		0.003	0.003	0.010	0.022	0.006	2.280%
%RSD		8.035	7.930	6.619	14.710	3.802	2.411

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:39:19	84.137%	-0.005	69.390	66.170	0.000	3420.000	38140.000	38550.000
2	19:40:02	79.069%	0.011	71.240	67.380	0.000	3366.000	37590.000	37690.000
3	19:40:45	76.201%	-0.004	72.740	66.860	0.000	3362.000	37770.000	37640.000
x		79.802%	0.001	71.120	66.800	0.000	3383.000	37830.000	37960.000
σ		4.018%	0.009	1.676	0.606	0.000	32.150	283.600	511.400
%RSD		5.036	1674.000	2.356	0.908	0.000	0.951	0.750	1.347

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:39:19	9.722	4021.000	0.000	2319.000	82620.000	78560.000	63.907%	1.328
2	19:40:02	10.050	3892.000	0.000	2246.000	80980.000	75830.000	60.291%	1.075
3	19:40:45	9.714	3847.000	0.000	2271.000	82100.000	78640.000	58.775%	1.836
x		9.828	3920.000	0.000	2279.000	81900.000	77680.000	60.991%	1.413
σ		0.192	90.240	0.000	37.330	840.500	1601.000	2.637%	0.388
%RSD		1.951	2.302	0.000	1.638	1.026	2.061	4.323	27.450

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:39:19	0.814	2.546	0.618	29.350	199.500	0.122	1.405	0.815
2	19:40:02	-0.785	2.298	0.591	27.670	178.800	0.137	1.352	0.907
3	19:40:45	-0.249	2.124	0.632	27.800	185.600	0.084	1.237	0.923
x		-0.073	2.323	0.614	28.280	188.000	0.114	1.331	0.882
σ		0.814	0.212	0.021	0.936	10.560	0.028	0.086	0.059
%RSD		1112.000	9.148	3.449	3.311	5.615	24.110	6.472	6.639

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:39:19	0.985	14.900	14.580	-0.607	0.204	1.006	0.000	125.700
2	19:40:02	1.089	14.940	15.270	-0.322	0.264	0.482	0.000	122.800
3	19:40:45	0.923	15.360	15.130	-0.003	0.629	1.169	0.000	124.100
x		0.999	15.070	14.990	-0.310	0.366	0.886	0.000	124.200
σ		0.084	0.254	0.368	0.302	0.230	0.359	0.000	1.421
%RSD		8.427	1.684	2.452	97.400	62.860	40.540	0.000	1.144

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:39:19	70.053%	3.833	3.590	62.262%	0.003	-0.002	0.095	0.029
2	19:40:02	68.376%	3.532	3.513	62.174%	-0.002	0.001	0.042	0.046
3	19:40:45	67.377%	3.187	3.465	60.654%	-0.012	-0.014	-0.081	-0.022
x		68.602%	3.517	3.523	61.697%	-0.004	-0.005	0.019	0.018
σ		1.352%	0.324	0.063	0.904%	0.007	0.008	0.090	0.036
%RSD		1.971	9.202	1.791	1.465	191.400	154.200	483.100	199.700

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:39:19	65.727%	10.350	5.382	5.567	36.210	37.090	71.661%	73.238%
2	19:40:02	65.973%	9.495	5.558	5.384	35.690	35.310	74.348%	75.324%
3	19:40:45	64.867%	9.103	5.458	5.267	35.650	36.700	74.296%	74.915%
x		65.522%	9.648	5.466	5.406	35.850	36.360	73.435%	74.492%
σ		0.581%	0.636	0.089	0.151	0.313	0.935	1.537%	1.105%
%RSD		0.886	6.594	1.619	2.797	0.872	2.570	2.093	1.484

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	19:39:19	0.034	0.041	0.157	0.143	0.154	60.141%
2	19:40:02	0.034	0.037	0.110	0.100	0.106	62.842%
3	19:40:45	0.042	0.041	0.117	0.114	0.118	62.758%
x		0.037	0.040	0.128	0.119	0.126	61.914%
σ		0.005	0.003	0.026	0.022	0.025	1.536%
%RSD		12.370	6.646	20.040	18.730	20.020	2.481

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:47:32	89.043%	-0.006	5.082	5.007	0.000	711.300	8141.000	8146.000
2	19:48:15	86.706%	-0.006	2.229	3.953	0.000	674.900	7688.000	7727.000
3	19:48:58	85.326%	-0.019	3.489	3.776	0.000	692.200	8009.000	8016.000
x		87.025%	-0.010	3.600	4.245	0.000	692.800	7946.000	7963.000
σ		1.879%	0.008	1.429	0.665	0.000	18.240	233.200	214.200
%RSD		2.159	74.290	39.700	15.670	0.000	2.633	2.935	2.690

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:47:32	2.012	869.100	0.000	458.700	16710.000	15770.000	72.658%	0.116
2	19:48:15	2.215	823.700	0.000	435.000	15630.000	14990.000	71.521%	0.252
3	19:48:58	2.337	844.800	0.000	456.000	16130.000	15420.000	69.216%	0.229
x		2.188	845.900	0.000	449.900	16150.000	15390.000	71.132%	0.199
σ		0.164	22.740	0.000	12.970	537.600	390.900	1.754%	0.073
%RSD		7.502	2.688	0.000	2.884	3.328	2.540	2.465	36.430

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:47:32	0.024	0.444	0.142	5.635	47.920	0.024	0.192	0.240
2	19:48:15	-1.223	0.426	0.148	4.464	36.640	0.024	0.151	0.148
3	19:48:58	-0.037	0.401	0.117	5.068	44.380	0.010	0.360	0.257
x		-0.412	0.424	0.136	5.056	42.980	0.020	0.234	0.215
σ		0.703	0.022	0.017	0.585	5.772	0.008	0.111	0.059
%RSD		170.600	5.178	12.210	11.570	13.430	40.690	47.270	27.250

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:47:32	0.282	3.673	3.288	0.218	-0.213	0.178	0.000	25.580
2	19:48:15	0.273	3.658	3.503	0.431	0.108	-0.360	0.000	25.490
3	19:48:58	0.272	3.739	3.394	-0.240	-0.310	-0.140	0.000	25.790
x		0.276	3.690	3.395	0.136	-0.138	-0.107	0.000	25.620
σ		0.006	0.043	0.107	0.343	0.219	0.271	0.000	0.157
%RSD		2.011	1.167	3.165	251.500	158.300	252.800	0.000	0.614

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:47:32	73.282%	0.887	0.810	72.235%	-0.008	-0.007	0.052	0.058
2	19:48:15	74.035%	0.812	0.619	72.749%	-0.002	-0.010	0.039	0.029
3	19:48:58	72.476%	0.803	0.581	71.873%	0.005	-0.007	0.029	0.021
x		73.264%	0.834	0.670	72.285%	-0.002	-0.008	0.040	0.036
σ		0.780%	0.047	0.123	0.440%	0.006	0.001	0.011	0.019
%RSD		1.064	5.578	18.290	0.609	389.100	15.570	28.310	54.080

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:47:32	71.779%	0.306	1.323	1.166	6.994	7.093	74.861%	74.876%
2	19:48:15	73.697%	0.345	1.211	1.071	7.157	7.216	77.417%	78.100%
3	19:48:58	72.481%	0.318	1.098	1.159	7.759	6.958	76.663%	77.737%
x		72.652%	0.323	1.211	1.132	7.303	7.089	76.314%	76.904%
σ		0.971%	0.020	0.112	0.053	0.403	0.129	1.314%	1.766%
%RSD		1.336	6.208	9.279	4.678	5.513	1.821	1.721	2.296

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	19:47:32	0.017	0.023	0.075	0.095	0.084	68.295%
2	19:48:15	0.016	0.013	0.078	0.049	0.062	72.233%
3	19:48:58	0.018	0.019	0.064	0.062	0.065	71.891%
x		0.017	0.018	0.072	0.069	0.070	70.806%
σ		0.001	0.005	0.007	0.023	0.012	2.182%
%RSD		3.299	27.970	10.200	34.010	16.420	3.081

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:55:46	80.463%	45.310	963.900	911.800	0.000	46140.000	81340.000	82460.000
2	19:56:29	80.214%	44.030	928.200	886.500	0.000	45080.000	78790.000	78890.000
3	19:57:12	77.373%	45.170	943.100	885.100	0.000	45710.000	79220.000	79830.000
x		79.350%	44.840	945.100	894.500	0.000	45640.000	79780.000	80390.000
σ		1.717%	0.701	17.910	15.000	0.000	534.900	1367.000	1849.000
%RSD		2.163	1.564	1.895	1.677	0.000	1.172	1.713	2.300

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:55:46	1712.000	12300.000	0.000	49280.000	137800.000	137300.000	58.568%	1039.000
2	19:56:29	1617.000	11690.000	0.000	47930.000	134000.000	128700.000	55.362%	1021.000
3	19:57:12	1623.000	11690.000	0.000	48150.000	137200.000	130000.000	53.250%	1019.000
x		1650.000	11890.000	0.000	48450.000	136300.000	132000.000	55.727%	1026.000
σ		53.330	350.900	0.000	723.900	2045.000	4602.000	2.678%	11.090
%RSD		3.231	2.950	0.000	1.494	1.500	3.487	4.805	1.081

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:55:46	510.300	202.000	506.000	1046.000	1349.000	506.400	498.400	250.300
2	19:56:29	493.700	197.500	500.100	1034.000	1309.000	484.800	474.600	238.700
3	19:57:12	491.800	197.400	505.000	1028.000	1288.000	484.200	481.100	239.500
x		498.600	199.000	503.700	1036.000	1315.000	491.800	484.700	242.800
σ		10.210	2.634	3.164	8.800	30.610	12.650	12.340	6.481
%RSD		2.048	1.324	0.628	0.849	2.327	2.571	2.545	2.669

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:55:46	253.800	464.500	462.300	38.000	8.993	8.592	0.000	1219.000
2	19:56:29	241.200	454.300	453.400	35.600	9.260	10.030	0.000	1202.000
3	19:57:12	240.000	459.900	455.000	36.270	9.167	8.186	0.000	1195.000
x		245.000	459.600	456.900	36.620	9.140	8.936	0.000	1205.000
σ		7.625	5.136	4.758	1.242	0.135	0.968	0.000	12.630
%RSD		3.112	1.118	1.041	3.392	1.479	10.830	0.000	1.048

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:55:46	54.565%	1107.000	1116.000	58.615%	47.240	47.950	44.220	40.280
2	19:56:29	53.711%	1105.000	1118.000	57.382%	47.690	48.400	46.650	39.010
3	19:57:12	53.277%	1100.000	1118.000	55.847%	47.320	48.450	45.500	39.060
x		53.851%	1104.000	1117.000	57.281%	47.420	48.270	45.460	39.450
σ		0.656%	3.642	1.308	1.387%	0.236	0.274	1.216	0.718
%RSD		1.217	0.330	0.117	2.421	0.498	0.567	2.675	1.821

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:55:46	61.381%	1967.000	452.500	456.700	1924.000	1904.000	68.859%	69.873%
2	19:56:29	60.880%	1979.000	462.400	464.200	1930.000	1901.000	69.126%	71.330%
3	19:57:12	60.468%	1977.000	463.900	461.400	1912.000	1885.000	70.258%	71.197%
x		60.909%	1974.000	459.600	460.700	1922.000	1897.000	69.414%	70.800%
σ		0.457%	6.273	6.203	3.785	9.428	10.380	0.743%	0.805%
%RSD		0.751	0.318	1.350	0.822	0.490	0.547	1.070	1.137

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	19:55:46	47.530	47.880	18.240	20.540	19.640	55.219%
2	19:56:29	48.400	48.300	18.910	20.540	19.700	56.189%
3	19:57:12	49.250	49.570	19.310	20.860	19.820	55.654%
x		48.390	48.580	18.820	20.650	19.720	55.687%
σ		0.860	0.878	0.539	0.181	0.095	0.486%
%RSD		1.776	1.807	2.865	0.875	0.484	0.872

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:04:00	79.127%	44.400	939.500	903.800	0.000	46370.000	79970.000	80920.000
2	20:04:43	76.051%	45.610	955.500	900.900	0.000	44930.000	77800.000	78560.000
3	20:05:26	74.979%	43.330	970.500	904.300	0.000	44720.000	77640.000	78890.000
x		76.719%	44.440	955.100	903.000	0.000	45340.000	78470.000	79460.000
σ		2.153%	1.140	15.500	1.857	0.000	893.800	1302.000	1279.000
%RSD		2.806	2.566	1.622	0.206	0.000	1.971	1.660	1.610

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:04:00	1672.000	12000.000	0.000	48210.000	134500.000	126800.000	56.546%	1016.000
2	20:04:43	1629.000	11670.000	0.000	48480.000	136200.000	128400.000	53.451%	1009.000
3	20:05:26	1625.000	11710.000	0.000	47690.000	134600.000	125300.000	52.036%	1034.000
x		1642.000	11800.000	0.000	48130.000	135100.000	126900.000	54.011%	1020.000
σ		26.290	177.900	0.000	400.700	976.500	1563.000	2.307%	12.910
%RSD		1.601	1.508	0.000	0.833	0.723	1.232	4.271	1.266

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:04:00	491.700	195.900	490.000	1007.000	1307.000	484.900	487.300	240.700
2	20:04:43	487.400	196.200	494.300	1009.000	1303.000	479.800	479.300	242.200
3	20:05:26	489.900	195.800	502.800	1019.000	1284.000	482.600	475.600	236.000
x		489.700	196.000	495.700	1012.000	1298.000	482.400	480.800	239.600
σ		2.152	0.222	6.518	6.331	12.500	2.555	6.007	3.197
%RSD		0.440	0.113	1.315	0.626	0.963	0.530	1.249	1.334

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:04:00	248.200	447.800	449.400	34.280	8.151	9.396	0.000	1149.000
2	20:04:43	240.900	451.400	455.100	34.640	9.111	9.626	0.000	1138.000
3	20:05:26	240.500	459.200	455.800	32.510	9.321	9.354	0.000	1159.000
x		243.200	452.800	453.400	33.810	8.861	9.459	0.000	1149.000
σ		4.321	5.786	3.501	1.142	0.624	0.146	0.000	10.670
%RSD		1.777	1.278	0.772	3.377	7.043	1.547	0.000	0.929

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:04:00	55.645%	1074.000	1091.000	56.352%	47.360	48.390	44.730	39.580
2	20:04:43	54.034%	1076.000	1101.000	54.974%	47.610	47.200	44.290	38.940
3	20:05:26	52.717%	1079.000	1099.000	54.096%	47.940	48.020	45.700	38.190
x		54.132%	1077.000	1097.000	55.141%	47.640	47.870	44.910	38.900
σ		1.467%	2.431	5.096	1.137%	0.294	0.611	0.722	0.695
%RSD		2.709	0.226	0.465	2.062	0.618	1.276	1.607	1.788

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:04:00	59.800%	1965.000	456.600	449.700	1894.000	1882.000	67.480%	68.147%
2	20:04:43	59.275%	1954.000	457.200	457.700	1904.000	1885.000	67.444%	68.756%
3	20:05:26	58.340%	1991.000	462.000	456.200	1904.000	1890.000	68.644%	68.846%
x		59.138%	1970.000	458.600	454.500	1901.000	1886.000	67.856%	68.583%
σ		0.740%	18.950	2.926	4.247	5.877	4.058	0.683%	0.380%
%RSD		1.251	0.962	0.638	0.934	0.309	0.215	1.006	0.554

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:04:00	48.240	47.960	18.460	20.440	19.450	54.206%
2	20:04:43	48.830	49.170	19.450	21.180	20.170	53.851%
3	20:05:26	48.410	48.110	18.970	20.560	19.750	55.122%
x		48.490	48.410	18.960	20.730	19.790	54.393%
σ		0.302	0.656	0.492	0.398	0.362	0.656%
%RSD		0.623	1.355	2.595	1.921	1.829	1.205

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:12:15	76.423%	47.510	989.500	945.100	0.000	46760.000	80220.000	80910.000
2	20:12:58	73.595%	48.070	989.100	938.900	0.000	44870.000	76670.000	77150.000
3	20:13:41	72.919%	48.170	1031.000	963.400	0.000	45760.000	78630.000	79060.000
x		74.312%	47.920	1003.000	949.100	0.000	45800.000	78510.000	79040.000
σ		1.859%	0.357	24.130	12.710	0.000	949.700	1780.000	1880.000
%RSD		2.501	0.745	2.406	1.340	0.000	2.074	2.268	2.379

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:12:15	1768.000	12130.000	0.000	49040.000	132500.000	125800.000	53.566%	1022.000
2	20:12:58	1701.000	11820.000	0.000	48220.000	133100.000	123500.000	51.482%	1021.000
3	20:13:41	1695.000	11780.000	0.000	48870.000	134300.000	127100.000	50.102%	1025.000
x		1722.000	11910.000	0.000	48710.000	133300.000	125500.000	51.717%	1023.000
σ		40.670	194.800	0.000	430.500	909.300	1851.000	1.744%	1.679
%RSD		2.362	1.635	0.000	0.884	0.682	1.475	3.372	0.164

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:12:15	513.600	207.000	521.300	1062.000	1382.000	510.100	502.400	252.200
2	20:12:58	511.100	204.200	518.000	1055.000	1330.000	498.700	485.500	243.500
3	20:13:41	517.300	205.000	523.000	1068.000	1365.000	504.700	482.800	243.800
x		514.000	205.400	520.800	1062.000	1359.000	504.500	490.200	246.500
σ		3.123	1.448	2.512	6.074	26.830	5.691	10.590	4.967
%RSD		0.608	0.705	0.482	0.572	1.974	1.128	2.161	2.015

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:12:15	248.800	474.000	473.900	38.100	9.888	10.290	0.000	1182.000
2	20:12:58	244.200	474.400	482.300	35.780	8.735	8.332	0.000	1156.000
3	20:13:41	247.200	477.300	485.100	35.290	9.199	11.020	0.000	1173.000
x		246.700	475.300	480.400	36.390	9.274	9.881	0.000	1170.000
σ		2.338	1.775	5.837	1.502	0.580	1.390	0.000	13.610
%RSD		0.948	0.374	1.215	4.126	6.257	14.070	0.000	1.163

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:12:15	54.687%	1083.000	1108.000	54.382%	51.040	52.280	47.970	41.420
2	20:12:58	54.141%	1074.000	1100.000	52.964%	50.320	50.480	46.400	41.060
3	20:13:41	53.851%	1085.000	1118.000	52.935%	50.570	51.960	48.320	40.690
x		54.226%	1081.000	1109.000	53.427%	50.640	51.570	47.560	41.060
σ		0.424%	5.507	9.098	0.827%	0.368	0.962	1.026	0.364
%RSD		0.783	0.510	0.821	1.548	0.728	1.864	2.158	0.886

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:12:15	58.045%	2017.000	468.100	463.800	2025.000	2004.000	66.584%	67.616%
2	20:12:58	58.603%	1979.000	463.900	457.900	1981.000	1971.000	68.014%	69.579%
3	20:13:41	58.397%	1997.000	473.400	467.100	1998.000	1976.000	67.587%	68.541%
x		58.348%	1998.000	468.400	462.900	2001.000	1984.000	67.395%	68.579%
σ		0.282%	18.540	4.760	4.683	22.390	17.590	0.734%	0.982%
%RSD		0.483	0.928	1.016	1.012	1.119	0.887	1.089	1.432

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:12:15	51.250	50.900	19.950	21.480	20.940	54.470%
2	20:12:58	50.880	50.710	19.860	21.210	20.600	56.141%
3	20:13:41	51.450	52.230	19.990	21.180	20.850	54.994%
x		51.190	51.280	19.930	21.290	20.800	55.202%
σ		0.285	0.830	0.065	0.166	0.178	0.855%
%RSD		0.558	1.619	0.325	0.778	0.854	1.548

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:20:30	80.112%	0.025	84.240	77.720	0.000	3374.000	38100.000	38300.000
2	20:21:13	77.907%	-0.019	83.620	80.690	0.000	3409.000	38030.000	38060.000
3	20:21:56	75.697%	0.012	82.830	79.200	0.000	3408.000	37740.000	38130.000
x		77.905%	0.006	83.560	79.200	0.000	3397.000	37960.000	38160.000
σ		2.207%	0.023	0.702	1.481	0.000	19.730	193.100	123.600
%RSD		2.833	383.000	0.840	1.870	0.000	0.581	0.509	0.324

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:20:30	10.560	3953.000	0.000	2334.000	82080.000	78550.000	58.960%	1.991
2	20:21:13	9.646	3853.000	0.000	2326.000	83290.000	78830.000	57.313%	1.419
3	20:21:56	9.920	3845.000	0.000	2297.000	84060.000	77990.000	55.824%	1.465
x		10.040	3884.000	0.000	2319.000	83140.000	78460.000	57.366%	1.625
σ		0.468	60.310	0.000	19.680	999.400	426.500	1.568%	0.318
%RSD		4.656	1.553	0.000	0.849	1.202	0.544	2.734	19.560

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:20:30	-3.516	2.170	0.708	28.050	188.700	0.206	1.508	0.740
2	20:21:13	-2.580	1.850	0.677	26.630	191.800	0.166	1.266	0.833
3	20:21:56	-1.650	1.961	0.657	26.040	188.000	0.167	1.606	0.931
x		-2.582	1.994	0.681	26.910	189.500	0.180	1.460	0.834
σ		0.933	0.162	0.026	1.030	2.022	0.023	0.175	0.095
%RSD		36.150	8.146	3.790	3.829	1.067	12.660	11.980	11.430

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:20:30	1.023	14.650	16.010	-0.729	0.324	0.001	0.000	132.100
2	20:21:13	0.817	14.650	14.820	0.605	0.124	0.523	0.000	130.800
3	20:21:56	1.048	16.320	15.340	-0.425	0.483	0.758	0.000	129.600
x		0.963	15.210	15.390	-0.183	0.310	0.427	0.000	130.800
σ		0.127	0.965	0.595	0.699	0.180	0.388	0.000	1.291
%RSD		13.200	6.348	3.866	382.100	57.980	90.700	0.000	0.987

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:20:30	63.009%	3.948	4.308	58.921%	-0.006	-0.001	-0.006	-0.103
2	20:21:13	62.974%	3.959	4.102	58.305%	0.013	0.009	0.058	0.015
3	20:21:56	62.495%	3.961	4.130	57.587%	0.004	-0.001	-0.093	-0.005
x		62.826%	3.956	4.180	58.271%	0.004	0.002	-0.014	-0.031
σ		0.287%	0.007	0.112	0.668%	0.010	0.006	0.075	0.063
%RSD		0.457	0.173	2.675	1.146	280.600	251.300	546.400	201.500

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:20:30	61.816%	14.590	6.198	6.345	37.590	37.260	70.142%	71.655%
2	20:21:13	63.428%	12.010	5.986	5.748	38.230	36.300	72.194%	72.864%
3	20:21:56	62.515%	11.160	6.197	6.212	36.500	36.590	71.858%	73.685%
x		62.586%	12.590	6.127	6.101	37.440	36.720	71.398%	72.735%
σ		0.808%	1.784	0.122	0.313	0.875	0.495	1.100%	1.021%
%RSD		1.291	14.180	1.987	5.134	2.337	1.349	1.541	1.404

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:20:30	0.071	0.083	0.112	0.073	0.102	59.118%
2	20:21:13	0.074	0.075	0.090	0.075	0.084	60.252%
3	20:21:56	0.077	0.077	0.075	0.067	0.084	61.128%
x		0.074	0.078	0.092	0.072	0.090	60.166%
σ		0.003	0.004	0.019	0.004	0.011	1.008%
%RSD		4.287	5.003	20.090	5.884	11.920	1.675

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:28:46	81.080%	0.024	6.241	5.620	0.000	1446.000	31440.000	32150.000
2	20:29:29	78.809%	-0.019	6.094	5.623	0.000	1419.000	30740.000	31360.000
3	20:30:12	75.563%	-0.004	6.986	4.912	0.000	1458.000	30830.000	31500.000
x		78.484%	0.001	6.440	5.385	0.000	1441.000	31010.000	31670.000
σ		2.773%	0.022	0.478	0.410	0.000	20.180	380.200	419.100
%RSD		3.533	3868.000	7.420	7.607	0.000	1.400	1.226	1.323

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:28:46	110.000	3735.000	0.000	1224.000	71670.000	66800.000	59.498%	2.945
2	20:29:29	104.700	3595.000	0.000	1241.000	70750.000	66110.000	57.626%	3.470
3	20:30:12	105.500	3607.000	0.000	1238.000	71690.000	67400.000	55.630%	3.112
x		106.800	3646.000	0.000	1234.000	71370.000	66770.000	57.584%	3.176
σ		2.881	77.830	0.000	9.064	538.400	644.800	1.935%	0.268
%RSD		2.699	2.135	0.000	0.735	0.754	0.966	3.359	8.449

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:28:46	-1.478	1.842	95.490	232.600	377.300	0.385	1.251	1.001
2	20:29:29	-0.968	1.488	92.100	224.900	359.000	0.363	0.960	0.857
3	20:30:12	-1.743	1.234	95.410	229.400	364.300	0.302	1.149	0.888
x		-1.396	1.521	94.330	228.900	366.900	0.350	1.120	0.915
σ		0.394	0.305	1.935	3.836	9.453	0.043	0.148	0.076
%RSD		28.200	20.080	2.051	1.676	2.577	12.260	13.190	8.287

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:28:46	0.920	2.337	2.563	-0.700	-0.330	0.208	0.000	116.100
2	20:29:29	0.700	2.677	2.768	-1.300	-0.249	-0.012	0.000	113.500
3	20:30:12	0.985	2.942	2.499	0.400	-0.532	-0.046	0.000	114.400
x		0.868	2.652	2.610	-0.533	-0.370	0.050	0.000	114.700
σ		0.150	0.303	0.140	0.862	0.146	0.138	0.000	1.338
%RSD		17.250	11.440	5.381	161.700	39.400	276.600	0.000	1.167

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:28:46	62.985%	1.244	1.598	59.313%	1.436	1.563	0.070	0.078
2	20:29:29	63.522%	1.403	1.419	59.035%	1.500	1.452	0.058	0.007
3	20:30:12	62.753%	1.482	1.249	58.440%	1.391	1.518	0.032	0.039
x		63.087%	1.376	1.422	58.929%	1.442	1.511	0.053	0.041
σ		0.395%	0.122	0.174	0.446%	0.055	0.055	0.020	0.035
%RSD		0.625	8.832	12.260	0.757	3.797	3.669	37.030	86.340

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:28:46	62.513%	8.026	0.396	0.423	72.610	72.290	69.338%	70.673%
2	20:29:29	63.126%	7.915	0.294	0.257	72.800	72.750	71.753%	73.478%
3	20:30:12	62.755%	7.392	0.350	0.322	74.270	71.850	72.830%	73.351%
x		62.798%	7.778	0.347	0.334	73.230	72.300	71.307%	72.501%
σ		0.309%	0.339	0.051	0.084	0.907	0.447	1.788%	1.584%
%RSD		0.492	4.353	14.700	25.180	1.239	0.618	2.508	2.185

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:28:46	0.052	0.053	0.601	0.673	0.643	59.052%
2	20:29:29	0.049	0.045	0.599	0.669	0.635	61.416%
3	20:30:12	0.044	0.041	0.645	0.613	0.618	62.001%
x		0.048	0.046	0.615	0.651	0.632	60.823%
σ		0.004	0.006	0.026	0.034	0.013	1.562%
%RSD		8.473	13.430	4.260	5.187	2.011	2.567

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:36:59	79.828%	0.010	9.321	9.376	0.000	19690.000	32970.000	33290.000
2	20:37:42	76.915%	0.027	11.090	9.618	0.000	19010.000	32390.000	32500.000
3	20:38:25	75.809%	0.090	12.390	8.889	0.000	19000.000	32020.000	32320.000
x		77.517%	0.042	10.930	9.294	0.000	19230.000	32460.000	32700.000
σ		2.076%	0.042	1.542	0.371	0.000	397.300	478.600	513.400
%RSD		2.678	99.000	14.110	3.993	0.000	2.066	1.474	1.570

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:36:59	76.580	4720.000	0.000	1032.000	106600.000	101200.000	58.370%	2.017
2	20:37:42	78.910	4661.000	0.000	1040.000	108700.000	102400.000	55.558%	3.722
3	20:38:25	72.560	4532.000	0.000	1012.000	105000.000	100600.000	54.567%	2.235
x		76.020	4638.000	0.000	1028.000	106800.000	101400.000	56.165%	2.658
σ		3.212	95.950	0.000	14.730	1842.000	924.800	1.973%	0.928
%RSD		4.225	2.069	0.000	1.433	1.725	0.912	3.513	34.910

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:36:59	0.151	1.966	61.870	1056.000	1298.000	0.414	3.883	1.836
2	20:37:42	-1.828	1.596	62.210	1053.000	1283.000	0.364	3.087	1.871
3	20:38:25	-1.822	1.540	61.260	1045.000	1235.000	0.440	3.449	1.999
x		-1.166	1.701	61.780	1051.000	1272.000	0.406	3.473	1.902
σ		1.141	0.232	0.482	5.569	32.910	0.038	0.399	0.086
%RSD		97.790	13.610	0.781	0.530	2.587	9.403	11.490	4.512

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:36:59	1.880	5.682	5.745	4.082	-0.634	-0.896	0.000	138.600
2	20:37:42	1.801	4.687	5.168	4.198	-0.495	-0.412	0.000	137.200
3	20:38:25	1.826	5.432	4.913	4.347	-0.250	0.277	0.000	138.300
x		1.835	5.267	5.275	4.209	-0.460	-0.344	0.000	138.000
σ		0.041	0.518	0.426	0.133	0.195	0.590	0.000	0.746
%RSD		2.210	9.830	8.085	3.161	42.350	171.600	0.000	0.541

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:36:59	61.137%	1.779	1.860	57.258%	0.001	-0.014	0.089	0.028
2	20:37:42	61.563%	1.832	1.620	56.343%	-0.006	-0.006	-0.105	-0.072
3	20:38:25	60.145%	1.664	1.843	55.823%	-0.006	-0.006	-0.130	-0.121
x		60.948%	1.758	1.774	56.475%	-0.004	-0.009	-0.049	-0.055
σ		0.727%	0.086	0.134	0.726%	0.004	0.005	0.120	0.076
%RSD		1.193	4.904	7.557	1.286	119.500	53.460	247.500	137.100

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:36:59	60.548%	5.497	0.359	0.236	137.200	136.300	67.506%	68.292%
2	20:37:42	60.828%	6.055	0.240	0.322	136.400	135.500	68.490%	70.218%
3	20:38:25	60.602%	6.033	0.251	0.310	138.100	136.700	69.050%	70.297%
x		60.660%	5.862	0.283	0.289	137.300	136.200	68.349%	69.603%
σ		0.148%	0.316	0.066	0.047	0.872	0.628	0.782%	1.136%
%RSD		0.245	5.383	23.290	16.140	0.635	0.461	1.144	1.631

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:36:59	0.040	0.035	0.717	0.655	0.683	55.461%
2	20:37:42	0.048	0.036	0.713	0.699	0.679	57.726%
3	20:38:25	0.041	0.028	0.685	0.711	0.690	58.044%
x		0.043	0.033	0.705	0.688	0.684	57.077%
σ		0.005	0.004	0.017	0.029	0.006	1.408%
%RSD		10.910	12.440	2.465	4.218	0.814	2.467

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:11	78.425%	-0.019	-2.323	-3.584	0.000	4591.000	5976.000	5995.000
2	20:45:54	76.084%	0.027	-1.229	-3.519	0.000	4612.000	5852.000	5929.000
3	20:46:38	74.902%	-0.019	-1.155	-3.448	0.000	4430.000	5749.000	5754.000
x		76.470%	-0.004	-1.569	-3.517	0.000	4544.000	5859.000	5893.000
σ		1.793%	0.027	0.654	0.068	0.000	99.860	113.500	124.800
%RSD		2.345	737.900	41.700	1.930	0.000	2.197	1.936	2.118

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:11	6.946	2089.000	0.000	1594.000	28910.000	27330.000	57.063%	1.376
2	20:45:54	7.119	2040.000	0.000	1548.000	28680.000	26890.000	54.834%	1.334
3	20:46:38	6.354	1999.000	0.000	1575.000	28950.000	27070.000	53.006%	1.335
x		6.807	2042.000	0.000	1572.000	28850.000	27100.000	54.968%	1.349
σ		0.401	45.370	0.000	23.020	145.500	220.200	2.032%	0.024
%RSD		5.894	2.221	0.000	1.464	0.504	0.813	3.696	1.795

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:11	-0.347	1.086	8.782	635.600	705.300	0.059	0.122	4.192
2	20:45:54	-2.235	0.693	8.406	630.200	687.900	0.085	0.114	4.084
3	20:46:38	-2.479	0.611	8.618	637.500	692.500	0.078	0.095	3.828
x		-1.687	0.797	8.602	634.400	695.300	0.074	0.111	4.035
σ		1.167	0.254	0.189	3.786	9.026	0.014	0.014	0.187
%RSD		69.150	31.870	2.193	0.597	1.298	18.570	12.570	4.627

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:11	4.115	163.500	162.600	-0.394	-0.331	-0.192	0.000	120.600
2	20:45:54	3.931	154.100	156.000	-1.019	-0.620	-0.407	0.000	117.600
3	20:46:38	3.964	156.500	160.000	0.801	-0.276	-0.416	0.000	119.000
x		4.003	158.000	159.600	-0.204	-0.409	-0.338	0.000	119.100
σ		0.098	4.896	3.311	0.924	0.185	0.127	0.000	1.504
%RSD		2.445	3.098	2.075	453.000	45.160	37.560	0.000	1.263

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:11	59.950%	0.455	0.383	58.230%	0.004	0.002	0.181	0.144
2	20:45:54	59.649%	0.497	0.403	57.626%	-0.001	-0.011	0.064	0.131
3	20:46:38	58.890%	0.254	0.420	56.890%	0.007	-0.003	0.096	0.223
x		59.496%	0.402	0.402	57.582%	0.003	-0.004	0.114	0.166
σ		0.547%	0.130	0.019	0.671%	0.004	0.007	0.060	0.050
%RSD		0.919	32.210	4.717	1.166	128.500	153.600	53.230	30.050

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:11	60.072%	5.115	0.149	0.179	26.290	25.320	65.125%	66.708%
2	20:45:54	60.008%	5.390	0.179	0.144	25.290	24.490	67.406%	68.145%
3	20:46:38	60.729%	5.458	0.191	0.147	25.510	24.130	67.232%	68.439%
x		60.270%	5.321	0.173	0.157	25.700	24.650	66.588%	67.764%
σ		0.399%	0.181	0.021	0.019	0.526	0.611	1.270%	0.926%
%RSD		0.662	3.408	12.320	12.370	2.048	2.477	1.907	1.367

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:11	0.031	0.027	1.545	1.538	1.507	57.836%
2	20:45:54	0.024	0.025	1.544	1.588	1.525	59.578%
3	20:46:38	0.020	0.028	1.492	1.455	1.506	60.033%
x		0.025	0.027	1.527	1.527	1.513	59.149%
σ		0.006	0.001	0.030	0.067	0.011	1.160%
%RSD		23.060	4.853	1.993	4.396	0.711	1.961

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:53:25	80.867%	0.010	-10.930	-10.710	0.000	20.260	1.736	1.881
2	20:54:08	79.811%	-0.019	-12.120	-12.100	0.000	23.700	1.145	1.748
3	20:54:51	77.196%	0.011	-11.210	-12.330	0.000	26.310	1.779	1.456
x		79.291%	0.001	-11.420	-11.720	0.000	23.420	1.553	1.695
σ		1.890%	0.017	0.624	0.875	0.000	3.032	0.354	0.218
%RSD		2.384	2248.000	5.461	7.470	0.000	12.940	22.820	12.840

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:53:25	2.078	31.810	0.000	-6.394	15.330	15.640	58.717%	0.910
2	20:54:08	2.000	30.810	0.000	-8.493	7.368	11.100	56.392%	0.260
3	20:54:51	2.157	31.720	0.000	-6.965	21.140	10.590	55.273%	0.989
x		2.079	31.450	0.000	-7.284	14.610	12.440	56.794%	0.720
σ		0.078	0.553	0.000	1.085	6.913	2.781	1.757%	0.400
%RSD		3.769	1.757	0.000	14.900	47.310	22.350	3.093	55.630

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:53:25	-2.775	1.249	0.051	0.135	5.059	0.002	0.006	0.883
2	20:54:08	-2.550	0.788	0.080	0.674	3.515	0.002	0.053	0.929
3	20:54:51	-2.354	0.709	0.090	0.023	4.716	-0.004	0.070	1.081
x		-2.560	0.915	0.074	0.277	4.430	-0.000	0.043	0.965
σ		0.211	0.292	0.020	0.348	0.811	0.003	0.033	0.104
%RSD		8.241	31.880	27.390	125.600	18.300	25290.000	77.390	10.750

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:53:25	1.031	2.032	2.393	0.430	-0.529	-0.274	0.000	0.024
2	20:54:08	0.959	2.422	2.651	-0.806	-0.441	-0.504	0.000	0.020
3	20:54:51	0.837	2.264	2.783	-0.166	-0.507	0.095	0.000	0.022
x		0.943	2.239	2.609	-0.181	-0.492	-0.228	0.000	0.022
σ		0.098	0.196	0.198	0.618	0.046	0.302	0.000	0.002
%RSD		10.400	8.764	7.597	342.300	9.386	132.600	0.000	10.040

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:53:25	62.268%	0.203	0.168	60.909%	-0.007	-0.006	-0.004	-0.007
2	20:54:08	61.723%	0.196	0.131	60.199%	-0.007	-0.006	0.021	0.044
3	20:54:51	60.513%	0.135	0.162	59.269%	0.008	-0.009	0.082	0.054
x		61.501%	0.178	0.154	60.126%	-0.002	-0.007	0.033	0.030
σ		0.898%	0.037	0.020	0.822%	0.009	0.001	0.044	0.033
%RSD		1.461	21.030	12.880	1.368	543.000	19.610	134.000	108.500

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:53:25	62.147%	3.729	0.107	0.123	-0.027	-0.015	68.342%	69.187%
2	20:54:08	62.204%	3.863	0.133	0.102	-0.015	0.012	69.898%	70.349%
3	20:54:51	61.223%	4.238	0.132	0.141	-0.051	-0.008	69.509%	70.603%
x		61.858%	3.943	0.124	0.122	-0.031	-0.004	69.250%	70.046%
σ		0.551%	0.264	0.015	0.020	0.018	0.014	0.810%	0.755%
%RSD		0.890	6.682	11.740	16.040	59.760	397.800	1.170	1.078

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:53:25	0.013	0.025	0.064	0.040	0.056	62.094%
2	20:54:08	0.036	0.020	0.047	0.071	0.071	62.936%
3	20:54:51	0.023	0.026	0.062	0.018	0.046	63.604%
x		0.024	0.024	0.058	0.043	0.058	62.878%
σ		0.011	0.003	0.009	0.027	0.013	0.757%
%RSD		47.250	12.400	15.520	62.520	21.800	1.204

CCV 801624 5/7/2013 9:00:56 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:01:39	78.220%	107.100	84.460	85.160	0.000	47560.000	48270.000	48460.000
2	21:02:22	78.569%	106.100	87.560	87.610	0.000	46660.000	47190.000	47810.000
3	21:03:05	79.465%	107.800	88.820	87.380	0.000	47370.000	48490.000	48210.000
x		78.751%	106.988%	86.943%	86.716%	0.000	94.395%	95.965%	96.316%
σ		0.642%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.816	0.784	2.582	1.563	0.000	1.011	1.452	0.685

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:01:39	496.000	5036.000	0.000	49150.000	50110.000	47520.000	66.500%	105.000
2	21:02:22	492.600	4955.000	0.000	48860.000	50130.000	46660.000	66.886%	101.500
3	21:03:05	497.000	4974.000	0.000	48590.000	49960.000	46610.000	67.899%	104.500
x		99.042%	99.760%	0.000	97.731%	100.131%	93.857%	67.095%	103.664%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.722%	n/a
%RSD		0.459	0.848	0.000	0.581	0.182	1.088	1.077	1.821

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:01:39	100.300	102.800	510.200	25500.000	25550.000	101.600	103.100	103.100
2	21:02:22	99.530	100.200	507.000	25210.000	25460.000	101.900	104.000	106.100
3	21:03:05	101.100	102.700	508.300	25530.000	25560.000	102.500	102.600	105.400
x		100.305%	101.922%	101.695%	101.649%	102.088%	101.987%	103.242%	104.888%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.766	1.468	0.318	0.698	0.211	0.460	0.649	1.474

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:01:39	104.300	108.300	104.300	100.500	100.400	103.500	0.000	97.310
2	21:02:22	102.900	105.500	103.200	101.800	102.000	99.330	0.000	96.730
3	21:03:05	103.600	104.300	105.000	99.990	103.200	101.700	0.000	96.830
x		103.609%	106.022%	104.152%	100.786%	101.908%	101.517%	0.000	96.957%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.652	1.927	0.877	0.943	1.384	2.079	0.000	0.319

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:01:39	68.816%	101.100	104.500	65.428%	101.400	100.600	101.700	101.500
2	21:02:22	69.750%	105.000	105.600	65.965%	101.000	101.800	100.800	101.000
3	21:03:05	70.635%	104.300	106.100	67.092%	101.000	103.200	101.400	101.100
x		69.734%	103.477%	105.404%	66.162%	101.163%	101.875%	101.283%	101.203%
σ		0.909%	n/a	n/a	0.849%	n/a	n/a	n/a	n/a
%RSD		1.304	2.022	0.813	1.283	0.238	1.320	0.416	0.270

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:01:39	67.564%	101.400	100.900	101.300	99.210	95.400	72.143%	73.111%
2	21:02:22	68.463%	99.340	98.380	98.810	96.890	94.280	74.034%	74.178%
3	21:03:05	69.479%	100.400	99.260	100.200	98.020	96.980	74.000%	75.482%
x		68.502%	100.365%	99.506%	100.086%	98.039%	95.554%	73.392%	74.257%
σ		0.958%	n/a	n/a	n/a	n/a	n/a	1.082%	1.187%
%RSD		1.399	1.007	1.270	1.248	1.186	1.423	1.474	1.599

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:01:39	95.060	96.760	97.830	96.930	97.420	64.065%
2	21:02:22	97.170	96.900	98.660	98.830	98.380	64.797%
3	21:03:05	97.200	97.390	98.940	97.870	98.600	65.116%
x		96.474%	97.016%	98.477%	97.878%	98.134%	64.659%
σ		n/a	n/a	n/a	n/a	n/a	0.539%
%RSD		1.269	0.343	0.587	0.972	0.641	0.834

CCB6 5/7/2013 9:09:12 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:09:55	100.425%	-0.008	-12.520	-12.540	0.000	10.230	6.185	6.753
2	21:10:38	98.883%	-0.019	-12.370	-13.100	0.000	13.550	9.368	9.341
3	21:11:21	98.122%	-0.007	-12.380	-13.000	0.000	17.700	11.670	12.890
x		99.143%	-0.011	-12.420	-12.880	0.000	13.830	9.075	9.662
σ		1.173%	0.007	0.086	0.297	0.000	3.743	2.755	3.083
%RSD		1.183	59.240	0.691	2.309	0.000	27.070	30.350	31.900
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:09:55	1.696	-1.057	0.000	-7.011	2.670	7.910	88.258%	-0.181
2	21:10:38	1.573	-0.638	0.000	-3.468	2.678	8.771	88.232%	-0.319
3	21:11:21	1.954	0.264	0.000	-1.008	8.685	13.590	86.238%	-0.176
x		1.741	-0.477	0.000	-3.829	4.678	10.090	87.576%	-0.225
σ		0.195	0.675	0.000	3.018	3.471	3.063	1.159%	0.081
%RSD		11.170	141.600	0.000	78.820	74.200	30.350	1.323	36.120
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:09:55	-0.072	-0.015	0.460	7.960	6.230	0.013	0.017	0.041
2	21:10:38	0.011	0.078	0.474	9.599	7.582	0.018	0.057	0.036
3	21:11:21	-0.047	0.043	0.567	12.180	8.727	0.023	0.038	0.055
x		-0.036	0.035	0.500	9.914	7.513	0.018	0.037	0.044
σ		0.043	0.047	0.058	2.130	1.250	0.005	0.020	0.010
%RSD		118.800	132.600	11.700	21.480	16.640	28.330	53.990	21.940
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:09:55	0.072	0.110	0.048	0.081	-0.093	0.153	0.000	0.019
2	21:10:38	0.054	0.174	0.265	-0.019	0.097	0.107	0.000	0.028
3	21:11:21	0.141	0.101	0.082	0.080	0.129	0.149	0.000	0.050
x		0.089	0.128	0.132	0.047	0.044	0.136	0.000	0.032
σ		0.046	0.040	0.117	0.057	0.120	0.025	0.000	0.016
%RSD		51.690	31.010	88.620	120.400	271.600	18.500	0.000	49.610
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:09:55	88.314%	0.409	0.313	89.291%	0.006	0.013	0.170	0.124
2	21:10:38	90.501%	0.235	0.325	90.883%	0.018	0.007	0.138	0.091
3	21:11:21	89.356%	0.310	0.263	91.112%	0.022	0.021	0.027	0.037
x		89.390%	0.318	0.300	90.429%	0.015	0.013	0.112	0.084
σ		1.094%	0.087	0.033	0.992%	0.008	0.007	0.075	0.044
%RSD		1.224	27.430	11.030	1.097	53.570	52.080	67.160	52.030
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:09:55	86.447%	0.109	0.069	0.054	-0.017	0.037	85.921%	87.126%
2	21:10:38	88.625%	0.128	0.041	0.061	0.071	0.046	88.247%	89.089%
3	21:11:21	88.504%	0.105	0.064	0.067	-0.010	0.035	89.457%	89.849%
x		87.858%	0.114	0.058	0.061	0.015	0.039	87.875%	88.688%
σ		1.224%	0.012	0.015	0.006	0.049	0.006	1.797%	1.405%
%RSD		1.393	10.650	25.710	10.410	335.400	14.240	2.046	1.584
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:09:55	0.012	0.021	0.155	0.134	0.146	88.176%		
2	21:10:38	0.010	0.026	0.155	0.139	0.150	90.544%		
3	21:11:21	0.031	0.024	0.135	0.132	0.144	91.348%		
x		0.018	0.024	0.148	0.135	0.147	90.023%		
σ		0.012	0.002	0.012	0.004	0.003	1.649%		
%RSD		65.920	9.894	7.826	2.643	1.883	1.832		

CRI 806392 5/7/2013 9:17:29 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:18:12	101.537%	1.143	-7.573	-8.337	0.000	90.880	87.220	93.970
2	21:18:55	95.524%	1.141	-9.867	-7.942	0.000	101.400	102.200	101.200
3	21:19:38	92.276%	1.131	-7.664	-8.191	0.000	102.300	102.100	103.100
x		96.445%	113.831%	-167.355%	-163.129%	0.000	98.188%	97.172%	99.415%
σ		4.699%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		4.872	0.575	15.520	2.448	0.000	6.465	8.866	4.838
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:18:12	32.530	468.600	0.000	75.730	92.180	90.960	92.230%	4.811
2	21:18:55	34.690	498.500	0.000	79.770	103.700	95.690	89.566%	5.035
3	21:19:38	36.100	507.400	0.000	84.710	77.920	90.550	87.104%	5.321
x		114.799%	98.297%	0.000	80.071%	91.255%	92.399%	89.633%	101.111%
σ		n/a	n/a	0.000	n/a	n/a	n/a	2.564%	n/a
%RSD		5.213	4.135	0.000	5.612	14.140	3.096	2.860	5.059
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:18:12	0.952	1.742	5.103	54.170	59.090	0.535	0.962	2.144
2	21:18:55	0.727	1.971	5.464	58.270	60.200	0.511	0.994	2.359
3	21:19:38	1.198	2.046	5.630	59.990	60.340	0.544	1.163	2.429
x		95.910%	95.985%	1079.784%	114.954%	119.757%	105.988%	103.994%	115.549%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		24.570	8.243	4.995	5.207	1.145	3.236	10.390	6.440
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:18:12	2.369	5.224	5.245	0.718	4.562	3.697	0.000	4.167
2	21:18:55	2.407	6.036	6.015	0.923	5.075	4.665	0.000	4.424
3	21:19:38	2.409	5.846	5.906	0.953	4.590	4.172	0.000	4.476
x		119.740%	114.036%	114.437%	86.482%	94.851%	83.563%	0.000	87.119%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.950	7.449	7.284	14.790	6.084	11.590	0.000	3.798
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:18:12	95.361%	4.108	4.130	91.105%	0.975	0.966	0.976	0.974
2	21:18:55	91.965%	4.586	4.735	88.118%	0.977	1.100	1.232	1.182
3	21:19:38	92.296%	4.771	4.884	88.428%	1.025	1.099	1.185	1.015
x		93.207%	89.763%	91.662%	89.217%	99.237%	105.479%	113.120%	105.711%
σ		1.873%	n/a	n/a	1.642%	n/a	n/a	n/a	n/a
%RSD		2.009	7.631	8.715	1.841	2.868	7.292	12.050	10.450
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:18:12	88.675%	4.424	1.880	1.728	9.183	8.631	87.119%	87.777%
2	21:18:55	85.898%	5.028	2.107	2.050	9.590	9.887	86.610%	86.818%
3	21:19:38	86.070%	5.246	2.031	1.988	9.468	9.814	86.813%	88.102%
x		86.881%	97.986%	100.304%	96.095%	94.138%	94.440%	86.847%	87.566%
σ		1.556%	n/a	n/a	n/a	n/a	n/a	0.257%	0.667%
%RSD		1.791	8.682	5.770	8.903	2.224	7.464	0.295	0.762
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:18:12	0.820	0.822	0.890	0.942	0.921	88.131%		
2	21:18:55	0.890	0.869	0.945	0.903	0.971	88.719%		
3	21:19:38	0.891	0.895	1.061	1.019	1.014	88.390%		
x		86.714%	86.192%	96.528%	95.455%	96.894%	88.413%		
σ		n/a	n/a	n/a	n/a	n/a	0.295%		
%RSD		4.744	4.290	9.031	6.196	4.801	0.333		

CRI 806392 5/7/2013 9:25:44 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:26:27	101.557%	1.107	-8.504	-8.722	0.000	97.510	103.700	101.500
2	21:27:10	101.945%	1.025	-9.140	-8.758	0.000	100.200	98.340	101.100
3	21:27:53	102.018%	1.081	-9.904	-9.082	0.000	98.260	99.040	96.520
x		101.840%	107.106%	-183.654%	-177.077%	0.000	98.650%	100.367%	99.725%
σ		0.248%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.243	3.899	7.636	2.236	0.000	1.394	2.915	2.790

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:26:27	35.160	506.500	0.000	83.020	92.680	103.400	94.413%	4.017
2	21:27:10	34.710	499.300	0.000	81.870	94.480	102.400	92.619%	4.695
3	21:27:53	33.370	491.300	0.000	79.300	105.600	91.090	92.412%	4.603
x		114.714%	99.805%	0.000	81.397%	97.573%	98.968%	93.148%	88.765%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.100%	n/a
%RSD		2.700	1.526	0.000	2.341	7.149	6.907	1.181	8.287

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:26:27	0.784	1.821	5.398	59.650	61.420	0.458	1.053	2.411
2	21:27:10	1.131	1.930	5.471	59.970	60.400	0.509	1.110	2.077
3	21:27:53	0.952	1.981	5.501	58.540	60.400	0.448	1.269	2.405
x		95.539%	95.532%	1091.338%	118.766%	121.482%	94.353%	114.384%	114.884%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		18.170	4.266	0.975	1.266	0.966	6.919	9.763	8.325

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:26:27	2.423	6.519	5.483	1.114	5.293	4.617	0.000	4.404
2	21:27:10	1.998	5.760	6.257	0.797	4.795	4.803	0.000	4.491
3	21:27:53	2.417	5.781	6.010	1.564	4.664	5.604	0.000	4.465
x		113.965%	120.402%	118.333%	115.858%	98.344%	100.161%	0.000	89.064%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		10.670	7.182	6.685	33.260	6.742	10.480	0.000	1.004

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:26:27	94.787%	4.790	4.574	88.984%	1.046	1.087	1.315	1.218
2	21:27:10	93.714%	4.644	4.879	89.315%	1.063	1.133	1.157	1.113
3	21:27:53	95.084%	4.753	4.891	89.932%	1.023	1.032	1.119	1.067
x		94.528%	94.580%	95.628%	89.410%	104.390%	108.398%	119.690%	113.282%
σ		0.721%	n/a	n/a	0.481%	n/a	n/a	n/a	n/a
%RSD		0.763	1.613	3.752	0.538	1.904	4.657	8.665	6.791

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:26:27	84.941%	4.968	1.927	2.083	9.686	9.344	83.409%	83.620%
2	21:27:10	86.421%	5.132	2.166	2.149	9.731	9.555	85.045%	85.801%
3	21:27:53	87.923%	4.954	2.105	2.037	9.356	10.090	86.675%	86.823%
x		86.428%	100.364%	103.299%	104.483%	95.911%	96.639%	85.043%	85.414%
σ		1.491%	n/a	n/a	n/a	n/a	n/a	1.633%	1.636%
%RSD		1.725	1.972	6.004	2.685	2.133	3.993	1.920	1.916

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:26:27	0.900	0.871	0.952	1.008	0.991	83.612%
2	21:27:10	0.906	0.895	0.979	1.015	0.997	85.274%
3	21:27:53	0.924	0.893	0.963	0.995	0.997	86.762%
x		91.018%	88.644%	96.441%	100.613%	99.473%	85.216%
σ		n/a	n/a	n/a	n/a	n/a	1.576%
%RSD		1.397	1.483	1.416	1.002	0.310	1.849

CCV 801624 5/7/2013 9:33:59 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:34:41	91.920%	105.800	81.670	82.110	0.000	48340.000	48890.000	48370.000
2	21:35:24	90.061%	105.400	85.660	83.790	0.000	47340.000	48090.000	47880.000
3	21:36:08	88.044%	108.600	87.250	90.110	0.000	49790.000	50160.000	49380.000
x		90.009%	106.585%	84.862%	85.335%	0.000	96.980%	98.092%	97.089%
σ		1.938%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		2.154	1.625	3.386	4.941	0.000	2.542	2.134	1.569

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:34:41	507.000	5168.000	0.000	49110.000	49100.000	46000.000	80.243%	102.900
2	21:35:24	497.700	5096.000	0.000	49370.000	49430.000	46430.000	79.744%	106.100
3	21:36:08	514.000	5240.000	0.000	49840.000	50090.000	47740.000	78.156%	106.100
x		101.245%	103.359%	0.000	98.884%	99.083%	93.442%	79.381%	105.046%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.090%	n/a
%RSD		1.612	1.395	0.000	0.745	1.022	1.936	1.373	1.736

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:34:41	100.500	100.500	493.400	25220.000	25160.000	103.100	104.800	105.600
2	21:35:24	99.490	100.700	495.300	24970.000	25080.000	102.700	105.800	105.900
3	21:36:08	102.400	102.600	510.700	25670.000	25760.000	104.700	105.700	109.700
x		100.800%	101.267%	99.963%	101.143%	101.321%	103.482%	105.432%	107.093%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.447	1.186	1.898	1.400	1.464	1.006	0.504	2.127

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:34:41	107.900	104.900	102.700	100.500	102.200	100.300	0.000	95.200
2	21:35:24	106.100	103.500	103.700	103.200	100.400	101.300	0.000	94.160
3	21:36:08	107.200	105.900	105.100	103.800	103.000	100.900	0.000	95.990
x		107.062%	104.735%	103.825%	102.488%	101.873%	100.841%	0.000	95.116%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.816	1.157	1.203	1.739	1.298	0.519	0.000	0.966

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:34:41	78.827%	100.600	102.300	72.751%	103.000	103.400	97.520	101.000
2	21:35:24	78.871%	102.800	105.900	72.086%	102.900	103.500	99.640	99.780
3	21:36:08	79.046%	106.600	108.200	72.520%	103.800	105.600	102.600	104.400
x		78.914%	103.348%	105.442%	72.452%	103.235%	104.162%	99.935%	101.722%
σ		0.116%	n/a	n/a	0.337%	n/a	n/a	n/a	n/a
%RSD		0.147	2.942	2.841	0.466	0.465	1.221	2.577	2.357

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:34:41	72.590%	98.540	98.030	97.160	98.140	98.020	75.025%	74.857%
2	21:35:24	73.011%	101.000	99.740	98.730	100.200	97.990	75.537%	76.433%
3	21:36:08	72.238%	103.400	103.700	103.000	102.400	101.800	75.738%	76.231%
x		72.613%	100.992%	100.497%	99.615%	100.235%	99.281%	75.433%	75.840%
σ		0.387%	n/a	n/a	n/a	n/a	n/a	0.368%	0.858%
%RSD		0.533	2.422	2.906	3.008	2.125	2.224	0.488	1.131

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:34:41	97.570	97.290	97.580	97.440	97.530	65.034%
2	21:35:24	97.600	95.940	97.710	98.060	97.970	65.852%
3	21:36:08	101.800	100.200	100.400	101.400	101.600	65.222%
x		98.975%	97.800%	98.555%	98.966%	99.023%	65.369%
σ		n/a	n/a	n/a	n/a	n/a	0.428%
%RSD		2.432	2.210	1.601	2.151	2.234	0.655

CCB7 5/7/2013 9:42:14 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:42:57	111.172%	0.012	-13.190	-13.340	0.000	7.318	7.034	6.911
2	21:43:40	110.051%	0.033	-13.820	-13.810	0.000	9.453	10.030	9.331
3	21:44:23	108.205%	0.013	-13.570	-13.890	0.000	11.900	11.290	11.670
x		109.810%	0.019	-13.530	-13.680	0.000	9.558	9.449	9.304
σ		1.498%	0.012	0.320	0.298	0.000	2.295	2.184	2.380
%RSD		1.364	61.980	2.367	2.181	0.000	24.010	23.120	25.580

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:42:57	1.692	-0.044	0.000	-5.170	4.150	7.135	100.387%	-0.267
2	21:43:40	1.874	0.325	0.000	-4.288	-0.952	8.384	102.589%	-0.000
3	21:44:23	1.874	-0.249	0.000	-2.844	11.870	10.000	99.216%	-0.111
x		1.813	0.010	0.000	-4.101	5.024	8.506	100.731%	-0.126
σ		0.105	0.291	0.000	1.174	6.457	1.437	1.713%	0.134
%RSD		5.802	2820.000	0.000	28.640	128.500	16.890	1.700	106.300

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:42:57	0.075	0.031	0.385	10.940	8.354	0.011	0.049	0.058
2	21:43:40	0.036	0.024	0.393	10.980	8.212	0.021	0.029	0.069
3	21:44:23	0.040	0.034	0.455	13.350	9.044	0.023	-0.006	0.068
x		0.050	0.030	0.411	11.760	8.537	0.018	0.024	0.065
σ		0.021	0.005	0.038	1.382	0.445	0.007	0.028	0.006
%RSD		42.290	18.160	9.328	11.760	5.215	36.130	114.900	9.574

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:42:57	0.029	0.123	0.001	-0.123	-0.167	-0.779	0.000	0.028
2	21:43:40	0.079	0.104	0.291	0.051	0.498	-0.108	0.000	0.038
3	21:44:23	0.044	0.080	0.133	-0.120	0.079	-0.240	0.000	0.028
x		0.050	0.102	0.141	-0.064	0.137	-0.376	0.000	0.031
σ		0.026	0.022	0.145	0.099	0.336	0.356	0.000	0.006
%RSD		50.970	21.430	102.400	155.900	245.500	94.680	0.000	19.170

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:42:57	95.415%	0.468	0.457	97.630%	0.011	0.010	0.105	0.081
2	21:43:40	97.841%	0.600	0.463	98.913%	0.010	-0.001	0.205	0.124
3	21:44:23	97.778%	0.408	0.494	98.883%	0.015	0.007	0.086	0.070
x		97.011%	0.492	0.471	98.475%	0.012	0.005	0.132	0.092
σ		1.383%	0.098	0.020	0.732%	0.003	0.006	0.064	0.029
%RSD		1.426	19.910	4.188	0.744	21.360	110.100	48.720	31.460

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:42:57	93.062%	0.228	0.061	0.103	-0.012	0.029	90.163%	90.486%
2	21:43:40	95.409%	0.219	0.126	0.094	-0.030	0.023	93.400%	92.518%
3	21:44:23	94.318%	0.208	0.077	0.092	0.021	0.038	92.923%	91.879%
x		94.263%	0.218	0.088	0.096	-0.007	0.030	92.162%	91.628%
σ		1.175%	0.010	0.034	0.006	0.026	0.007	1.747%	1.039%
%RSD		1.246	4.695	38.640	5.760	388.300	24.620	1.896	1.134

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:42:57	0.014	0.017	0.111	0.125	0.120	91.310%
2	21:43:40	0.022	0.019	0.116	0.109	0.116	94.717%
3	21:44:23	0.020	0.025	0.117	0.113	0.118	94.142%
x		0.019	0.020	0.114	0.115	0.118	93.390%
σ		0.004	0.004	0.003	0.008	0.002	1.824%
%RSD		20.870	21.270	2.679	7.158	1.792	1.953

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:47:48	110.629%	0.002	-13.370	-13.370	0.000	6.410	5.832	5.957
2	21:48:31	105.219%	-0.008	-14.010	-13.840	0.000	8.850	5.844	6.126
3	21:49:14	106.884%	-0.019	-14.010	-14.260	0.000	8.371	5.256	5.234
x		107.578%	-0.009	-13.790	-13.820	0.000	7.877	5.644	5.772
σ		2.771%	0.010	0.368	0.447	0.000	1.293	0.336	0.474
%RSD		2.576	122.800	2.668	3.231	0.000	16.410	5.953	8.204

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:47:48	1.742	1.576	0.000	-8.142	17.280	17.160	97.590%	0.208
2	21:48:31	1.854	1.315	0.000	-9.916	22.390	16.810	97.930%	-0.076
3	21:49:14	1.578	1.230	0.000	-11.050	14.420	14.410	99.213%	-0.080
x		1.725	1.374	0.000	-9.703	18.030	16.130	98.244%	0.017
σ		0.139	0.180	0.000	1.466	4.038	1.494	0.856%	0.165
%RSD		8.045	13.140	0.000	15.110	22.400	9.265	0.871	950.100

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:47:48	-0.037	0.014	0.108	18.770	15.410	-0.005	0.022	0.072
2	21:48:31	0.046	0.032	0.091	16.450	12.010	-0.003	0.004	0.112
3	21:49:14	0.029	0.008	0.098	11.470	12.060	-0.003	0.040	0.065
x		0.012	0.018	0.099	15.560	13.160	-0.004	0.022	0.083
σ		0.044	0.012	0.009	3.727	1.951	0.001	0.018	0.025
%RSD		351.500	70.870	8.805	23.950	14.830	25.700	82.680	30.500

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:47:48	0.100	0.715	0.521	0.018	0.352	-0.083	0.000	0.034
2	21:48:31	0.138	0.616	0.812	-0.103	0.195	-0.373	0.000	0.046
3	21:49:14	0.075	0.593	0.420	-0.088	-0.114	-0.389	0.000	0.048
x		0.104	0.641	0.584	-0.057	0.144	-0.281	0.000	0.042
σ		0.032	0.064	0.203	0.066	0.237	0.172	0.000	0.008
%RSD		30.650	10.040	34.770	115.300	164.200	61.260	0.000	18.150

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:47:48	94.536%	0.289	0.346	95.006%	-0.003	-0.006	0.089	0.051
2	21:48:31	94.788%	0.288	0.241	95.685%	-0.009	-0.006	0.062	0.055
3	21:49:14	96.257%	0.226	0.168	97.011%	0.003	-0.004	0.148	0.091
x		95.194%	0.268	0.252	95.901%	-0.003	-0.005	0.099	0.066
σ		0.930%	0.036	0.090	1.020%	0.006	0.001	0.044	0.022
%RSD		0.977	13.450	35.530	1.064	210.300	16.260	44.290	33.800

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:47:48	90.430%	1.863	0.063	0.054	0.062	0.076	87.209%	87.821%
2	21:48:31	91.654%	1.282	0.037	0.067	0.076	0.123	90.196%	90.194%
3	21:49:14	93.570%	1.266	0.042	0.024	0.030	0.071	93.241%	93.910%
x		91.885%	1.470	0.047	0.048	0.056	0.090	90.215%	90.642%
σ		1.582%	0.340	0.014	0.022	0.024	0.029	3.016%	3.069%
%RSD		1.722	23.150	29.320	46.270	42.150	31.740	3.343	3.386

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:47:48	0.004	0.008	0.038	0.018	0.027	87.824%
2	21:48:31	0.007	0.007	0.037	0.013	0.026	89.699%
3	21:49:14	0.013	0.007	0.027	0.034	0.028	94.103%
x		0.008	0.007	0.034	0.022	0.027	90.542%
σ		0.005	0.001	0.006	0.011	0.001	3.223%
%RSD		56.480	12.310	18.160	49.900	4.429	3.560

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:38	87.805%	44.160	821.100	819.100	0.000	46590.000	47110.000	47010.000
2	21:53:21	87.386%	45.240	832.500	843.400	0.000	46840.000	46480.000	46800.000
3	21:54:04	86.063%	45.000	848.200	862.800	0.000	47020.000	46940.000	46580.000
x		87.085%	44.800	833.900	841.800	0.000	46820.000	46840.000	46800.000
σ		0.909%	0.566	13.630	21.900	0.000	215.400	326.600	216.600
%RSD		1.044	1.264	1.635	2.602	0.000	0.460	0.697	0.463

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:38	1923.000	5036.000	0.000	48890.000	49400.000	46210.000	74.607%	1035.000
2	21:53:21	1897.000	5015.000	0.000	48360.000	49030.000	46450.000	75.236%	1024.000
3	21:54:04	1896.000	4953.000	0.000	47620.000	48720.000	45730.000	74.642%	1034.000
x		1905.000	5001.000	0.000	48290.000	49050.000	46130.000	74.828%	1031.000
σ		15.170	43.260	0.000	641.600	338.200	367.400	0.353%	6.107
%RSD		0.796	0.865	0.000	1.329	0.690	0.796	0.472	0.592

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:38	521.600	210.500	514.000	1103.000	1256.000	539.000	546.400	279.800
2	21:53:21	520.300	205.800	513.100	1088.000	1239.000	533.400	547.500	278.000
3	21:54:04	520.800	204.700	506.600	1081.000	1198.000	531.100	537.900	275.300
x		520.900	207.000	511.200	1091.000	1231.000	534.500	543.900	277.700
σ		0.645	3.078	4.056	10.820	29.790	4.030	5.226	2.237
%RSD		0.124	1.487	0.793	0.992	2.420	0.754	0.961	0.806

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:38	282.400	469.000	458.400	37.330	8.725	8.488	0.000	1112.000
2	21:53:21	281.100	466.700	457.900	36.680	8.244	8.218	0.000	1109.000
3	21:54:04	277.600	461.800	462.800	37.060	8.940	8.934	0.000	1108.000
x		280.300	465.800	459.700	37.020	8.637	8.546	0.000	1109.000
σ		2.494	3.661	2.708	0.325	0.356	0.362	0.000	1.997
%RSD		0.890	0.786	0.589	0.878	4.128	4.235	0.000	0.180

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:38	61.300%	1129.000	1090.000	70.917%	49.190	49.580	43.340	39.390
2	21:53:21	61.751%	1120.000	1088.000	72.066%	48.830	48.780	44.360	38.850
3	21:54:04	61.896%	1118.000	1090.000	71.359%	48.270	49.280	42.520	37.940
x		61.649%	1122.000	1089.000	71.447%	48.760	49.210	43.410	38.730
σ		0.311%	5.910	1.434	0.579%	0.460	0.405	0.924	0.734
%RSD		0.504	0.526	0.132	0.811	0.943	0.823	2.130	1.896

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:38	66.710%	1986.000	451.300	445.100	1931.000	1908.000	73.164%	74.318%
2	21:53:21	67.413%	1991.000	447.200	445.900	1931.000	1897.000	75.196%	75.562%
3	21:54:04	67.640%	1988.000	444.300	446.400	1918.000	1898.000	75.713%	75.628%
x		67.254%	1988.000	447.600	445.800	1927.000	1901.000	74.691%	75.169%
σ		0.485%	2.889	3.513	0.659	7.588	6.146	1.348%	0.738%
%RSD		0.721	0.145	0.785	0.148	0.394	0.323	1.805	0.982

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:38	46.620	47.270	18.060	19.870	18.980	61.225%
2	21:53:21	47.130	47.350	18.690	19.740	19.080	61.711%
3	21:54:04	48.240	48.220	18.760	20.180	19.390	61.041%
x		47.330	47.610	18.510	19.930	19.150	61.326%
σ		0.833	0.527	0.386	0.228	0.217	0.346%
%RSD		1.759	1.107	2.088	1.145	1.131	0.565

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:28	104.648%	0.899	5.099	5.784	0.000	230.000	16300.000	16370.000
2	21:58:11	104.742%	1.154	2.892	3.170	0.000	227.300	16010.000	15950.000
3	21:58:54	101.121%	1.045	4.678	2.615	0.000	228.800	16210.000	16130.000
x		103.504%	1.033	4.223	3.857	0.000	228.700	16170.000	16150.000
σ		2.064%	0.128	1.171	1.692	0.000	1.359	150.400	210.400
%RSD		1.994	12.390	27.740	43.880	0.000	0.594	0.930	1.303
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:28	24750.000	4184.000	0.000	1882.000	77600.000	73570.000	94.471%	1051.000
2	21:58:11	24070.000	4119.000	0.000	1871.000	77410.000	73610.000	93.005%	1087.000
3	21:58:54	24260.000	4202.000	0.000	1855.000	77630.000	72820.000	92.108%	1051.000
x		24360.000	4168.000	0.000	1869.000	77540.000	73340.000	93.195%	1063.000
σ		349.800	43.590	0.000	13.440	122.100	444.600	1.193%	20.710
%RSD		1.436	1.046	0.000	0.719	0.157	0.606	1.280	1.948
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:28	66.840	58.490	1263.000	40350.000	40550.000	15.820	45.610	42.010
2	21:58:11	66.690	58.300	1264.000	39770.000	40290.000	15.830	45.780	40.920
3	21:58:54	67.360	57.990	1267.000	40070.000	40290.000	15.630	43.920	41.880
x		66.960	58.260	1265.000	40060.000	40380.000	15.760	45.100	41.600
σ		0.353	0.253	2.434	288.900	150.500	0.115	1.027	0.597
%RSD		0.528	0.434	0.193	0.721	0.373	0.729	2.276	1.434
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:28	41.510	134.900	134.400	14.140	0.654	1.513	0.000	105.500
2	21:58:11	42.190	134.800	132.200	14.050	0.745	1.266	0.000	106.500
3	21:58:54	41.990	133.800	131.500	13.680	1.019	1.166	0.000	106.900
x		41.900	134.500	132.700	13.960	0.806	1.315	0.000	106.300
σ		0.348	0.564	1.499	0.243	0.190	0.178	0.000	0.707
%RSD		0.831	0.420	1.129	1.743	23.530	13.570	0.000	0.665
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:28	0.000	5.263	4.833	86.015%	0.161	0.135	1.430	1.206
2	21:58:11	0.000	5.358	5.169	86.111%	0.170	0.159	1.379	1.208
3	21:58:54	0.000	5.314	5.332	85.977%	0.174	0.165	1.332	1.343
x		0.000	5.312	5.111	86.034%	0.168	0.153	1.380	1.252
σ		0.000	0.047	0.255	0.069%	0.007	0.016	0.049	0.078
%RSD		0.000	0.892	4.987	0.080	3.948	10.160	3.545	6.260
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:28	84.071%	6.611	0.431	0.366	142.500	137.500	82.596%	82.744%
2	21:58:11	86.266%	5.469	0.393	0.395	140.500	136.600	85.152%	84.526%
3	21:58:54	85.438%	4.730	0.367	0.341	140.100	136.500	85.253%	84.851%
x		85.259%	5.603	0.397	0.367	141.000	136.900	84.333%	84.040%
σ		1.108%	0.948	0.032	0.027	1.288	0.557	1.506%	1.134%
%RSD		1.300	16.920	8.087	7.424	0.913	0.407	1.785	1.350
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:57:28	0.524	0.499	61.900	61.130	61.100	70.028%		
2	21:58:11	0.490	0.558	64.140	61.970	62.630	70.460%		
3	21:58:54	0.542	0.528	63.550	61.300	61.960	71.879%		
x		0.519	0.528	63.200	61.470	61.890	70.789%		
σ		0.027	0.030	1.164	0.444	0.766	0.968%		
%RSD		5.114	5.625	1.842	0.723	1.237	1.368		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:02:19	108.189%	1.274	0.801	0.377	0.000	215.200	13370.000	13380.000
2	22:03:02	106.805%	1.389	-0.624	-0.277	0.000	215.000	13450.000	13310.000
3	22:03:45	109.761%	1.395	-2.681	-1.052	0.000	208.000	13030.000	13110.000
x		108.252%	1.353	-0.835	-0.317	0.000	212.700	13280.000	13270.000
σ		1.479%	0.068	1.750	0.716	0.000	4.108	223.100	139.200
%RSD		1.366	5.037	209.700	225.400	0.000	1.931	1.680	1.049

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:02:19	27210.000	3879.000	0.000	1893.000	53310.000	49900.000	99.106%	1031.000
2	22:03:02	27190.000	3925.000	0.000	1920.000	52950.000	50060.000	97.445%	1037.000
3	22:03:45	26660.000	3784.000	0.000	1904.000	52460.000	49900.000	98.318%	1026.000
x		27020.000	3863.000	0.000	1906.000	52910.000	49950.000	98.290%	1031.000
σ		308.100	72.200	0.000	13.500	425.200	90.840	0.831%	5.127
%RSD		1.140	1.869	0.000	0.708	0.804	0.182	0.845	0.497

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:02:19	71.070	56.430	1856.000	46830.000	46860.000	18.830	49.610	50.660
2	22:03:02	70.990	57.580	1864.000	46690.000	47090.000	18.440	51.500	49.580
3	22:03:45	71.320	56.740	1845.000	46310.000	46690.000	18.440	51.350	49.770
x		71.130	56.920	1855.000	46610.000	46880.000	18.570	50.820	50.000
σ		0.171	0.597	9.488	268.900	200.100	0.226	1.049	0.577
%RSD		0.241	1.050	0.511	0.577	0.427	1.215	2.064	1.154

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:02:19	50.900	155.000	155.800	16.740	0.993	0.882	0.000	83.260
2	22:03:02	50.500	155.000	153.900	17.490	0.920	1.433	0.000	82.470
3	22:03:45	49.740	155.800	151.600	17.500	1.219	1.082	0.000	82.840
x		50.380	155.300	153.800	17.240	1.044	1.133	0.000	82.850
σ		0.586	0.481	2.111	0.438	0.156	0.279	0.000	0.395
%RSD		1.164	0.310	1.373	2.541	14.940	24.620	0.000	0.477

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:02:19	0.000	7.678	6.932	90.689%	0.213	0.200	2.404	2.157
2	22:03:02	0.000	7.159	7.270	90.201%	0.257	0.178	2.357	2.289
3	22:03:45	0.000	7.308	6.784	89.622%	0.231	0.207	2.523	2.121
x		0.000	7.382	6.995	90.170%	0.234	0.195	2.428	2.189
σ		0.000	0.267	0.249	0.534%	0.022	0.015	0.086	0.088
%RSD		0.000	3.623	3.558	0.592	9.621	7.687	3.525	4.036

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:02:19	89.201%	4.138	0.401	0.368	168.400	167.000	86.655%	86.727%
2	22:03:02	88.575%	4.195	0.408	0.434	169.400	166.600	87.165%	87.091%
3	22:03:45	88.129%	3.990	0.398	0.484	171.700	166.800	86.922%	87.035%
x		88.635%	4.108	0.402	0.429	169.900	166.800	86.914%	86.951%
σ		0.538%	0.106	0.005	0.058	1.702	0.218	0.255%	0.196%
%RSD		0.607	2.576	1.239	13.550	1.002	0.131	0.293	0.225

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:02:19	0.563	0.546	105.600	102.600	103.100	73.929%
2	22:03:02	0.483	0.506	102.500	99.950	100.300	77.087%
3	22:03:45	0.548	0.512	106.300	102.600	103.700	74.101%
x		0.531	0.521	104.800	101.700	102.400	75.039%
σ		0.042	0.022	2.042	1.511	1.838	1.776%
%RSD		7.986	4.142	1.949	1.486	1.796	2.366

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:07:10	101.205%	1.299	2.432	1.423	0.000	317.000	45710.000	45480.000
2	22:07:53	99.499%	1.558	0.958	1.338	0.000	308.300	44930.000	44700.000
3	22:08:36	95.005%	1.384	0.401	1.010	0.000	313.000	45260.000	44990.000
x		98.570%	1.414	1.264	1.257	0.000	312.700	45300.000	45060.000
σ		3.203%	0.132	1.050	0.218	0.000	4.358	389.400	394.000
%RSD		3.249	9.330	83.060	17.350	0.000	1.394	0.860	0.875

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:07:10	25650.000	4433.000	0.000	1649.000	165400.000	166200.000	89.357%	1087.000
2	22:07:53	25500.000	4132.000	0.000	1646.000	164600.000	165900.000	85.883%	1073.000
3	22:08:36	25440.000	4198.000	0.000	1638.000	165700.000	164100.000	84.272%	1069.000
x		25530.000	4254.000	0.000	1644.000	165200.000	165400.000	86.504%	1076.000
σ		109.900	158.300	0.000	5.874	559.300	1165.000	2.599%	9.495
%RSD		0.431	3.721	0.000	0.357	0.339	0.705	3.004	0.882

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:07:10	74.450	105.600	1923.000	45670.000	46320.000	19.790	52.740	57.280
2	22:07:53	72.700	105.300	1919.000	45940.000	46290.000	19.060	53.190	55.410
3	22:08:36	71.250	104.400	1916.000	45490.000	46300.000	19.000	50.860	56.240
x		72.800	105.100	1919.000	45700.000	46300.000	19.280	52.260	56.310
σ		1.601	0.623	3.223	228.500	13.890	0.439	1.235	0.936
%RSD		2.199	0.593	0.168	0.500	0.030	2.274	2.362	1.663

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:07:10	56.650	184.000	180.800	17.060	1.048	1.734	0.000	151.500
2	22:07:53	56.480	185.500	185.500	15.720	0.931	1.378	0.000	150.800
3	22:08:36	57.100	183.300	184.000	14.880	0.808	1.133	0.000	150.900
x		56.740	184.300	183.400	15.890	0.929	1.415	0.000	151.100
σ		0.321	1.155	2.370	1.101	0.120	0.302	0.000	0.403
%RSD		0.566	0.626	1.292	6.931	12.910	21.360	0.000	0.267

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:07:10	0.000	6.371	6.295	79.128%	0.306	0.210	3.471	3.374
2	22:07:53	0.000	5.947	6.387	78.153%	0.276	0.233	3.385	3.330
3	22:08:36	0.000	6.269	6.207	77.167%	0.236	0.189	3.244	3.145
x		0.000	6.195	6.297	78.149%	0.273	0.211	3.367	3.283
σ		0.000	0.221	0.090	0.981%	0.035	0.022	0.115	0.122
%RSD		0.000	3.573	1.430	1.255	12.780	10.380	3.407	3.708

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:07:10	79.730%	3.336	0.673	0.732	168.200	165.300	78.775%	78.017%
2	22:07:53	78.503%	3.324	0.624	0.691	169.100	163.300	79.303%	78.892%
3	22:08:36	78.188%	3.175	0.676	0.699	165.500	164.600	80.085%	78.859%
x		78.807%	3.278	0.658	0.708	167.600	164.400	79.388%	78.589%
σ		0.815%	0.090	0.029	0.022	1.848	1.031	0.659%	0.496%
%RSD		1.034	2.738	4.409	3.061	1.102	0.627	0.830	0.631

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:07:10	0.573	0.583	120.300	119.700	119.500	64.947%
2	22:07:53	0.579	0.591	123.100	120.600	120.900	65.576%
3	22:08:36	0.583	0.606	124.400	122.200	121.700	65.573%
x		0.578	0.593	122.600	120.800	120.700	65.365%
σ		0.005	0.012	2.076	1.262	1.114	0.362%
%RSD		0.949	1.968	1.693	1.045	0.923	0.554

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:12:01	80.525%	2.502	38.700	39.880	0.000	980.300	97390.000	97760.000
2	22:12:43	77.994%	2.837	40.590	38.780	0.000	978.000	97680.000	98060.000
3	22:13:27	77.904%	3.054	37.980	36.740	0.000	965.400	97510.000	97130.000
x		78.808%	2.798	39.090	38.470	0.000	974.600	97530.000	97650.000
σ		1.488%	0.278	1.348	1.589	0.000	8.029	147.400	475.600
%RSD		1.888	9.933	3.447	4.131	0.000	0.824	0.151	0.487
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:12:01	52000.000	4954.000	0.000	11240.000	492800.000	490900.000	70.872%	1242.000
2	22:12:43	51100.000	4941.000	0.000	11070.000	485300.000	489900.000	68.789%	1262.000
3	22:13:27	50550.000	5168.000	0.000	11180.000	492700.000	486800.000	67.261%	1258.000
x		51220.000	5021.000	0.000	11160.000	490300.000	489200.000	68.974%	1254.000
σ		727.700	127.700	0.000	84.260	4290.000	2147.000	1.812%	10.340
%RSD		1.421	2.543	0.000	0.755	0.875	0.439	2.627	0.824
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:12:01	137.600	101.200	2768.000	120200.000	123000.000	61.900	158.400	128.000
2	22:12:43	136.000	101.700	2740.000	120200.000	123200.000	61.880	159.900	126.700
3	22:13:27	137.100	101.300	2785.000	120400.000	122600.000	62.780	162.300	126.700
x		136.900	101.400	2764.000	120300.000	123000.000	62.190	160.200	127.100
σ		0.768	0.292	23.020	80.170	294.900	0.514	1.993	0.750
%RSD		0.561	0.288	0.833	0.067	0.240	0.826	1.244	0.590
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:12:01	126.300	312.000	315.900	43.550	1.187	1.570	0.000	667.500
2	22:12:43	128.200	315.300	315.900	44.690	1.167	1.522	0.000	670.900
3	22:13:27	130.700	320.300	323.200	43.590	1.175	1.517	0.000	671.800
x		128.400	315.800	318.300	43.940	1.177	1.536	0.000	670.100
σ		2.182	4.205	4.209	0.650	0.010	0.029	0.000	2.251
%RSD		1.699	1.331	1.322	1.479	0.891	1.898	0.000	0.336
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:12:01	0.000	26.230	26.510	61.241%	0.374	0.254	1.864	1.916
2	22:12:43	0.000	25.770	27.470	60.249%	0.364	0.225	2.327	2.101
3	22:13:27	0.000	25.670	26.070	59.425%	0.380	0.227	2.547	2.005
x		0.000	25.890	26.680	60.305%	0.373	0.235	2.246	2.007
σ		0.000	0.302	0.719	0.910%	0.008	0.017	0.349	0.093
%RSD		0.000	1.167	2.696	1.508	2.199	7.098	15.530	4.615
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:12:01	65.846%	2.085	0.300	0.312	408.400	405.700	68.123%	67.447%
2	22:12:43	64.562%	1.984	0.252	0.222	414.500	407.700	67.893%	67.452%
3	22:13:27	64.344%	1.851	0.273	0.215	418.000	408.300	66.800%	66.523%
x		64.917%	1.973	0.275	0.250	413.600	407.200	67.605%	67.140%
σ		0.812%	0.118	0.024	0.054	4.853	1.356	0.707%	0.535%
%RSD		1.250	5.959	8.799	21.580	1.173	0.333	1.045	0.797
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:12:01	2.221	2.252	92.200	87.970	89.570	53.411%		
2	22:12:43	2.262	2.202	91.660	88.140	89.950	53.753%		
3	22:13:27	2.342	2.222	92.390	89.550	90.780	53.044%		
x		2.275	2.225	92.080	88.550	90.100	53.403%		
σ		0.062	0.025	0.380	0.867	0.620	0.355%		
%RSD		2.704	1.128	0.413	0.979	0.688	0.664		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:16:52	76.097%	3.724	65.160	64.230	0.000	1263.000	124100.000	124000.000
2	22:17:35	75.089%	3.457	65.150	63.180	0.000	1242.000	122800.000	123300.000
3	22:18:18	71.984%	3.079	67.360	65.700	0.000	1227.000	122800.000	124100.000
x		74.390%	3.420	65.890	64.370	0.000	1244.000	123200.000	123800.000
σ		2.144%	0.324	1.269	1.264	0.000	18.130	719.000	413.200
%RSD		2.881	9.483	1.926	1.964	0.000	1.457	0.584	0.334

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:16:52	64470.000	5254.000	0.000	15150.000	561200.000	550100.000	65.418%	1221.000
2	22:17:35	62440.000	5432.000	0.000	15020.000	560400.000	556600.000	63.003%	1213.000
3	22:18:18	63200.000	5637.000	0.000	15130.000	560500.000	550400.000	62.632%	1202.000
x		63370.000	5441.000	0.000	15100.000	560700.000	552400.000	63.684%	1212.000
σ		1024.000	191.600	0.000	72.960	407.200	3634.000	1.513%	9.564
%RSD		1.615	3.521	0.000	0.483	0.073	0.658	2.375	0.789

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:16:52	173.400	127.300	3097.000	149900.000	154400.000	77.440	215.500	147.300
2	22:17:35	174.000	128.000	3125.000	150100.000	154500.000	76.060	213.100	148.800
3	22:18:18	173.800	127.700	3138.000	149800.000	153300.000	76.760	206.100	144.800
x		173.700	127.700	3120.000	149900.000	154100.000	76.750	211.500	147.000
σ		0.315	0.339	21.000	154.800	646.100	0.693	4.887	1.998
%RSD		0.181	0.265	0.673	0.103	0.419	0.903	2.310	1.359

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:16:52	147.700	341.800	344.100	45.830	2.209	2.705	0.000	848.000
2	22:17:35	151.000	349.300	351.100	46.910	1.781	2.099	0.000	860.000
3	22:18:18	147.700	343.200	348.500	46.040	2.044	1.939	0.000	851.600
x		148.800	344.800	347.900	46.260	2.011	2.248	0.000	853.200
σ		1.904	4.001	3.561	0.569	0.216	0.404	0.000	6.149
%RSD		1.279	1.161	1.024	1.230	10.720	17.960	0.000	0.721

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:16:52	0.000	44.270	44.250	55.693%	0.433	0.315	2.886	2.576
2	22:17:35	0.000	45.490	45.420	54.877%	0.475	0.302	2.468	2.089
3	22:18:18	0.000	45.380	45.250	55.127%	0.425	0.362	2.756	2.332
x		0.000	45.050	44.980	55.232%	0.445	0.327	2.703	2.332
σ		0.000	0.675	0.631	0.418%	0.027	0.032	0.214	0.243
%RSD		0.000	1.498	1.402	0.756	6.028	9.697	7.910	10.440

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:16:52	60.144%	1.549	0.286	0.189	545.800	543.100	63.168%	62.417%
2	22:17:35	60.927%	1.368	0.265	0.216	542.900	536.100	64.027%	63.115%
3	22:18:18	60.215%	1.361	0.282	0.295	545.600	541.900	63.874%	63.408%
x		60.429%	1.426	0.278	0.233	544.800	540.400	63.690%	62.980%
σ		0.433%	0.106	0.011	0.055	1.654	3.741	0.459%	0.509%
%RSD		0.716	7.463	3.969	23.640	0.304	0.692	0.720	0.809

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:16:52	3.394	3.288	81.170	76.690	78.710	47.823%
2	22:17:35	3.435	3.272	82.320	77.180	78.700	48.955%
3	22:18:18	3.254	3.376	82.240	77.030	79.390	49.120%
x		3.361	3.312	81.910	76.970	78.930	48.633%
σ		0.095	0.057	0.644	0.248	0.394	0.706%
%RSD		2.827	1.706	0.786	0.322	0.499	1.452

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:21:44	78.575%	2.362	42.600	42.680	0.000	930.900	116400.000	117000.000
2	22:22:27	78.334%	2.835	43.580	41.120	0.000	938.500	116800.000	117000.000
3	22:23:10	77.650%	2.617	43.650	42.270	0.000	942.900	117400.000	116800.000
x		78.186%	2.605	43.280	42.020	0.000	937.400	116900.000	116900.000
σ		0.480%	0.237	0.587	0.812	0.000	6.079	510.500	85.360
%RSD		0.613	9.083	1.357	1.931	0.000	0.648	0.437	0.073
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:21:44	48250.000	5406.000	0.000	11080.000	530100.000	528000.000	67.860%	1234.000
2	22:22:27	47860.000	5193.000	0.000	11130.000	534400.000	538000.000	66.232%	1243.000
3	22:23:10	48030.000	5026.000	0.000	11040.000	532300.000	530700.000	66.608%	1241.000
x		48050.000	5208.000	0.000	11090.000	532300.000	532200.000	66.900%	1239.000
σ		193.900	190.500	0.000	45.970	2122.000	5187.000	0.852%	4.470
%RSD		0.403	3.657	0.000	0.415	0.399	0.975	1.274	0.361
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:21:44	135.400	96.520	2700.000	116400.000	119400.000	57.460	154.300	125.200
2	22:22:27	137.200	97.300	2716.000	117300.000	118900.000	58.070	156.800	126.300
3	22:23:10	136.900	97.740	2710.000	116800.000	119100.000	58.900	152.600	126.200
x		136.500	97.190	2709.000	116800.000	119100.000	58.140	154.600	125.900
σ		0.971	0.614	8.057	469.400	230.700	0.720	2.111	0.606
%RSD		0.712	0.632	0.297	0.402	0.194	1.238	1.366	0.481
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:21:44	123.800	311.800	313.800	37.920	1.873	3.213	0.000	705.200
2	22:22:27	126.400	317.000	315.200	38.130	1.180	2.520	0.000	703.400
3	22:23:10	129.600	318.200	316.100	37.600	1.683	2.420	0.000	715.100
x		126.600	315.700	315.000	37.880	1.579	2.718	0.000	707.900
σ		2.872	3.416	1.166	0.267	0.358	0.432	0.000	6.290
%RSD		2.269	1.082	0.370	0.705	22.670	15.890	0.000	0.888
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:21:44	0.000	29.150	28.890	58.890%	0.387	0.240	2.525	2.170
2	22:22:27	0.000	29.540	29.650	58.438%	0.374	0.254	2.709	2.165
3	22:23:10	0.000	29.260	30.580	57.705%	0.391	0.310	2.593	2.157
x		0.000	29.320	29.700	58.344%	0.384	0.268	2.609	2.164
σ		0.000	0.200	0.846	0.598%	0.009	0.037	0.093	0.007
%RSD		0.000	0.682	2.848	1.025	2.245	13.790	3.567	0.301
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:21:44	63.162%	2.093	0.249	0.305	398.600	394.100	65.962%	65.459%
2	22:22:27	63.262%	1.965	0.267	0.263	403.200	396.200	66.789%	66.256%
3	22:23:10	63.077%	1.904	0.340	0.346	398.800	395.500	66.387%	66.559%
x		63.167%	1.987	0.285	0.305	400.200	395.300	66.380%	66.092%
σ		0.093%	0.096	0.048	0.041	2.587	1.100	0.413%	0.568%
%RSD		0.147	4.842	16.860	13.530	0.647	0.278	0.623	0.860
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:21:44	2.315	2.371	64.820	60.700	62.360	51.450%		
2	22:22:27	2.343	2.307	64.400	60.240	62.050	52.062%		
3	22:23:10	2.426	2.330	63.400	60.980	62.010	51.681%		
x		2.361	2.336	64.200	60.640	62.140	51.731%		
σ		0.058	0.032	0.725	0.373	0.191	0.309%		
%RSD		2.444	1.387	1.130	0.615	0.306	0.597		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:26:36	79.383%	2.357	67.210	63.450	0.000	1204.000	417500.000	417300.000
2	22:27:19	76.983%	2.220	65.660	64.830	0.000	1232.000	415600.000	416800.000
3	22:28:02	74.563%	2.426	66.870	67.970	0.000	1247.000	422200.000	422100.000
x		76.976%	2.334	66.580	65.420	0.000	1228.000	418500.000	418700.000
σ		2.410%	0.105	0.814	2.318	0.000	21.610	3419.000	2934.000
%RSD		3.131	4.493	1.223	3.543	0.000	1.760	0.817	0.701

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:26:36	46800.000	5026.000	0.000	11630.000	1010000.000	1001000.000	71.953%	980.700
2	22:27:19	45970.000	5078.000	0.000	11480.000	1007000.000	999800.000	70.153%	987.100
3	22:28:02	46700.000	5013.000	0.000	11700.000	1020000.000	1010000.000	70.102%	983.500
x		46490.000	5039.000	0.000	11600.000	1012000.000	1004000.000	70.736%	983.800
σ		449.800	34.450	0.000	111.200	6849.000	5749.000	1.055%	3.203
%RSD		0.968	0.684	0.000	0.959	0.677	0.573	1.491	0.326

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:26:36	137.800	97.360	2417.000	108400.000	113100.000	55.120	148.500	122.500
2	22:27:19	135.300	97.880	2455.000	108400.000	112800.000	55.270	144.600	118.100
3	22:28:02	138.800	97.320	2443.000	109100.000	113000.000	55.960	146.800	120.000
x		137.300	97.520	2438.000	108600.000	113000.000	55.450	146.700	120.200
σ		1.819	0.314	19.720	389.500	161.700	0.450	1.964	2.211
%RSD		1.325	0.322	0.809	0.358	0.143	0.811	1.339	1.839

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:26:36	123.500	226.100	230.200	32.610	1.829	2.771	0.000	876.100
2	22:27:19	122.000	227.300	232.700	32.880	1.615	3.353	0.000	876.300
3	22:28:02	122.500	229.000	232.800	32.180	2.291	2.064	0.000	889.200
x		122.700	227.500	231.900	32.560	1.912	2.729	0.000	880.600
σ		0.748	1.479	1.448	0.355	0.346	0.645	0.000	7.488
%RSD		0.609	0.650	0.624	1.090	18.090	23.650	0.000	0.850

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:26:36	0.000	35.190	35.680	57.443%	0.960	0.723	2.309	2.049
2	22:27:19	0.000	34.920	35.900	58.378%	0.950	0.724	2.535	1.839
3	22:28:02	0.000	36.050	34.900	57.600%	0.884	0.773	2.332	1.989
x		0.000	35.390	35.490	57.807%	0.931	0.740	2.392	1.959
σ		0.000	0.587	0.527	0.501%	0.042	0.028	0.124	0.108
%RSD		0.000	1.660	1.485	0.866	4.459	3.837	5.181	5.526

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:26:36	63.373%	1.874	0.248	0.251	416.600	411.000	66.989%	65.600%
2	22:27:19	64.947%	1.987	0.216	0.281	421.600	409.000	67.629%	66.737%
3	22:28:02	64.397%	1.942	0.227	0.262	416.500	413.000	68.811%	67.580%
x		64.239%	1.934	0.230	0.264	418.200	411.000	67.809%	66.639%
σ		0.799%	0.057	0.016	0.015	2.944	2.002	0.924%	0.994%
%RSD		1.243	2.942	6.920	5.696	0.704	0.487	1.363	1.491

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:26:36	2.583	2.487	63.490	59.680	61.630	47.916%
2	22:27:19	2.484	2.505	64.210	60.270	62.030	49.501%
3	22:28:02	2.386	2.378	63.890	60.090	61.490	50.198%
x		2.484	2.457	63.870	60.010	61.720	49.205%
σ		0.099	0.068	0.360	0.301	0.282	1.169%
%RSD		3.965	2.787	0.564	0.502	0.457	2.377

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:31:27	81.553%	2.442	30.590	29.710	0.000	837.700	95130.000	94500.000
2	22:32:10	81.435%	2.610	27.860	29.180	0.000	810.600	93110.000	93580.000
3	22:32:53	80.279%	2.602	28.860	30.030	0.000	820.700	92940.000	93390.000
x		81.089%	2.552	29.100	29.640	0.000	823.000	93720.000	93820.000
σ		0.704%	0.095	1.381	0.433	0.000	13.690	1218.000	593.200
%RSD		0.868	3.730	4.744	1.460	0.000	1.664	1.299	0.632
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:31:27	49690.000	4675.000	0.000	9420.000	387000.000	387100.000	71.943%	1657.000
2	22:32:10	48590.000	4658.000	0.000	9408.000	395100.000	393500.000	69.251%	1655.000
3	22:32:53	48940.000	4666.000	0.000	9384.000	388800.000	385100.000	68.992%	1659.000
x		49070.000	4667.000	0.000	9404.000	390300.000	388600.000	70.062%	1657.000
σ		561.900	8.336	0.000	18.330	4262.000	4425.000	1.634%	2.279
%RSD		1.145	0.179	0.000	0.195	1.092	1.139	2.332	0.138
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:31:27	133.200	98.230	2406.000	107500.000	109100.000	51.460	146.400	115.900
2	22:32:10	136.500	96.580	2416.000	108100.000	109500.000	50.890	145.400	116.200
3	22:32:53	135.100	96.450	2398.000	107200.000	108400.000	50.650	142.300	115.400
x		134.900	97.090	2406.000	107600.000	109000.000	51.000	144.700	115.800
σ		1.648	0.988	8.935	465.600	546.100	0.417	2.134	0.396
%RSD		1.221	1.017	0.371	0.433	0.501	0.818	1.475	0.342
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:31:27	119.100	304.200	304.300	34.770	1.873	3.113	0.000	546.400
2	22:32:10	118.000	308.900	309.400	35.310	2.066	2.787	0.000	549.500
3	22:32:53	116.300	304.000	301.600	34.630	2.416	1.732	0.000	540.000
x		117.800	305.700	305.100	34.900	2.118	2.544	0.000	545.300
σ		1.406	2.794	3.957	0.362	0.276	0.722	0.000	4.812
%RSD		1.194	0.914	1.297	1.039	13.010	28.380	0.000	0.882
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:31:27	0.000	21.000	20.800	62.017%	0.349	0.286	3.000	2.521
2	22:32:10	0.000	20.110	20.970	60.861%	0.407	0.270	2.344	2.244
3	22:32:53	0.000	20.050	20.480	60.168%	0.327	0.316	2.417	1.945
x		0.000	20.380	20.750	61.015%	0.361	0.291	2.587	2.237
σ		0.000	0.534	0.253	0.934%	0.041	0.023	0.359	0.288
%RSD		0.000	2.622	1.218	1.531	11.490	7.981	13.890	12.890
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:31:27	65.960%	2.414	0.319	0.359	372.000	365.700	67.275%	67.127%
2	22:32:10	64.467%	2.468	0.355	0.351	376.800	369.500	66.993%	66.362%
3	22:32:53	63.747%	2.428	0.378	0.386	370.800	368.000	67.197%	66.191%
x		64.725%	2.437	0.351	0.365	373.200	367.700	67.155%	66.560%
σ		1.129%	0.028	0.030	0.019	3.162	1.913	0.146%	0.499%
%RSD		1.744	1.148	8.423	5.073	0.847	0.520	0.217	0.749
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:31:27	2.048	2.093	107.100	102.200	103.800	53.210%		
2	22:32:10	2.086	2.098	108.800	103.600	105.100	52.679%		
3	22:32:53	2.136	2.100	106.500	101.500	103.300	53.096%		
x		2.090	2.097	107.500	102.400	104.000	52.995%		
σ		0.044	0.004	1.195	1.053	0.924	0.280%		
%RSD		2.117	0.183	1.112	1.028	0.888	0.528		

CCV 801624 5/7/2013 10:35:33 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:36:16	86.930%	106.700	86.070	86.980	0.000	48930.000	49690.000	49580.000
2	22:36:59	90.153%	102.300	77.260	82.090	0.000	47850.000	48820.000	48980.000
3	22:37:42	87.902%	105.100	80.200	82.770	0.000	47690.000	48330.000	48490.000
x		88.328%	104.717%	81.178%	83.943%	0.000	96.316%	97.894%	98.032%
σ		1.653%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.872	2.133	5.527	3.156	0.000	1.401	1.414	1.112

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:36:16	572.600	5269.000	0.000	49350.000	49620.000	47880.000	76.452%	108.500
2	22:36:59	585.800	5182.000	0.000	48930.000	48950.000	47610.000	77.641%	108.400
3	22:37:42	553.900	5155.000	0.000	49030.000	49670.000	46680.000	78.436%	104.500
x		114.151%	104.034%	0.000	98.204%	98.825%	94.780%	77.509%	107.115%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.998%	n/a
%RSD		2.806	1.144	0.000	0.447	0.815	1.328	1.288	2.131

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:36:16	103.600	103.500	507.100	25760.000	25910.000	107.000	111.300	111.200
2	22:36:59	99.760	101.000	498.000	25370.000	25300.000	104.600	105.800	108.700
3	22:37:42	100.800	101.700	498.300	25350.000	25460.000	103.100	106.300	109.600
x		101.388%	102.101%	100.229%	101.961%	102.233%	104.903%	107.827%	109.875%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.982	1.276	1.021	0.909	1.232	1.852	2.808	1.149

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:36:16	111.000	107.000	105.100	104.600	104.900	101.900	0.000	100.300
2	22:36:59	108.700	103.000	103.700	101.800	103.400	105.900	0.000	98.430
3	22:37:42	107.700	104.500	106.200	102.900	103.900	103.900	0.000	98.460
x		109.139%	104.819%	105.021%	103.095%	104.070%	103.894%	0.000	99.057%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.568	1.961	1.202	1.354	0.746	1.911	0.000	1.073

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:36:16	71.888%	105.700	106.900	67.847%	104.400	105.100	100.500	101.400
2	22:36:59	73.968%	108.200	108.100	69.738%	102.900	103.300	98.030	100.100
3	22:37:42	75.568%	109.900	108.800	71.228%	103.800	104.200	99.670	101.200
x		73.808%	107.905%	107.919%	69.604%	103.722%	104.202%	99.392%	100.916%
σ		1.845%	n/a	n/a	1.694%	n/a	n/a	n/a	n/a
%RSD		2.500	1.961	0.915	2.434	0.726	0.904	1.252	0.730

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:36:16	68.287%	102.200	99.210	99.620	104.000	99.870	68.825%	69.086%
2	22:36:59	70.056%	101.600	98.350	100.100	100.400	98.860	72.378%	72.489%
3	22:37:42	71.797%	101.800	98.880	100.900	99.860	97.040	73.807%	74.846%
x		70.047%	101.878%	98.816%	100.201%	101.410%	98.589%	71.670%	72.140%
σ		1.755%	n/a	n/a	n/a	n/a	n/a	2.565%	2.896%
%RSD		2.505	0.304	0.439	0.663	2.236	1.454	3.580	4.014

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:36:16	101.500	101.100	102.500	102.300	102.300	59.253%
2	22:36:59	100.300	99.540	99.830	100.100	100.500	61.591%
3	22:37:42	99.880	100.100	100.600	100.400	100.800	63.222%
x		100.558%	100.248%	100.967%	100.924%	101.218%	61.355%
σ		n/a	n/a	n/a	n/a	n/a	1.995%
%RSD		0.813	0.777	1.370	1.149	0.973	3.252

CCB8 5/7/2013 10:43:48 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:44:31	115.268%	0.021	-13.020	-12.850	0.000	14.050	36.280	35.010
2	22:45:14	109.978%	0.065	-13.340	-13.420	0.000	16.290	37.860	38.280
3	22:45:57	109.120%	0.034	-13.080	-13.680	0.000	15.720	37.610	36.530
x		111.455%	0.040	-13.150	-13.310	0.000	15.360	37.250	36.600
σ		3.330%	0.023	0.174	0.425	0.000	1.162	0.850	1.637
%RSD		2.987	56.620	1.321	3.195	0.000	7.567	2.281	4.471
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:44:31	6.980	3.952	0.000	4.859	39.420	68.840	105.438%	0.077
2	22:45:14	8.115	3.332	0.000	5.796	57.490	75.090	103.249%	0.294
3	22:45:57	8.367	2.703	0.000	5.267	35.940	70.210	102.304%	-0.089
x		7.821	3.329	0.000	5.307	44.280	71.380	103.664%	0.094
σ		0.739	0.625	0.000	0.470	11.570	3.288	1.608%	0.192
%RSD		9.449	18.760	0.000	8.857	26.120	4.606	1.551	204.100
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:44:31	0.072	0.027	0.535	31.110	23.420	0.045	0.114	0.066
2	22:45:14	0.064	0.034	0.623	31.640	26.130	0.036	0.072	0.086
3	22:45:57	0.107	0.099	0.631	32.200	21.410	0.046	0.127	0.088
x		0.081	0.053	0.596	31.650	23.650	0.042	0.105	0.080
σ		0.023	0.039	0.054	0.544	2.368	0.006	0.029	0.012
%RSD		28.560	73.960	8.977	1.720	10.010	13.730	27.330	15.330
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:44:31	0.127	0.166	0.132	-0.051	0.118	-0.142	0.000	0.098
2	22:45:14	0.152	0.194	0.261	0.066	0.069	0.472	0.000	0.103
3	22:45:57	0.065	0.229	0.256	0.137	0.156	0.201	0.000	0.117
x		0.115	0.196	0.217	0.051	0.114	0.177	0.000	0.106
σ		0.045	0.031	0.073	0.095	0.044	0.308	0.000	0.010
%RSD		39.320	15.970	33.680	186.200	38.360	174.200	0.000	9.220
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:44:31	98.875%	0.499	0.441	100.119%	0.039	0.023	0.200	0.132
2	22:45:14	97.803%	0.424	0.447	99.519%	0.033	0.036	0.105	0.066
3	22:45:57	96.915%	0.468	0.435	98.469%	0.025	0.033	0.121	0.113
x		97.864%	0.464	0.441	99.369%	0.032	0.030	0.142	0.104
σ		0.981%	0.037	0.006	0.835%	0.008	0.007	0.051	0.034
%RSD		1.003	8.065	1.429	0.841	23.120	21.960	35.760	32.880
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:44:31	93.454%	0.278	0.087	0.061	0.085	0.114	88.256%	88.428%
2	22:45:14	94.150%	0.235	0.084	0.090	0.049	0.083	89.963%	89.627%
3	22:45:57	94.001%	0.238	0.086	0.127	0.014	0.132	89.181%	89.693%
x		93.868%	0.250	0.086	0.093	0.049	0.109	89.133%	89.250%
σ		0.366%	0.024	0.002	0.033	0.035	0.025	0.855%	0.712%
%RSD		0.390	9.606	1.963	35.860	71.470	22.870	0.959	0.798
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:44:31	0.037	0.037	0.060	0.032	0.057	88.488%		
2	22:45:14	0.030	0.031	0.062	0.058	0.060	91.803%		
3	22:45:57	0.032	0.030	0.058	0.051	0.067	89.815%		
x		0.033	0.033	0.060	0.047	0.061	90.035%		
σ		0.004	0.004	0.002	0.013	0.005	1.668%		
%RSD		10.680	12.400	3.545	28.600	7.974	1.853		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:49:22	80.497%	3.386	44.220	44.060	0.000	1089.000	136100.000	135600.000
2	22:50:05	76.688%	3.342	41.070	42.220	0.000	1086.000	134900.000	135100.000
3	22:50:48	75.775%	3.383	44.970	43.980	0.000	1098.000	134700.000	134900.000
x		77.653%	3.370	43.420	43.420	0.000	1091.000	135200.000	135200.000
σ		2.505%	0.024	2.065	1.039	0.000	5.972	756.500	360.000
%RSD		3.225	0.721	4.756	2.393	0.000	0.547	0.559	0.266
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:49:22	61780.000	5755.000	0.000	13220.000	544800.000	539300.000	70.021%	1464.000
2	22:50:05	60860.000	5587.000	0.000	13100.000	540800.000	541400.000	66.900%	1450.000
3	22:50:48	60920.000	5261.000	0.000	13110.000	540200.000	538900.000	66.191%	1433.000
x		61190.000	5534.000	0.000	13140.000	541900.000	539800.000	67.704%	1449.000
σ		511.800	250.900	0.000	70.030	2500.000	1365.000	2.038%	15.540
%RSD		0.837	4.534	0.000	0.533	0.461	0.253	3.010	1.072
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:49:22	166.400	122.800	3286.000	141600.000	145000.000	72.160	195.200	150.000
2	22:50:05	167.300	122.600	3320.000	142800.000	145200.000	71.560	193.800	149.200
3	22:50:48	161.300	120.500	3267.000	139500.000	143000.000	70.520	192.300	146.800
x		165.000	122.000	3291.000	141300.000	144400.000	71.420	193.800	148.700
σ		3.278	1.288	26.790	1653.000	1233.000	0.828	1.484	1.681
%RSD		1.986	1.055	0.814	1.170	0.854	1.160	0.766	1.131
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:49:22	149.300	364.900	366.800	42.680	1.849	2.769	0.000	726.100
2	22:50:05	152.000	366.000	365.500	41.310	2.069	2.529	0.000	730.000
3	22:50:48	146.300	363.700	358.700	42.650	1.806	2.990	0.000	728.200
x		149.200	364.900	363.600	42.210	1.908	2.763	0.000	728.100
σ		2.830	1.196	4.331	0.784	0.141	0.231	0.000	1.928
%RSD		1.897	0.328	1.191	1.859	7.406	8.361	0.000	0.265
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:49:22	0.000	22.460	22.710	59.459%	0.474	0.345	2.667	2.408
2	22:50:05	0.000	22.820	23.440	58.041%	0.441	0.390	2.653	2.233
3	22:50:48	0.000	22.660	22.410	57.611%	0.406	0.366	2.657	2.307
x		0.000	22.650	22.850	58.370%	0.440	0.367	2.659	2.316
σ		0.000	0.183	0.530	0.967%	0.034	0.023	0.007	0.088
%RSD		0.000	0.806	2.320	1.656	7.735	6.145	0.260	3.789
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:49:22	63.058%	1.654	0.322	0.417	481.200	475.300	64.801%	64.447%
2	22:50:05	62.346%	1.671	0.390	0.350	479.100	469.900	65.614%	64.859%
3	22:50:48	62.182%	1.704	0.342	0.360	474.100	466.900	65.093%	65.429%
x		62.528%	1.676	0.351	0.376	478.100	470.700	65.170%	64.911%
σ		0.466%	0.026	0.035	0.036	3.656	4.219	0.412%	0.493%
%RSD		0.745	1.532	10.030	9.631	0.765	0.896	0.632	0.760
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:49:22	2.797	2.807	99.980	96.260	97.630	51.010%		
2	22:50:05	2.889	2.913	101.400	98.730	99.130	50.709%		
3	22:50:48	2.739	2.867	101.600	97.490	99.120	50.831%		
x		2.809	2.863	101.000	97.490	98.630	50.850%		
σ		0.076	0.053	0.891	1.234	0.863	0.151%		
%RSD		2.693	1.854	0.882	1.266	0.875	0.298		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:54:12	82.291%	2.377	29.900	31.520	0.000	854.400	104000.000	103400.000
2	22:54:55	80.933%	2.546	28.330	30.390	0.000	849.900	102600.000	103100.000
3	22:55:38	79.724%	2.762	29.730	30.820	0.000	837.400	102200.000	102700.000
x		80.983%	2.561	29.320	30.910	0.000	847.200	102900.000	103100.000
σ		1.284%	0.193	0.865	0.570	0.000	8.831	943.000	346.000
%RSD		1.585	7.530	2.951	1.844	0.000	1.042	0.916	0.336

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:54:12	50250.000	4710.000	0.000	9338.000	439100.000	444500.000	68.147%	1163.000
2	22:54:55	49880.000	4753.000	0.000	9330.000	440900.000	437900.000	67.160%	1141.000
3	22:55:38	49030.000	4726.000	0.000	9309.000	443100.000	437800.000	65.907%	1161.000
x		49720.000	4730.000	0.000	9326.000	441000.000	440100.000	67.072%	1155.000
σ		626.800	21.960	0.000	15.100	2012.000	3816.000	1.123%	12.120
%RSD		1.261	0.464	0.000	0.162	0.456	0.867	1.674	1.049

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:54:12	140.600	115.900	3648.000	124600.000	127700.000	56.620	158.500	116.200
2	22:54:55	140.000	116.200	3623.000	123200.000	126800.000	56.600	158.800	113.400
3	22:55:38	142.500	117.100	3672.000	125300.000	127400.000	56.010	150.200	113.200
x		141.000	116.400	3648.000	124400.000	127300.000	56.410	155.800	114.200
σ		1.301	0.609	24.490	1062.000	467.000	0.348	4.871	1.682
%RSD		0.923	0.523	0.671	0.854	0.367	0.618	3.126	1.473

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:54:12	117.100	287.200	283.800	51.010	1.461	2.615	0.000	533.200
2	22:54:55	111.800	286.200	281.500	49.820	1.452	2.363	0.000	535.700
3	22:55:38	116.800	283.600	285.200	48.580	1.351	1.297	0.000	536.400
x		115.300	285.700	283.500	49.800	1.421	2.092	0.000	535.100
σ		2.977	1.867	1.900	1.214	0.061	0.700	0.000	1.678
%RSD		2.583	0.653	0.670	2.438	4.299	33.460	0.000	0.314

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:54:12	0.000	24.260	25.710	57.783%	0.389	0.241	2.797	2.322
2	22:54:55	0.000	25.010	25.870	57.285%	0.270	0.256	2.585	2.178
3	22:55:38	0.000	25.680	25.360	56.842%	0.312	0.199	2.502	2.309
x		0.000	24.980	25.650	57.303%	0.324	0.232	2.628	2.270
σ		0.000	0.710	0.259	0.471%	0.061	0.030	0.152	0.080
%RSD		0.000	2.842	1.009	0.821	18.730	12.840	5.788	3.512

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:54:12	61.163%	1.972	0.295	0.334	372.500	364.400	62.818%	61.882%
2	22:54:55	60.749%	2.080	0.406	0.395	372.900	364.600	62.762%	62.532%
3	22:55:38	61.118%	1.937	0.316	0.414	367.700	360.600	62.865%	62.567%
x		61.010%	1.996	0.339	0.381	371.000	363.200	62.815%	62.327%
σ		0.227%	0.075	0.059	0.042	2.885	2.264	0.052%	0.386%
%RSD		0.372	3.742	17.300	11.030	0.777	0.624	0.082	0.619

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:54:12	2.148	2.125	90.850	86.920	87.680	48.083%
2	22:54:55	2.014	2.026	89.110	84.920	86.840	48.959%
3	22:55:38	2.002	2.014	88.540	84.590	86.190	49.300%
x		2.055	2.055	89.500	85.480	86.900	48.781%
σ		0.081	0.061	1.200	1.262	0.742	0.628%
%RSD		3.953	2.972	1.341	1.476	0.854	1.287

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:59:02	77.674%	2.586	39.480	40.270	0.000	935.500	81830.000	82530.000
2	22:59:45	73.206%	2.709	41.250	38.230	0.000	931.100	82520.000	82200.000
3	23:00:28	71.901%	2.901	39.780	39.130	0.000	943.900	81810.000	83000.000
x		74.260%	2.732	40.170	39.210	0.000	936.800	82050.000	82580.000
σ		3.028%	0.159	0.948	1.021	0.000	6.483	404.400	401.900
%RSD		4.077	5.803	2.359	2.603	0.000	0.692	0.493	0.487

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:59:02	52310.000	5047.000	0.000	10350.000	372900.000	366700.000	66.568%	1348.000
2	22:59:45	52490.000	5224.000	0.000	10330.000	367800.000	363700.000	63.839%	1299.000
3	23:00:28	52400.000	5193.000	0.000	10400.000	372600.000	366800.000	63.539%	1299.000
x		52400.000	5155.000	0.000	10360.000	371100.000	365700.000	64.649%	1316.000
σ		85.770	94.550	0.000	36.100	2868.000	1766.000	1.669%	28.360
%RSD		0.164	1.834	0.000	0.348	0.773	0.483	2.581	2.156

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:59:02	148.900	100.500	2499.000	116400.000	118400.000	56.410	149.600	113.000
2	22:59:45	145.700	99.890	2532.000	115900.000	117700.000	56.160	146.300	109.800
3	23:00:28	142.800	99.600	2487.000	116400.000	118000.000	55.890	147.300	110.600
x		145.800	100.000	2506.000	116200.000	118100.000	56.150	147.700	111.200
σ		3.034	0.460	23.290	277.200	349.100	0.262	1.657	1.672
%RSD		2.081	0.460	0.929	0.238	0.296	0.467	1.122	1.504

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:59:02	114.100	306.400	304.100	38.080	1.581	1.561	0.000	564.900
2	22:59:45	113.700	301.900	299.000	37.770	1.718	2.368	0.000	571.000
3	23:00:28	110.700	304.800	303.600	37.600	1.674	2.633	0.000	570.300
x		112.800	304.300	302.300	37.820	1.658	2.187	0.000	568.700
σ		1.819	2.287	2.797	0.242	0.070	0.558	0.000	3.361
%RSD		1.612	0.751	0.925	0.640	4.213	25.520	0.000	0.591

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:59:02	0.000	30.010	31.110	57.512%	0.315	0.248	2.900	2.477
2	22:59:45	0.000	29.950	30.900	56.354%	0.327	0.208	2.866	2.407
3	23:00:28	0.000	29.920	31.270	56.011%	0.290	0.244	2.790	2.064
x		0.000	29.960	31.090	56.626%	0.311	0.233	2.852	2.316
σ		0.000	0.043	0.186	0.786%	0.019	0.022	0.056	0.221
%RSD		0.000	0.144	0.600	1.389	6.008	9.511	1.967	9.537

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:59:02	60.715%	1.856	0.291	0.260	417.200	411.100	61.964%	62.285%
2	22:59:45	61.098%	1.894	0.316	0.275	411.700	407.000	62.668%	63.108%
3	23:00:28	60.522%	1.786	0.312	0.213	414.800	411.700	62.743%	62.832%
x		60.778%	1.845	0.306	0.250	414.600	409.900	62.459%	62.741%
σ		0.293%	0.055	0.013	0.032	2.763	2.548	0.429%	0.419%
%RSD		0.483	2.965	4.334	12.880	0.666	0.622	0.688	0.667

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:59:02	2.155	2.188	85.520	81.630	83.860	49.821%
2	22:59:45	2.169	2.117	86.240	82.870	84.180	50.518%
3	23:00:28	2.115	2.137	87.280	82.780	84.570	50.402%
x		2.147	2.147	86.350	82.430	84.200	50.247%
σ		0.028	0.037	0.882	0.689	0.354	0.374%
%RSD		1.317	1.713	1.021	0.836	0.421	0.744

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:52	81.121%	2.680	36.160	32.720	0.000	914.700	85620.000	86180.000
2	23:04:35	78.545%	2.577	32.310	35.850	0.000	923.200	87240.000	87390.000
3	23:05:18	76.195%	3.153	37.470	35.470	0.000	932.700	87600.000	87180.000
x		78.620%	2.803	35.320	34.680	0.000	923.600	86820.000	86920.000
σ		2.464%	0.307	2.683	1.708	0.000	9.012	1055.000	644.500
%RSD		3.134	10.960	7.597	4.924	0.000	0.976	1.216	0.742
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:52	49110.000	4493.000	0.000	9609.000	359300.000	359800.000	68.328%	1482.000
2	23:04:35	49720.000	4452.000	0.000	9729.000	360800.000	360900.000	65.957%	1461.000
3	23:05:18	49860.000	4301.000	0.000	9677.000	361900.000	359900.000	65.865%	1471.000
x		49560.000	4415.000	0.000	9672.000	360700.000	360200.000	66.717%	1471.000
σ		394.400	101.200	0.000	60.080	1281.000	585.200	1.396%	10.820
%RSD		0.796	2.292	0.000	0.621	0.355	0.163	2.092	0.735
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:52	141.100	96.820	2396.000	107500.000	108900.000	53.090	144.500	112.200
2	23:04:35	142.300	98.910	2407.000	108900.000	109600.000	53.810	147.100	112.800
3	23:05:18	139.600	96.900	2379.000	108400.000	109500.000	52.660	146.400	111.200
x		141.000	97.540	2394.000	108300.000	109300.000	53.190	146.000	112.100
σ		1.339	1.187	14.000	694.700	395.500	0.581	1.344	0.779
%RSD		0.950	1.217	0.585	0.641	0.362	1.093	0.920	0.695
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:52	114.300	320.600	313.100	39.930	1.466	3.207	0.000	509.500
2	23:04:35	112.700	316.500	319.800	38.580	1.658	2.971	0.000	516.900
3	23:05:18	112.500	317.300	321.000	39.030	1.341	1.865	0.000	519.600
x		113.200	318.100	318.000	39.180	1.488	2.681	0.000	515.300
σ		0.967	2.161	4.218	0.689	0.160	0.716	0.000	5.279
%RSD		0.854	0.679	1.327	1.759	10.720	26.710	0.000	1.024
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:52	0.000	26.650	27.230	57.963%	0.254	0.251	3.375	3.115
2	23:04:35	0.000	27.670	27.910	57.094%	0.382	0.177	3.333	2.912
3	23:05:18	0.000	26.940	27.670	57.154%	0.377	0.227	3.692	3.204
x		0.000	27.090	27.610	57.404%	0.338	0.219	3.466	3.077
σ		0.000	0.523	0.344	0.486%	0.072	0.038	0.196	0.150
%RSD		0.000	1.932	1.247	0.846	21.430	17.350	5.661	4.869
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:52	61.232%	2.841	0.561	0.519	381.500	372.500	62.363%	61.539%
2	23:04:35	61.466%	2.502	0.468	0.529	372.900	371.600	63.239%	62.641%
3	23:05:18	61.001%	2.733	0.505	0.516	376.300	371.800	62.602%	62.813%
x		61.233%	2.692	0.511	0.522	376.900	372.000	62.735%	62.331%
σ		0.232%	0.173	0.047	0.007	4.343	0.468	0.453%	0.692%
%RSD		0.380	6.434	9.184	1.252	1.152	0.126	0.722	1.110
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:03:52	2.108	2.166	94.650	90.960	92.240	48.816%		
2	23:04:35	2.202	2.231	95.320	90.570	92.190	49.222%		
3	23:05:18	2.207	2.150	94.490	90.210	92.080	49.005%		
x		2.172	2.182	94.820	90.580	92.170	49.014%		
σ		0.056	0.043	0.442	0.378	0.082	0.203%		
%RSD		2.558	1.954	0.466	0.417	0.088	0.414		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:08:42	77.466%	2.640	36.460	37.220	0.000	947.300	110100.000	110300.000
2	23:09:25	74.269%	2.890	37.890	38.970	0.000	963.600	112000.000	112100.000
3	23:10:08	74.233%	2.345	40.020	39.510	0.000	974.000	111400.000	112200.000
x		75.323%	2.625	38.130	38.570	0.000	961.700	111200.000	111500.000
σ		1.856%	0.273	1.790	1.192	0.000	13.450	981.100	1030.000
%RSD		2.464	10.390	4.695	3.091	0.000	1.399	0.882	0.924

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:08:42	48760.000	5395.000	0.000	10440.000	491000.000	493300.000	65.993%	1283.000
2	23:09:25	49520.000	5556.000	0.000	10660.000	507900.000	507600.000	64.476%	1320.000
3	23:10:08	49830.000	5547.000	0.000	10700.000	504200.000	501000.000	64.013%	1301.000
x		49370.000	5500.000	0.000	10600.000	501000.000	500600.000	64.827%	1301.000
σ		552.000	90.470	0.000	140.700	8899.000	7183.000	1.036%	18.350
%RSD		1.118	1.645	0.000	1.327	1.776	1.435	1.598	1.410

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:08:42	150.700	126.400	3983.000	122600.000	125400.000	57.250	154.900	133.700
2	23:09:25	155.600	128.400	4054.000	123200.000	125600.000	57.410	156.900	133.200
3	23:10:08	154.100	129.300	4080.000	123800.000	125900.000	57.290	152.700	132.000
x		153.500	128.000	4039.000	123200.000	125600.000	57.320	154.800	133.000
σ		2.516	1.520	50.340	607.200	286.300	0.086	2.127	0.872
%RSD		1.639	1.187	1.246	0.493	0.228	0.150	1.374	0.656

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:08:42	134.300	314.000	315.100	41.830	1.721	1.398	0.000	632.800
2	23:09:25	133.200	314.800	310.700	40.470	1.880	3.091	0.000	640.800
3	23:10:08	132.400	310.400	314.700	39.250	1.292	2.019	0.000	644.900
x		133.300	313.100	313.500	40.520	1.631	2.170	0.000	639.500
σ		0.918	2.302	2.441	1.294	0.304	0.857	0.000	6.186
%RSD		0.689	0.735	0.779	3.193	18.640	39.480	0.000	0.967

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:08:42	0.000	24.640	24.020	57.473%	0.382	0.277	2.338	2.013
2	23:09:25	0.000	25.980	24.800	56.375%	0.388	0.295	2.630	2.059
3	23:10:08	0.000	25.240	24.770	56.417%	0.355	0.308	2.984	2.391
x		0.000	25.280	24.530	56.755%	0.375	0.293	2.651	2.154
σ		0.000	0.668	0.440	0.622%	0.018	0.016	0.324	0.206
%RSD		0.000	2.642	1.793	1.096	4.728	5.306	12.210	9.554

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:08:42	61.883%	1.874	0.322	0.234	385.900	381.300	63.276%	63.233%
2	23:09:25	61.219%	1.820	0.362	0.236	391.400	392.000	63.489%	63.859%
3	23:10:08	61.095%	1.681	0.345	0.320	393.100	395.700	63.723%	63.561%
x		61.399%	1.792	0.343	0.263	390.200	389.600	63.496%	63.551%
σ		0.424%	0.099	0.020	0.049	3.733	7.478	0.224%	0.313%
%RSD		0.691	5.548	5.865	18.760	0.957	1.919	0.352	0.493

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:08:42	2.297	2.441	85.250	80.940	82.120	49.366%
2	23:09:25	2.354	2.431	85.680	81.620	83.720	49.951%
3	23:10:08	2.381	2.444	85.340	81.530	83.670	50.473%
x		2.344	2.438	85.420	81.370	83.170	49.930%
σ		0.043	0.007	0.226	0.368	0.912	0.553%
%RSD		1.831	0.270	0.265	0.453	1.096	1.108

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:13:33	96.456%	1.830	5.023	5.164	0.000	476.500	38880.000	38730.000
2	23:14:16	93.103%	1.670	6.653	4.251	0.000	475.200	38710.000	38820.000
3	23:14:59	91.298%	1.654	3.353	4.193	0.000	473.300	38580.000	38950.000
x		93.619%	1.718	5.010	4.536	0.000	475.000	38720.000	38840.000
σ		2.617%	0.097	1.650	0.545	0.000	1.637	150.900	110.500
%RSD		2.796	5.668	32.930	12.010	0.000	0.345	0.390	0.284

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:13:33	37640.000	4288.000	0.000	3796.000	149000.000	150500.000	80.298%	1150.000
2	23:14:16	37960.000	4383.000	0.000	3800.000	148500.000	148700.000	78.093%	1131.000
3	23:14:59	37630.000	4295.000	0.000	3773.000	149400.000	149600.000	75.865%	1130.000
x		37740.000	4322.000	0.000	3790.000	148900.000	149600.000	78.085%	1137.000
σ		184.500	52.930	0.000	14.470	442.600	880.900	2.216%	11.230
%RSD		0.489	1.225	0.000	0.382	0.297	0.589	2.838	0.988

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:13:33	104.500	70.250	1747.000	73190.000	73590.000	29.420	83.350	77.780
2	23:14:16	104.400	71.530	1735.000	72420.000	72780.000	29.320	80.420	76.780
3	23:14:59	104.900	70.460	1740.000	72480.000	72760.000	28.540	78.440	75.560
x		104.600	70.750	1741.000	72700.000	73040.000	29.100	80.740	76.710
σ		0.236	0.684	6.051	426.100	473.500	0.481	2.473	1.109
%RSD		0.226	0.967	0.348	0.586	0.648	1.655	3.063	1.446

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:13:33	78.940	214.400	211.900	24.520	1.035	0.950	0.000	263.300
2	23:14:16	76.050	214.100	217.500	24.270	0.921	2.001	0.000	263.900
3	23:14:59	77.020	212.400	215.600	25.000	1.140	1.367	0.000	264.400
x		77.340	213.600	215.000	24.600	1.032	1.439	0.000	263.900
σ		1.470	1.081	2.839	0.367	0.109	0.529	0.000	0.566
%RSD		1.901	0.506	1.321	1.492	10.600	36.760	0.000	0.215

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:13:33	0.000	15.940	16.180	69.925%	0.193	0.130	1.713	1.553
2	23:14:16	0.000	16.430	16.060	68.505%	0.218	0.163	2.130	1.628
3	23:14:59	0.000	15.100	16.490	67.641%	0.194	0.167	1.813	1.588
x		0.000	15.820	16.240	68.690%	0.202	0.154	1.885	1.590
σ		0.000	0.673	0.224	1.153%	0.014	0.021	0.218	0.038
%RSD		0.000	4.253	1.379	1.679	7.015	13.440	11.550	2.389

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:13:33	70.050%	2.720	0.297	0.313	233.000	232.800	69.785%	69.547%
2	23:14:16	69.421%	2.540	0.318	0.282	233.500	232.000	69.028%	68.222%
3	23:14:59	68.956%	2.439	0.354	0.270	236.100	231.100	68.007%	68.371%
x		69.476%	2.567	0.323	0.288	234.200	232.000	68.940%	68.713%
σ		0.549%	0.142	0.029	0.022	1.654	0.877	0.892%	0.726%
%RSD		0.790	5.552	8.850	7.692	0.706	0.378	1.295	1.056

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:13:33	0.986	1.002	103.300	100.200	100.800	56.698%
2	23:14:16	1.042	1.078	104.800	101.500	101.900	56.217%
3	23:14:59	0.964	1.071	101.800	99.400	100.300	56.476%
x		0.997	1.050	103.300	100.400	101.000	56.464%
σ		0.040	0.042	1.483	1.049	0.822	0.241%
%RSD		3.996	4.001	1.435	1.045	0.814	0.427

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:18:24	74.948%	2.215	43.330	38.140	0.000	918.600	107100.000	107800.000
2	23:19:07	72.606%	2.674	37.860	39.050	0.000	934.500	107300.000	107700.000
3	23:19:50	73.331%	2.460	35.830	36.780	0.000	926.800	107300.000	106700.000
x		73.628%	2.449	39.010	37.990	0.000	926.700	107200.000	107400.000
σ		1.199%	0.230	3.879	1.140	0.000	7.940	93.670	620.300
%RSD		1.628	9.370	9.945	3.000	0.000	0.857	0.087	0.578

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:18:24	48580.000	5665.000	0.000	10490.000	469800.000	467500.000	64.346%	1226.000
2	23:19:07	48680.000	5497.000	0.000	10580.000	478500.000	474600.000	61.742%	1203.000
3	23:19:50	48040.000	5476.000	0.000	10550.000	468400.000	463700.000	61.552%	1211.000
x		48430.000	5546.000	0.000	10540.000	472200.000	468600.000	62.547%	1214.000
σ		346.400	103.800	0.000	48.290	5480.000	5535.000	1.561%	11.590
%RSD		0.715	1.871	0.000	0.458	1.160	1.181	2.496	0.955

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:18:24	137.800	96.600	2492.000	113300.000	114600.000	55.200	155.500	118.700
2	23:19:07	136.000	95.730	2535.000	114500.000	114300.000	55.590	152.100	120.000
3	23:19:50	134.100	94.910	2505.000	112900.000	114200.000	55.060	153.100	118.900
x		135.900	95.750	2511.000	113600.000	114300.000	55.280	153.500	119.200
σ		1.835	0.846	21.980	805.400	187.100	0.274	1.752	0.733
%RSD		1.350	0.883	0.875	0.709	0.164	0.496	1.141	0.615

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:18:24	120.800	289.700	294.600	38.350	1.713	2.090	0.000	573.300
2	23:19:07	121.300	294.500	295.000	38.960	1.199	2.384	0.000	585.000
3	23:19:50	120.200	295.300	294.300	38.050	1.595	2.405	0.000	586.200
x		120.800	293.200	294.600	38.450	1.502	2.293	0.000	581.500
σ		0.535	3.063	0.369	0.461	0.270	0.176	0.000	7.174
%RSD		0.443	1.045	0.125	1.199	17.940	7.689	0.000	1.234

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:18:24	0.000	25.870	26.300	55.373%	0.335	0.238	2.408	2.153
2	23:19:07	0.000	25.850	26.590	54.314%	0.330	0.212	2.730	2.439
3	23:19:50	0.000	25.800	26.130	54.147%	0.277	0.201	2.551	2.279
x		0.000	25.840	26.340	54.611%	0.314	0.217	2.563	2.290
σ		0.000	0.040	0.230	0.665%	0.032	0.019	0.161	0.143
%RSD		0.000	0.154	0.874	1.218	10.310	8.933	6.293	6.244

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:18:24	58.782%	1.641	0.263	0.291	379.900	374.100	60.525%	60.388%
2	23:19:07	58.398%	1.607	0.299	0.314	383.000	374.600	61.408%	60.533%
3	23:19:50	58.430%	1.683	0.253	0.283	382.000	375.300	60.960%	61.278%
x		58.537%	1.644	0.272	0.296	381.600	374.700	60.964%	60.733%
σ		0.213%	0.038	0.024	0.016	1.541	0.593	0.441%	0.477%
%RSD		0.364	2.320	8.850	5.373	0.404	0.158	0.724	0.786

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:18:24	2.312	2.285	65.750	62.590	63.890	47.104%
2	23:19:07	2.359	2.299	66.240	63.230	64.360	47.689%
3	23:19:50	2.430	2.301	66.330	63.790	64.350	47.996%
x		2.367	2.295	66.110	63.200	64.200	47.596%
σ		0.060	0.008	0.313	0.601	0.266	0.453%
%RSD		2.522	0.364	0.474	0.951	0.413	0.953

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:23:16	84.795%	1.758	21.190	22.090	0.000	678.300	72400.000	72670.000
2	23:23:59	79.856%	2.084	23.670	23.030	0.000	676.300	72130.000	72150.000
3	23:24:42	78.137%	1.906	24.510	23.150	0.000	679.300	72490.000	72950.000
x		80.929%	1.916	23.130	22.750	0.000	678.000	72340.000	72590.000
σ		3.456%	0.163	1.727	0.579	0.000	1.517	185.000	402.700
%RSD		4.271	8.499	7.465	2.545	0.000	0.224	0.256	0.555

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:23:16	40390.000	4653.000	0.000	7380.000	303500.000	303500.000	69.050%	1191.000
2	23:23:59	40130.000	4893.000	0.000	7255.000	302600.000	301200.000	66.449%	1194.000
3	23:24:42	40180.000	4926.000	0.000	7372.000	307900.000	307800.000	64.998%	1198.000
x		40230.000	4824.000	0.000	7336.000	304600.000	304100.000	66.832%	1194.000
σ		136.400	149.000	0.000	70.140	2819.000	3359.000	2.053%	3.922
%RSD		0.339	3.088	0.000	0.956	0.925	1.104	3.072	0.328

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:23:16	110.700	78.070	1927.000	87620.000	88190.000	42.930	115.000	103.100
2	23:23:59	112.100	78.730	1941.000	87110.000	87160.000	42.340	119.700	101.200
3	23:24:42	110.800	79.330	1971.000	89090.000	89820.000	42.340	115.600	102.900
x		111.200	78.710	1946.000	87940.000	88390.000	42.540	116.800	102.400
σ		0.769	0.629	22.690	1028.000	1341.000	0.339	2.548	1.049
%RSD		0.692	0.799	1.166	1.169	1.517	0.798	2.181	1.025

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:23:16	105.000	246.200	245.200	30.810	1.230	0.880	0.000	381.000
2	23:23:59	102.200	245.500	249.100	31.230	1.267	2.911	0.000	378.800
3	23:24:42	102.600	252.800	255.200	31.780	1.325	2.035	0.000	379.600
x		103.200	248.200	249.800	31.270	1.274	1.942	0.000	379.800
σ		1.529	4.065	5.025	0.487	0.048	1.019	0.000	1.105
%RSD		1.481	1.638	2.011	1.559	3.759	52.470	0.000	0.291

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:23:16	0.000	18.410	18.030	58.600%	0.322	0.265	3.030	2.777
2	23:23:59	0.000	18.400	18.910	57.577%	0.344	0.236	2.786	2.501
3	23:24:42	0.000	19.270	19.250	56.275%	0.322	0.305	2.751	2.612
x		0.000	18.690	18.730	57.484%	0.330	0.269	2.856	2.630
σ		0.000	0.498	0.628	1.165%	0.013	0.034	0.152	0.139
%RSD		0.000	2.663	3.352	2.027	3.876	12.750	5.317	5.274

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:23:16	60.038%	4.142	0.278	0.320	289.000	283.500	60.894%	60.476%
2	23:23:59	59.896%	3.675	0.354	0.268	286.100	282.600	61.031%	61.371%
3	23:24:42	59.379%	3.596	0.301	0.270	281.000	280.600	60.932%	60.147%
x		59.771%	3.804	0.311	0.286	285.400	282.200	60.952%	60.665%
σ		0.347%	0.295	0.039	0.029	4.071	1.509	0.071%	0.633%
%RSD		0.580	7.756	12.530	10.130	1.427	0.535	0.116	1.044

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:23:16	1.594	1.625	74.770	72.760	73.960	48.462%
2	23:23:59	1.695	1.648	75.570	73.550	74.070	48.042%
3	23:24:42	1.661	1.607	76.410	72.640	74.730	47.864%
x		1.650	1.627	75.590	72.980	74.250	48.123%
σ		0.052	0.021	0.820	0.495	0.415	0.307%
%RSD		3.143	1.284	1.085	0.678	0.559	0.638

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:08	93.044%	0.455	-6.148	-5.737	0.000	136.600	15410.000	15290.000
2	23:28:51	93.028%	0.530	-6.350	-5.800	0.000	137.600	15040.000	14950.000
3	23:29:34	90.201%	0.482	-5.802	-6.685	0.000	137.300	14520.000	14550.000
x		92.091%	0.489	-6.100	-6.074	0.000	137.200	14990.000	14930.000
σ		1.637%	0.038	0.277	0.530	0.000	0.526	449.500	372.500
%RSD		1.777	7.834	4.545	8.725	0.000	0.384	2.998	2.494

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:08	8530.000	1228.000	0.000	1440.000	60320.000	57340.000	81.951%	238.400
2	23:28:51	8308.000	1205.000	0.000	1435.000	59790.000	57350.000	80.567%	233.500
3	23:29:34	8170.000	1146.000	0.000	1429.000	59290.000	56290.000	79.766%	234.700
x		8336.000	1193.000	0.000	1435.000	59800.000	56990.000	80.761%	235.500
σ		181.700	42.440	0.000	5.719	512.600	610.000	1.105%	2.546
%RSD		2.179	3.558	0.000	0.399	0.857	1.070	1.368	1.081

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:08	21.450	15.590	382.100	17390.000	17390.000	8.118	25.620	21.230
2	23:28:51	21.940	15.750	377.900	17220.000	17380.000	8.018	23.800	21.540
3	23:29:34	21.070	15.260	371.600	16960.000	16850.000	7.973	23.470	20.860
x		21.490	15.530	377.200	17190.000	17200.000	8.036	24.300	21.210
σ		0.438	0.251	5.269	215.900	307.300	0.074	1.153	0.338
%RSD		2.037	1.613	1.397	1.256	1.787	0.926	4.747	1.595

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:08	22.660	54.350	53.240	6.169	0.511	-0.046	0.000	59.070
2	23:28:51	21.340	56.170	57.310	6.674	-0.036	-0.024	0.000	59.800
3	23:29:34	21.470	54.750	53.920	6.233	-0.141	-0.034	0.000	58.210
x		21.820	55.090	54.820	6.359	0.111	-0.035	0.000	59.020
σ		0.729	0.957	2.179	0.275	0.350	0.011	0.000	0.796
%RSD		3.341	1.737	3.974	4.320	314.000	32.880	0.000	1.348

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:08	91.420%	2.993	3.210	75.862%	0.051	0.062	0.983	0.786
2	23:28:51	92.412%	3.232	3.360	76.191%	0.080	0.035	0.459	0.501
3	23:29:34	94.121%	3.212	3.030	77.253%	0.060	0.041	0.486	0.502
x		92.651%	3.145	3.200	76.435%	0.064	0.046	0.643	0.596
σ		1.366%	0.133	0.165	0.727%	0.015	0.014	0.295	0.165
%RSD		1.475	4.216	5.152	0.951	23.420	31.240	45.900	27.620

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:08	74.442%	0.782	0.079	0.078	55.330	55.450	71.405%	71.731%
2	23:28:51	75.274%	0.814	0.042	0.059	55.220	55.910	73.431%	73.399%
3	23:29:34	76.173%	0.942	0.063	0.078	54.010	54.320	74.162%	74.325%
x		75.297%	0.846	0.061	0.072	54.850	55.230	72.999%	73.152%
σ		0.865%	0.084	0.019	0.011	0.729	0.818	1.429%	1.315%
%RSD		1.149	9.977	30.380	15.450	1.329	1.481	1.957	1.797

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:08	0.301	0.290	15.280	14.630	14.830	60.189%
2	23:28:51	0.307	0.316	15.480	15.160	15.180	60.974%
3	23:29:34	0.305	0.301	15.490	14.580	15.000	62.507%
x		0.304	0.302	15.420	14.790	15.000	61.223%
σ		0.003	0.013	0.121	0.324	0.174	1.179%
%RSD		0.950	4.387	0.786	2.193	1.161	1.926

240-23459-A-16-B MS 5/7/2013 11:32:17 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:33:00	74.948%	45.000	852.700	878.100	0.000	48040.000	59990.000	59800.000
2	23:33:43	74.734%	46.050	865.400	874.200	0.000	47190.000	59710.000	58760.000
3	23:34:26	76.134%	44.110	873.900	883.200	0.000	47640.000	59430.000	58800.000
x		75.272%	45.050	864.000	878.500	0.000	47630.000	59710.000	59120.000
σ		0.754%	0.973	10.660	4.532	0.000	425.100	278.100	585.800
%RSD		1.002	2.160	1.234	0.516	0.000	0.893	0.466	0.991

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:33:00	40270.000	12980.000	0.000	50180.000	73420.000	71100.000	68.839%	2616.000
2	23:33:43	39490.000	12250.000	0.000	50370.000	75790.000	71850.000	67.666%	2610.000
3	23:34:26	39330.000	12180.000	0.000	50780.000	75850.000	72310.000	67.318%	2646.000
x		39700.000	12470.000	0.000	50450.000	75020.000	71760.000	67.941%	2624.000
σ		505.700	445.900	0.000	304.000	1386.000	609.900	0.797%	19.210
%RSD		1.274	3.575	0.000	0.603	1.847	0.850	1.172	0.732

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:33:00	566.800	250.700	1630.000	48830.000	49240.000	496.100	537.400	312.900
2	23:33:43	568.200	248.800	1636.000	49090.000	49620.000	498.400	542.800	316.800
3	23:34:26	572.700	252.100	1650.000	49060.000	49490.000	496.900	541.400	315.200
x		569.200	250.600	1638.000	49000.000	49450.000	497.100	540.500	315.000
σ		3.079	1.678	10.340	140.700	194.200	1.204	2.806	1.946
%RSD		0.541	0.670	0.631	0.287	0.393	0.242	0.519	0.618

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:33:00	319.000	724.600	713.800	48.520	7.299	6.686	0.000	1013.000
2	23:33:43	319.800	722.900	715.900	48.520	6.253	8.360	0.000	1012.000
3	23:34:26	314.800	720.800	736.500	48.190	6.991	8.864	0.000	1013.000
x		317.900	722.700	722.100	48.410	6.848	7.970	0.000	1013.000
σ		2.685	1.911	12.540	0.189	0.537	1.140	0.000	0.594
%RSD		0.845	0.264	1.737	0.391	7.848	14.300	0.000	0.059

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:33:00	0.000	998.000	1004.000	57.855%	47.330	46.550	44.610	39.990
2	23:33:43	0.000	999.500	1014.000	57.725%	46.490	46.840	43.340	38.950
3	23:34:26	0.000	1009.000	1015.000	57.194%	46.570	47.270	45.250	39.700
x		0.000	1002.000	1011.000	57.591%	46.800	46.890	44.400	39.540
σ		0.000	6.036	6.324	0.350%	0.466	0.363	0.976	0.540
%RSD		0.000	0.602	0.625	0.608	0.995	0.774	2.198	1.365

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:33:00	58.948%	1646.000	350.100	351.600	2012.000	1972.000	60.437%	60.733%
2	23:33:43	58.492%	1665.000	348.300	350.000	1986.000	1968.000	60.683%	60.723%
3	23:34:26	58.264%	1677.000	351.100	352.900	2023.000	1986.000	60.167%	60.417%
x		58.568%	1662.000	349.800	351.500	2007.000	1975.000	60.429%	60.624%
σ		0.348%	15.700	1.442	1.464	19.040	9.648	0.258%	0.179%
%RSD		0.595	0.945	0.412	0.416	0.949	0.488	0.428	0.296

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:33:00	48.440	48.640	143.600	142.900	142.700	48.408%
2	23:33:43	48.390	48.360	141.500	142.800	141.800	49.039%
3	23:34:26	48.740	49.030	142.700	142.900	142.400	48.812%
x		48.520	48.680	142.600	142.900	142.300	48.753%
σ		0.192	0.335	1.017	0.080	0.431	0.320%
%RSD		0.395	0.688	0.713	0.056	0.303	0.656

240-23459-A-16-C MSD 5/7/2013 11:37:10 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:37:53	76.260%	43.680	851.600	866.700	0.000	46690.000	58880.000	58870.000
2	23:38:36	72.172%	45.390	863.300	868.300	0.000	46730.000	58870.000	58740.000
3	23:39:19	69.906%	44.940	879.300	889.000	0.000	46480.000	59270.000	59200.000
x		72.779%	44.670	864.700	874.600	0.000	46630.000	59010.000	58940.000
σ		3.220%	0.885	13.920	12.440	0.000	132.900	228.500	239.900
%RSD		4.425	1.982	1.609	1.422	0.000	0.285	0.387	0.407

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:37:53	39330.000	13240.000	0.000	50350.000	76460.000	70850.000	67.493%	2616.000
2	23:38:36	39430.000	12880.000	0.000	49830.000	74970.000	71110.000	66.218%	2586.000
3	23:39:19	39240.000	12570.000	0.000	50040.000	74610.000	71310.000	64.555%	2596.000
x		39330.000	12900.000	0.000	50080.000	75350.000	71090.000	66.089%	2599.000
σ		95.340	339.600	0.000	259.900	978.200	228.500	1.473%	14.990
%RSD		0.242	2.633	0.000	0.519	1.298	0.322	2.229	0.577

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:37:53	575.800	253.800	1652.000	49420.000	49480.000	498.600	539.100	322.600
2	23:38:36	562.900	248.700	1630.000	48940.000	49230.000	491.500	530.400	310.700
3	23:39:19	568.500	249.800	1635.000	48480.000	48360.000	483.500	526.700	310.400
x		569.000	250.700	1639.000	48940.000	49020.000	491.200	532.100	314.600
σ		6.461	2.696	11.410	470.200	587.300	7.565	6.374	6.934
%RSD		1.136	1.075	0.696	0.961	1.198	1.540	1.198	2.204

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:37:53	323.700	733.000	736.900	49.570	7.449	9.318	0.000	1001.000
2	23:38:36	315.200	725.900	723.600	48.460	7.653	8.059	0.000	1010.000
3	23:39:19	305.200	723.300	718.700	47.860	6.788	7.985	0.000	1003.000
x		314.700	727.400	726.400	48.630	7.297	8.454	0.000	1005.000
σ		9.253	5.017	9.407	0.869	0.452	0.749	0.000	4.713
%RSD		2.940	0.690	1.295	1.787	6.199	8.863	0.000	0.469

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:37:53	0.000	996.800	1012.000	57.695%	46.680	46.770	44.790	37.320
2	23:38:36	0.000	1010.000	1019.000	57.164%	46.410	46.810	45.500	39.490
3	23:39:19	0.000	1001.000	1011.000	56.881%	45.560	45.610	44.400	40.150
x		0.000	1003.000	1014.000	57.247%	46.220	46.400	44.900	38.990
σ		0.000	6.886	4.532	0.413%	0.586	0.683	0.553	1.484
%RSD		0.000	0.687	0.447	0.722	1.268	1.473	1.232	3.807

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:37:53	58.415%	1663.000	349.800	349.300	2001.000	1980.000	59.889%	60.289%
2	23:38:36	58.237%	1669.000	348.800	345.200	1985.000	1960.000	61.295%	61.314%
3	23:39:19	58.321%	1663.000	348.600	353.000	1962.000	1941.000	62.107%	61.909%
x		58.325%	1665.000	349.100	349.200	1983.000	1960.000	61.097%	61.171%
σ		0.089%	3.431	0.668	3.887	19.740	19.910	1.122%	0.820%
%RSD		0.152	0.206	0.191	1.113	0.996	1.016	1.837	1.340

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:37:53	48.360	48.010	141.400	141.700	141.600	48.968%
2	23:38:36	49.320	48.670	142.100	142.500	142.800	49.309%
3	23:39:19	48.360	48.200	143.100	141.900	141.800	50.539%
x		48.680	48.290	142.200	142.000	142.100	49.605%
σ		0.551	0.340	0.863	0.416	0.644	0.827%
%RSD		1.131	0.704	0.607	0.293	0.454	1.667

CCV 801624 5/7/2013 11:42:00 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:42:43	83.182%	105.700	96.990	98.930	0.000	48920.000	50070.000	50010.000
2	23:43:26	85.163%	100.600	89.680	93.160	0.000	47230.000	48950.000	49350.000
3	23:44:09	84.090%	103.100	91.120	97.450	0.000	48800.000	49040.000	49150.000
x		84.145%	103.134%	92.598%	96.512%	0.000	96.631%	98.707%	99.010%
σ		0.992%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.178	2.478	4.181	3.103	0.000	1.953	1.263	0.906

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:42:43	545.400	5253.000	0.000	49430.000	49400.000	46610.000	71.633%	103.500
2	23:43:26	533.600	5188.000	0.000	49010.000	49140.000	47060.000	70.289%	107.500
3	23:44:09	524.700	5182.000	0.000	49520.000	49330.000	46370.000	72.029%	109.500
x		106.915%	104.157%	0.000	98.640%	98.578%	93.356%	71.317%	106.840%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.912%	n/a
%RSD		1.941	0.760	0.000	0.552	0.280	0.744	1.279	2.835

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:42:43	101.900	101.100	492.700	25070.000	25170.000	103.900	109.600	110.000
2	23:43:26	100.700	100.600	495.100	25290.000	25080.000	103.800	107.100	109.200
3	23:44:09	101.000	98.760	491.200	25030.000	25110.000	102.700	106.700	107.400
x		101.191%	100.170%	98.598%	100.515%	100.481%	103.470%	107.799%	108.833%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.615	1.238	0.405	0.552	0.164	0.618	1.447	1.218

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:42:43	109.600	105.300	106.200	101.600	101.000	98.580	0.000	96.630
2	23:43:26	109.500	104.800	101.300	100.500	104.200	99.010	0.000	95.460
3	23:44:09	105.600	101.800	102.700	99.240	101.700	93.200	0.000	94.290
x		108.243%	103.970%	103.426%	100.437%	102.278%	96.927%	0.000	95.463%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		2.088	1.829	2.416	1.163	1.661	3.340	0.000	1.228

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:42:43	68.290%	106.800	109.200	61.943%	103.800	104.100	99.480	99.750
2	23:43:26	68.062%	105.900	109.800	61.915%	103.200	103.400	99.960	100.900
3	23:44:09	70.282%	107.000	110.300	63.701%	104.600	103.200	100.200	99.870
x		68.878%	106.559%	109.777%	62.520%	103.871%	103.533%	99.876%	100.180%
σ		1.221%	n/a	n/a	1.023%	n/a	n/a	n/a	n/a
%RSD		1.773	0.560	0.488	1.637	0.640	0.452	0.363	0.646

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:42:43	63.000%	105.700	98.190	100.300	102.100	100.800	63.280%	63.568%
2	23:43:26	62.539%	104.500	99.010	101.600	100.800	101.000	63.899%	64.288%
3	23:44:09	64.000%	106.000	100.500	100.700	100.800	99.260	64.951%	65.968%
x		63.180%	105.411%	99.226%	100.888%	101.260%	100.334%	64.044%	64.608%
σ		0.747%	n/a	n/a	n/a	n/a	n/a	0.845%	1.232%
%RSD		1.182	0.769	1.163	0.656	0.755	0.935	1.319	1.906

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:42:43	101.300	100.500	101.900	101.600	102.000	54.108%
2	23:43:26	99.240	99.800	100.400	100.300	101.000	54.899%
3	23:44:09	99.760	100.300	99.330	100.400	100.200	56.435%
x		100.099%	100.206%	100.560%	100.761%	101.077%	55.147%
σ		n/a	n/a	n/a	n/a	n/a	1.183%
%RSD		1.066	0.373	1.295	0.708	0.867	2.146

CCB9 5/7/2013 11:50:14 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:50:57	100.451%	0.050	-7.647	-7.543	0.000	23.720	28.680	28.610
2	23:51:40	100.249%	0.050	-7.347	-8.447	0.000	24.010	26.780	31.440
3	23:52:23	100.710%	0.038	-8.166	-9.044	0.000	24.080	30.090	30.980
x		100.470%	0.046	-7.720	-8.345	0.000	23.940	28.520	30.340
σ		0.231%	0.007	0.415	0.756	0.000	0.190	1.658	1.519
%RSD		0.230	14.690	5.371	9.056	0.000	0.794	5.814	5.006

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:50:57	7.431	2.908	0.000	12.790	38.810	38.040	89.918%	0.294
2	23:51:40	7.725	24.000	0.000	11.610	24.820	35.980	90.031%	-0.014
3	23:52:23	7.450	3.447	0.000	12.110	44.240	43.430	90.182%	0.190
x		7.535	10.120	0.000	12.170	35.950	39.150	90.043%	0.157
σ		0.165	12.020	0.000	0.592	10.020	3.848	0.132%	0.157
%RSD		2.183	118.800	0.000	4.867	27.880	9.829	0.147	100.000

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:50:57	0.106	0.078	0.598	25.350	19.890	0.082	0.047	0.126
2	23:51:40	0.070	0.024	0.553	25.710	22.270	0.087	0.219	0.087
3	23:52:23	0.076	0.048	0.595	25.210	23.840	0.077	0.128	0.079
x		0.084	0.050	0.582	25.420	22.000	0.082	0.131	0.097
σ		0.019	0.027	0.025	0.258	1.989	0.005	0.086	0.025
%RSD		22.960	54.970	4.338	1.015	9.039	5.974	65.530	25.790

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:50:57	0.143	0.153	0.317	0.262	0.019	0.352	0.000	0.145
2	23:51:40	0.098	0.417	0.149	0.008	-0.145	0.296	0.000	0.143
3	23:52:23	0.141	0.242	0.376	0.040	-0.041	-0.106	0.000	0.168
x		0.127	0.271	0.281	0.103	-0.056	0.181	0.000	0.152
σ		0.025	0.134	0.118	0.139	0.083	0.250	0.000	0.014
%RSD		19.750	49.530	41.960	134.300	148.500	138.300	0.000	9.343

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:50:57	83.217%	0.616	0.710	92.131%	0.036	0.031	0.098	0.084
2	23:51:40	84.881%	0.699	0.689	93.686%	0.057	0.032	0.182	0.165
3	23:52:23	84.626%	0.695	0.561	93.315%	0.035	0.037	0.058	0.075
x		84.241%	0.670	0.653	93.044%	0.043	0.033	0.113	0.108
σ		0.896%	0.047	0.081	0.812%	0.013	0.003	0.064	0.050
%RSD		1.064	6.963	12.380	0.873	29.840	9.846	56.660	45.920

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:50:57	86.480%	0.875	0.106	0.197	0.190	0.197	82.580%	83.309%
2	23:51:40	89.230%	0.911	0.101	0.117	0.090	0.246	86.298%	85.702%
3	23:52:23	88.601%	0.861	0.129	0.160	0.240	0.198	83.963%	84.514%
x		88.103%	0.882	0.112	0.158	0.173	0.214	84.280%	84.508%
σ		1.441%	0.026	0.015	0.040	0.076	0.028	1.880%	1.196%
%RSD		1.635	2.923	13.030	25.470	43.950	12.930	2.230	1.416

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:50:57	0.040	0.034	0.080	0.076	0.069	79.539%
2	23:51:40	0.037	0.042	0.081	0.062	0.061	87.416%
3	23:52:23	0.032	0.030	0.065	0.066	0.066	86.534%
x		0.036	0.036	0.075	0.068	0.065	84.497%
σ		0.004	0.006	0.009	0.007	0.004	4.316%
%RSD		10.070	17.630	11.860	10.850	5.783	5.108

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:55:48	103.442%	1.426	-4.126	-3.177	0.000	221.600	9371.000	9196.000
2	23:56:31	98.809%	1.078	-4.028	-4.098	0.000	213.700	9044.000	9072.000
3	23:57:14	91.252%	1.124	-3.090	-3.435	0.000	224.600	9261.000	9346.000
x		97.834%	1.209	-3.748	-3.570	0.000	220.000	9225.000	9204.000
σ		6.153%	0.189	0.572	0.475	0.000	5.602	166.300	137.300
%RSD		6.289	15.620	15.260	13.310	0.000	2.547	1.802	1.492
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:55:48	27900.000	3637.000	0.000	1552.000	15610.000	14870.000	84.923%	1158.000
2	23:56:31	27910.000	3692.000	0.000	1521.000	15470.000	14480.000	82.811%	1175.000
3	23:57:14	28710.000	3835.000	0.000	1548.000	15750.000	14700.000	81.197%	1144.000
x		28170.000	3722.000	0.000	1540.000	15610.000	14680.000	82.977%	1159.000
σ		463.200	102.300	0.000	16.830	137.800	196.300	1.868%	15.450
%RSD		1.644	2.747	0.000	1.093	0.883	1.337	2.252	1.333
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:55:48	70.850	52.870	983.600	47440.000	47260.000	20.410	53.620	37.810
2	23:56:31	71.020	51.350	984.900	47770.000	47490.000	20.200	55.110	38.140
3	23:57:14	70.800	51.310	984.100	47330.000	47520.000	20.410	53.990	37.210
x		70.890	51.840	984.200	47510.000	47420.000	20.340	54.240	37.720
σ		0.117	0.889	0.640	230.400	140.300	0.122	0.775	0.470
%RSD		0.166	1.715	0.065	0.485	0.296	0.598	1.429	1.246
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:55:48	38.010	121.500	118.800	16.000	0.398	1.008	0.000	39.450
2	23:56:31	38.380	117.400	116.300	14.860	0.609	0.537	0.000	39.870
3	23:57:14	37.690	121.400	118.100	15.010	0.321	0.262	0.000	39.660
x		38.030	120.100	117.700	15.290	0.443	0.602	0.000	39.660
σ		0.345	2.345	1.265	0.617	0.149	0.378	0.000	0.210
%RSD		0.909	1.952	1.075	4.031	33.630	62.690	0.000	0.530
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:55:48	0.000	6.484	6.497	73.687%	0.139	0.118	1.224	1.037
2	23:56:31	0.000	6.357	6.224	73.680%	0.150	0.086	1.175	0.910
3	23:57:14	0.000	6.643	6.648	73.447%	0.125	0.097	1.197	0.914
x		0.000	6.495	6.456	73.605%	0.138	0.100	1.199	0.954
σ		0.000	0.144	0.215	0.137%	0.012	0.016	0.025	0.072
%RSD		0.000	2.213	3.333	0.186	8.934	16.130	2.057	7.573
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:55:48	71.736%	6.941	0.312	0.307	121.500	122.200	68.918%	68.824%
2	23:56:31	71.515%	6.611	0.401	0.365	120.500	119.000	70.181%	70.585%
3	23:57:14	71.988%	6.435	0.349	0.333	120.100	118.300	71.555%	71.630%
x		71.746%	6.662	0.354	0.335	120.700	119.800	70.218%	70.346%
σ		0.237%	0.257	0.045	0.029	0.729	2.040	1.319%	1.418%
%RSD		0.330	3.855	12.740	8.668	0.603	1.702	1.878	2.016
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:55:48	0.461	0.418	33.860	32.110	32.660	59.419%		
2	23:56:31	0.455	0.423	34.000	32.870	32.810	59.978%		
3	23:57:14	0.430	0.416	34.060	32.210	32.790	61.284%		
x		0.449	0.419	33.970	32.400	32.750	60.227%		
σ		0.017	0.004	0.101	0.415	0.083	0.957%		
%RSD		3.682	0.863	0.298	1.283	0.252	1.589		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:38	94.527%	1.690	-5.261	-3.279	0.000	202.100	7244.000	7233.000
2	00:01:20	90.689%	1.604	-4.238	-4.331	0.000	206.200	7403.000	7319.000
3	00:02:04	89.808%	1.633	-5.478	-4.764	0.000	204.100	7314.000	7393.000
x		91.675%	1.643	-4.992	-4.125	0.000	204.200	7320.000	7315.000
σ		2.509%	0.044	0.662	0.764	0.000	2.071	79.970	79.780
%RSD		2.737	2.653	13.260	18.520	0.000	1.015	1.092	1.091

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:38	33320.000	4012.000	0.000	1652.000	9478.000	9256.000	81.509%	1481.000
2	00:01:20	33550.000	3973.000	0.000	1661.000	10140.000	9362.000	80.534%	1453.000
3	00:02:04	33730.000	3965.000	0.000	1664.000	9564.000	9206.000	79.810%	1452.000
x		33530.000	3983.000	0.000	1659.000	9729.000	9274.000	80.618%	1462.000
σ		207.700	25.300	0.000	5.989	362.800	79.660	0.852%	16.860
%RSD		0.619	0.635	0.000	0.361	3.729	0.859	1.057	1.154

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:38	112.300	60.000	981.600	73490.000	73310.000	20.890	50.650	52.480
2	00:01:20	113.000	59.580	980.400	73380.000	73100.000	20.330	48.280	51.890
3	00:02:04	111.700	60.100	999.000	74700.000	73810.000	20.580	49.390	51.920
x		112.300	59.890	987.000	73860.000	73410.000	20.600	49.440	52.100
σ		0.643	0.277	10.380	734.000	365.100	0.277	1.186	0.332
%RSD		0.572	0.462	1.052	0.994	0.497	1.346	2.398	0.637

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:38	50.950	106.500	106.400	26.950	0.772	0.810	0.000	30.580
2	00:01:20	51.090	106.000	105.600	26.950	0.874	1.570	0.000	30.520
3	00:02:04	51.630	106.500	105.500	27.160	0.916	1.511	0.000	30.930
x		51.220	106.300	105.800	27.020	0.854	1.297	0.000	30.680
σ		0.358	0.280	0.468	0.117	0.074	0.422	0.000	0.222
%RSD		0.700	0.263	0.443	0.435	8.682	32.570	0.000	0.722

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:38	0.000	8.575	8.698	72.158%	0.090	0.056	0.983	0.655
2	00:01:20	0.000	8.829	8.903	71.605%	0.118	0.039	1.026	0.802
3	00:02:04	0.000	8.808	8.747	71.390%	0.074	0.047	0.930	0.618
x		0.000	8.737	8.783	71.718%	0.094	0.047	0.980	0.692
σ		0.000	0.141	0.107	0.396%	0.022	0.009	0.048	0.098
%RSD		0.000	1.616	1.223	0.553	23.690	18.160	4.878	14.120

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:38	70.312%	4.392	0.316	0.248	112.100	111.800	70.830%	70.208%
2	00:01:20	70.083%	4.316	0.376	0.241	113.500	112.400	70.930%	71.075%
3	00:02:04	70.638%	4.387	0.309	0.236	113.100	112.400	71.100%	71.260%
x		70.344%	4.365	0.334	0.242	112.900	112.200	70.953%	70.848%
σ		0.279%	0.043	0.037	0.006	0.747	0.384	0.137%	0.562%
%RSD		0.396	0.977	11.030	2.527	0.662	0.342	0.192	0.793

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:38	0.413	0.405	36.890	33.670	35.360	59.856%
2	00:01:20	0.390	0.407	37.300	34.350	35.780	60.189%
3	00:02:04	0.422	0.386	37.010	34.550	35.330	60.241%
x		0.408	0.399	37.070	34.190	35.490	60.095%
σ		0.017	0.011	0.212	0.462	0.250	0.209%
%RSD		4.048	2.848	0.573	1.350	0.704	0.348

CCV 801624 5/8/2013 12:04:44 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:05:27	89.228%	105.900	76.710	80.740	0.000	48360.000	49110.000	49610.000
2	00:06:10	89.514%	98.420	79.320	78.460	0.000	47150.000	48100.000	47680.000
3	00:06:53	86.291%	99.650	81.300	81.970	0.000	48480.000	49110.000	48490.000
x		88.344%	101.325%	79.109%	80.389%	0.000	95.991%	97.549%	97.189%
σ		1.784%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		2.019	3.968	2.911	2.212	0.000	1.535	1.200	1.989

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:05:27	573.300	5363.000	0.000	50370.000	49660.000	47510.000	77.082%	110.000
2	00:06:10	543.600	5136.000	0.000	48860.000	47440.000	46740.000	73.864%	105.300
3	00:06:53	531.600	5147.000	0.000	49270.000	49000.000	46300.000	72.798%	107.400
x		109.899%	104.306%	0.000	98.995%	97.406%	93.701%	74.581%	107.543%
σ		n/a	n/a	0.000	n/a	n/a	n/a	2.230%	n/a
%RSD		3.901	2.462	0.000	1.577	2.342	1.301	2.990	2.172

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:05:27	103.300	104.000	496.900	25350.000	25590.000	106.300	110.100	111.300
2	00:06:10	100.600	100.000	491.500	25150.000	25170.000	104.100	107.700	107.900
3	00:06:53	102.400	101.500	493.300	24930.000	24930.000	102.300	105.400	106.800
x		102.104%	101.843%	98.778%	100.568%	100.925%	104.246%	107.728%	108.635%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.324	1.970	0.551	0.837	1.324	1.920	2.219	2.156

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:05:27	110.700	103.200	100.800	104.300	103.700	101.200	0.000	95.540
2	00:06:10	109.100	104.500	101.200	101.700	102.200	96.480	0.000	95.050
3	00:06:53	107.500	102.500	100.100	102.000	100.300	101.500	0.000	95.030
x		109.090%	103.364%	100.713%	102.681%	102.077%	99.743%	0.000	95.207%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.432	1.000	0.575	1.348	1.662	2.835	0.000	0.306

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:05:27	72.455%	104.700	105.900	66.487%	104.600	104.200	98.000	102.000
2	00:06:10	71.167%	105.200	108.100	64.154%	103.700	104.200	100.100	101.000
3	00:06:53	69.981%	106.600	109.500	63.570%	103.400	102.900	97.910	99.700
x		71.201%	105.490%	107.853%	64.737%	103.885%	103.770%	98.678%	100.913%
σ		1.238%	n/a	n/a	1.543%	n/a	n/a	n/a	n/a
%RSD		1.738	0.948	1.656	2.384	0.584	0.711	1.272	1.161

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:05:27	65.519%	100.000	98.380	99.450	99.370	100.800	65.965%	65.616%
2	00:06:10	63.910%	102.100	100.500	97.760	104.200	100.400	64.745%	65.164%
3	00:06:53	63.789%	101.900	98.850	100.200	100.800	99.950	64.939%	65.461%
x		64.406%	101.338%	99.250%	99.143%	101.432%	100.403%	65.216%	65.414%
σ		0.966%	n/a	n/a	n/a	n/a	n/a	0.656%	0.230%
%RSD		1.500	1.141	1.139	1.270	2.427	0.437	1.005	0.351

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:05:27	100.200	100.700	101.100	101.100	101.300	55.640%
2	00:06:10	100.900	100.500	100.800	100.400	101.100	54.992%
3	00:06:53	100.300	100.300	101.900	100.900	101.400	55.605%
x		100.476%	100.500%	101.304%	100.799%	101.287%	55.412%
σ		n/a	n/a	n/a	n/a	n/a	0.365%
%RSD		0.392	0.165	0.561	0.339	0.139	0.658

CCB10 5/8/2013 12:12:58 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:13:41	102.813%	0.060	-12.280	-12.290	0.000	12.580	19.680	17.870
2	00:14:24	105.719%	-0.019	-12.850	-13.280	0.000	17.790	24.890	23.980
3	00:15:07	101.138%	0.061	-12.750	-13.260	0.000	26.190	29.010	28.300
x		103.223%	0.034	-12.620	-12.950	0.000	18.850	24.520	23.380
σ		2.318%	0.046	0.303	0.568	0.000	6.866	4.674	5.239
%RSD		2.245	135.600	2.398	4.384	0.000	36.420	19.060	22.410

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:13:41	4.772	2.599	0.000	4.483	22.060	20.620	89.817%	0.055
2	00:14:24	6.294	3.207	0.000	5.874	35.400	29.700	91.101%	0.150
3	00:15:07	7.559	3.806	0.000	13.080	44.280	36.290	90.084%	0.190
x		6.208	3.204	0.000	7.811	33.910	28.870	90.334%	0.131
σ		1.395	0.603	0.000	4.612	11.190	7.865	0.678%	0.069
%RSD		22.470	18.830	0.000	59.050	32.990	27.240	0.750	52.620

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:13:41	0.074	0.050	0.392	18.260	18.930	0.042	0.036	0.062
2	00:14:24	0.084	0.031	0.443	24.340	22.060	0.059	0.115	0.048
3	00:15:07	0.033	0.007	0.643	27.060	26.250	0.069	0.056	0.085
x		0.064	0.029	0.493	23.220	22.410	0.056	0.069	0.065
σ		0.027	0.021	0.133	4.506	3.675	0.014	0.041	0.019
%RSD		41.870	72.130	27.040	19.410	16.400	24.110	59.150	29.370

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:13:41	0.064	0.227	0.178	-0.011	-0.066	-0.143	0.000	0.058
2	00:14:24	0.153	0.323	0.045	0.099	0.004	0.019	0.000	0.057
3	00:15:07	0.113	0.167	0.085	-0.118	0.304	-0.656	0.000	0.091
x		0.110	0.239	0.103	-0.010	0.081	-0.260	0.000	0.069
σ		0.045	0.079	0.068	0.108	0.196	0.353	0.000	0.019
%RSD		40.870	32.920	66.630	1080.000	242.300	135.500	0.000	27.760

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:13:41	86.139%	0.579	0.559	91.768%	0.021	0.007	0.059	0.056
2	00:14:24	87.413%	0.525	0.469	94.279%	0.025	0.017	0.186	0.133
3	00:15:07	86.859%	0.387	0.467	92.910%	0.035	0.041	0.151	0.115
x		86.804%	0.497	0.498	92.986%	0.027	0.021	0.132	0.101
σ		0.639%	0.099	0.052	1.257%	0.007	0.017	0.066	0.040
%RSD		0.736	19.900	10.540	1.352	26.940	80.920	49.940	39.870

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:13:41	86.323%	0.356	0.108	0.107	-0.017	0.086	82.536%	82.226%
2	00:14:24	88.066%	0.338	0.134	0.083	0.028	0.120	84.576%	84.890%
3	00:15:07	88.669%	0.363	0.084	0.127	0.101	0.120	84.673%	84.626%
x		87.686%	0.352	0.109	0.105	0.038	0.109	83.928%	83.914%
σ		1.218%	0.013	0.025	0.022	0.059	0.020	1.207%	1.468%
%RSD		1.389	3.708	23.100	20.720	157.500	18.020	1.438	1.749

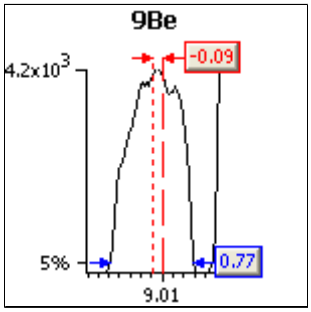
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:13:41	0.020	0.022	0.060	0.055	0.050	80.483%
2	00:14:24	0.020	0.033	0.060	0.053	0.058	79.573%
3	00:15:07	0.044	0.039	0.049	0.059	0.053	91.232%
x		0.028	0.031	0.056	0.056	0.053	83.763%
σ		0.014	0.008	0.006	0.003	0.004	6.485%
%RSD		48.980	27.010	11.590	5.971	7.696	7.742

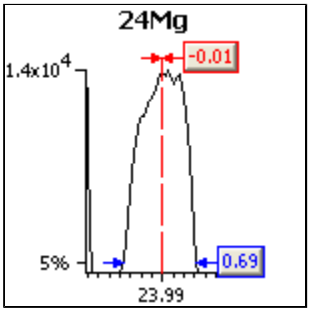
Performance Report

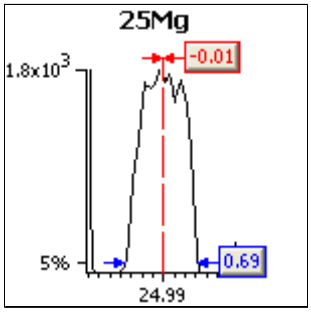
Sample details
Sample name : ITUNE
Acquired at : 5/7/2013 10:59:47 AM
Report name : EPA ILMO5.2/6020A 2.1 [3/15/2013 11:49:53 AM]

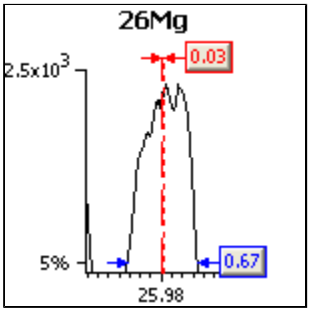
Mass Calibration verification

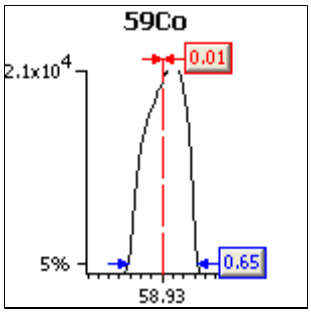
Acquisition parameters
Sweeps : 25
Dwell : 2.0 mSecs
Point spacing : 0.02 amu
Peak width measured at 5% of the peak maximum

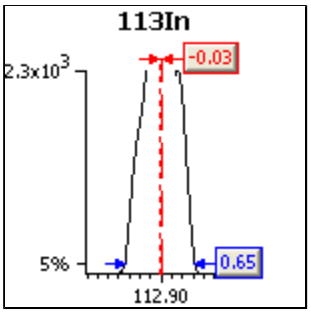


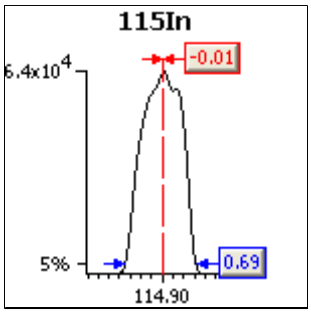


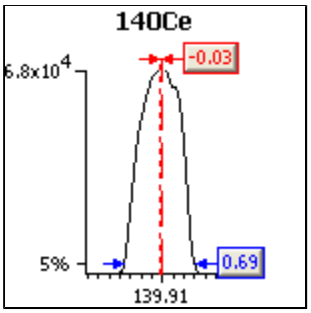


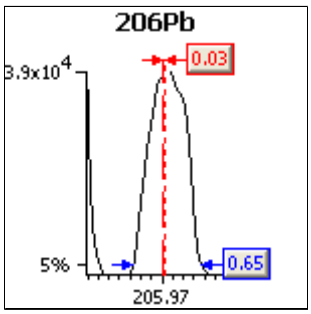


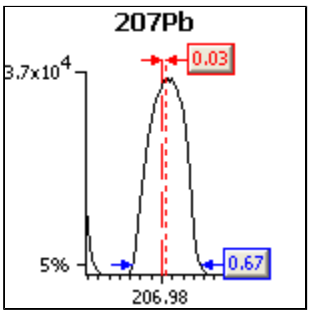


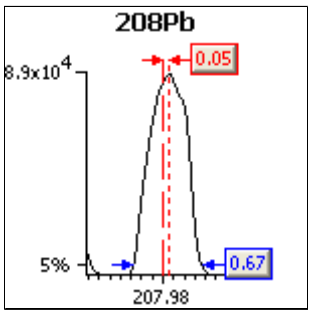












Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
9Be	0.90	0.45	0.10	0.77	-0.09
24Mg	0.90	0.45	0.10	0.69	-0.01
25Mg	0.90	0.45	0.10	0.69	-0.01
26Mg	0.90	0.45	0.10	0.67	0.03
59Co	0.90	0.45	0.10	0.65	0.01
113In	0.90	0.45	0.10	0.65	-0.03
115In	0.90	0.45	0.10	0.69	-0.01
140Ce	0.90	0.45	0.10	0.69	-0.03
206Pb	0.90	0.45	0.10	0.65	0.03
207Pb	0.90	0.45	0.10	0.67	0.03
208Pb	0.90	0.45	0.10	0.67	0.05

Sample details
Sample name : ITUNE
Acquired at : 5/7/2013 10:59:47 AM
Report name : EPA ILMO5.2/6020A 2.1 [3/15/2013 11:49:53 AM]

Tune conditions

Major	
Extraction	-176
Lens 1	1.2
Focus	22.0
D1	-40.0
Pole Bias	3.0
Hexapole Bias	-3.0
Nebuliser	0.87
Sampling Depth	150

Minor	
Lens 2	-24.3
Lens 3	-156.1
Forward power	1302
Horizontal	72
Vertical	539
D2	-160
DA	-80.0
Cool	18.0
Auxiliary	0.90

Global	
Standard resolution	n/a
High resolution	n/a
Analogue Detector	n/a
PC Detector	n/a

Add. Gases	
He/H2	0.00
He/NH3	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 150

Run	Time	5Bkg	9Be	24Mg	25Mg	26Mg	56Ar O	59Co	137Ba++
Dwell (mSecs)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Limits	%RSD	-	5.0%	5.0%	5.0%	5.0%	-	5.0%	-
	Countrate	-	>500	>500	>500	>500	-	>5000	-
1	11:00:35 AM	0	3928	13792	1773	2095	49652	20475	0
2	11:02:00 AM	0	4136	13874	1739	2031	49057	20631	0
3	11:03:25 AM	0	4035	13985	1757	2059	49877	20480	0
4	11:04:51 AM	0	3997	13387	1796	2083	49233	20600	0
5	11:06:16 AM	0	4001	13269	1665	1970	48417	20081	0
x		0	4019	13662	1746	2047	49247	20453	0
σ		0.09	75.87	314.73	49.97	49.69	567.12	219.78	0.00
%RSD		108.653	1.888	2.304	2.862	2.427	1.152	1.075	0.000

Run	Time	138Ba++	101Bkg	113In	115In	138Ba	140Ce	156Ce O	206Pb
Dwell (mSecs)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Limits	%RSD	-	-	5.0%	5.0%	-	5.0%	-	5.0%
	Countrate	-	-	>200	>5000	-	>10000	-	>500
1	11:00:35 AM	4	0	2684	64404	347	69096	2323	36371
2	11:02:00 AM	2	0	2698	64381	340	68832	2267	36495
3	11:03:25 AM	2	0	2719	64355	310	68361	2273	36526
4	11:04:51 AM	2	0	2702	64519	317	69276	2122	37007
5	11:06:16 AM	4	0	2688	64730	293	69319	2208	37601
x		3	0	2698	64478	321	68977	2239	36800
σ		1.19	0.05	13.72	154.22	21.90	394.15	76.79	509.15
%RSD		41.853	70.711	0.509	0.239	6.813	0.571	3.430	1.384

Run	Time	207Pb	208Pb	220Bkg
Dwell (mSecs)		0.0	0.0	0.0
Limits	%RSD	5.0%	5.0%	-
	Countrate	>500	>500	<2500
1	11:00:35 AM	33876	79636	0
2	11:02:00 AM	33940	80050	0
3	11:03:25 AM	33498	79482	0
4	11:04:51 AM	34141	80388	0
5	11:06:16 AM	34241	81004	0
x		33939	80112	0
σ		287.61	612.46	0.06
%RSD		0.847	0.765	104.583

Ratio results

Run	Time	156Ce O/140Ce
Ratio limits		<0.0500
1	11:00:35 AM	0
2	11:02:00 AM	0

3	11:03:25 AM	0
4	11:04:51 AM	0
5	11:06:16 AM	0
x		0.0325
σ		0.00
%RSD		3.7410

Result : The performance report passed.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Batch Number: 82367 Batch Start Date: 04/17/13 14:55 Batch Analyst: Elshaw, Dale

Batch Method: 7471A Batch End Date: 04/17/13 15:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAQUAREGIA 00494	MTHGCALW 00356	MTKMN04W 00042	
MB 240-82367/1		7471A, 7471/DOD		0.60 g	100 mL	5 mL		15 mL	
LCS 240-82367/2		7471A, 7471/DOD		0.60 g	100 mL	5 mL	5 mL	15 mL	
240-22756-C-9	079SD-0308-0001-SO	7471A, 7471/DOD	T	0.56 g	100 mL	5 mL		15 mL	

Batch Notes	
Balance ID	b039
Blank Soil Lot Number	g228-2i025
Pipette ID	383364-383366-383389
Digestion Tube/Cup Lot #	122612

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Batch Number: 82640 Batch Start Date: 04/19/13 08:15 Batch Analyst: Sutherland, Aaron

Batch Method: 7471A Batch End Date: 04/19/13 08:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAQUAREGIA 00496	MTHGCALW 00358	MTHgStd 00009	MTKMN04W 00043
ICV 240-82640/7		7471A, 7471/DOD		100 mL	100 mL	5 mL		0.25 mL	15 mL
ICB 240-82640/8		7471A, 7471/DOD		100 mL	100 mL	5 mL			15 mL
CRA 240-82640/9		7471A, 7471/DOD		100 mL	100 mL	5 mL	0.2 mL		15 mL
CCV 240-82640/10		7471A, 7471/DOD		100 mL	100 mL	5 mL	5 mL		15 mL
CCB 240-82640/11		7471A, 7471/DOD		100 mL	100 mL	5 mL			15 mL

Batch Notes	
Pipette ID	383366-383364-383389
Digestion Tube/Cup Lot #	122612

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 240-22756-1

SDG No.:

Batch Number: 69392 Batch Start Date: 04/17/13 12:20 Batch Analyst: Haluck, Caitlyn

Batch Method: 3050B Batch End Date: 04/17/13 14:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MTAPITTICPMS 00014	MTAPITTMSA 00014	MTAPITTMSC 00020
MB 180-69392/1		3050B, 6020/DOD		NO %SOLIDS FOUND	00001.00 g	100 mL			
LCS 180-69392/2		3050B, 6020/DOD		NO %SOLIDS FOUND	00001.05 g	100 mL	1 mL	1 mL	1 mL
240-22756-B-9	079SD-0308-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.02 g	100 mL			

Batch Notes	
Analyst	CH
Balance ID	P1856710
Batch Comment	METALS A7
Blank Soil Lot Number	783730
First End time	1420
Filter Paper Lot Number	6326666B
Hydrogen peroxide lot number	10ML 781344
Logbook ID for diluted Nitric	10ML 785050
Lot # of Nitric Acid	5ML 790266
Hot Block ID number	#10
Nominal Amount Used	1.0 g
Oven, Bath or Block Temperature 1	96 Degrees C
Pipette ID	L1201611U
Person's name who witnessed reagent drop	CH
Perform Calculation (0=No, 1=Yes)	1
First Start time	1220
Temperature	96 Degrees C
ID number of the thermometer	IP9 (0.0) A4
Digestion Tube/Cup Lot #	MH21KK06
Uncorrected Temperature	96 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-22756-1

SDG No.:

Project: RVAAP - ECC

Client Sample ID	Lab Sample ID
074SB-0001-0001,0002-SO	240-22756-1
074SB-0002-0001-SO	240-22756-2
074SB-0003-0001-SO	240-22756-3
074SB-0005-0001-SO	240-22756-4
074SB-0006-0001-SO	240-22756-5
074SB-0007-0001-SO	240-22756-6
074SB-0008-0001-SO	240-22756-7
074SB-0009-0001-SO	240-22756-8
079SD-0308-0001-SO	240-22756-9
074SB-0016-0001-SO	240-22756-10
074SB-0017-0001-SO	240-22756-11
074SB-0018-0001-SO	240-22756-12
074SB-0019-0001-SO	240-22756-13
074SB-0020-0001-SO	240-22756-14
074SB-0021-0001-SO	240-22756-15

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-22756-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture LOQ Date: 01/28/2010 09:24

Analyte	Wavelength/ Mass	LOQ (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-22756-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 01/28/2010 09:24

Analyte	Wavelength/ Mass	XRL (mg/L)	
Percent Moisture		10	
Percent Solids		10	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/04/2013 10:37 End Date: 04/04/2013 10:37

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			10:37																					
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240-22756-1	1	T	10:37	X	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/04/2013 10:37 End Date: 04/04/2013 10:37

Lab Sample ID	D / F	Type	Time	Analytes																			
				% Sol	Moist																		
240-22756-1 DU	1	T	10:37	X	X																		
240-22756-2	1	T	10:37	X	X																		
240-22756-3	1	T	10:37	X	X																		
240-22756-3 DU	1	T	10:37	X	X																		
240-22756-4	1	T	10:37	X	X																		
240-22756-5	1	T	10:37	X	X																		
240-22756-6	1	T	10:37	X	X																		
240-22756-7	1	T	10:37	X	X																		
240-22756-8	1	T	10:37	X	X																		
240-22756-9	1	T	10:37	X	X																		
240-22756-10	1	T	10:37	X	X																		
240-22756-11	1	T	10:37	X	X																		
240-22756-12	1	T	10:37	X	X																		
240-22756-13	1	T	10:37	X	X																		
240-22756-14	1	T	10:37	X	X																		
240-22756-15	1	T	10:37	X	X																		
ZZZZZZ			10:37																				
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/04/2013 10:37 End Date: 04/04/2013 10:37

Lab Sample ID	D / F	Type	Time	Analytes																			
				% Sol	Moist																		
ZZZZZZ			10:37																				
ZZZZZZ			10:37																				
ZZZZZZ			10:37																				
ZZZZZZ			10:37																				

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Batch Number: 80579 Batch Start Date: 04/04/13 10:37 Batch Analyst: Stiller, Jennifer

Batch Method: Moisture Batch End Date: 04/05/13 10:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
240-22756-A-1	074SB-0001-0001, 0002-SO	Moisture	T	4.4306 g	23.8534 g	21.2231 g			
240-22756-B-1 DU	074SB-0001-0001, 0002-SO	Moisture	T	4.4306 g	22.6118 g	19.8785 g			
240-22756-A-2	074SB-0002-0001-SO	Moisture	T	4.4306 g	19.4337 g	17.3298 g			
240-22756-A-3	074SB-0003-0001-SO	Moisture	T	4.4306 g	9.5148 g	8.7740 g			
240-22756-A-3 DU	074SB-0003-0001-SO	Moisture	T	4.4306 g	11.7114 g	10.6466 g			
240-22756-A-4	074SB-0005-0001-SO	Moisture	T	4.4306 g	21.2849 g	17.5465 g			
240-22756-D-5	074SB-0006-0001-SO	Moisture	T	4.4306 g	10.5721 g	9.4973 g			
240-22756-A-6	074SB-0007-0001-SO	Moisture	T	4.4306 g	18.3775 g	16.4070 g			
240-22756-A-7	074SB-0008-0001-SO	Moisture	T	4.4306 g	19.9266 g	17.2497 g			
240-22756-A-8	074SB-0009-0001-SO	Moisture	T	4.4306 g	19.1641 g	16.9693 g			
240-22756-A-9	079SD-0308-0001-SO	Moisture	T	4.4306 g	12.2668 g	10.4251 g			
240-22756-A-10	074SB-0016-0001-SO	Moisture	T	4.4306 g	27.7169 g	22.7291 g			
240-22756-A-11	074SB-0017-0001-SO	Moisture	T	4.4306 g	17.7156 g	13.7165 g			
240-22756-A-12	074SB-0018-0001-SO	Moisture	T	4.4306 g	16.9442 g	15.0528 g			
240-22756-A-13	074SB-0019-0001-SO	Moisture	T	4.4306 g	22.4649 g	20.0242 g			
240-22756-A-14	074SB-0020-0001-SO	Moisture	T	4.4306 g	21.5927 g	18.8915 g			
240-22756-A-15	074SB-0021-0001-SO	Moisture	T	4.4306 g	23.0859 g	18.5972 g			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22756-1

SDG No.:

Batch Number: 80579 Batch Start Date: 04/04/13 10:37 Batch Analyst: Stiller, Jennifer

Batch Method: Moisture Batch End Date: 04/05/13 10:00

Batch Notes	
Balance ID	B047 No Unit
Date samples were placed in the oven	4-4-13
Oven Temp when samples are put in oven	103.5 Degrees C
Time samples were place in the oven	11:00am
Date samples were removed from oven	4-5-13
Oven Temp when samples removed from oven	104.1 Degrees C
Time Samples were removed from oven	5:05
Oven ID	002
ID number of the thermometer	TEMPGUARD BOX C #6

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Subcontract Data

Shipping and Receiving Documents

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0408)

Client: ECC	Project Manager: A. Easterday	Date: 4/2/13	Chain of Custody Number: 008873
Address: 33 Boston Post Rd W. #420	Telephone Number (Area Code)/Fax Number: (609) 229-2270	Lab Number: Mark Lobb	Page 1 of 2
City: Marlborough / State: MA / Zip Code: 01752	Site Contact: J. Donovan	Lab Contact: Mark Lobb	
Project Name and Location (State): Ravenna - OH	Carrier/Waybill Number: LAB Pick up		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	MeOH	Analysis: SVOCs	TPH/DRO	VOC	pesticides	PCB	Explosives	Pharmaceuticals	TAL Metals	Special Instructions/ Conditions of Receipt
D74SB-0001-0001-SO	4/2/13	0842				X	X							X	X							
-0001-0002-SO		0842												X	X							MS/MSD
-0002-0001-SO		0950												X	X							
-0003-0001-SO		0950												X	X							
-0005-0001-SO		0918												X	X							
-0006-0001-SO		1013						X					X	X	X	X	X	X	X	X		FULL SUITE + DRO
-0007-0001-SO		1133												X	X							
-0008-0001-SO		1201												X	X							
-0009-0001-SO		1238												X	X							
~~-0010-0001-SO~~																						
~~-0011-0001-SO~~																						
~~-0012-0001-SO~~																						

240-22756 Chain of Custody

Page 1490 of 1495

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other STANDARD

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	4-2-13	1638	1. Received By: [signature]	4-2-13	1638
2. Relinquished By: [signature]	4-2-13	1731	2. Received By: [signature]	4-3-13	815
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: *WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy*

Chain of Custody Record

4-2-13

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact			
Company Name: ECC	Client Project Manager: A. FASTRDAY	Site Contact: J. DONOVAN	Lab Contact: MARK LOBB
Address: 33 BOSTON POST RD	Telephone:	Telephone:	Telephone:
City/State/Zip: MARLBORO MA	Email:	Analysis Turnaround Time (in BUS days)	
Phone:		TAT if different from below: STANDARD	
Project Name: RAVENNA	Method of Shipment/Carrier: LAB PICK UP	☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day	
Project Number:	Shipping/Tracking No:		

COC No: 049135
2 of 2 COCs

For lab use only
Walk-in client ☐
Lab pickup ☐
Lab sampling ☐
Job/SDG No:

PO #	Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	Analyses: TAL METALS	SVOCs	TPH/DRO	VOC	Sample Specific Notes / Special Instructions:
	0795D-0308-0001-SO	4-2-13	1000			X								X				X				DISCRETE
	074SB-0016-0001-SO		0945																X	X		
	-0017-		0912																X	X		
	-0018-		1008																X	X		
	-0019-		1159																X	X		
	-0020-		1245																X	X		
	-0021-		1250																X	X		
	074SB -0022-0001-TB	4-2-13	0800		X						X										X	TRIP BLK

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	ECC	4-2-13	[signature] (I.D.)	TAL-NC	4-3-13-1635
[signature] (I.D.)	TAL-NC	4-2-13-1731	[signature]	TA	4-3-13 8:00
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

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TAL 0018- 1 (04/10)

TestAmerica Canton Sample Receipt Form/Narrative Login # : 22756

Client ECC Site Name _____ By: Derek A. Klein

Cooler Received on 4-2-13 Opened on 4-3-13 (Signature)

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 1 (CF 0°C)	Observed Sample Temp. ____ °C	Corrected Sample Temp. ____ °C	
IR GUN# 4G (CF +1°C)	Observed Sample Temp. 3.4 °C	Corrected Sample Temp. 4.4 °C	☐ Multiple on Back
IR GUN# 5G (CF +1 °C)	Observed Sample Temp. ____ °C	Corrected Sample Temp. ____ °C	
IR GUN# 8 (CF +1°C)	Observed Sample Temp. ____ °C	Corrected Sample Temp. ____ °C	

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 0 Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were custody seals on the bottle(s)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Did all bottles arrive in good condition (Unbroken)? Yes No
7. Could all bottle labels be reconciled with the COC? Yes No
8. Were correct bottle(s) used for the test(s) indicated? Yes No
9. Sufficient quantity received to perform indicated analyses? Yes No
10. Were sample(s) at the correct pH upon receipt? Yes No NA
11. Were VOAs on the COC? Yes No
12. Were air bubbles >6 mm in any VOA vials? Yes No NA
13. Was a trip blank present in the cooler(s)? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s).

Nitric Acid Lot# 031512-HNO3; Sulfuric Acid Lot# 051012-H2SO4; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH3COO)2ZN/NaOH.

What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials
	pH Strip Lot# HC256691		

Livengood, Chris

From: Loeb, Mark
Sent: Wednesday, April 03, 2013 10:30 AM
To: North Canton - Receiving
Subject: FW: Cancel full suite analysis on sample, just do SVOC and DRO

ECC samples in funky jars.. cancel the full suite on sample 074SB-0006-0001-SO... see below and include this email with the COC please.

MJL

MARK J. LOEB
Project Manager
Tel 330.966.9387 | Fax 330.497.0772

From: Jeff Donovan [mailto:JDonovan@ecc.net]
Sent: Wednesday, April 03, 2013 10:20 AM
To: Loeb, Mark
Cc: Jackson Kiker
Subject: Cancel full suite analysis on sample, just do SVOC and DRO

Hi Mark, per our conversation, please analyze sample 074SB-0006-0001-SO coll 4-2-13 at 1013 for SVOCs and TPH DRO only, cancel the full suite analysis as indicated on COC 8873 due to not enough sample material. We will designate another boring today as the full suite location.
Thanks
Jeff

Jeff Donovan
Senior Environmental Scientist
ECC
33 Boston Post Road West-Suite 420
Marlborough, MA 01752
Tel: (508) 229-2270 ext. 22123
Cell:(508) 509-1784
Fax:(508) 229-7737

Login Sample Receipt Checklist

Client: Environmental Chemical Corp.

Job Number: 240-22756-1

Login Number: 22756
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh
List Creation: 04/05/13 01:15 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	