TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 240-21987-1

Job Description: RVAAP - ECC

For:
Environmental Chemical Corp.
33 Boston Post Road West
Suite 40
Marlborough, MA 01752

Attention: Mr. Al Easterday

Approved for release.
Mark J Loeb
Project Manager II
4/4/2013 5:44 PM

Mark J Loeb
Project Manager II
mark.loeb@testamericainc.com
04/04/2013

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.

TestAmerica Laboratories, Inc.
TestAmerica Canton 4101 Shuffel Street NW, North Canton, OH 44720
Tel (330) 497-9396 Fax (330) 497-0772 www.testamericainc.com

Table of Contents

Cover Title Page 1

Data Summaries 9

- Report Narrative 9
- Manual Integration Summary 13
- Sample Summary 29
- Executive Summary 30
- Method Summary 31
- Method / Analyst Summary 32
- Sample Datasheets 33
- Surrogate Summary 51
- QC Data Summary 64
- Data Qualifiers 108
- QC Association Summary 110
- Lab Chronicle 115
- Reagent Traceability 121
  - COAs 252
- Certification Summary 417

Organic Sample Data 419

- GC/MS VOA 419
  - Method 8260B DOD 419
    - Method 8260B DOD QC Summary 420
    - Method 8260B DOD Sample Data 431
    - Standards Data 443
      - Method 8260B DOD ICAL Data 443
      - Method 8260B DOD CCAL Data 477
    - Raw QC Data 501

Table of Contents

Method 8260B DOD Tune Data 501

Method 8260B DOD Blank Data 507

Method 8260B DOD LCS/LCSD Data 514

Method 8260B DOD MS/MSD Data 532

Method 8260B DOD Run Logs 544

GC/MS Semi VOA 546

Method 8270C DOD 546

Method 8270C DOD QC Summary 547

Method 8270C DOD Sample Data 560

Standards Data 568

Method 8270C DOD ICAL Data 568

Method 8270C DOD CCAL Data 625

Raw QC Data 645

Method 8270C DOD Tune Data 645

Method 8270C DOD Blank Data 661

Method 8270C DOD LCS/LCSD Data 671

Method 8270C DOD Run Logs 696

Method 8270C DOD Prep Data 698

GC VOA 699

Method 8015B GRO DOD 699

Method 8015B GRO DOD QC Summary 700

Method 8015B GRO DOD Sample Data 709

Standards Data 717

Method 8015B GRO DOD ICAL Data 717

Method 8015B GRO DOD CCAL Data 732

Raw QC Data 748

Table of Contents

Method 8015B GRO DOD Blank Data 748

Method 8015B GRO DOD LCS/LCSD Data 752

Method 8015B GRO DOD MS/MSD Data 761

Method 8015B GRO DOD Run Logs 767

GC Semi VOA 769

Method 8015B - DRO DOD 769

Method 8015B - DRO DOD QC Summary 770

Method 8015B - DRO DOD Sample Data 775

Standards Data 778

Method 8015B - DRO DOD ICAL Data 778

Method 8015B - DRO DOD CCAL Data 791

Raw QC Data 803

Method 8015B - DRO DOD LCS/LCSD Data 803

Method 8015B - DRO DOD Run Logs 811

Method 8015B - DRO DOD Prep Data 813

Method 8081 DOD 814

Method 8081 DOD QC Summary 815

Method 8081 DOD Sample Data 823

Standards Data 834

Method 8081 DOD ICAL Data 834

Method 8081 DOD PEM Data 926

Method 8081 DOD CCAL Data 938

Raw QC Data 1002

Method 8081 DOD Blank Data 1002

Method 8081 DOD LCS/LCSD Data 1012

Method 8081 DOD Run Logs 1046

Table of Contents

Method 8081 DOD Prep Data 1048

Method 8082 DOD 1049

Method 8082 DOD QC Summary 1050

Method 8082 DOD Sample Data 1059

Standards Data 1069

Method 8082 DOD ICAL Data 1069

Method 8082 DOD CCAL Data 1240

Raw QC Data 1319

Method 8082 DOD Blank Data 1319

Method 8082 DOD LCS/LCSD Data 1329

Method 8082 DOD Run Logs 1352

Method 8082 DOD Prep Data 1356

Method 8151 DOD 1357

Method 8151 DOD QC Summary 1358

Method 8151 DOD Sample Data 1365

Standards Data 1373

Method 8151 DOD ICAL Data 1373

Method 8151 DOD CCAL Data 1446

Raw QC Data 1482

Method 8151 DOD Blank Data 1482

Method 8151 DOD LCS/LCSD Data 1490

Method 8151 DOD Run Logs 1516

Method 8151 DOD Prep Data 1518

HPLC/IC 1519

Method 8330 Nitroguanidine 1519

Method 8330 Nitroguanidine QC Summary 1520

Table of Contents

Method 8330 Nitroguanidine Sample Data 1525

Standards Data 1531

Method 8330 Nitroguanidine ICAL Data 1531

Method 8330 Nitroguanidine CCAL Data 1561

Raw QC Data 1616

Method 8330 Nitroguanidine Blank Data 1616

Method 8330 Nitroguanidine LCS/LCSD Data 1622

Method 8330 Nitroguanidine MS/MSD Data 1625

Method 8330 Nitroguanidine Run Logs 1631

Method 8330 Nitroguanidine Prep Data 1635

Method 8330B 1636

Method 8330B QC Summary 1637

Method 8330B Sample Data 1642

Standards Data 1646

Method 8330B ICAL Data 1646

Method 8330B CCAL Data 1675

Raw QC Data 1709

Method 8330B Blank Data 1709

Method 8330B LCS/LCSD Data 1712

Method 8330B Run Logs 1716

Method 8330B Prep Data 1718

Inorganic Sample Data 1719

Metals Data 1719

Met Cover Page 1720

Met Sample Data 1722

Met QC Data 1724

Table of Contents

Met ICV/CCV 1724

Met CRQL 1727

Met Blanks 1730

Met ICSA/ICSAB 1732

Met MS/MSD/PDS 1734

Met LCS/LCSD 1735

Met Serial Dilution 1737

Met MDL 1738

Met Linear Ranges 1742

Met Preparation Log 1744

Met Analysis Run Log 1746

Met ICP/MS Int Stds 1757

Met Raw Data 1759

Met Prep Data 1867

General Chemistry Data 1870

Gen Chem Cover Page 1871

Gen Chem Sample Data 1873

Gen Chem QC Data 1875

Gen Chem ICV/CCV 1875

Gen Chem Blanks 1877

Gen Chem MS/MSD/PDS 1879

Gen Chem Duplicates 1883

Gen Chem LCS/LCSD 1884

Gen Chem MDL 1887

Gen Chem Linear Ranges 1891

Gen Chem Preparation Log 1892

Table of Contents

Gen Chem Analysis Run Log 1893

Gen Chem Raw Data 1897

Gen Chem Prep Data 1906

Subcontracted Data 1911

Shipping and Receiving Documents 1912

Client Chain of Custody 1913

Sample Receipt Checklist 1916

CASE NARRATIVE

Client: Environmental Chemical Corp.

Project: RVAAP - ECC

Report Number: 240-21987-1

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.

The 353.2 Nitrocellulose, 8330 Nitroguanidine, and 8330B Explosives analysis were performed at the TestAmerica Sacramento Laboratory. The 6020 Metals analysis was performed at the TestAmerica Pittsburgh Laboratory.

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.

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 03/14/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.4 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples 079-0007-0001-SOURCEWATER (240-21987-1) and 079-0008-0001-TB TRIP BLANK (240-21987-2) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B DoD. The samples were analyzed on 03/28/2013.

Methylene Chloride was detected in method blank MB 240-79725/6 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. Refer to the QC report for details.

2-Butanone (MEK), 4-Methyl-2-pentanone (MIBK), Acetone and Bromoform failed the recovery criteria low for MRL 240-79725/14. Chloromethane, Methylene Chloride and Vinyl chloride failed the recovery criteria high. 2-Butanone (MEK) failed the recovery criteria low for MRL 240-79725/5. Carbon tetrachloride and Methylene Chloride failed the recovery criteria high. Refer to the QC report for details.

The continuing calibration verification (CCV) for Carbon tetrachloride associated with batch 79725 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.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample 079-0007-0001-SOURCEWATER (240-21987-1) was analyzed for semivolatile organic compounds (GC-MS) in accordance with

EPA SW-846 Method 8270C. The samples were prepared on 03/15/2013 and analyzed on 03/28/2013.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Bis(2-ethylhexyl) phthalate was detected in method blank MB 240-78456/17-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. Refer to the QC report for details.

The independent calibration (ICV) associated with DOD job 21987 exceeded control criteria for several analytes. This standard has many acid analytes recovered between 70-80%; below the 80% acceptance limit. Because the laboratory is currently transitioning to different standard sources a new (more compliant) independent second is not yet available. The data have been qualified and reported.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 78456, 8270.

No other difficulties were encountered during the SVOCs analysis. All other quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS (GRO)

Samples 079-0007-0001-SOURCEWATER (240-21987-1) and 079-0009-0001-TB TRIP BLANK (240-21987-3) were analyzed for gasoline range organics (GRO) in accordance with EPA SW-846 Method 8015B - GRO DoD. The samples were analyzed on 03/23/2013.

C6-C12 was detected in method blank MB 240-79100/38 at a level exceeding the reporting limit. 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.

Trifluorotoluene (Surr) failed the surrogate recovery criteria low for MRL 240-79100/45. Refer to the QC report for details.

C6-C12 failed the recovery criteria high for MRL 240-79100/37. C6-C12 failed the recovery criteria high for MRL 240-79100/45. Refer to the QC report for details.

The method reporting limit (MRL) for C6-C12 associated with batch 79100 recovered above the upper control limit. The samples associated with this MRL were non-detects for the affected analytes; therefore, the data have been reported.079-0007-0001-SOURCEWATER (240-21987-1), 079-0009-0001-TB TRIP BLANK (240-21987-3).

The Total Petroleum Hydrocarbon - Gasoline Range Organics (TPH GRO) analysis is performed using a Gas Chromatography Flame Ionization Detector (GC FID). The FID measures electrical current generated as carbon containing compounds are burned. An FID is considered a non-selective detector. The TPH GRO method measures any signals generated over a specific carbon range. Standard ranges are C6-C10 or C6-C12 dependent on client/regulatory requirements. Quantitation is based on the summation of peak areas within a carbon range. Because the FID is non-selective, any carbon compound that elutes within the carbon range is included in the quantitation. It is not uncommon to have a low level detection as estimated values due to the non-specificity of the FID Detector.

No other difficulties were encountered during the GRO analyses. All other quality control parameters were within the acceptance limits.

NITROGUANIDINE (HPLC)

Sample 079-0007-0001-SOURCEWATER (240-21987-1) was analyzed for nitroguanidine (HPLC) in accordance with EPA SW-846 Method 8330_Ngu. The samples were prepared on 03/19/2013 and analyzed on 03/21/2013 and 03/22/2013.

No difficulties were encountered during the explosives analysis. All quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS (DRO)

Sample 079-0007-0001-SOURCEWATER (240-21987-1) was analyzed for diesel range organics (DRO) in accordance with EPA SW-846 Method 8015B - DRO DoD. The samples were prepared on 03/18/2013 and analyzed on 03/21/2013.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 78624, 8015.

No other difficulties were encountered during the DRO analysis. All quality control parameters were within the acceptance limits.

CHLORINATED PESTICIDES

Sample 079-0007-0001-SOURCEWATER (240-21987-1) was analyzed for chlorinated pesticides in accordance with EPA SW-846 Method 8081A DoD. The samples were prepared on 03/19/2013 and analyzed on 03/21/2013.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 78726, 8081.

The continuing calibration verification (CCV) and method reporting limit standard (MRL) for methoxychlor associated with batch 79056 recovered above the upper control limit on the primary column. The confirmation column met criteria and the samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other difficulties were encountered during the pesticides analysis. All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Sample 079-0007-0001-SOURCEWATER (240-21987-1) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082 DOD. The samples were prepared on 03/19/2013 and analyzed on 03/27/2013.

This method incorporates the use of second column confirmation. Corrective action for unacceptable percent recovery is not taken for surrogate or spike compounds unless the results from both columns are outside criteria. Any results which fall outside criteria are qualified and reported.

The confirmation column opening CCV and MRL for this sample failed high. Since the sample was ND no corrective action is required.

No other difficulties were encountered during the PCBs analysis. All quality control parameters were within the acceptance limits.

CHLORINATED HERBICIDES

Sample 079-0007-0001-SOURCEWATER (240-21987-1) was analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A DoD. The samples were prepared on 03/18/2013 and analyzed on 03/22/2013.

2,4,5-T and Dichlorprop failed the recovery criteria high for LCS 240-78626/4-A. Refer to the QC report for details.

The opening and closing MRL failed low for MCPA and MCPP. The low bias of the standard is due to the quadratic curve used to calibrate for these two compounds.

The laboratory control sample (LCS) for batch prep 78626 exceeded control limits for the following analytes: Dichloroprop and 2,4,5-T. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. (LCS 240-78626/4-A).

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 78626. 8151.

No other difficulties were encountered during the herbicides analysis. All other quality control parameters were within the acceptance limits.

NITROAROMATICS AND NITRAMINES (HPLC)

Sample 079-0007-0001-SOURCEWATER (240-21987-1) was analyzed for Nitroaromatics and Nitramines (HPLC) in accordance with EPA SW-846 Method 8330B. The samples were prepared on 03/19/2013 and analyzed on 03/21/2013.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 320-12565.

No other difficulties were encountered during the explosives analysis. All quality control parameters were within the acceptance limits.

TOTAL RECOVERABLE METALS (ICPMS)

Sample 079-0007-0001-SOURCEWATER (240-21987-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020 DoD. The samples were prepared on 03/18/2013 and analyzed on 04/01/2013.

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 180-66565/1-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.

The interference check standard solution (ICSA) associated with batch 66565 showed results for one or more elements at a level greater than the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution.

The method blank associated with batch 66565 contained sodium greater than one-half the reporting limit (RL). All associated samples had sodium conentrations > 10x the method blank concentration.

No other difficulties were encountered during the metals analysis. All other quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM

Sample 079-0007-0001-SOURCEWATER (240-21987-1) was analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were analyzed on 03/14/2013.

No difficulties were encountered during the hexavalent chromium analysis. All quality control parameters were within the acceptance limits.

TOTAL MERCURY - DOD

Sample 079-0007-0001-SOURCEWATER (240-21987-1) was analyzed for Total Mercury - DOD in accordance with EPA SW-846 Method 7470A. The samples were prepared on 03/15/2013 and analyzed on 03/18/2013.

No difficulties were encountered during the mercury analysis. All quality control parameters were within the acceptance limits.

NITROCELLULOSE

Sample 079-0007-0001-SOURCEWATER (240-21987-1) was analyzed for Nitrocellulose in accordance with EPA Method 353.2. The samples were prepared and analyzed on 03/25/2013.

No difficulties were encountered during the Nitrocellulose analysis. All quality control parameters were within the acceptance limits.

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: A4HP7 Analysis Batch Number: 79445

Lab Sample ID: STD5 240-79445/2 IC Client Sample ID:

Date Analyzed: 03/26/13 09:55 Lab File ID: 30326002.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.36	Poor Chromatography	gruberj	03/26/13 10:52

Lab Sample ID: STD4 240-79445/3 IC Client Sample ID:

Date Analyzed: 03/26/13 10:18 Lab File ID: 30326003.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.36	Poor Chromatography	gruberj	03/26/13 10:54

Lab Sample ID: STD3 240-79445/4 IC Client Sample ID:

Date Analyzed: 03/26/13 10:42 Lab File ID: 30326004.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.35	Poor Chromatography	gruberj	03/26/13 11:11

Lab Sample ID: STD2 240-79445/5 IC Client Sample ID:

Date Analyzed: 03/26/13 11:06 Lab File ID: 30326005.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.36	Poor Chromatography	gruberj	03/26/13 11:29
Pyridine	2.88	Poor Chromatography	gruberj	03/26/13 11:29
Ethyl methacrylate	3.56	Poor Chromatography	gruberj	03/26/13 11:29

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: A4HP7 Analysis Batch Number: 79445

Lab Sample ID: STD1 240-79445/6 IC Client Sample ID:

Date Analyzed: 03/26/13 11:30 Lab File ID: 30326006.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	16.17	Poor Chromatography	gruberj	03/26/13 12:47
Dibenz(a,h)anthracene	16.20	Poor Chromatography	gruberj	03/26/13 12:47
Benzo[g,h,i]perylene	16.63	Poor Chromatography	gruberj	03/26/13 12:47

Lab Sample ID: STD9 240-79445/7 IC Client Sample ID:

Date Analyzed: 03/26/13 11:53 Lab File ID: 30326007.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.36	Poor Chromatography	gruberj	03/26/13 12:49

Lab Sample ID: STD8 240-79445/8 IC Client Sample ID:

Date Analyzed: 03/26/13 12:17 Lab File ID: 30326008.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.36	Poor Chromatography	gruberj	03/26/13 12:50

Lab Sample ID: ICV 240-79445/12 Client Sample ID:

Date Analyzed: 03/26/13 13:52 Lab File ID: 30326012.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.36	Poor Chromatography	gruberj	03/26/13 14:21

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: A4HP7 Analysis Batch Number: 79745

Lab Sample ID: CCV 240-79745/2 Client Sample ID:

Date Analyzed: 03/28/13 11:18 Lab File ID: 30328002.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.32	Poor Chromatography	gruberj	03/28/13 12:28

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 78295

Lab Sample ID: STD 240-78295/15 ICRT Client Sample ID:

Date Analyzed: 03/14/13 15:00 Lab File ID: P3031415.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
alpha-Chlordane	7.70	Baseline Event	shockr	03/14/13 15:41

Lab Sample ID: STD 240-78295/20 IC Client Sample ID:

Date Analyzed: 03/14/13 16:40 Lab File ID: P3031420.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.39	Baseline Event	shockr	03/15/13 07:29
Toxaphene Peak 2	10.73	Baseline Event	shockr	03/15/13 07:29
Toxaphene Peak 3	10.88	Baseline Event	shockr	03/15/13 07:29
Toxaphene Peak 4	11.29	Baseline Event	shockr	03/15/13 07:29
Toxaphene Peak 5	11.56	Baseline Event	shockr	03/15/13 07:29

Lab Sample ID: STD 240-78295/20 IC Client Sample ID:

Date Analyzed: 03/14/13 16:40 Lab File ID: P3031420.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.53	Baseline Event	shockr	03/15/13 07:29
Toxaphene Peak 2	11.12	Baseline Event	shockr	03/15/13 07:29
Toxaphene Peak 3	11.53	Baseline Event	shockr	03/15/13 07:29
Toxaphene Peak 4	12.28	Unspecified	shockr	03/15/13 07:34
Toxaphene Peak 5	12.84	Unspecified	shockr	03/15/13 07:34

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 78295

Lab Sample ID: STD 240-78295/21 IC Client Sample ID:

Date Analyzed: 03/14/13 17:00 Lab File ID: P3031421.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.39	Baseline Event	shockr	03/15/13 07:33
Toxaphene Peak 2	10.73	Baseline Event	shockr	03/15/13 07:33
Toxaphene Peak 3	10.88	Baseline Event	shockr	03/15/13 07:33
Toxaphene Peak 4	11.29	Baseline Event	shockr	03/15/13 07:33
Toxaphene Peak 5	11.56	Baseline Event	shockr	03/15/13 07:33

Lab Sample ID: STD 240-78295/22 IC Client Sample ID:

Date Analyzed: 03/14/13 17:20 Lab File ID: P3031422.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.39	Baseline Event	shockr	03/15/13 07:28
Toxaphene Peak 2	10.73	Baseline Event	shockr	03/15/13 07:28
Toxaphene Peak 3	10.88	Baseline Event	shockr	03/15/13 07:28
Toxaphene Peak 4	11.29	Baseline Event	shockr	03/15/13 07:28
Toxaphene Peak 5	11.56	Baseline Event	shockr	03/15/13 07:28

Lab Sample ID: STD 240-78295/22 IC Client Sample ID:

Date Analyzed: 03/14/13 17:20 Lab File ID: P3031422.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.53	Baseline Event	shockr	03/15/13 07:28
Toxaphene Peak 2	11.12	Baseline Event	shockr	03/15/13 07:28
Toxaphene Peak 3	11.54	Baseline Event	shockr	03/15/13 07:28
Toxaphene Peak 4	12.28	Unspecified	shockr	03/15/13 07:33
Toxaphene Peak 5	12.84	Unspecified	shockr	03/15/13 07:33

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 78295

Lab Sample ID: STD 240-78295/24 IC Client Sample ID:

Date Analyzed: 03/14/13 18:00 Lab File ID: P3031424.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.39	Baseline Event	shockr	03/15/13 07:28
Toxaphene Peak 2	10.73	Baseline Event	shockr	03/15/13 07:28
Toxaphene Peak 3	10.88	Baseline Event	shockr	03/15/13 07:28
Toxaphene Peak 4	11.29	Baseline Event	shockr	03/15/13 07:28
Toxaphene Peak 5	11.56	Baseline Event	shockr	03/15/13 07:28

Lab Sample ID: STD 240-78295/24 IC Client Sample ID:

Date Analyzed: 03/14/13 18:00 Lab File ID: P3031424.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.53	Baseline Event	shockr	03/15/13 07:28
Toxaphene Peak 2	11.12	Baseline Event	shockr	03/15/13 07:28
Toxaphene Peak 3	11.53	Baseline Event	shockr	03/15/13 07:28
Toxaphene Peak 4	12.28	Unspecified	shockr	03/15/13 07:34
Toxaphene Peak 5	12.84	Unspecified	shockr	03/15/13 07:34

Lab Sample ID: ICV 240-78295/25 Client Sample ID:

Date Analyzed: 03/14/13 18:20 Lab File ID: P3031425.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.39	Split Peak	shockr	03/15/13 07:45
Toxaphene Peak 2	10.73	Baseline Event	shockr	03/15/13 07:29
Toxaphene Peak 3	10.88	Baseline Event	shockr	03/15/13 07:29
Toxaphene Peak 4	11.29	Baseline Event	shockr	03/15/13 07:29
Toxaphene Peak 5	11.56	Baseline Event	shockr	03/15/13 07:29

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 78295

Lab Sample ID: ICV 240-78295/25 Client Sample ID:

Date Analyzed: 03/14/13 18:20 Lab File ID: P3031425.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.53	Baseline Event	shockr	03/15/13 07:29
Toxaphene Peak 2	11.12	Baseline Event	shockr	03/15/13 07:29
Toxaphene Peak 3	11.54	Baseline Event	shockr	03/15/13 07:29
Toxaphene Peak 4	12.84	Baseline Event	shockr	03/15/13 07:29
Toxaphene Peak 5	13.12	Baseline Event	shockr	03/15/13 07:29

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 79056

Lab Sample ID: PEM 240-79056/4 Client Sample ID:

Date Analyzed: 03/21/13 15:36 Lab File ID: P3032104.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4,4'-DDE	8.03	Baseline Event	vandorenc	03/22/13 06:56

Lab Sample ID: PEM 240-79056/4 Client Sample ID:

Date Analyzed: 03/21/13 15:36 Lab File ID: P3032104.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4,4'-DDE	9.94	Baseline Event	vandorenc	03/22/13 06:56
Endrin aldehyde	11.54	Baseline Event	vandorenc	03/22/13 06:56

Lab Sample ID: CCV 240-79056/6 Client Sample ID:

Date Analyzed: 03/21/13 16:16 Lab File ID: P3032106.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.54	Baseline Event	vandorenc	03/22/13 06:57
Toxaphene Peak 2	11.12	Baseline Event	vandorenc	03/22/13 06:57
Toxaphene Peak 3	11.54	Baseline Event	vandorenc	03/22/13 06:57
Toxaphene Peak 4	12.28	Baseline Event	vandorenc	03/22/13 06:57
Toxaphene Peak 5	12.84	Baseline Event	vandorenc	03/22/13 06:57

Lab Sample ID: 240-21987-1 Client Sample ID: 079-0007-0001-SOURCEWATER

Date Analyzed: 03/21/13 17:36 Lab File ID: P3032110.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
DCB Decachlorobiphenyl	12.93	Baseline Event	vandorenc	03/22/13 07:05

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 79056

Lab Sample ID: CCV 240-79056/12 Client Sample ID:

Date Analyzed: 03/21/13 18:16 Lab File ID: P3032112.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.54	Baseline Event	vandorenc	03/22/13 07:08
Toxaphene Peak 2	11.12	Baseline Event	vandorenc	03/22/13 07:08
Toxaphene Peak 3	11.54	Baseline Event	vandorenc	03/22/13 07:08
Toxaphene Peak 4	12.28	Baseline Event	vandorenc	03/22/13 07:08
Toxaphene Peak 5	12.84	Baseline Event	vandorenc	03/22/13 07:08

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: A2HP4 Analysis Batch Number: 72953

Lab Sample ID: STD05 240-72953/12 IC Client Sample ID:

Date Analyzed: 01/23/13 13:43 Lab File ID: P4000012.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	1.54	Baseline Event	hassl	01/24/13 07:36
PCB-1242 Peak 2	1.82	Baseline Event	hassl	01/24/13 07:36
PCB-1242 Peak 3	2.21	Baseline Event	hassl	01/24/13 07:36
PCB-1242 Peak 4	2.33	Baseline Event	hassl	01/24/13 07:36
PCB-1242 Peak 5	2.71	Baseline Event	hassl	01/24/13 07:36

Lab Sample ID: STD005 240-72953/21 IC Client Sample ID:

Date Analyzed: 01/23/13 16:05 Lab File ID: P4000021.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221 Peak 1	1.95	Baseline Event	hassl	01/24/13 07:42
PCB-1221 Peak 2	2.08	Baseline Event	hassl	01/24/13 07:42
PCB-1221 Peak 3	2.13	Baseline Event	hassl	01/24/13 07:42

Lab Sample ID: STD01 240-72953/22 IC Client Sample ID:

Date Analyzed: 01/23/13 16:21 Lab File ID: P4000022.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221 Peak 1	1.40	Split Peak	hassl	01/24/13 07:40
PCB-1221 Peak 2	1.51	Split Peak	hassl	01/24/13 07:40
PCB-1221 Peak 3	1.54	Split Peak	hassl	01/24/13 07:40

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: A2HP4 Analysis Batch Number: 72953

Lab Sample ID: STD01 240-72953/22 IC Client Sample ID:

Date Analyzed: 01/23/13 16:21 Lab File ID: P4000022.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221 Peak 1	1.95	Split Peak	hassl	01/24/13 07:40
PCB-1221 Peak 2	2.08	Split Peak	hassl	01/24/13 07:40
PCB-1221 Peak 3	2.13	Split Peak	hassl	01/24/13 07:40

Lab Sample ID: STD1 240-72953/31 IC Client Sample ID:

Date Analyzed: 01/23/13 18:42 Lab File ID: P4000031.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	1.54	Baseline Event	hassl	01/24/13 07:43
PCB-1016 Peak 2	1.82	Baseline Event	hassl	01/24/13 07:43
PCB-1016 Peak 3	2.21	Baseline Event	hassl	01/24/13 07:43
PCB-1016 Peak 4	2.33	Baseline Event	hassl	01/24/13 07:43
PCB-1016 Peak 5	2.71	Baseline Event	hassl	01/24/13 07:43

Lab Sample ID: ICV 240-72953/48 Client Sample ID:

Date Analyzed: 01/23/13 23:09 Lab File ID: P4000048.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1248 Peak 1	1.82	Baseline Event	hassl	01/24/13 07:45
PCB-1248 Peak 2	2.21	Baseline Event	hassl	01/24/13 07:45
PCB-1248 Peak 3	2.71	Baseline Event	hassl	01/24/13 07:45
PCB-1248 Peak 4	3.29	Baseline Event	hassl	01/24/13 07:45
PCB-1248 Peak 5	3.72	Baseline Event	hassl	01/24/13 07:45

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: A2HP1 Analysis Batch Number: 79197

Lab Sample ID: STD2 240-79197/7 IC Client Sample ID:

Date Analyzed: 03/22/13 17:50 Lab File ID: P1000007.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-D	8.06	Baseline Event	bolgrind	03/25/13 10:53

Lab Sample ID: MRL 240-79197/13 Client Sample ID:

Date Analyzed: 03/22/13 20:11 Lab File ID: P1000013.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dinoseb	11.29	Baseline Event	bolgrind	03/27/13 11:13

Lab Sample ID: MRL 240-79197/20 Client Sample ID:

Date Analyzed: 03/22/13 22:54 Lab File ID: P1000020.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-DB	10.95	Baseline Event	bolgrind	03/27/13 11:13

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-21987-1

SDG No.:

Instrument ID: PDA1 Analysis Batch Number: 12714

Lab Sample ID: CCVL 320-12714/18 Client Sample ID:

Date Analyzed: 03/21/13 14:30 Lab File ID: 320-0003395-018-1.d GC Column: Luna NH2 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroguanidine	4.25	Baseline	noonanr	03/21/13 15:15

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-21987-1

SDG No.:

Instrument ID: PDA1 Analysis Batch Number: 12878

Lab Sample ID: LODV 320-12878/3 Client Sample ID:

Date Analyzed: 03/22/13 14:31 Lab File ID: 320-0003448-003-1.d GC Column: Hydro RP80A 4 ID: 4(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroguanidine	4.47	Baseline	shafern	03/26/13 06:18

Lab Sample ID: CCVL 320-12878/5 Client Sample ID:

Date Analyzed: 03/22/13 15:12 Lab File ID: 320-0003448-005-1.d GC Column: Hydro RP80A 4 ID: 4(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroguanidine	4.49	Baseline	shafern	03/26/13 06:18

8330 Modified

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-21987-1

SDG No.:

Instrument ID: LC10 Analysis Batch Number: 8413

Lab Sample ID: LODV 320-8413/13 Client Sample ID:

Date Analyzed: 01/09/13 18:30 Lab File ID: I000014.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Nitrotoluene	26.15	Incomplete Integration	noonanr	01/10/13 07:20
PETN	28.44	Split Peak	noonanr	01/10/13 07:20

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-21987-1

SDG No.:

Instrument ID: LC10 Analysis Batch Number: 12703

Lab Sample ID: CCVL 320-12703/4 Client Sample ID:

Date Analyzed: 03/21/13 12:11 Lab File ID: U000004.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene	22.67	Peak not integrated	noonanr	03/21/13 13:16
4-Nitrotoluene	24.34	Incomplete Integration	noonanr	03/21/13 13:16

Lab Sample ID: 240-21987-1 Client Sample ID: 079-0007-0001-SOURCEWATER

Date Analyzed: 03/21/13 14:11 Lab File ID: U000007.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3,4-Dinitrotoluene	16.78	Incomplete Integration	noonanr	03/21/13 15:28

SAMPLE SUMMARY

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-21987-1	079-0007-0001-SOURCEWATER	Water	03/14/2013 1200	03/14/2013 1620
240-21987-2TB	079-0008-0001-TB TRIP BLANK	Water	03/14/2013 0800	03/14/2013 1620
240-21987-3TB	079-0009-0001-TB TRIP BLANK	Water	03/14/2013 0800	03/14/2013 1620

EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-21987-1	**079-0007-0001-SOURCEWATER**					
Bis(2-ethylhexyl) phthalate		0.91	J	2.0	ug/L	8270C/DoD
C6-C12		74	J B	100	ug/L	8015B_GRO/DOD
Dalapon		0.55	J	2.0	ug/L	8151/DOD
Total Recoverable						
Arsenic		0.48	J	1.0	ug/L	6020/DOD
Barium		41	Q	10	ug/L	6020/DOD
Calcium		65000		100	ug/L	6020/DOD
Chromium		1.3	J	2.0	ug/L	6020/DOD
Cobalt		0.054	J Q	0.50	ug/L	6020/DOD
Copper		1.4	J Q	2.0	ug/L	6020/DOD
Iron		590		50	ug/L	6020/DOD
Magnesium		27000		100	ug/L	6020/DOD
Manganese		94	Q	5.0	ug/L	6020/DOD
Sodium		37000	B	100	ug/L	6020/DOD
Thallium		0.11	J	1.0	ug/L	6020/DOD
Zinc		5.1	Q	5.0	ug/L	6020/DOD
Potassium		2500		100	ug/L	6020/DOD
240-21987-2TB	**079-0008-0001-TB TRIP BLANK**					
Chloroform		0.31	J	1.0	ug/L	8260B/DoD
240-21987-3TB	**079-0009-0001-TB TRIP BLANK**					
C6-C12		81	J B	100	ug/L	8015B_GRO/DOD

METHOD SUMMARY

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CAN	SW846 8260B/DoD	
Purge and Trap	TAL CAN		SW846 5030B
Semivolatile Organic Compounds (GC/MS)	TAL CAN	SW846 8270C/DoD	
Liquid-Liquid Extraction (Continuous)	TAL CAN		SW846 3520C
Gasoline Range Organics (GRO)	TAL CAN	SW846 8015B_GRO/DOD	
Purge and Trap	TAL CAN		SW846 5030B
Diesel Range Organics (DRO) (GC)	TAL CAN	SW846 8015B_DRO/DOD	
Liquid-Liquid Extraction (Continuous)	TAL CAN		SW846 3520C
Organochlorine Pesticides (GC)	TAL CAN	SW846 8081/DOD	
Liquid-Liquid Extraction (Continuous)	TAL CAN		SW846 3520C
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL CAN	SW846 8082/DOD	
Liquid-Liquid Extraction (Continuous)	TAL CAN		SW846 3520C
Herbicides (GC)	TAL CAN	SW846 8151/DOD	
Extraction (Herbicides)	TAL CAN		SW846 8151A
Mercury (CVAA)	TAL CAN	SW846 7470A/DOD	
Preparation, Mercury	TAL CAN		SW846 7470A
Chromium, Hexavalent	TAL CAN	SW846 7196A	
Metals (ICP/MS)	TAL PIT	SW846 6020/DOD	
Preparation, Total Recoverable or Dissolved Metals	TAL PIT		SW846 3005A
Nitroguanidine (HPLC)	TAL SAC	SW846 8330 Modified	
Sample Filtration	TAL SAC		Filtration
Nitroaromatics and Nitramines (HPLC)	TAL SAC	SW846 8330B	
Solid-Phase Extraction (Explosives)	TAL SAC		SW846 8330-Prep
Nitrocellulose	TAL SAC	TAL-SAC WS-WC-0050	
Nitrocellulose Sample Preparation (Hydrolysis)	TAL SAC		MCAWW 353 (NCell-Hyd)
Nitrocellulose Sample Preparation	TAL SAC		MCAWW 353.2 (NCell)

Lab References:

TAL CAN = TestAmerica Canton

TAL PIT = TestAmerica Pittsburgh

TAL SAC = TestAmerica Sacramento

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-SAC = TestAmerica Laboratories, West Sacramento, Facility Standard Operating Procedure.

METHOD / ANALYST SUMMARY

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method	Analyst	Analyst ID
SW846 8260B/DoD	Quayle, Rick	RQ
SW846 8270C/DoD	Gruber, John	JG
SW846 8015B_GRO/DOD	Bosworth, Heather M	HMB
SW846 8015B_DRO/DOD	Bolgrin, Deborah	DB
SW846 8081/DOD	Shock, Ray	RS
SW846 8082/DOD	Hass, Lori	LH
SW846 8151/DOD	Bolgrin, Deborah	DB
SW846 6020/DOD	Reinheimer, Bill	BR
SW846 7470A/DOD	Girard, Susan	SG
SW846 7196A	Martin, Aaron	AM
TAL-SAC WS-WC-0050	Baynes, Jason	JB
SW846 8330 Modified	Noonan, Robyn	RN
SW846 8330 Modified	Shafer, Nathan	NS
SW846 8330B	Noonan, Robyn	RN

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Client Sample ID: **079-0007-0001-SOURCEWATER**

Lab Sample ID: 240-21987-1 Date Sampled: 03/14/2013 1200
Client Matrix: Water Date Received: 03/14/2013 1620

8260B/DoD Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B/DoD	Analysis Batch:	240-79725	Instrument ID:	A3UX12
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX129319.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/28/2013 1121			Final Weight/Volume:	5 mL
Prep Date:	03/28/2013 1121				

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	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	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	110		85 - 120
1,2-Dichloroethane-d4 (Surr)	101		70 - 120
4-Bromofluorobenzene (Surr)	107		75 - 120
Dibromofluoromethane (Surr)	108		85 - 115

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Client Sample ID: **079-0008-0001-TB TRIP BLANK**

Lab Sample ID: 240-21987-2TB Date Sampled: 03/14/2013 0800
Client Matrix: Water Date Received: 03/14/2013 1620

8260B/DoD Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B/DoD	Analysis Batch:	240-79725	Instrument ID:	A3UX12
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX129320.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/28/2013 1147			Final Weight/Volume:	5 mL
Prep Date:	03/28/2013 1147				

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	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	0.31	J	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)	109		85 - 120
1,2-Dichloroethane-d4 (Surr)	105		70 - 120
4-Bromofluorobenzene (Surr)	105		75 - 120
Dibromofluoromethane (Surr)	104		85 - 115

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Client Sample ID: **079-0007-0001-SOURCEWATER**

Lab Sample ID: 240-21987-1 Date Sampled: 03/14/2013 1200
Client Matrix: Water Date Received: 03/14/2013 1620

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-79745	Instrument ID:	A4HP7
Prep Method:	3520C	Prep Batch:	240-78456	Lab File ID:	30328006.D
Dilution:	1.0			Initial Weight/Volume:	990 mL
Analysis Date:	03/28/2013 1253			Final Weight/Volume:	2 mL
Prep Date:	03/15/2013 0845			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acenaphthene	0.10	U	0.10	0.20
Acenaphthylene	0.10	U	0.10	0.20
Anthracene	0.10	U	0.10	0.20
Benzo[a]anthracene	0.10	U	0.10	0.20
Benzo[a]pyrene	0.10	U	0.10	0.20
Benzo[b]fluoranthene	0.10	U	0.10	0.20
Benzo[g,h,i]perylene	0.10	U	0.10	0.20
Benzoic acid	10	U	10	25
Benzo[k]fluoranthene	0.10	U	0.10	0.20
Benzyl alcohol	0.81	U	0.38	5.1
Bis(2-chloroethoxy)methane	0.81	U	0.32	1.0
Bis(2-chloroethyl)ether	0.10	U	0.10	1.0
bis (2-chloroisopropyl) ether	0.81	U	0.40	1.0
Bis(2-ethylhexyl) phthalate	0.91	J	0.81	2.0
4-Bromophenyl phenyl ether	0.81	U	0.81	2.0
Butyl benzyl phthalate	0.81	U	0.81	1.0
Carbazole	0.81	U	0.28	1.0
4-Chloroaniline	0.81	U	0.81	2.0
4-Chloro-3-methylphenol	0.81	U	0.81	2.0
2-Chloronaphthalene	0.10	U	0.10	1.0
2-Chlorophenol	0.81	U	0.29	1.0
4-Chlorophenyl phenyl ether	0.81	U	0.30	2.0
Chrysene	0.10	U	0.10	0.20
Dibenz(a,h)anthracene	0.10	U	0.10	0.20
Dibenzofuran	0.10	U	0.10	1.0
1,2-Dichlorobenzene	0.81	U	0.29	1.0
1,3-Dichlorobenzene	0.81	U	0.81	1.0
1,4-Dichlorobenzene	0.81	U	0.34	1.0
3,3'-Dichlorobenzidine	0.81	U	0.37	5.1
2,4-Dichlorophenol	0.81	U	0.81	2.0
Diethyl phthalate	0.81	U	0.61	1.0
2,4-Dimethylphenol	0.81	U	0.81	2.0
Dimethyl phthalate	0.81	U	0.29	1.0
Di-n-butyl phthalate	0.81	U	0.68	1.0
4,6-Dinitro-2-methylphenol	2.4	U	2.4	5.1
2,4-Dinitrophenol	2.4	U	2.4	5.1
2,4-Dinitrotoluene	0.81	U	0.27	5.1
2,6-Dinitrotoluene	0.81	U	0.81	5.1
Di-n-octyl phthalate	0.81	U	0.81	1.0
Fluoranthene	0.10	U	0.10	0.20
Fluorene	0.10	U	0.10	0.20
Hexachlorobenzene	0.10	U	0.10	0.20
Hexachlorobutadiene	0.81	U	0.27	1.0
Hexachlorocyclopentadiene	0.81	U	0.81	10
Hexachloroethane	0.81	U	0.81	1.0
Indeno[1,2,3-cd]pyrene	0.10	U	0.10	0.20

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Client Sample ID: **079-0007-0001-SOURCEWATER**

Lab Sample ID: 240-21987-1 Date Sampled: 03/14/2013 1200
Client Matrix: Water Date Received: 03/14/2013 1620

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	240-79745	Instrument ID:	A4HP7
Prep Method:	3520C	Prep Batch:	240-78456	Lab File ID:	30328006.D
Dilution:	1.0			Initial Weight/Volume:	990 mL
Analysis Date:	03/28/2013 1253			Final Weight/Volume:	2 mL
Prep Date:	03/15/2013 0845			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Isophorone	0.81	U	0.27	1.0
2-Methylnaphthalene	0.10	U	0.10	0.20
2-Methylphenol	0.81	U	0.81	1.0
3 & 4 Methylphenol	0.81	U	0.81	2.0
Naphthalene	0.10	U	0.10	0.20
2-Nitroaniline	0.81	U	0.81	2.0
3-Nitroaniline	0.81	U	0.28	2.0
4-Nitroaniline	0.81	U	0.81	2.0
Nitrobenzene	0.10	U	0.040	1.0
2-Nitrophenol	0.81	U	0.28	2.0
4-Nitrophenol	2.4	U	2.4	5.1
N-Nitrosodi-n-propylamine	0.81	U	0.81	1.0
N-Nitrosodiphenylamine	0.81	U	0.31	1.0
Pentachlorophenol	2.4	U	2.4	5.1
Phenanthrene	0.10	U	0.10	0.20
Phenol	0.81	U	0.61	1.0
Pyrene	0.10	U	0.10	0.20
1,2,4-Trichlorobenzene	0.81	U	0.28	1.0
2,4,5-Trichlorophenol	0.81	U	0.30	5.1
2,4,6-Trichlorophenol	0.81	U	0.81	5.1

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	64		50 - 110
2-Fluorophenol (Surr)	55		20 - 110
Nitrobenzene-d5 (Surr)	68		40 - 110
Phenol-d5 (Surr)	59		10 - 115
Terphenyl-d14 (Surr)	93		50 - 135
2,4,6-Tribromophenol (Surr)	52		40 - 125

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Client Sample ID: **079-0007-0001-SOURCEWATER**

Lab Sample ID: 240-21987-1 Date Sampled: 03/14/2013 1200
Client Matrix: Water Date Received: 03/14/2013 1620

8015B_GRO/DOD Gasoline Range Organics (GRO)

Analysis Method:	8015B_GRO/DOD	Analysis Batch:	240-79100	Instrument ID:	YPID
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	YF032240.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/23/2013 0927			Final Weight/Volume:	5 mL
Prep Date:	03/23/2013 0927			Injection Volume:	

Analyte	Result (ug/L)	Qualifier	DL	LOQ
C6-C12	74	J B	25	100

Surrogate	%Rec	Qualifier	Acceptance Limits
Trifluorotoluene (Surr)	73		10 - 150

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Client Sample ID: **079-0009-0001-TB TRIP BLANK**

Lab Sample ID: 240-21987-3TB Date Sampled: 03/14/2013 0800
Client Matrix: Water Date Received: 03/14/2013 1620

8015B_GRO/DOD Gasoline Range Organics (GRO)

Analysis Method:	8015B_GRO/DOD	Analysis Batch:	240-79100	Instrument ID:	YPID
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	YF032243.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/23/2013 1116			Final Weight/Volume:	5 mL
Prep Date:	03/23/2013 1116			Injection Volume:	

Analyte	Result (ug/L)	Qualifier	DL	LOQ
C6-C12	81	J B	25	100

Surrogate	%Rec	Qualifier	Acceptance Limits
Trifluorotoluene (Surr)	61		10 - 150

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Client Sample ID: **079-0007-0001-SOURCEWATER**

Lab Sample ID: 240-21987-1 Date Sampled: 03/14/2013 1200
Client Matrix: Water Date Received: 03/14/2013 1620

8015B_DRO/DOD Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B_DRO/DOD	Analysis Batch:	240-78992	Instrument ID:	A2HP5R
Prep Method:	3520C	Prep Batch:	240-78624	Lab File ID:	P5B21006.D
Dilution:	1.0			Initial Weight/Volume:	1030 mL
Analysis Date:	03/21/2013 1745			Final Weight/Volume:	5 mL
Prep Date:	03/18/2013 1031			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
C10-C20	230	U	230	490
C20-C34	230	U	230	490

Surrogate	%Rec	Qualifier	Acceptance Limits
n-Nonane	52		10 - 110

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Client Sample ID: **079-0007-0001-SOURCEWATER**

Lab Sample ID: 240-21987-1 Date Sampled: 03/14/2013 1200
Client Matrix: Water Date Received: 03/14/2013 1620

8081/DOD Organochlorine Pesticides (GC)

Analysis Method:	8081/DOD	Analysis Batch:	240-79056	Instrument ID:	A2HP3
Prep Method:	3520C	Prep Batch:	240-78726	Initial Weight/Volume:	1000 mL
Dilution:	1.0			Final Weight/Volume:	5.0 mL
Analysis Date:	03/21/2013 1736			Injection Volume:	1 uL
Prep Date:	03/19/2013 0910			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	DL	LOQ
4,4'-DDD	0.010	U	0.0096	0.050
4,4'-DDE	0.010	U	0.0097	0.050
4,4'-DDT	0.030	U	0.016	0.050
Aldrin	0.010	U	0.0082	0.050
alpha-BHC	0.010	U	0.0070	0.050
alpha-Chlordane	0.014	U	0.014	0.050
beta-BHC	0.010	U	0.0084	0.050
delta-BHC	0.010	U	0.0087	0.050
Dieldrin	0.010	U	0.0075	0.050
Endosulfan I	0.013	U	0.013	0.050
Endosulfan II	0.012	U	0.012	0.050
Endosulfan sulfate	0.011	U	0.011	0.050
Endrin	0.011	U	0.011	0.050
Endrin aldehyde	0.011	U	0.011	0.050
Endrin ketone	0.010	U	0.0078	0.050
gamma-BHC (Lindane)	0.010	U	0.0064	0.050
gamma-Chlordane	0.012	U	0.012	0.050
Heptachlor	0.010	U	0.0080	0.050
Heptachlor epoxide	0.010	U	0.0071	0.050
Methoxychlor	0.032	U	0.032	0.10
Toxaphene	0.50	U	0.32	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	75	M	30 - 135
Tetrachloro-m-xylene	79		25 - 140

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Client Sample ID: **079-0007-0001-SOURCEWATER**

Lab Sample ID: 240-21987-1 Date Sampled: 03/14/2013 1200
Client Matrix: Water Date Received: 03/14/2013 1620

8081/DOD Organochlorine Pesticides (GC)

Analysis Method:	8081/DOD	Analysis Batch:	240-79056	Instrument ID:	A2HP3
Prep Method:	3520C	Prep Batch:	240-78726	Initial Weight/Volume:	1000 mL
Dilution:	1.0			Final Weight/Volume:	5.0 mL
Analysis Date:	03/21/2013 1736			Injection Volume:	1 uL
Prep Date:	03/19/2013 0910			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	73		30 - 135
Tetrachloro-m-xylene	77		25 - 140

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Client Sample ID: **079-0007-0001-SOURCEWATER**

Lab Sample ID: 240-21987-1 Date Sampled: 03/14/2013 1200
Client Matrix: Water Date Received: 03/14/2013 1620

8082/DOD Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082/DOD	Analysis Batch:	240-79577	Instrument ID:	A2HP4
Prep Method:	3520C	Prep Batch:	240-78721	Initial Weight/Volume:	1000 mL
Dilution:	1.0			Final Weight/Volume:	5.0 mL
Analysis Date:	03/27/2013 1007			Injection Volume:	1 uL
Prep Date:	03/19/2013 0852			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Aroclor-1221	0.20	U	0.13	0.50
Aroclor-1016	0.20	U	0.17	0.50
Aroclor-1232	0.20	U	0.16	0.50
Aroclor-1242	0.40	U	0.22	0.50
Aroclor-1248	0.20	U	0.10	0.50
Aroclor-1254	0.20	U	0.16	0.50
Aroclor-1260	0.20	U	0.17	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	80		40 - 140
DCB Decachlorobiphenyl	71		40 - 135

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Client Sample ID: **079-0007-0001-SOURCEWATER**

Lab Sample ID: 240-21987-1 Date Sampled: 03/14/2013 1200
Client Matrix: Water Date Received: 03/14/2013 1620

8082/DOD Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082/DOD	Analysis Batch:	240-79577	Instrument ID:	A2HP4
Prep Method:	3520C	Prep Batch:	240-78721	Initial Weight/Volume:	1000 mL
Dilution:	1.0			Final Weight/Volume:	5.0 mL
Analysis Date:	03/27/2013 1007			Injection Volume:	1 uL
Prep Date:	03/19/2013 0852			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	97		40 - 140
DCB Decachlorobiphenyl	80		40 - 135

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Client Sample ID: **079-0007-0001-SOURCEWATER**

Lab Sample ID: 240-21987-1 Date Sampled: 03/14/2013 1200
Client Matrix: Water Date Received: 03/14/2013 1620

8151/DOD Herbicides (GC)

Analysis Method:	8151/DOD	Analysis Batch:	240-79197	Instrument ID:	A2HP1
Prep Method:	8151A	Prep Batch:	240-78626	Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	100 mL
Analysis Date:	03/22/2013 2057			Injection Volume:	1 uL
Prep Date:	03/18/2013 1035			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	DL	LOQ
2,4-D	0.50	U	0.41	4.0
Dalapon	0.55	J	0.17	2.0
2,4-DB	1.0	U	0.69	4.0
Dicamba	1.0	U	0.52	2.0
Dichlorprop	1.0	U Q	0.86	4.0
Dinoseb	0.20	U	0.087	0.60
MCPA	400	U	390	400
MCPP	400	U	400	400
Pentachlorophenol	0.040	U	0.024	0.10
Silvex (2,4,5-TP)	0.20	U	0.20	1.0
2,4,5-T	0.50	U Q	0.30	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	86		32 - 112

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Client Sample ID: **079-0007-0001-SOURCEWATER**

Lab Sample ID: 240-21987-1 Date Sampled: 03/14/2013 1200
Client Matrix: Water Date Received: 03/14/2013 1620

8151/DOD Herbicides (GC)

Analysis Method:	8151/DOD	Analysis Batch:	240-79197	Instrument ID:	A2HP1
Prep Method:	8151A	Prep Batch:	240-78626	Initial Weight/Volume:	500 mL
Dilution:	1.0			Final Weight/Volume:	100 mL
Analysis Date:	03/22/2013 2057			Injection Volume:	1 uL
Prep Date:	03/18/2013 1035			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	76		32 - 112

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Client Sample ID: **079-0007-0001-SOURCEWATER**

Lab Sample ID: 240-21987-1 Date Sampled: 03/14/2013 1200
Client Matrix: Water Date Received: 03/14/2013 1620

8330 Modified Nitroguanidine (HPLC)

Analysis Method:	8330 Modified	Analysis Batch:	320-12714	Instrument ID:	PDA1
Prep Method:	Filtration	Prep Batch:	320-12568	Lab File ID:	320-0003395-015-1.d
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	03/21/2013 1331			Final Weight/Volume:	10 mL
Prep Date:	03/19/2013 1418			Injection Volume:	50 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Nitroguanidine	6.0	J	2.4	20

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Client Sample ID: **079-0007-0001-SOURCEWATER**

Lab Sample ID: 240-21987-1 Date Sampled: 03/14/2013 1200
Client Matrix: Water Date Received: 03/14/2013 1620

8330 Modified Nitroguanidine (HPLC)

Analysis Method:	8330 Modified	Analysis Batch:	320-12878	Instrument ID:	PDA1
Prep Method:	Filtration	Prep Batch:	320-12568	Lab File ID:	320-0003448-007-1.d
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	03/22/2013 1553			Final Weight/Volume:	10 mL
Prep Date:	03/19/2013 1418			Injection Volume:	50 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Nitroguanidine	6.0	U	2.4	20

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Client Sample ID: **079-0007-0001-SOURCEWATER**

Lab Sample ID: 240-21987-1 Date Sampled: 03/14/2013 1200
Client Matrix: Water Date Received: 03/14/2013 1620

8330B Nitroaromatics and Nitramines (HPLC)

Analysis Method:	8330B	Analysis Batch:	320-12703	Instrument ID:	LC10
Prep Method:	8330-Prep	Prep Batch:	320-12565	Initial Weight/Volume:	977.9 mL
Dilution:	1.0			Final Weight/Volume:	20 mL
Analysis Date:	03/21/2013 1411			Injection Volume:	500 uL
Prep Date:	03/19/2013 1352			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene	0.051	U	0.032	0.10
1,3-Dinitrobenzene	0.10	U	0.051	0.10
2,4,6-Trinitrotoluene	0.10	U	0.051	0.10
2,4-Dinitrotoluene	0.10	U	0.051	0.10
2,6-Dinitrotoluene	0.10	U	0.051	0.10
2-Amino-4,6-dinitrotoluene	0.10	U	0.015	0.20
2-Nitrotoluene	0.10	U	0.090	0.51
3-Nitrotoluene	0.10	U	0.058	0.51
4-Nitrotoluene	0.10	U	0.090	0.51
4-Amino-2,6-dinitrotoluene	0.10	U	0.051	0.10
HMX	0.051	U	0.037	0.10
RDX	0.051	U	0.037	0.10
Nitrobenzene	0.10	U	0.051	0.10
Tetryl	0.10	U	0.051	0.10
Nitroglycerin	0.51	U	0.34	0.66
PETN	0.51	U	0.31	0.66

Surrogate	%Rec	Qualifier	Acceptance Limits
3,4-Dinitrotoluene	86	M	79 - 111

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Client Sample ID: **079-0007-0001-SOURCEWATER**

Lab Sample ID: 240-21987-1 Date Sampled: 03/14/2013 1200
Client Matrix: Water Date Received: 03/14/2013 1620

6020/DOD Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020/DOD	Analysis Batch:	180-68058	Instrument ID:	M
Prep Method:	3005A	Prep Batch:	180-66565	Lab File ID:	M30401A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	04/01/2013 1542			Final Weight/Volume:	50 mL
Prep Date:	03/18/2013 1302				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Silver	0.20	U	0.11	1.0
Aluminum	5.0	U	2.6	30
Arsenic	0.48	J	0.29	1.0
Barium	41	Q	0.098	10
Beryllium	0.090	U	0.045	1.0
Calcium	65000		9.4	100
Cadmium	0.30	U	0.13	1.0
Chromium	1.3	J	0.54	2.0
Cobalt	0.054	J Q	0.026	0.50
Copper	1.4	J Q	0.24	2.0
Iron	590		11	50
Magnesium	27000		11	100
Manganese	94	Q	0.16	5.0
Sodium	37000	B	27	100
Nickel	0.35	U	0.17	1.0
Lead	0.30	U	0.15	1.0
Antimony	0.90	U	0.46	2.0
Thallium	0.11	J	0.10	1.0
Vanadium	0.60	U	0.30	1.0
Zinc	5.1	Q	0.96	5.0
Potassium	2500		32	100
Selenium	1.0	U	0.51	5.0

7470A/DOD Mercury (CVAA)

Analysis Method:	7470A/DOD	Analysis Batch:	240-78674	Instrument ID:	H1
Prep Method:	7470A	Prep Batch:	240-78432	Lab File ID:	031814A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/18/2013 1749			Final Weight/Volume:	100 mL
Prep Date:	03/15/2013 1245				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Mercury	0.20	U	0.12	0.20

General Chemistry

Client Sample ID: **079-0007-0001-SOURCEWATER**

Lab Sample ID: 240-21987-1 Date Sampled: 03/14/2013 1200

Client Matrix: Water Date Received: 03/14/2013 1620

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Cr (VI)	0.0040	U	mg/L	0.0020	0.020	1.0	7196A
Analysis Batch: 240-78405	Analysis Date: 03/14/2013 1744						
Nitrocellulose	1.0	U	mg/L	0.48	2.0	1.0	WS-WC-0050
Analysis Batch: 320-13190	Analysis Date: 03/25/2013 1251						
Prep Batch: 320-12938	Prep Date: 03/25/2013 0823						

Client: Environmental Chemical Corp. Job Number: 240-21987-1

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 240-79725/5		107	105	112	110
MRL 240-79725/14		103	100	106	102

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: 240-21987-1

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
240-21987-1	079-0007-0001-SOURCEWATER	108	101	110	107
240-21987-2	079-0008-0001-TB TRIP BLANK	104	105	109	105
MB 240-79725/6		101	103	109	105
LCS 240-79725/4		109	103	110	103
240-21987-1 MS	079-0007-0001-SOURCEWATER MS	109	105	110	106
240-21987-1 MSD	079-0007-0001-SOURCEWATER MSD	107	101	108	107

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: 240-21987-1

Surrogate Recovery Report

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
240-21987-1	079-0007-0001-SOURCEWATER	55	59	68	64	52	93
MB 240-78456/17-A		57	59	69	63	50	93
LCS 240-78456/18-A		67	68	84	74	62	91

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol (Surr)	20-110
PHL = Phenol-d5 (Surr)	10-115
NBZ = Nitrobenzene-d5 (Surr)	40-110
FBP = 2-Fluorobiphenyl (Surr)	50-110
TBP = 2,4,6-Tribromophenol (Surr)	40-125
TPH = Terphenyl-d14 (Surr)	50-135

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Surrogate Recovery Report

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
MRL 240-79745/3		94	96	96	96	99	94
MRL 240-79745/7		94	97	96	92	91	95

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)	70-130
TBP = 2,4,6-Tribromophenol (Surr)	50-150
TPH = Terphenyl-d14 (Surr)	50-150

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Surrogate Recovery Report

8015B_GRO/DOD_Gasoline Range Organics (GRO)

Client Matrix: Water

Lab Sample ID	Client Sample ID	TFT %Rec
240-21987-1	079-0007-0001-SOURCEWATER	73
240-21987-3	079-0009-0001-TB TRIP BLANK	61
MB 240-79100/38		50
LCS 240-79100/39		78
240-21987-1 MS	079-0007-0001-SOURCEWATER MS	78
240-21987-1 MSD	079-0007-0001-SOURCEWATER MSD	81

Surrogate	Acceptance Limits
TFT = Trifluorotoluene (Surr)	10-150

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Surrogate Recovery Report

8015B_GRO/DOD_Gasoline Range Organics (GRO)

Client Matrix: Water

Lab Sample ID	Client Sample ID	TFT %Rec
MRL 240-79100/37		71
MRL 240-79100/45		67^

Surrogate	Acceptance Limits
TFT = Trifluorotoluene (Surr)	70-130

Client: Environmental Chemical Corp.

Job Number: 240-21987-1

Surrogate Recovery Report

8015B_DRO/DOD_Diesel Range Organics (DRO) (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	C9 %Rec
240-21987-1	079-0007-0001-SOURCEWATER	52

Surrogate	Acceptance Limits
C9 = n-Nonane	10-110

Client: Environmental Chemical Corp.

Job Number: 240-21987-1

Surrogate Recovery Report

8015B_DRO/DOD_Diesel Range Organics (DRO) (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	C9 %Rec
MRL 240-78992/4		102
MRL 240-78992/9		109

Surrogate	Acceptance Limits
C9 = n-Nonane	70-130

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Surrogate Recovery Report

8081/DOD Organochlorine Pesticides (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	TCX1 %Rec	TCX2 %Rec	DCB1 %Rec	DCB2 %Rec
240-21987-1	079-0007-0001-SOURCEWATER	79	77	75M	73
MB 240-78726/2-A		85	82	91	89
LCS 240-78726/3-A		79	78	56	55

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	25-140
DCB = DCB Decachlorobiphenyl	30-135

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Surrogate Recovery Report

8082/DOD Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	TCX1 %Rec	TCX2 %Rec	DCB1 %Rec	DCB2 %Rec
240-21987-1	079-0007-0001-SOURCEWATER	97	80	80	71
MB 240-78721/17-A		88	74	75	77
LCS 240-78721/18-A		88	73	87	79

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	40-140
DCB = DCB Decachlorobiphenyl	40-135

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Surrogate Recovery Report

8082/DOD Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	TCX1 %Rec	TCX2 %Rec	DCB1 %Rec	DCB2 %Rec
MRL 240-79577/4			119		116
MRL 240-79577/31		136	112	132	120

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	50-150
DCB = DCB Decachlorobiphenyl	50-150

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Surrogate Recovery Report

8151/DOD Herbicides (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCPA1 %Rec	DCPA2 %Rec
240-21987-1	079-0007-0001-SOURCEWATER	76	86
MB 240-78626/3-A		79	88
LCS 240-78626/4-A		91	99
MRL 240-79197/13		130Q	117Q
MRL 240-79197/20		132Q	119Q

Surrogate	Acceptance Limits
DCPA = 2,4-Dichlorophenylacetic acid	32-112

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Surrogate Recovery Report

8330B Nitroaromatics and Nitramines (HPLC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DNT1 %Rec
240-21987-1	079-0007-0001-SOURCEWATER	86M
MB 320-12565/1-A		87
LCS 320-12565/2-A		87

Surrogate	Acceptance Limits
DNT = 3,4-Dinitrotoluene	79-111

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method Blank - Batch: 240-79725

Method: 8260B/DoD
Preparation: 5030B

Lab Sample ID:	MB 240-79725/6	Analysis Batch:	240-79725	Instrument ID:	A3UX12
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UX129318.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/28/2013 1055	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	03/28/2013 1055				
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	0.344	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	Acceptance Limits
Toluene-d8 (Surr)	109	85 - 120
1,2-Dichloroethane-d4 (Surr)	103	70 - 120
4-Bromofluorobenzene (Surr)	105	75 - 120
Dibromofluoromethane (Surr)	101	85 - 115

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Lab Control Sample - Batch: 240-79725

Method: 8260B/DoD
Preparation: 5030B

Lab Sample ID:	LCS 240-79725/4	Analysis Batch:	240-79725	Instrument ID:	A3UX12
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UX129316.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/28/2013 1002	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	03/28/2013 1002				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	20.0	22.7	114	65 - 130	
1,1,2,2-Tetrachloroethane	20.0	18.1	90	65 - 130	
1,1,2-Trichloroethane	20.0	18.2	91	75 - 125	
1,1-Dichloroethane	20.0	19.3	96	70 - 135	
1,1-Dichloroethene	20.0	19.1	95	70 - 130	
1,2-Dichloroethane	20.0	20.2	101	70 - 130	
1,2-Dichloropropane	20.0	19.0	95	75 - 125	
2-Butanone (MEK)	40.0	34.7	87	30 - 150	
2-Hexanone	40.0	34.6	87	55 - 130	
4-Methyl-2-pentanone (MIBK)	40.0	32.1	80	60 - 135	
Acetone	40.0	33.8	85	40 - 140	
Benzene	20.0	19.0	95	80 - 120	
Bromoform	20.0	19.2	96	70 - 130	
Bromomethane	20.0	15.2	76	30 - 145	
Carbon disulfide	20.0	19.5	98	35 - 160	
Carbon tetrachloride	20.0	25.6	128	65 - 140	
Chlorobenzene	20.0	19.5	97	80 - 120	
Chloromethane	20.0	17.5	87	40 - 125	
cis-1,3-Dichloropropene	20.0	18.8	94	70 - 130	
Dibromochloromethane	20.0	19.4	97	60 - 135	
Bromodichloromethane	20.0	20.2	101	75 - 120	
Ethylbenzene	20.0	19.6	98	75 - 125	
Methyl tert-butyl ether	20.0	17.8	89	65 - 125	
Methylene Chloride	20.0	19.7	98	55 - 140	
Styrene	20.0	21.2	106	65 - 135	
Tetrachloroethene	20.0	20.3	102	45 - 150	
Toluene	20.0	20.4	102	75 - 120	
trans-1,3-Dichloropropene	20.0	20.4	102	55 - 140	
Trichloroethene	20.0	19.6	98	70 - 125	
Vinyl chloride	20.0	17.7	89	50 - 145	
Xylenes, Total	60.0	59.3	99	75 - 130	
Chloroform	20.0	18.9	95	65 - 135	
Bromochloromethane	20.0	20.5	102	65 - 130	
Chloroethane	20.0	17.8	89	60 - 135	

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	110	85 - 120
1,2-Dichloroethane-d4 (Surr)	103	70 - 120
4-Bromofluorobenzene (Surr)	103	75 - 120
Dibromofluoromethane (Surr)	109	85 - 115

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method Reporting Limit Check - Batch: 240-79725 **Method: 8260B/DoD**
Preparation: 5030B

Lab Sample ID:	MRL 240-79725/5	Analysis Batch:	240-79725	Instrument ID:	A3UX12
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UX129317.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/28/2013 1029	Units:	ng/uL	Final Weight/Volume:	5 mL
Prep Date:	03/28/2013 1029				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	0.00100	0.000959	96	70 - 130	J
1,1,2,2-Tetrachloroethane	0.00100	0.00109	109	70 - 130	
1,1,2-Trichloroethane	0.00100	0.000795	80	70 - 130	J
1,1-Dichloroethane	0.00100	0.000850	85	70 - 130	J
1,1-Dichloroethene	0.00100	0.000973	97	70 - 130	J
1,2-Dichloroethane	0.00100	0.00115	115	70 - 130	
1,2-Dichloropropane	0.00100	0.000868	87	70 - 130	J
2-Butanone (MEK)	0.0100	0.00675	67	70 - 130	J ^
2-Hexanone	0.0100	0.00867	87	70 - 130	J
4-Methyl-2-pentanone (MIBK)	0.0100	0.00786	79	70 - 130	J
Acetone	0.0100	0.00824	82	70 - 130	J
Benzene	0.00100	0.000966	97	70 - 130	J
Bromoform	0.00100	0.000857	86	70 - 130	J
Bromomethane	0.00100	0.000956	96	70 - 130	J
Carbon disulfide	0.00100	0.000842	84	70 - 130	J
Carbon tetrachloride	0.00100	0.00136	136	70 - 130	^
Chlorobenzene	0.00100	0.000971	97	70 - 130	J
Chloromethane	0.00100	0.000984	98	70 - 130	J
cis-1,3-Dichloropropene	0.00100	0.000862	86	70 - 130	J
Dibromochloromethane	0.00100	0.000769	77	70 - 130	J
Bromodichloromethane	0.00100	0.000830	83	70 - 130	J
Ethylbenzene	0.00100	0.000957	96	70 - 130	J
Methyl tert-butyl ether	0.00100	0.000831	83	70 - 130	J
Methylene Chloride	0.00100	0.00138	138	70 - 130	^
Styrene	0.00100	0.000958	96	70 - 130	J
Tetrachloroethene	0.00100	0.00116	116	70 - 130	
Toluene	0.00100	0.00113	113	70 - 130	
trans-1,3-Dichloropropene	0.00100	0.000805	81	70 - 130	J
Trichloroethene	0.00100	0.000931	93	70 - 130	J
Vinyl chloride	0.00100	0.000954	95	70 - 130	J
Xylenes, Total	0.00300	0.00310	103	70 - 130	
Chloroform	0.00100	0.000796	80	70 - 130	J
Bromochloromethane	0.00100	0.000968	97	70 - 130	J
Chloroethane	0.00100	0.00101	101	70 - 130	

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	112	50 - 150
1,2-Dichloroethane-d4 (Surr)	105	50 - 150
4-Bromofluorobenzene (Surr)	110	50 - 150
Dibromofluoromethane (Surr)	107	50 - 150

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method Reporting Limit Check - Batch: 240-79725 **Method: 8260B/DoD**
Preparation: 5030B

Lab Sample ID:	MRL 240-79725/14	Analysis Batch:	240-79725	Instrument ID:	A3UX12
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UX129326.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/28/2013 1426	Units:	ng/uL	Final Weight/Volume:	5 mL
Prep Date:	03/28/2013 1426				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	0.00100	0.000953	95	70 - 130	J
1,1,2,2-Tetrachloroethane	0.00100	0.000888	89	70 - 130	J
1,1,2-Trichloroethane	0.00100	0.000755	75	70 - 130	J
1,1-Dichloroethane	0.00100	0.000803	80	70 - 130	J
1,1-Dichloroethene	0.00100	0.000818	82	70 - 130	J
1,2-Dichloroethane	0.00100	0.00100	100	70 - 130	
1,2-Dichloropropane	0.00100	0.000871	87	70 - 130	J
2-Butanone (MEK)	0.0100	0.00692	69	70 - 130	J ^
2-Hexanone	0.0100	0.00702	70	70 - 130	J
4-Methyl-2-pentanone (MIBK)	0.0100	0.00664	66	70 - 130	J ^
Acetone	0.0100	0.00654	65	70 - 130	J ^
Benzene	0.00100	0.000907	91	70 - 130	J
Bromoform	0.00100	0.000641	64	70 - 130	J ^
Bromomethane	0.00100	0.00123	123	70 - 130	
Carbon disulfide	0.00100	0.000845	85	70 - 130	J
Carbon tetrachloride	0.00100	0.000966	97	70 - 130	J
Chlorobenzene	0.00100	0.000923	92	70 - 130	J
Chloromethane	0.00100	0.00133	133	70 - 130	^
cis-1,3-Dichloropropene	0.00100	0.000817	82	70 - 130	J
Dibromochloromethane	0.00100	0.000975	97	70 - 130	J
Bromodichloromethane	0.00100	0.000900	90	70 - 130	J
Ethylbenzene	0.00100	0.000840	84	70 - 130	J
Methyl tert-butyl ether	0.00100	0.000814	81	70 - 130	J
Methylene Chloride	0.00100	0.00150	150	70 - 130	^
Styrene	0.00100	0.000848	85	70 - 130	J
Tetrachloroethene	0.00100	0.00101	101	70 - 130	
Toluene	0.00100	0.000966	97	70 - 130	J
trans-1,3-Dichloropropene	0.00100	0.000873	87	70 - 130	J
Trichloroethene	0.00100	0.000718	72	70 - 130	J
Vinyl chloride	0.00100	0.00133	133	70 - 130	^
Xylenes, Total	0.00300	0.00263	88	70 - 130	
Chloroform	0.00100	0.000920	92	70 - 130	J
Bromochloromethane	0.00100	0.000990	99	70 - 130	J
Chloroethane	0.00100	0.00129	129	70 - 130	

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	106	50 - 150
1,2-Dichloroethane-d4 (Surr)	100	50 - 150
4-Bromofluorobenzene (Surr)	102	50 - 150
Dibromofluoromethane (Surr)	103	50 - 150

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-79725

Method: 8260B/DoD
Preparation: 5030B

MS Lab Sample ID:	240-21987-1	Analysis Batch:	240-79725	Instrument ID:	A3UX12
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UX129324.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/28/2013 1333			Final Weight/Volume:	5 mL
Prep Date:	03/28/2013 1333				
Leach Date:	N/A				

MSD Lab Sample ID:	240-21987-1	Analysis Batch:	240-79725	Instrument ID:	A3UX12
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UX129325.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/28/2013 1359			Final Weight/Volume:	5 mL
Prep Date:	03/28/2013 1359				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	112	110	65 - 130	1	30		
1,1,2,2-Tetrachloroethane	92	94	65 - 130	1	30		
1,1,2-Trichloroethane	93	93	75 - 125	0	30		
1,1-Dichloroethane	99	95	70 - 135	5	30		
1,1-Dichloroethene	98	94	70 - 130	4	30		
1,2-Dichloroethane	104	101	70 - 130	3	30		
1,2-Dichloropropane	97	94	75 - 125	4	30		
2-Butanone (MEK)	98	95	30 - 150	3	30		
2-Hexanone	93	90	55 - 130	3	30		
4-Methyl-2-pentanone (MIBK)	82	84	60 - 135	2	30		
Acetone	80	87	40 - 140	9	30		
Benzene	98	94	80 - 120	4	30		
Bromoform	92	95	70 - 130	4	30		
Bromomethane	78	78	30 - 145	0	30		
Carbon disulfide	96	94	35 - 160	2	30		
Carbon tetrachloride	126	128	65 - 140	2	30		
Chlorobenzene	98	96	80 - 120	2	30		
Chloromethane	88	88	40 - 125	0	30		
cis-1,3-Dichloropropene	93	92	70 - 130	0	30		
Dibromochloromethane	99	97	60 - 135	2	30		
Bromodichloromethane	99	99	75 - 120	0	30		
Ethylbenzene	100	98	75 - 125	2	30		
Methyl tert-butyl ether	90	90	65 - 125	1	50		
Methylene Chloride	94	90	55 - 140	4	30		
Styrene	103	101	65 - 135	2	30		
Tetrachloroethene	107	101	45 - 150	6	30		
Toluene	101	101	75 - 120	0	30		
trans-1,3-Dichloropropene	101	102	55 - 140	1	30		
Trichloroethene	100	96	70 - 125	5	30		
Vinyl chloride	93	91	50 - 145	2	30		
Xylenes, Total	98	97	75 - 130	1	30		
Chloroform	99	92	65 - 135	7	30		
Bromochloromethane	121	113	65 - 130	7	30		

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-79725

Method: 8260B/DoD
Preparation: 5030B

MS Lab Sample ID:	240-21987-1	Analysis Batch:	240-79725	Instrument ID:	A3UX12
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UX129324.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/28/2013 1333			Final Weight/Volume:	5 mL
Prep Date:	03/28/2013 1333				
Leach Date:	N/A				

MSD Lab Sample ID:	240-21987-1	Analysis Batch:	240-79725	Instrument ID:	A3UX12
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UX129325.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/28/2013 1359			Final Weight/Volume:	5 mL
Prep Date:	03/28/2013 1359				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloroethane	90	88	60 - 135	2	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	110	108	85 - 120
1,2-Dichloroethane-d4 (Surr)	105	101	70 - 120
4-Bromofluorobenzene (Surr)	106	107	75 - 120
Dibromofluoromethane (Surr)	109	107	85 - 115

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-79725

Method: 8260B/DoD
Preparation: 5030B

MS Lab Sample ID:	240-21987-1	Units:	ug/L	MSD Lab Sample ID:	240-21987-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/28/2013 1333			Analysis Date:	03/28/2013 1359
Prep Date:	03/28/2013 1333			Prep Date:	03/28/2013 1359
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,1,1-Trichloroethane	0.25	U	20.0	20.0	22.3	22.1
1,1,2,2-Tetrachloroethane	0.25	U	20.0	20.0	18.4	18.7
1,1,2-Trichloroethane	0.50	U	20.0	20.0	18.6	18.6
1,1-Dichloroethane	0.25	U	20.0	20.0	19.9	18.9
1,1-Dichloroethene	0.25	U	20.0	20.0	19.6	18.9
1,2-Dichloroethane	0.25	U	20.0	20.0	20.8	20.1
1,2-Dichloropropane	0.25	U	20.0	20.0	19.4	18.7
2-Butanone (MEK)	0.57	U	40.0	40.0	39.4	38.1
2-Hexanone	0.50	U	40.0	40.0	37.1	36.1
4-Methyl-2-pentanone (MIBK)	0.50	U	40.0	40.0	32.9	33.6
Acetone	1.1	U	40.0	40.0	32.0	35.0
Benzene	0.25	U	20.0	20.0	19.5	18.8
Bromoform	0.64	U	20.0	20.0	18.4	19.1
Bromomethane	0.50	U	20.0	20.0	15.7	15.6
Carbon disulfide	0.25	U	20.0	20.0	19.3	18.9
Carbon tetrachloride	0.25	U	20.0	20.0	25.1	25.6
Chlorobenzene	0.25	U	20.0	20.0	19.6	19.2
Chloromethane	0.50	U	20.0	20.0	17.5	17.5
cis-1,3-Dichloropropene	0.25	U	20.0	20.0	18.5	18.5
Dibromochloromethane	0.25	U	20.0	20.0	19.8	19.4
Bromodichloromethane	0.25	U	20.0	20.0	19.8	19.8
Ethylbenzene	0.25	U	20.0	20.0	19.9	19.6
Methyl tert-butyl ether	0.25	U	20.0	20.0	18.0	17.9
Methylene Chloride	0.50	U	20.0	20.0	18.7	18.0
Styrene	0.25	U	20.0	20.0	20.5	20.2
Tetrachloroethene	0.50	U	20.0	20.0	21.3	20.1
Toluene	0.25	U	20.0	20.0	20.2	20.2
trans-1,3-Dichloropropene	0.25	U	20.0	20.0	20.2	20.3
Trichloroethene	0.25	U	20.0	20.0	20.1	19.1
Vinyl chloride	0.25	U	20.0	20.0	18.5	18.2
Xylenes, Total	0.75	U	60.0	60.0	58.7	58.1
Chloroform	0.25	U	20.0	20.0	19.9	18.5
Bromochloromethane	0.50	U	20.0	20.0	24.1	22.5
Chloroethane	0.50	U	20.0	20.0	18.0	17.6

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method Blank - Batch: 240-78456

Method: 8270C/DoD
Preparation: 3520C

Lab Sample ID:	MB 240-78456/17-A	Analysis Batch:	240-79745	Instrument ID:	A4HP7
Client Matrix:	Water	Prep Batch:	240-78456	Lab File ID:	30328004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	03/28/2013 1206	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	03/15/2013 0845			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Acenaphthene	0.10	U	0.10	0.20
Acenaphthylene	0.10	U	0.10	0.20
Anthracene	0.10	U	0.10	0.20
Benzo[a]anthracene	0.10	U	0.10	0.20
Benzo[a]pyrene	0.10	U	0.10	0.20
Benzo[b]fluoranthene	0.10	U	0.10	0.20
Benzo[g,h,i]perylene	0.10	U	0.10	0.20
Benzoic acid	10	U	10	25
Benzo[k]fluoranthene	0.10	U	0.10	0.20
Benzyl alcohol	0.80	U	0.38	5.0
Bis(2-chloroethoxy)methane	0.80	U	0.32	1.0
Bis(2-chloroethyl)ether	0.10	U	0.10	1.0
bis (2-chloroisopropyl) ether	0.80	U	0.40	1.0
Bis(2-ethylhexyl) phthalate	0.855	J	0.80	2.0
4-Bromophenyl phenyl ether	0.80	U	0.80	2.0
Butyl benzyl phthalate	0.80	U	0.80	1.0
Carbazole	0.80	U	0.28	1.0
4-Chloroaniline	0.80	U	0.80	2.0
4-Chloro-3-methylphenol	0.80	U	0.80	2.0
2-Chloronaphthalene	0.10	U	0.10	1.0
2-Chlorophenol	0.80	U	0.29	1.0
4-Chlorophenyl phenyl ether	0.80	U	0.30	2.0
Chrysene	0.10	U	0.10	0.20
Dibenz(a,h)anthracene	0.10	U	0.10	0.20
Dibenzofuran	0.10	U	0.10	1.0
1,2-Dichlorobenzene	0.80	U	0.29	1.0
1,3-Dichlorobenzene	0.80	U	0.80	1.0
1,4-Dichlorobenzene	0.80	U	0.34	1.0
3,3'-Dichlorobenzidine	0.80	U	0.37	5.0
2,4-Dichlorophenol	0.80	U	0.80	2.0
Diethyl phthalate	0.80	U	0.60	1.0
2,4-Dimethylphenol	0.80	U	0.80	2.0
Dimethyl phthalate	0.80	U	0.29	1.0
Di-n-butyl phthalate	0.80	U	0.67	1.0
4,6-Dinitro-2-methylphenol	2.4	U	2.4	5.0
2,4-Dinitrophenol	2.4	U	2.4	5.0
2,4-Dinitrotoluene	0.80	U	0.27	5.0
2,6-Dinitrotoluene	0.80	U	0.80	5.0
Di-n-octyl phthalate	0.80	U	0.80	1.0
Fluoranthene	0.10	U	0.10	0.20
Fluorene	0.10	U	0.10	0.20
Hexachlorobenzene	0.10	U	0.10	0.20
Hexachlorobutadiene	0.80	U	0.27	1.0
Hexachlorocyclopentadiene	0.80	U	0.80	10
Hexachloroethane	0.80	U	0.80	1.0

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method Blank - Batch: 240-78456

Method: 8270C/DoD
Preparation: 3520C

Lab Sample ID:	MB 240-78456/17-A	Analysis Batch:	240-79745	Instrument ID:	A4HP7
Client Matrix:	Water	Prep Batch:	240-78456	Lab File ID:	30328004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	03/28/2013 1206	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	03/15/2013 0845			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Indeno[1,2,3-cd]pyrene	0.10	U	0.10	0.20
Isophorone	0.80	U	0.27	1.0
2-Methylnaphthalene	0.10	U	0.10	0.20
2-Methylphenol	0.80	U	0.80	1.0
3 & 4 Methylphenol	0.80	U	0.80	2.0
Naphthalene	0.10	U	0.10	0.20
2-Nitroaniline	0.80	U	0.80	2.0
3-Nitroaniline	0.80	U	0.28	2.0
4-Nitroaniline	0.80	U	0.80	2.0
Nitrobenzene	0.10	U	0.040	1.0
2-Nitrophenol	0.80	U	0.28	2.0
4-Nitrophenol	2.4	U	2.4	5.0
N-Nitrosodi-n-propylamine	0.80	U	0.80	1.0
N-Nitrosodiphenylamine	0.80	U	0.31	1.0
Pentachlorophenol	2.4	U	2.4	5.0
Phenanthrene	0.10	U	0.10	0.20
Phenol	0.80	U	0.60	1.0
Pyrene	0.10	U	0.10	0.20
1,2,4-Trichlorobenzene	0.80	U	0.28	1.0
2,4,5-Trichlorophenol	0.80	U	0.30	5.0
2,4,6-Trichlorophenol	0.80	U	0.80	5.0

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	63	50 - 110
2-Fluorophenol (Surr)	57	20 - 110
Nitrobenzene-d5 (Surr)	69	40 - 110
Phenol-d5 (Surr)	59	10 - 115
Terphenyl-d14 (Surr)	93	50 - 135
2,4,6-Tribromophenol (Surr)	50	40 - 125

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Lab Control Sample - Batch: 240-78456

Method: 8270C/DoD
Preparation: 3520C

Lab Sample ID:	LCS 240-78456/18-A	Analysis Batch:	240-79745	Instrument ID:	A4HP7
Client Matrix:	Water	Prep Batch:	240-78456	Lab File ID:	30328005.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	03/28/2013 1229	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	03/15/2013 0845			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	20.0	16.6	83	45 - 110	
Acenaphthylene	20.0	16.7	84	50 - 105	
Anthracene	20.0	17.5	87	55 - 110	
Benzo[a]anthracene	20.0	17.9	89	55 - 110	
Benzo[a]pyrene	20.0	13.4	67	55 - 110	
Benzo[b]fluoranthene	20.0	18.4	92	45 - 120	
Benzo[g,h,i]perylene	20.0	18.8	94	40 - 125	
Benzoic acid	20.0	13.1	66	0 - 125	J
Benzo[k]fluoranthene	20.0	18.3	92	45 - 125	
Benzyl alcohol	20.0	13.7	69	30 - 110	
Bis(2-chloroethoxy)methane	20.0	16.2	81	45 - 105	
Bis(2-chloroethyl)ether	20.0	16.2	81	35 - 110	
bis (2-chloroisopropyl) ether	20.0	15.5	77	25 - 130	
Bis(2-ethylhexyl) phthalate	20.0	15.6	78	40 - 125	
4-Bromophenyl phenyl ether	20.0	15.7	78	50 - 115	
Butyl benzyl phthalate	20.0	16.9	84	45 - 115	
Carbazole	20.0	16.9	85	50 - 115	
4-Chloroaniline	20.0	14.3	71	15 - 110	
4-Chloro-3-methylphenol	20.0	13.7	68	45 - 110	
2-Chloronaphthalene	20.0	15.2	76	50 - 105	
2-Chlorophenol	20.0	13.4	67	35 - 105	
4-Chlorophenyl phenyl ether	20.0	16.3	81	50 - 110	
Chrysene	20.0	18.6	93	55 - 110	
Dibenz(a,h)anthracene	20.0	19.4	97	40 - 125	
Dibenzofuran	20.0	16.7	84	55 - 105	
1,2-Dichlorobenzene	20.0	13.8	69	35 - 100	
1,3-Dichlorobenzene	20.0	13.1	66	30 - 100	
1,4-Dichlorobenzene	20.0	11.0	55	30 - 100	
3,3'-Dichlorobenzidine	20.0	7.12	36	20 - 110	
2,4-Dichlorophenol	20.0	13.7	68	50 - 105	
Diethyl phthalate	20.0	17.2	86	40 - 120	
2,4-Dimethylphenol	20.0	8.22	41	30 - 110	
Dimethyl phthalate	20.0	17.3	87	25 - 125	
Di-n-butyl phthalate	20.0	17.0	85	55 - 115	
4,6-Dinitro-2-methylphenol	20.0	12.9	65	40 - 130	
2,4-Dinitrophenol	20.0	15.7	79	15 - 140	
2,4-Dinitrotoluene	20.0	15.9	80	50 - 120	
2,6-Dinitrotoluene	20.0	16.6	83	50 - 115	
Di-n-octyl phthalate	20.0	17.1	86	35 - 135	
Fluoranthene	20.0	17.3	87	55 - 115	
Fluorene	20.0	17.0	85	50 - 110	
Hexachlorobenzene	20.0	15.7	79	50 - 110	
Hexachlorobutadiene	20.0	12.2	61	25 - 105	
Hexachloroethane	20.0	12.8	64	30 - 95	
Indeno[1,2,3-cd]pyrene	20.0	17.9	90	45 - 125	
Isophorone	20.0	17.2	86	50 - 110	

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Lab Control Sample - Batch: 240-78456

Method: 8270C/DoD
Preparation: 3520C

Lab Sample ID:	LCS 240-78456/18-A	Analysis Batch:	240-79745	Instrument ID:	A4HP7
Client Matrix:	Water	Prep Batch:	240-78456	Lab File ID:	30328005.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	03/28/2013 1229	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	03/15/2013 0845			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Methylnaphthalene	20.0	16.8	84	45 - 105	
2-Methylphenol	20.0	13.1	66	40 - 110	
3 & 4 Methylphenol	40.0	26.8	67	30 - 110	
Naphthalene	20.0	16.2	81	40 - 100	
2-Nitroaniline	20.0	14.9	75	50 - 115	
3-Nitroaniline	20.0	14.8	74	20 - 125	
4-Nitroaniline	20.0	15.2	76	35 - 120	
Nitrobenzene	20.0	16.6	83	45 - 110	
2-Nitrophenol	20.0	12.8	64	40 - 115	
4-Nitrophenol	20.0	13.0	65	0 - 125	
N-Nitrosodi-n-propylamine	20.0	14.9	75	35 - 130	
N-Nitrosodiphenylamine	20.0	14.8	74	50 - 110	
Pentachlorophenol	20.0	13.8	69	40 - 115	
Phenanthrene	20.0	16.8	84	50 - 115	
Phenol	20.0	13.4	67	0 - 115	
Pyrene	20.0	17.5	87	50 - 130	
1,2,4-Trichlorobenzene	20.0	13.7	69	35 - 105	
2,4,5-Trichlorophenol	20.0	13.4	67	50 - 110	
2,4,6-Trichlorophenol	20.0	13.9	70	50 - 115	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	74	50 - 110
2-Fluorophenol (Surr)	67	20 - 110
Nitrobenzene-d5 (Surr)	84	40 - 110
Phenol-d5 (Surr)	68	10 - 115
Terphenyl-d14 (Surr)	91	50 - 135
2,4,6-Tribromophenol (Surr)	62	40 - 125

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method Reporting Limit Check - Batch: 240-79745 **Method: 8270C/DoD**
Preparation: N/A

Lab Sample ID:	MRL 240-79745/3	Analysis Batch:	240-79745	Instrument ID:	A4HP7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	30328003.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	03/28/2013 1142	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	4.88	98	70 - 130	
Acenaphthylene	5.00	5.09	102	70 - 130	
Anthracene	5.00	5.00	100	70 - 130	
Benzo[a]anthracene	5.00	4.90	98	70 - 130	
Benzo[a]pyrene	5.00	4.37	87	70 - 130	
Benzo[b]fluoranthene	5.00	4.82	96	70 - 130	
Benzo[g,h,i]perylene	5.00	4.74	95	70 - 130	
Benzoic acid	10.0	10.2	102	70 - 130	
Benzo[k]fluoranthene	5.00	4.74	95	70 - 130	
Benzyl alcohol	5.00	4.82	96	70 - 130	
Bis(2-chloroethoxy)methane	5.00	4.80	96	70 - 130	
Bis(2-chloroethyl)ether	5.00	4.76	95	70 - 130	
bis (2-chloroisopropyl) ether	5.00	4.57	91	70 - 130	
Bis(2-ethylhexyl) phthalate	5.00	4.59	92	70 - 130	
4-Bromophenyl phenyl ether	5.00	4.76	95	70 - 130	
Butyl benzyl phthalate	5.00	4.40	88	70 - 130	
Carbazole	5.00	4.79	96	70 - 130	
4-Chloroaniline	5.00	4.76	95	70 - 130	
4-Chloro-3-methylphenol	5.00	4.97	99	70 - 130	
2-Chloronaphthalene	5.00	4.85	97	70 - 130	
2-Chlorophenol	5.00	4.73	95	70 - 130	
4-Chlorophenyl phenyl ether	5.00	4.88	98	70 - 130	
Chrysene	5.00	4.72	94	70 - 130	
Dibenz(a,h)anthracene	5.00	4.88	98	70 - 130	
Dibenzofuran	5.00	4.87	97	70 - 130	
1,2-Dichlorobenzene	5.00	4.75	95	70 - 130	
1,3-Dichlorobenzene	5.00	4.69	94	70 - 130	
1,4-Dichlorobenzene	5.00	4.67	93	70 - 130	
3,3'-Dichlorobenzidine	5.00	4.71	94	70 - 130	
2,4-Dichlorophenol	5.00	4.90	98	70 - 130	
Diethyl phthalate	5.00	4.85	97	70 - 130	
2,4-Dimethylphenol	5.00	4.89	98	70 - 130	
Dimethyl phthalate	5.00	4.97	99	70 - 130	
Di-n-butyl phthalate	5.00	4.55	91	70 - 130	
4,6-Dinitro-2-methylphenol	5.00	5.08	102	70 - 130	
2,4-Dinitrophenol	10.0	11.0	110	70 - 130	
2,4-Dinitrotoluene	5.00	4.79	96	70 - 130	
2,6-Dinitrotoluene	5.00	4.63	93	70 - 130	
Di-n-octyl phthalate	5.00	4.83	97	70 - 130	
Fluoranthene	5.00	4.85	97	70 - 130	
Fluorene	5.00	4.86	97	70 - 130	
Hexachlorobenzene	5.00	4.67	93	70 - 130	
Hexachlorobutadiene	5.00	4.92	98	70 - 130	
Hexachloroethane	5.00	4.65	93	70 - 130	
Indeno[1,2,3-cd]pyrene	5.00	4.87	97	70 - 130	
Isophorone	5.00	4.92	98	70 - 130	

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method Reporting Limit Check - Batch: 240-79745 **Method: 8270C/DoD**
Preparation: N/A

Lab Sample ID:	MRL 240-79745/3	Analysis Batch:	240-79745	Instrument ID:	A4HP7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	30328003.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	03/28/2013 1142	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	4.78	96	70 - 130	
2-Methylphenol	5.00	4.77	95	70 - 130	
3 & 4 Methylphenol	5.00	4.77	95	70 - 130	
Naphthalene	5.00	4.74	95	70 - 130	
2-Nitroaniline	5.00	4.73	95	70 - 130	
3-Nitroaniline	5.00	4.90	98	70 - 130	
4-Nitroaniline	5.00	4.93	99	70 - 130	
Nitrobenzene	5.00	4.96	99	70 - 130	
2-Nitrophenol	5.00	4.53	91	70 - 130	
4-Nitrophenol	5.00	4.87	97	70 - 130	
N-Nitrosodi-n-propylamine	5.00	5.02	100	70 - 130	
N-Nitrosodiphenylamine	5.00	5.00	100	70 - 130	
Pentachlorophenol	10.0	9.30	93	70 - 130	
Phenanthrene	5.00	4.71	94	70 - 130	
Phenol	5.00	4.74	95	70 - 130	
Pyrene	5.00	4.84	97	70 - 130	
1,2,4-Trichlorobenzene	5.00	4.72	94	70 - 130	
2,4,5-Trichlorophenol	5.00	4.98	100	70 - 130	
2,4,6-Trichlorophenol	5.00	5.06	101	70 - 130	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	96	70 - 130
2-Fluorophenol (Surr)	94	50 - 150
Nitrobenzene-d5 (Surr)	96	50 - 150
Phenol-d5 (Surr)	96	50 - 150
Terphenyl-d14 (Surr)	94	50 - 150
2,4,6-Tribromophenol (Surr)	99	50 - 150

Method Reporting Limit Check - Batch: 240-79745 **Method: 8270C/DoD**
Preparation: N/A

Lab Sample ID:	MRL 240-79745/7	Analysis Batch:	240-79745	Instrument ID:	A4HP7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	30328007.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	03/28/2013 1317	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	4.70	94	70 - 130	
Acenaphthylene	5.00	4.85	97	70 - 130	
Anthracene	5.00	4.91	98	70 - 130	
Benzo[a]anthracene	5.00	4.83	97	70 - 130	
Benzo[a]pyrene	5.00	4.27	85	70 - 130	

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method Reporting Limit Check - Batch: 240-79745

Method: 8270C/DoD
Preparation: N/A

Lab Sample ID:	MRL 240-79745/7	Analysis Batch:	240-79745	Instrument ID:	A4HP7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	30328007.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	03/28/2013 1317	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	4.67	93	70 - 130	
Benzo[g,h,i]perylene	5.00	4.81	96	70 - 130	
Benzoic acid	10.0	10.5	105	70 - 130	
Benzo[k]fluoranthene	5.00	4.92	98	70 - 130	
Benzyl alcohol	5.00	4.73	95	70 - 130	
Bis(2-chloroethoxy)methane	5.00	4.85	97	70 - 130	
Bis(2-chloroethyl)ether	5.00	4.63	93	70 - 130	
bis (2-chloroisopropyl) ether	5.00	4.55	91	70 - 130	
Bis(2-ethylhexyl) phthalate	5.00	4.39	88	70 - 130	
4-Bromophenyl phenyl ether	5.00	4.72	94	70 - 130	
Butyl benzyl phthalate	5.00	4.28	86	70 - 130	
Carbazole	5.00	4.64	93	70 - 130	
4-Chloroaniline	5.00	4.73	95	70 - 130	
4-Chloro-3-methylphenol	5.00	4.95	99	70 - 130	
2-Chloronaphthalene	5.00	4.62	92	70 - 130	
2-Chlorophenol	5.00	4.85	97	70 - 130	
4-Chlorophenyl phenyl ether	5.00	4.79	96	70 - 130	
Chrysene	5.00	4.72	94	70 - 130	
Dibenz(a,h)anthracene	5.00	4.90	98	70 - 130	
Dibenzofuran	5.00	4.61	92	70 - 130	
1,2-Dichlorobenzene	5.00	4.76	95	70 - 130	
1,3-Dichlorobenzene	5.00	4.73	95	70 - 130	
1,4-Dichlorobenzene	5.00	4.70	94	70 - 130	
3,3'-Dichlorobenzidine	5.00	4.64	93	70 - 130	
2,4-Dichlorophenol	5.00	4.90	98	70 - 130	
Diethyl phthalate	5.00	4.74	95	70 - 130	
2,4-Dimethylphenol	5.00	5.00	100	70 - 130	
Dimethyl phthalate	5.00	4.69	94	70 - 130	
Di-n-butyl phthalate	5.00	4.39	88	70 - 130	
4,6-Dinitro-2-methylphenol	5.00	5.23	105	70 - 130	
2,4-Dinitrophenol	10.0	10.2	102	70 - 130	
2,4-Dinitrotoluene	5.00	4.54	91	70 - 130	
2,6-Dinitrotoluene	5.00	4.42	88	70 - 130	
Di-n-octyl phthalate	5.00	4.57	91	70 - 130	
Fluoranthene	5.00	4.73	95	70 - 130	
Fluorene	5.00	4.74	95	70 - 130	
Hexachlorobenzene	5.00	4.70	94	70 - 130	
Hexachlorobutadiene	5.00	4.77	95	70 - 130	
Hexachloroethane	5.00	4.83	97	70 - 130	
Indeno[1,2,3-cd]pyrene	5.00	4.89	98	70 - 130	
Isophorone	5.00	4.87	97	70 - 130	
2-Methylnaphthalene	5.00	4.73	95	70 - 130	
2-Methylphenol	5.00	4.76	95	70 - 130	
3 & 4 Methylphenol	5.00	4.79	96	70 - 130	
Naphthalene	5.00	4.73	95	70 - 130	
2-Nitroaniline	5.00	4.45	89	70 - 130	

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method Reporting Limit Check - Batch: 240-79745 **Method: 8270C/DoD**
Preparation: N/A

Lab Sample ID:	MRL 240-79745/7	Analysis Batch:	240-79745	Instrument ID:	A4HP7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	30328007.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	03/28/2013 1317	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	4.51	90	70 - 130	
4-Nitroaniline	5.00	4.89	98	70 - 130	
Nitrobenzene	5.00	4.86	97	70 - 130	
2-Nitrophenol	5.00	4.57	91	70 - 130	
4-Nitrophenol	5.00	4.64	93	70 - 130	
N-Nitrosodi-n-propylamine	5.00	4.84	97	70 - 130	
N-Nitrosodiphenylamine	5.00	0.00080	0	70 - 130	U ^
Pentachlorophenol	10.0	9.12	91	70 - 130	
Phenanthrene	5.00	4.62	92	70 - 130	
Phenol	5.00	4.77	95	70 - 130	
Pyrene	5.00	4.83	97	70 - 130	
1,2,4-Trichlorobenzene	5.00	4.82	96	70 - 130	
2,4,5-Trichlorophenol	5.00	4.90	98	70 - 130	
2,4,6-Trichlorophenol	5.00	4.94	99	70 - 130	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	92	70 - 130
2-Fluorophenol (Surr)	94	50 - 150
Nitrobenzene-d5 (Surr)	96	50 - 150
Phenol-d5 (Surr)	97	50 - 150
Terphenyl-d14 (Surr)	95	50 - 150
2,4,6-Tribromophenol (Surr)	91	50 - 150

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method Blank - Batch: 240-79100

Method: 8015B_GRO/DOD
Preparation: 5030B

Lab Sample ID:	MB 240-79100/38	Analysis Batch:	240-79100	Instrument ID:	YPID
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	YF032238.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/23/2013 0814	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	03/23/2013 0814			Injection Volume:	
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
C6-C12	57.2	J	25	100

Surrogate	% Rec	Acceptance Limits
Trifluorotoluene (Surr)	50	10 - 150

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method Reporting Limit Check - Batch: 240-79100 **Method: 8015B_GRO/DOD**
Preparation: 5030B

Lab Sample ID:	MRL 240-79100/37	Analysis Batch:	240-79100	Instrument ID:	YPID
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	YF032237.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/23/2013 0738	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	03/23/2013 0738			Injection Volume:	
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
C6-C12	100	153	153	70 - 130	^

Surrogate	% Rec	Acceptance Limits
Trifluorotoluene (Surr)	71	70 - 130

Lab Control Sample - Batch: 240-79100 **Method: 8015B_GRO/DOD**
Preparation: 5030B

Lab Sample ID:	LCS 240-79100/39	Analysis Batch:	240-79100	Instrument ID:	YPID
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	YF032239.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/23/2013 0851	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	03/23/2013 0851			Injection Volume:	
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
C6-C12	800	761	95	72 - 140	

Surrogate	% Rec	Acceptance Limits
Trifluorotoluene (Surr)	78	10 - 150

Method Reporting Limit Check - Batch: 240-79100 **Method: 8015B_GRO/DOD**
Preparation: 5030B

Lab Sample ID:	MRL 240-79100/45	Analysis Batch:	240-79100	Instrument ID:	YPID
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	YF032245.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/23/2013 1228	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	03/23/2013 1228			Injection Volume:	
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
C6-C12	100	151	151	70 - 130	^

Surrogate	% Rec	Acceptance Limits
Trifluorotoluene (Surr)	67 ^	70 - 130

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-79100

Method: 8015B_GRO/DOD
Preparation: 5030B

MS Lab Sample ID:	240-21987-1	Analysis Batch:	240-79100	Instrument ID:	YPID
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	YF032241.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/23/2013 1003			Final Weight/Volume:	5 mL
Prep Date:	03/23/2013 1003			Injection Volume:	
Leach Date:	N/A				

MSD Lab Sample ID:	240-21987-1	Analysis Batch:	240-79100	Instrument ID:	YPID
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	YF032242.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/23/2013 1040			Final Weight/Volume:	5 mL
Prep Date:	03/23/2013 1040			Injection Volume:	
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C6-C12	87	85	63 - 143	2	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Trifluorotoluene (Surr)	78	81	10 - 150

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-79100

Method: 8015B_GRO/DOD
Preparation: 5030B

MS Lab Sample ID:	240-21987-1	Units:	ug/L	MSD Lab Sample ID:	240-21987-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/23/2013 1003			Analysis Date:	03/23/2013 1040
Prep Date:	03/23/2013 1003			Prep Date:	03/23/2013 1040
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
C6-C12	74	J	800	800	767	751

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method Reporting Limit Check - Batch: 240-78992

Method: 8015B_DRO/DOD
Preparation: N/A

Lab Sample ID:	MRL 240-78992/4	Analysis Batch:	240-78992	Instrument ID:	A2HP5R
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P5B21004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	03/21/2013 1646	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	91.4	91	70 - 130	J

Surrogate	% Rec	Acceptance Limits
n-Nonane	102	70 - 130

Method Reporting Limit Check - Batch: 240-78992

Method: 8015B_DRO/DOD
Preparation: N/A

Lab Sample ID:	MRL 240-78992/9	Analysis Batch:	240-78992	Instrument ID:	A2HP5R
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P5B21009.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	03/21/2013 1915	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	98.8	99	70 - 130	J

Surrogate	% Rec	Acceptance Limits
n-Nonane	109	70 - 130

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method Blank - Batch: 240-78726

Method: 8081/DOD
Preparation: 3520C

Lab Sample ID:	MB 240-78726/2-A	Analysis Batch:	240-79056	Instrument ID:	A2HP3
Client Matrix:	Water	Prep Batch:	240-78726	Lab File ID:	P3032111.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	03/21/2013 1756	Units:	ug/L	Final Weight/Volume:	5.0 mL
Prep Date:	03/19/2013 0910			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	DL	LOQ
4,4'-DDD	0.010	U	0.0096	0.050
4,4'-DDE	0.010	U	0.0097	0.050
4,4'-DDT	0.030	U	0.016	0.050
Aldrin	0.010	U	0.0082	0.050
alpha-BHC	0.010	U	0.0070	0.050
alpha-Chlordane	0.014	U	0.014	0.050
beta-BHC	0.010	U	0.0084	0.050
delta-BHC	0.010	U	0.0087	0.050
Dieldrin	0.010	U	0.0075	0.050
Endosulfan I	0.013	U	0.013	0.050
Endosulfan II	0.012	U	0.012	0.050
Endosulfan sulfate	0.011	U	0.011	0.050
Endrin	0.011	U	0.011	0.050
Endrin aldehyde	0.011	U	0.011	0.050
Endrin ketone	0.010	U	0.0078	0.050
gamma-BHC (Lindane)	0.010	U	0.0064	0.050
gamma-Chlordane	0.012	U	0.012	0.050
Heptachlor	0.010	U	0.0080	0.050
Heptachlor epoxide	0.010	U	0.0071	0.050
Methoxychlor	0.032	U	0.032	0.10
Toxaphene	0.50	U	0.32	2.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	91	30 - 135
Tetrachloro-m-xylene	85	25 - 140

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	89	30 - 135
Tetrachloro-m-xylene	82	25 - 140

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Lab Control Sample - Batch: 240-78726

Method: 8081/DOD
Preparation: 3520C

Lab Sample ID:	LCS 240-78726/3-A	Analysis Batch:	240-79056	Instrument ID:	A2HP3
Client Matrix:	Water	Prep Batch:	240-78726	Lab File ID:	P3032109.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	03/21/2013 1716	Units:	ug/L	Final Weight/Volume:	5.0 mL
Prep Date:	03/19/2013 0910			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.500	0.547	109	25 - 150	
4,4'-DDE	0.500	0.505	101	35 - 140	
4,4'-DDT	0.500	0.596	119	45 - 140	
Aldrin	0.500	0.485	97	25 - 140	
alpha-BHC	0.500	0.469	94	60 - 130	
alpha-Chlordane	0.500	0.492	98	65 - 125	
beta-BHC	0.500	0.474	95	65 - 125	
delta-BHC	0.500	0.518	104	45 - 135	
Dieldrin	0.500	0.514	103	60 - 130	
Endosulfan I	0.500	0.418	84	50 - 110	
Endosulfan II	0.500	0.454	91	30 - 130	
Endosulfan sulfate	0.500	0.526	105	55 - 135	
Endrin	0.500	0.520	104	55 - 135	
Endrin aldehyde	0.500	0.486	97	55 - 135	
Endrin ketone	0.500	0.510	102	75 - 125	
gamma-BHC (Lindane)	0.500	0.476	95	25 - 135	
gamma-Chlordane	0.500	0.510	102	60 - 125	
Heptachlor	0.500	0.492	98	40 - 130	
Heptachlor epoxide	0.500	0.501	100	60 - 130	
Methoxychlor	0.500	0.572	114	55 - 150	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	56	30 - 135
Tetrachloro-m-xylene	79	25 - 140

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	55	30 - 135
Tetrachloro-m-xylene	78	25 - 140

Method Reporting Limit Check - Batch: 240-79056 **Method: 8081/DOD**
Preparation: N/A

Lab Sample ID:	MRL 240-79056/8	Analysis Batch:	240-79056	Instrument ID:	A2HP3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P3032108.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	03/21/2013 1656	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.00500	0.00524	105	70 - 130	
4,4'-DDE	0.00500	0.00490	98	70 - 130	J
4,4'-DDT	0.00500	0.00553	111	70 - 130	
Aldrin	0.00500	0.00494	99	70 - 130	J
alpha-BHC	0.00500	0.00446	89	70 - 130	J
alpha-Chlordane	0.00500	0.00535	107	70 - 130	
beta-BHC	0.00500	0.00551	110	70 - 130	
delta-BHC	0.00500	0.00478	96	70 - 130	J
Dieldrin	0.00500	0.00529	106	70 - 130	
Endosulfan I	0.00500	0.00533	107	70 - 130	
Endosulfan II	0.00500	0.00558	112	70 - 130	
Endosulfan sulfate	0.00500	0.00584	117	70 - 130	
Endrin	0.00500	0.00539	108	70 - 130	
Endrin aldehyde	0.00500	0.00616	123	70 - 130	
Endrin ketone	0.00500	0.00582	116	70 - 130	
gamma-BHC (Lindane)	0.00500	0.00467	93	70 - 130	J
gamma-Chlordane	0.00500	0.00521	104	70 - 130	
Heptachlor	0.00500	0.00524	105	70 - 130	
Heptachlor epoxide	0.00500	0.00532	106	70 - 130	
Methoxychlor	0.00500	0.00644	129	70 - 130	J

Method Reporting Limit Check - Batch: 240-79056 **Method: 8081/DOD**
Preparation: N/A

Lab Sample ID:	MRL 240-79056/8	Analysis Batch:	240-79056	Instrument ID:	A2HP3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P3032108.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	03/21/2013 1656	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.00500	0.00539	108	70 - 130	
4,4'-DDE	0.00500	0.00507	101	70 - 130	
4,4'-DDT	0.00500	0.00544	109	70 - 130	
Aldrin	0.00500	0.00499	100	70 - 130	J
alpha-BHC	0.00500	0.00450	90	70 - 130	J
alpha-Chlordane	0.00500	0.00547	109	70 - 130	
beta-BHC	0.00500	0.00580	116	70 - 130	
delta-BHC	0.00500	0.00497	99	70 - 130	J
Dieldrin	0.00500	0.00533	107	70 - 130	
Endosulfan I	0.00500	0.00567	113	70 - 130	
Endosulfan II	0.00500	0.00591	118	70 - 130	
Endosulfan sulfate	0.00500	0.00610	122	70 - 130	

Method Reporting Limit Check - Batch: 240-79056

Method: 8081/DOD
Preparation: N/A

Lab Sample ID:	MRL 240-79056/8	Analysis Batch:	240-79056	Instrument ID:	A2HP3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P3032108.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	03/21/2013 1656	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Endrin	0.00500	0.00555	111	70 - 130	
Endrin aldehyde	0.00500	0.00603	121	70 - 130	
Endrin ketone	0.00500	0.00605	121	70 - 130	
gamma-BHC (Lindane)	0.00500	0.00485	97	70 - 130	J
gamma-Chlordane	0.00500	0.00555	111	70 - 130	
Heptachlor	0.00500	0.00521	104	70 - 130	
Heptachlor epoxide	0.00500	0.00540	108	70 - 130	
Methoxychlor	0.00500	0.00609	122	70 - 130	J

Method Reporting Limit Check - Batch: 240-79056

Method: 8081/DOD
Preparation: N/A

Lab Sample ID:	MRL 240-79056/15	Analysis Batch:	240-79056	Instrument ID:	A2HP3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P3032115.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	03/21/2013 1917	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.00500	0.00543	109	70 - 130	
4,4'-DDE	0.00500	0.00531	106	70 - 130	
4,4'-DDT	0.00500	0.00582	116	70 - 130	
Aldrin	0.00500	0.00506	101	70 - 130	
alpha-BHC	0.00500	0.00458	92	70 - 130	J
alpha-Chlordane	0.00500	0.00564	113	70 - 130	
beta-BHC	0.00500	0.00563	113	70 - 130	
delta-BHC	0.00500	0.00491	98	70 - 130	J
Dieldrin	0.00500	0.00550	110	70 - 130	
Endosulfan I	0.00500	0.00566	113	70 - 130	
Endosulfan II	0.00500	0.00569	114	70 - 130	
Endosulfan sulfate	0.00500	0.00604	121	70 - 130	
Endrin	0.00500	0.00566	113	70 - 130	
Endrin aldehyde	0.00500	0.00601	120	70 - 130	
Endrin ketone	0.00500	0.00600	120	70 - 130	
gamma-BHC (Lindane)	0.00500	0.00474	95	70 - 130	J
gamma-Chlordane	0.00500	0.00543	109	70 - 130	
Heptachlor	0.00500	0.00535	107	70 - 130	
Heptachlor epoxide	0.00500	0.00546	109	70 - 130	
Methoxychlor	0.00500	0.00695	139	70 - 130	J ^

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method Reporting Limit Check - Batch: 240-79056

Method: 8081/DOD
Preparation: N/A

Lab Sample ID:	MRL 240-79056/15	Analysis Batch:	240-79056	Instrument ID:	A2HP3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P3032115.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	03/21/2013 1917	Units:	ng/uL	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.00500	0.00547	109	70 - 130	
4,4'-DDE	0.00500	0.00504	101	70 - 130	
4,4'-DDT	0.00500	0.00574	115	70 - 130	
Aldrin	0.00500	0.00511	102	70 - 130	
alpha-BHC	0.00500	0.00460	92	70 - 130	J
alpha-Chlordane	0.00500	0.00539	108	70 - 130	
beta-BHC	0.00500	0.00595	119	70 - 130	
delta-BHC	0.00500	0.00510	102	70 - 130	
Dieldrin	0.00500	0.00528	106	70 - 130	
Endosulfan I	0.00500	0.00557	111	70 - 130	
Endosulfan II	0.00500	0.00605	121	70 - 130	
Endosulfan sulfate	0.00500	0.00625	125	70 - 130	
Endrin	0.00500	0.00562	112	70 - 130	
Endrin aldehyde	0.00500	0.00618	124	70 - 130	
Endrin ketone	0.00500	0.00624	125	70 - 130	
gamma-BHC (Lindane)	0.00500	0.00494	99	70 - 130	J
gamma-Chlordane	0.00500	0.00545	109	70 - 130	
Heptachlor	0.00500	0.00529	106	70 - 130	
Heptachlor epoxide	0.00500	0.00548	110	70 - 130	
Methoxychlor	0.00500	0.00645	129	70 - 130	J

Method Blank - Batch: 240-78721

Method: 8082/DOD
Preparation: 3520C

Lab Sample ID:	MB 240-78721/17-A	Analysis Batch:	240-79577	Instrument ID:	A2HP4
Client Matrix:	Water	Prep Batch:	240-78721	Lab File ID:	P4000020.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	03/27/2013 1228	Units:	ug/L	Final Weight/Volume:	5.0 mL
Prep Date:	03/19/2013 0852			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	DL	LOQ
Aroclor-1221	0.20	U	0.13	0.50
Aroclor-1016	0.20	U	0.17	0.50
Aroclor-1232	0.20	U	0.16	0.50
Aroclor-1242	0.40	U	0.22	0.50
Aroclor-1248	0.20	U	0.10	0.50
Aroclor-1254	0.20	U	0.16	0.50
Aroclor-1260	0.20	U	0.17	0.50

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	74	40 - 140
DCB Decachlorobiphenyl	77	40 - 135

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	88	40 - 140
DCB Decachlorobiphenyl	75	40 - 135

Lab Control Sample - Batch: 240-78721

Method: 8082/DOD
Preparation: 3520C

Lab Sample ID:	LCS 240-78721/18-A	Analysis Batch:	240-79577	Instrument ID:	A2HP4
Client Matrix:	Water	Prep Batch:	240-78721	Lab File ID:	P4000029.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	03/27/2013 1459	Units:	ug/L	Final Weight/Volume:	5.0 mL
Prep Date:	03/19/2013 0852			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor-1016	5.00	4.44	89	25 - 145	
Aroclor-1260	5.00	4.51	90	30 - 145	

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	73	40 - 140
DCB Decachlorobiphenyl	79	40 - 135

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	88	40 - 140
DCB Decachlorobiphenyl	87	40 - 135

Method Reporting Limit Check - Batch: 240-79577 **Method: 8082/DOD**
Preparation: N/A

Lab Sample ID:	MRL 240-79577/4	Analysis Batch:	240-79577	Instrument ID:	A2HP4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P4000004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	03/27/2013 0817	Units:	ng/uL	Final Weight/Volume:	1.0 mL
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor-1016	0.0500	0.0545	109	70 - 130	
Aroclor-1260	0.0500	0.0545	109	70 - 130	

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	119	50 - 150
DCB Decachlorobiphenyl	116	50 - 150

Method Reporting Limit Check - Batch: 240-79577 **Method: 8082/DOD**
Preparation: N/A

Lab Sample ID:	MRL 240-79577/31	Analysis Batch:	240-79577	Instrument ID:	A2HP4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P4000031.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	03/27/2013 1531	Units:	ng/uL	Final Weight/Volume:	1.0 mL
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor-1016	0.0500	0.0543	109	70 - 130	
Aroclor-1260	0.0500	0.0536	107	70 - 130	

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	112	50 - 150
DCB Decachlorobiphenyl	120	50 - 150

Method Reporting Limit Check - Batch: 240-79577 **Method: 8082/DOD**
Preparation: N/A

Lab Sample ID:	MRL 240-79577/31	Analysis Batch:	240-79577	Instrument ID:	A2HP4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P4000031.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	03/27/2013 1531	Units:	ng/uL	Final Weight/Volume:	1.0 mL
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor-1016	0.0500	0.0601	120	70 - 130	
Aroclor-1260	0.0500	0.0571	114	70 - 130	

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	136	50 - 150
DCB Decachlorobiphenyl	132	50 - 150

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method Blank - Batch: 240-78626

Method: 8151/DOD
Preparation: 8151A

Lab Sample ID:	MB 240-78626/3-A	Analysis Batch:	240-79197	Instrument ID:	A2HP1
Client Matrix:	Water	Prep Batch:	240-78626	Lab File ID:	P1000016.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	500 mL
Analysis Date:	03/22/2013 2121	Units:	ug/L	Final Weight/Volume:	100 mL
Prep Date:	03/18/2013 1035			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	DL	LOQ
2,4-D	0.50	U	0.41	4.0
Dalapon	0.20	U	0.17	2.0
2,4-DB	1.0	U	0.69	4.0
Dicamba	1.0	U	0.52	2.0
Dichlorprop	1.0	U	0.86	4.0
Dinoseb	0.20	U	0.087	0.60
MCPA	400	U	390	400
MCPP	400	U	400	400
Pentachlorophenol	0.040	U	0.024	0.10
Silvex (2,4,5-TP)	0.20	U	0.20	1.0
2,4,5-T	0.50	U	0.30	1.0

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	88	32 - 112

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	79	32 - 112

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Lab Control Sample - Batch: 240-78626

Method: 8151/DOD
Preparation: 8151A

Lab Sample ID:	LCS 240-78626/4-A	Analysis Batch:	240-79197	Instrument ID:	A2HP1
Client Matrix:	Water	Prep Batch:	240-78626	Lab File ID:	P1000017.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	500 mL
Analysis Date:	03/22/2013 2144	Units:	ug/L	Final Weight/Volume:	100 mL
Prep Date:	03/18/2013 1035			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4-D	40.0	41.7	104	35 - 115	
Dalapon	20.0	17.5	87	40 - 110	
2,4-DB	40.0	21.4	53	45 - 130	
Dicamba	20.0	19.7	98	60 - 110	
Dichlorprop	40.0	50.2	126	70 - 120	Q
Dinoseb	6.00	5.02	84	20 - 110	
MCPA	4000	3800	95	60 - 145	
Silvex (2,4,5-TP)	10.0	10.2	102	50 - 115	
2,4,5-T	10.0	11.1	111	35 - 110	Q

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	99	32 - 112

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	91	32 - 112

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method Reporting Limit Check - Batch: 240-79197

Method: 8151/DOD
Preparation: N/A

Lab Sample ID:	MRL 240-79197/13	Analysis Batch:	240-79197	Instrument ID:	A2HP1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P1000013.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	03/22/2013 2011	Units:	ng/uL	Final Weight/Volume:	1.0 mL
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4-D	0.0200	0.0205	103	70 - 130	
Dalapon	0.0100	0.0122	122	70 - 130	
2,4-DB	0.0200	0.0193	97	70 - 130	
Dicamba	0.0100	0.0109	109	70 - 130	
Dichlorprop	0.0200	0.0223	112	70 - 130	
Dinoseb	0.00300	0.00303	101	70 - 130	M
MCPA	2.00	0.925	46	70 - 130	^
Silvex (2,4,5-TP)	0.00500	0.00507	101	70 - 130	
2,4,5-T	0.00500	0.00473	95	70 - 130	

Surrogate	% Rec		Acceptance Limits
2,4-Dichlorophenylacetic acid	117	Q	32 - 112

Method Reporting Limit Check - Batch: 240-79197

Method: 8151/DOD
Preparation: N/A

Lab Sample ID:	MRL 240-79197/13	Analysis Batch:	240-79197	Instrument ID:	A2HP1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P1000013.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	03/22/2013 2011	Units:	ng/uL	Final Weight/Volume:	1.0 mL
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4-D	0.0200	0.0231	115	70 - 130	
Dalapon	0.0100	0.0127	127	70 - 130	
2,4-DB	0.0200	0.0208	104	70 - 130	
Dicamba	0.0100	0.0120	120	70 - 130	
Dichlorprop	0.0200	0.0259	130	70 - 130	
Dinoseb	0.00300	0.00365	122	70 - 130	
MCPA	2.00	0.962	48	70 - 130	^
Silvex (2,4,5-TP)	0.00500	0.00550	110	70 - 130	
2,4,5-T	0.00500	0.00521	104	70 - 130	

Surrogate	% Rec		Acceptance Limits
2,4-Dichlorophenylacetic acid	130	Q	32 - 112

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method Reporting Limit Check - Batch: 240-79197

Method: 8151/DOD
Preparation: N/A

Lab Sample ID:	MRL 240-79197/20	Analysis Batch:	240-79197	Instrument ID:	A2HP1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P1000020.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	03/22/2013 2254	Units:	ng/uL	Final Weight/Volume:	1.0 mL
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4-D	0.0200	0.0212	106	70 - 130	
Dalapon	0.0100	0.0114	114	70 - 130	
2,4-DB	0.0200	0.0192	96	70 - 130	M
Dicamba	0.0100	0.0113	113	70 - 130	
Dichlorprop	0.0200	0.0225	113	70 - 130	
Dinoseb	0.00300	0.00295	98	70 - 130	
MCPA	2.00	1.03	51	70 - 130	^
Silvex (2,4,5-TP)	0.00500	0.00502	100	70 - 130	
2,4,5-T	0.00500	0.00473	95	70 - 130	

Surrogate	% Rec		Acceptance Limits
2,4-Dichlorophenylacetic acid	119	Q	32 - 112

Method Reporting Limit Check - Batch: 240-79197

Method: 8151/DOD
Preparation: N/A

Lab Sample ID:	MRL 240-79197/20	Analysis Batch:	240-79197	Instrument ID:	A2HP1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P1000020.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	03/22/2013 2254	Units:	ng/uL	Final Weight/Volume:	1.0 mL
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4-D	0.0200	0.0231	116	70 - 130	
Dalapon	0.0100	0.0127	127	70 - 130	
2,4-DB	0.0200	0.0210	105	70 - 130	
Dicamba	0.0100	0.0122	122	70 - 130	
Dichlorprop	0.0200	0.0262	131	70 - 130	^
Dinoseb	0.00300	0.00368	123	70 - 130	
MCPA	2.00	0.998	50	70 - 130	^
Silvex (2,4,5-TP)	0.00500	0.00559	112	70 - 130	
2,4,5-T	0.00500	0.00518	104	70 - 130	

Surrogate	% Rec		Acceptance Limits
2,4-Dichlorophenylacetic acid	132	Q	32 - 112

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method Blank - Batch: 320-12568

Method: 8330 Modified
Preparation: Filtration

Lab Sample ID:	MB 320-12568/1-A	Analysis Batch:	320-12714	Instrument ID:	PDA1
Client Matrix:	Water	Prep Batch:	320-12568	Lab File ID:	320-0003395-013-1.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	03/21/2013 1301	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	03/19/2013 1418			Injection Volume:	50 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Nitroguanidine	6.0	U	2.4	20

Method Blank - Batch: 320-12568

Method: 8330 Modified
Preparation: Filtration

Lab Sample ID:	MB 320-12568/1-A	Analysis Batch:	320-12878	Instrument ID:	PDA1
Client Matrix:	Water	Prep Batch:	320-12568	Lab File ID:	320-0003448-006-1.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	03/22/2013 1532	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	03/19/2013 1418			Injection Volume:	50 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Nitroguanidine	6.0	U	2.4	20

Lab Control Sample - Batch: 320-12568

Method: 8330 Modified
Preparation: Filtration

Lab Sample ID:	LCS 320-12568/2-A	Analysis Batch:	320-12714	Instrument ID:	PDA1
Client Matrix:	Water	Prep Batch:	320-12568	Lab File ID:	320-0003395-014-1.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	03/21/2013 1316	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	03/19/2013 1418			Injection Volume:	50 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitroguanidine	250	250	100	73 - 117	

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 320-12568

Method: 8330 Modified
Preparation: Filtration

MS Lab Sample ID:	240-21987-1	Analysis Batch:	320-12714	Instrument ID:	PDA1
Client Matrix:	Water	Prep Batch:	320-12568	Lab File ID:	320-0003395-016-1.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	03/21/2013 1345			Final Weight/Volume:	10 mL
Prep Date:	03/19/2013 1418			Injection Volume:	50 uL
Leach Date:	N/A				

MSD Lab Sample ID:	240-21987-1	Analysis Batch:	320-12714	Instrument ID:	PDA1
Client Matrix:	Water	Prep Batch:	320-12568	Lab File ID:	320-0003395-017-1.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	03/21/2013 1400			Final Weight/Volume:	10 mL
Prep Date:	03/19/2013 1418			Injection Volume:	50 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitroguanidine	105	103	73 - 117	2	15		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 320-12568

Method: 8330 Modified
Preparation: Filtration

MS Lab Sample ID:	240-21987-1	Units:	ug/L	MSD Lab Sample ID:	240-21987-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/21/2013 1345			Analysis Date:	03/21/2013 1400
Prep Date:	03/19/2013 1418			Prep Date:	03/19/2013 1418
Leach Date:	N/A			Leach Date:	N/A

	Sample		MS Spike	MSD Spike	MS	MSD
Analyte	Result/Qual		Amount	Amount	Result/Qual	Result/Qual
Nitroguanidine	6.0	J	250	250	268	263

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method Blank - Batch: 320-12565

Method: 8330B
Preparation: 8330-Prep

Lab Sample ID:	MB 320-12565/1-A	Analysis Batch:	320-12703	Instrument ID:	LC10
Client Matrix:	Water	Prep Batch:	320-12565	Lab File ID:	U000005.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	03/21/2013 1251	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/19/2013 1352			Injection Volume:	500 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	DL	LOQ
1,3,5-Trinitrobenzene	0.050	U	0.031	0.10
1,3-Dinitrobenzene	0.10	U	0.050	0.10
2,4,6-Trinitrotoluene	0.10	U	0.050	0.10
2,4-Dinitrotoluene	0.10	U	0.050	0.10
2,6-Dinitrotoluene	0.10	U	0.050	0.10
2-Amino-4,6-dinitrotoluene	0.10	U	0.015	0.20
2-Nitrotoluene	0.10	U	0.088	0.50
3-Nitrotoluene	0.10	U	0.057	0.50
4-Nitrotoluene	0.10	U	0.088	0.50
4-Amino-2,6-dinitrotoluene	0.10	U	0.050	0.10
HMX	0.050	U	0.036	0.10
RDX	0.050	U	0.036	0.10
Nitrobenzene	0.10	U	0.050	0.10
Tetryl	0.10	U	0.050	0.10
Nitroglycerin	0.50	U	0.33	0.65
PETN	0.50	U	0.30	0.65

Surrogate	% Rec	Acceptance Limits
3,4-Dinitrotoluene	87	79 - 111

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Lab Control Sample - Batch: 320-12565

Method: 8330B
Preparation: 8330-Prep

Lab Sample ID:	LCS 320-12565/2-A	Analysis Batch:	320-12703	Instrument ID:	LC10
Client Matrix:	Water	Prep Batch:	320-12565	Lab File ID:	U000006.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	03/21/2013 1331	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/19/2013 1352			Injection Volume:	500 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,3,5-Trinitrobenzene	1.00	1.03	103	74 - 120	
1,3-Dinitrobenzene	1.00	1.05	105	72 - 123	
2,4,6-Trinitrotoluene	1.00	0.901	90	69 - 111	
2,4-Dinitrotoluene	1.00	0.977	98	70 - 119	
2,6-Dinitrotoluene	1.00	0.969	97	71 - 119	
2-Amino-4,6-dinitrotoluene	1.00	0.987	99	77 - 123	
2-Nitrotoluene	1.00	0.930	93	64 - 120	
3-Nitrotoluene	1.00	0.918	92	67 - 114	
4-Nitrotoluene	1.00	0.933	93	67 - 115	
4-Amino-2,6-dinitrotoluene	1.00	0.983	98	68 - 113	
HMX	1.00	1.02	102	67 - 115	
RDX	1.00	1.06	106	68 - 122	
Nitrobenzene	1.00	1.01	101	69 - 119	
Tetryl	1.00	0.881	88	66 - 105	
Nitroglycerin	5.00	4.65	93	85 - 115	
PETN	5.00	4.46	89	84 - 117	

Surrogate	% Rec	Acceptance Limits
3,4-Dinitrotoluene	87	79 - 111

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method Blank - Batch: 180-66565

Method: 6020/DOD
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 180-66565/1-A	Analysis Batch:	180-68058	Instrument ID:	M
Client Matrix:	Water	Prep Batch:	180-66565	Lab File ID:	M30401A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	04/01/2013 1524	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/18/2013 1302				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Silver	0.20	U	0.11	1.0
Aluminum	4.59	J	2.6	30
Arsenic	0.50	U	0.29	1.0
Barium	0.181	J Q	0.098	10
Beryllium	0.090	U	0.045	1.0
Calcium	20	U	9.4	100
Cadmium	0.30	U	0.13	1.0
Chromium	1.0	U	0.54	2.0
Cobalt	0.050	U Q	0.026	0.50
Copper	0.315	J Q	0.24	2.0
Iron	20	U	11	50
Magnesium	22	U	11	100
Manganese	0.314	J Q	0.16	5.0
Sodium	67.4	J	27	100
Nickel	0.35	U	0.17	1.0
Lead	0.236	J	0.15	1.0
Antimony	0.90	U	0.46	2.0
Thallium	0.20	U	0.10	1.0
Vanadium	0.60	U	0.30	1.0
Zinc	2.0	U Q	0.96	5.0
Potassium	40.6	J	32	100
Selenium	1.0	U	0.51	5.0

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 180-66565

Method: 6020/DOD
Preparation: 3005A
Total Recoverable

LCS Lab Sample ID:	LCS 180-66565/2-A	Analysis Batch:	180-68058	Instrument ID:	M
Client Matrix:	Water	Prep Batch:	180-66565	Lab File ID:	M30401A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	04/01/2013 1529	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/18/2013 1302				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 180-66565/3-A	Analysis Batch:	180-68058	Instrument ID:	M
Client Matrix:	Water	Prep Batch:	180-66565	Lab File ID:	M30401A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	04/01/2013 1534	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/18/2013 1302				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Silver	94	96	80 - 120	2	20		
Aluminum	84	92	80 - 120	9	20		
Arsenic	90	91	80 - 120	2	20		
Barium	90	90	80 - 120	0	20	Q	Q
Beryllium	93	93	80 - 120	0	20		
Calcium	92	94	80 - 120	2	20		
Cadmium	97	98	80 - 120	2	20		
Chromium	91	92	80 - 120	1	20		
Cobalt	90	91	80 - 120	1	20	Q	Q
Copper	91	92	80 - 120	1	20	Q	Q
Iron	105	107	80 - 120	2	20		
Magnesium	89	89	80 - 120	1	20		
Manganese	97	98	80 - 120	1	20	Q	Q
Sodium	90	90	80 - 120	1	20		
Nickel	90	90	80 - 120	0	20		
Lead	91	92	80 - 120	1	20		
Antimony	93	94	80 - 120	1	20		
Thallium	88	90	80 - 120	2	20		
Vanadium	92	93	80 - 120	1	20		
Zinc	96	98	80 - 120	2	20	Q	Q
Potassium	90	90	80 - 120	0	20		
Selenium	102	103	80 - 120	1	20		

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 180-66565

Method: 6020/DOD
Preparation: 3005A
Total Recoverable

LCS Lab Sample ID:	LCS 180-66565/2-A	Units:	ug/L	LCSD Lab Sample ID:	LCSD 180-66565/3-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/01/2013 1529			Analysis Date:	04/01/2013 1534
Prep Date:	03/18/2013 1302			Prep Date:	03/18/2013 1302
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Silver	50.0	50.0	47.2		48.0	
Aluminum	2000	2000	1680		1840	
Arsenic	40.0	40.0	36.0		36.6	
Barium	2000	2000	1800	Q	1800	Q
Beryllium	50.0	50.0	46.4		46.4	
Calcium	50000	50000	45900		46800	
Cadmium	50.0	50.0	48.4		49.2	
Chromium	200	200	183		185	
Cobalt	500	500	452	Q	455	Q
Copper	250	250	229	Q	231	Q
Iron	1000	1000	1050		1070	
Magnesium	50000	50000	44400		44700	
Manganese	500	500	485	Q	491	Q
Sodium	50000	50000	44900		45100	
Nickel	500	500	452		451	
Lead	20.0	20.0	18.1		18.3	
Antimony	500	500	465		469	
Thallium	50.0	50.0	43.9		44.9	
Vanadium	500	500	458		463	
Zinc	500	500	481	Q	489	Q
Potassium	50000	50000	44900		45000	
Selenium	10.0	10.0	10.2		10.3	

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Post Digestion Spike - Batch: 180-66565

Method: 6020/DOD
Preparation: 3005A
Total Recoverable

Lab Sample ID:	240-21987-1	Analysis Batch:	180-68058	Instrument ID:	M
Client Matrix:	Water	Prep Batch:	180-66565	Lab File ID:	M30401A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	04/01/2013 1551	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/18/2013 1302				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Silver	0.20	U	50.0	46.0	92	80 - 120	
Aluminum	5.0	U	2000	1740	87	80 - 120	
Arsenic	0.48	J	40.0	36.6	90	80 - 120	
Barium	41		2000	1810	89	80 - 120	Q
Beryllium	0.090	U	50.0	47.6	95	80 - 120	
Calcium	65000		50000	114000	98	80 - 120	
Cadmium	0.30	U	50.0	47.4	95	80 - 120	
Chromium	1.3	J	200	189	94	80 - 120	
Cobalt	0.054	J	500	457	91	80 - 120	Q
Copper	1.4	J	250	227	90	80 - 120	Q
Iron	590		1000	1660	107	80 - 120	
Magnesium	27000		50000	72000	91	80 - 120	
Manganese	94		500	597	101	80 - 120	Q
Sodium	37000		50000	83700	94	80 - 120	
Nickel	0.35	U	500	448	90	80 - 120	
Lead	0.30	U	20.0	18.2	91	80 - 120	
Antimony	0.90	U	500	448	90	80 - 120	
Thallium	0.11	J	50.0	45.5	91	80 - 120	
Vanadium	0.60	U	500	477	95	80 - 120	
Zinc	5.1		500	475	94	80 - 120	Q
Potassium	2500		50000	48300	92	80 - 120	
Selenium	1.0	U	10.0	9.67	97	80 - 120	

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Serial Dilution - Batch: 180-66565

Method: 6020/DOD
Preparation: 3005A
Total Recoverable

Lab Sample ID:	240-21987-1	Analysis Batch:	180-68058	Instrument ID:	M
Client Matrix:	Water	Prep Batch:	180-66565	Lab File ID:	M30401A.xml
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	04/01/2013 1547	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/18/2013 1302				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Silver	0.20	U	1.0	NC	10	U
Aluminum	5.0	U	25	NC	10	U
Arsenic	0.48	J	2.5	NC	10	U
Barium	41		39.5	2.9	10	J Q D
Beryllium	0.090	U	0.45	NC	10	U
Calcium	65000		64700	1.3	10	D
Cadmium	0.30	U	1.5	NC	10	U
Chromium	1.3	J	5.0	NC	10	U
Cobalt	0.054	J	0.25	NC	10	U Q
Copper	1.4	J	1.71	NC	10	J Q D
Iron	590		597	1.5	10	D
Magnesium	27000		27200	2.4	10	D
Manganese	94		93.5	1.1	10	Q D
Sodium	37000		36500	0.42	10	D
Nickel	0.35	U	1.8	NC	10	U
Lead	0.30	U	1.5	NC	10	U
Antimony	0.90	U	4.5	NC	10	U
Thallium	0.11	J	1.0	NC	10	U
Vanadium	0.60	U	3.0	NC	10	U
Zinc	5.1		7.66	NC	10	J Q D
Potassium	2500		2430	1.2	10	D
Selenium	1.0	U	5.0	NC	10	U

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method Blank - Batch: 240-78405

Method: 7196A
Preparation: N/A

Lab Sample ID:	MB 240-78405/8	Analysis Batch:	240-78405	Instrument ID:	BERT
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/14/2013 1742	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Cr (VI)	0.0040	U	0.0020	0.020

Lab Control Sample - Batch: 240-78405

Method: 7196A
Preparation: N/A

Lab Sample ID:	LCS 240-78405/9	Analysis Batch:	240-78405	Instrument ID:	BERT
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/14/2013 1743	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cr (VI)	0.250	0.267	107	80 - 118	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-78405

Method: 7196A
Preparation: N/A

MS Lab Sample ID:	240-21987-1	Analysis Batch:	240-78405	Instrument ID:	BERT
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/14/2013 1746			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	240-21987-1	Analysis Batch:	240-78405	Instrument ID:	BERT
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/14/2013 1747			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cr (VI)	111	102	41 - 136	9	20		

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-78405

Method: 7196A
Preparation: N/A

MS Lab Sample ID:	240-21987-1	Units: mg/L	MSD Lab Sample ID:	240-21987-1	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	03/14/2013 1746		Analysis Date:	03/14/2013 1747	
Prep Date:	N/A		Prep Date:	N/A	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cr (VI)	0.0040	U	0.250	0.250	0.278	0.255

Duplicate - Batch: 240-78405

Method: 7196A
Preparation: N/A

Lab Sample ID:	240-21987-1	Analysis Batch:	240-78405	Instrument ID:	BERT
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/14/2013 1748	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Cr (VI)	0.0040	U	0.0040	NC		U

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method Blank - Batch: 320-12938

Method: WS-WC-0050
Preparation: 353 (NCell-Hyd)

Lab Sample ID:	MB 320-12877/1-B	Analysis Batch:	320-13190	Instrument ID:	FS4
Client Matrix:	Water	Prep Batch:	320-12938	Lab File ID:	032513A.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2013 1247	Units:	mg/L	Final Weight/Volume:	40 mL
Prep Date:	03/25/2013 0823				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Nitrocellulose	1.0	U	0.48	2.0

Lab Control Sample - Batch: 320-12938

Method: WS-WC-0050
Preparation: 353 (NCell-Hyd)

Lab Sample ID:	LCS 320-12877/2-B	Analysis Batch:	320-13190	Instrument ID:	FS4
Client Matrix:	Water	Prep Batch:	320-12938	Lab File ID:	032513A.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2013 1249	Units:	mg/L	Final Weight/Volume:	40 mL
Prep Date:	03/25/2013 0823				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrocellulose	5.10	4.58	90	26 - 144	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 320-12938

Method: WS-WC-0050
Preparation: 353 (NCell-Hyd)

MS Lab Sample ID:	240-21987-1	Analysis Batch:	320-13190	Instrument ID:	FS4
Client Matrix:	Water	Prep Batch:	320-12938	Lab File ID:	032513A.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2013 1253			Final Weight/Volume:	40 mL
Prep Date:	03/25/2013 0823				
Leach Date:	N/A				

MSD Lab Sample ID:	240-21987-1	Analysis Batch:	320-13190	Instrument ID:	FS4
Client Matrix:	Water	Prep Batch:	320-12938	Lab File ID:	032513A.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2013 1255			Final Weight/Volume:	40 mL
Prep Date:	03/25/2013 0823				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitrocellulose	98	83	26 - 144	16	45		

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 320-12938

Method: WS-WC-0050
Preparation: 353 (NCell-Hyd)

MS Lab Sample ID:	240-21987-1	Units:	mg/L	MSD Lab Sample ID:	240-21987-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/25/2013 1253			Analysis Date:	03/25/2013 1255
Prep Date:	03/25/2013 0823			Prep Date:	03/25/2013 0823
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nitrocellulose	1.0	U	5.10	5.10	4.99	4.25

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Method Reporting Limit Check - Batch: 320-13190 **Method: WS-WC-0050**
Preparation: N/A

Lab Sample ID:	MRL 320-13190/10	Analysis Batch:	320-13190	Instrument ID:	FS4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	032513A.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/25/2013 1237	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrocellulose	0.420	1.0	98	70 - 130	U

Method Reporting Limit Check - Batch: 320-13190 **Method: WS-WC-0050**
Preparation: N/A

Lab Sample ID:	MRL 320-13190/20	Analysis Batch:	320-13190	Instrument ID:	FS4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	032513A.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/25/2013 1257	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrocellulose	0.420	1.0	102	70 - 130	U

DATA REPORTING QUALIFIERS

Client: Environmental Chemical Corp. Job Number: 240-21987-1

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
	U	Undetected at the Limit of Detection.
GC VOA		
	B	Blank contamination: The analyte was detected above one-half the reporting limit in an associated blank.
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	^	Instrument related QC exceeds the control limits
GC 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.
	U	Undetected at the Limit of Detection.
HPLC/IC		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	M	Manual integrated compound.
	U	Undetected at the Limit of Detection.

DATA REPORTING QUALIFIERS

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Lab Section	Qualifier	Description
Metals		
	B	Blank contamination: The analyte was detected above one-half the reporting limit in an associated blank.
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	Q	One or more quality control criteria failed.
	D	The reported value is from a dilution.
	U	Undetected at the Limit of Detection.
General Chemistry		
	U	Undetected at the Limit of Detection.

Client: Environmental Chemical Corp. Job Number: 240-21987-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-79725					
LCS 240-79725/4	Lab Control Sample	T	Water	8260B/DoD	
MB 240-79725/6	Method Blank	T	Water	8260B/DoD	
240-21987-1	079-0007-0001-SOURCEWATER	T	Water	8260B/DoD	
240-21987-1MS	Matrix Spike	T	Water	8260B/DoD	
240-21987-1MSD	Matrix Spike Duplicate	T	Water	8260B/DoD	
240-21987-2TB	079-0008-0001-TB TRIP BLANK	T	Water	8260B/DoD	

Report Basis
T = Total

GC/MS Semi VOA					
Prep Batch: 240-78456					
LCS 240-78456/18-A	Lab Control Sample	T	Water	3520C	
MB 240-78456/17-A	Method Blank	T	Water	3520C	
240-21987-1	079-0007-0001-SOURCEWATER	T	Water	3520C	
Analysis Batch:240-79745					
LCS 240-78456/18-A	Lab Control Sample	T	Water	8270C/DoD	240-78456
MB 240-78456/17-A	Method Blank	T	Water	8270C/DoD	240-78456
240-21987-1	079-0007-0001-SOURCEWATER	T	Water	8270C/DoD	240-78456

Report Basis
T = Total

GC VOA					
Analysis Batch:240-79100					
LCS 240-79100/39	Lab Control Sample	T	Water	8015B_GRO/DO	
MB 240-79100/38	Method Blank	T	Water	8015B_GRO/DO	
240-21987-1	079-0007-0001-SOURCEWATER	T	Water	8015B_GRO/DO	
240-21987-1MS	Matrix Spike	T	Water	8015B_GRO/DO	
240-21987-1MSD	Matrix Spike Duplicate	T	Water	8015B_GRO/DO	
240-21987-3TB	079-0009-0001-TB TRIP BLANK	T	Water	8015B_GRO/DO	

Report Basis
T = Total

Client: Environmental Chemical Corp. Job Number: 240-21987-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 240-78624					
240-21987-1	079-0007-0001-SOURCEWATER	T	Water	3520C	
Prep Batch: 240-78626					
LCS 240-78626/4-A	Lab Control Sample	T	Water	8151A	
MB 240-78626/3-A	Method Blank	T	Water	8151A	
240-21987-1	079-0007-0001-SOURCEWATER	T	Water	8151A	
Prep Batch: 240-78721					
LCS 240-78721/18-A	Lab Control Sample	T	Water	3520C	
MB 240-78721/17-A	Method Blank	T	Water	3520C	
240-21987-1	079-0007-0001-SOURCEWATER	T	Water	3520C	
Prep Batch: 240-78726					
LCS 240-78726/3-A	Lab Control Sample	T	Water	3520C	
MB 240-78726/2-A	Method Blank	T	Water	3520C	
240-21987-1	079-0007-0001-SOURCEWATER	T	Water	3520C	
Analysis Batch:240-78992					
240-21987-1	079-0007-0001-SOURCEWATER	T	Water	8015B_DRO/DO	240-78624
Analysis Batch:240-79056					
LCS 240-78726/3-A	Lab Control Sample	T	Water	8081/DOD	240-78726
MB 240-78726/2-A	Method Blank	T	Water	8081/DOD	240-78726
240-21987-1	079-0007-0001-SOURCEWATER	T	Water	8081/DOD	240-78726
Analysis Batch:240-79197					
LCS 240-78626/4-A	Lab Control Sample	T	Water	8151/DOD	240-78626
MB 240-78626/3-A	Method Blank	T	Water	8151/DOD	240-78626
240-21987-1	079-0007-0001-SOURCEWATER	T	Water	8151/DOD	240-78626
Analysis Batch:240-79577					
LCS 240-78721/18-A	Lab Control Sample	T	Water	8082/DOD	240-78721
MB 240-78721/17-A	Method Blank	T	Water	8082/DOD	240-78721
240-21987-1	079-0007-0001-SOURCEWATER	T	Water	8082/DOD	240-78721

Report Basis
T = Total

Client: Environmental Chemical Corp. Job Number: 240-21987-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 180-66565					
LCS 180-66565/2-A	Lab Control Sample	R	Water	3005A	
LCSD 180-66565/3-A	Lab Control Sample Duplicate	R	Water	3005A	
MB 180-66565/1-A	Method Blank	R	Water	3005A	
240-21987-1	079-0007-0001-SOURCEWATER	R	Water	3005A	
Analysis Batch:180-68058					
LCS 180-66565/2-A	Lab Control Sample	R	Water	6020/DOD	180-66565
LCSD 180-66565/3-A	Lab Control Sample Duplicate	R	Water	6020/DOD	180-66565
MB 180-66565/1-A	Method Blank	R	Water	6020/DOD	180-66565
240-21987-1	079-0007-0001-SOURCEWATER	R	Water	6020/DOD	180-66565
Prep Batch: 240-78432					
240-21987-1	079-0007-0001-SOURCEWATER	T	Water	7470A	
Analysis Batch:240-78674					
240-21987-1	079-0007-0001-SOURCEWATER	T	Water	7470A/DOD	240-78432

Report Basis
R = Total Recoverable
T = Total

Client: Environmental Chemical Corp. Job Number: 240-21987-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 320-12938					
LCS 320-12877/2-B	Lab Control Sample	T	Water	353 (NCell-Hyd)	
MB 320-12877/1-B	Method Blank	T	Water	353 (NCell-Hyd)	
240-21987-1	079-0007-0001-SOURCEWATER	T	Water	353 (NCell-Hyd)	
240-21987-1MS	Matrix Spike	T	Water	353 (NCell-Hyd)	
240-21987-1MSD	Matrix Spike Duplicate	T	Water	353 (NCell-Hyd)	
Analysis Batch:320-13190					
LCS 320-12877/2-B	Lab Control Sample	T	Water	WS-WC-0050	320-12938
MB 320-12877/1-B	Method Blank	T	Water	WS-WC-0050	320-12938
240-21987-1	079-0007-0001-SOURCEWATER	T	Water	WS-WC-0050	320-12938
240-21987-1MS	Matrix Spike	T	Water	WS-WC-0050	320-12938
240-21987-1MSD	Matrix Spike Duplicate	T	Water	WS-WC-0050	320-12938
Analysis Batch:240-78405					
LCS 240-78405/9	Lab Control Sample	T	Water	7196A	
MB 240-78405/8	Method Blank	T	Water	7196A	
240-21987-1	079-0007-0001-SOURCEWATER	T	Water	7196A	
240-21987-1DU	Duplicate	T	Water	7196A	
240-21987-1MS	Matrix Spike	T	Water	7196A	
240-21987-1MSD	Matrix Spike Duplicate	T	Water	7196A	

Report Basis
T = Total

Client: Environmental Chemical Corp. Job Number: 240-21987-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Prep Batch: 320-12565					
LCS 320-12565/2-A	Lab Control Sample	T	Water	8330-Prep	
MB 320-12565/1-A	Method Blank	T	Water	8330-Prep	
240-21987-1	079-0007-0001-SOURCEWATER	T	Water	8330-Prep	
Prep Batch: 320-12568					
LCS 320-12568/2-A	Lab Control Sample	T	Water	Filtration	
MB 320-12568/1-A	Method Blank	T	Water	Filtration	
240-21987-1	079-0007-0001-SOURCEWATER	T	Water	Filtration	
240-21987-1MS	Matrix Spike	T	Water	Filtration	
240-21987-1MSD	Matrix Spike Duplicate	T	Water	Filtration	
Analysis Batch:320-12703					
LCS 320-12565/2-A	Lab Control Sample	T	Water	8330B	320-12565
MB 320-12565/1-A	Method Blank	T	Water	8330B	320-12565
240-21987-1	079-0007-0001-SOURCEWATER	T	Water	8330B	320-12565
Analysis Batch:320-12714					
LCS 320-12568/2-A	Lab Control Sample	T	Water	8330 Modified	320-12568
MB 320-12568/1-A	Method Blank	T	Water	8330 Modified	320-12568
240-21987-1	079-0007-0001-SOURCEWATER	T	Water	8330 Modified	320-12568
240-21987-1MS	Matrix Spike	T	Water	8330 Modified	320-12568
240-21987-1MSD	Matrix Spike Duplicate	T	Water	8330 Modified	320-12568
Analysis Batch:320-12878					
MB 320-12568/1-A	Method Blank	T	Water	8330 Modified	320-12568
240-21987-1	079-0007-0001-SOURCEWATER	T	Water	8330 Modified	320-12568

Report Basis
T = Total

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Laboratory Chronicle

Lab ID: 240-21987-1 **Client ID:** 079-0007-0001-SOURCEWATER

Sample Date/Time: 03/14/2013 12:00 Received Date/Time: 03/14/2013 16:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	240-21987-C-1		240-79725		03/28/2013 11:21	1	TAL CAN	RQ
A:8260B/DoD	240-21987-C-1		240-79725		03/28/2013 11:21	1	TAL CAN	RQ
P:3520C	240-21987-P-1-A		240-79745	240-78456	03/15/2013 08:45	1	TAL CAN	AC
A:8270C/DoD	240-21987-P-1-A		240-79745	240-78456	03/28/2013 12:53	1	TAL CAN	JG
P:5030B	240-21987-B-1		240-79100		03/23/2013 09:27	1	TAL CAN	HMB
A:8015B_GRO/DOD	240-21987-B-1		240-79100		03/23/2013 09:27	1	TAL CAN	HMB
P:3520C	240-21987-O-1-A		240-78992	240-78624	03/18/2013 10:31	1	TAL CAN	BM
A:8015B_DRO/DOD	240-21987-O-1-A		240-78992	240-78624	03/21/2013 17:45	1	TAL CAN	DB
P:3520C	240-21987-N-1-B		240-79056	240-78726	03/19/2013 09:10	1	TAL CAN	LM
A:8081/DOD	240-21987-N-1-B		240-79056	240-78726	03/21/2013 17:36	1	TAL CAN	RS
P:3520C	240-21987-N-1-A		240-79577	240-78721	03/19/2013 08:52	1	TAL CAN	LM
A:8082/DOD	240-21987-N-1-A		240-79577	240-78721	03/27/2013 10:07	1	TAL CAN	LH
P:8151A	240-21987-J-1-A		240-79197	240-78626	03/18/2013 10:35	1	TAL CAN	BM
A:8151/DOD	240-21987-J-1-A		240-79197	240-78626	03/22/2013 20:57	1	TAL CAN	DB
P:Filtration	240-21987-Q-1-B		320-12714	320-12568	03/19/2013 14:18	1	TAL SAC	HA
A:8330 Modified	240-21987-Q-1-B		320-12714	320-12568	03/21/2013 13:31	1	TAL SAC	RN
P:Filtration	240-21987-Q-1-B		320-12878	320-12568	03/19/2013 14:18	1	TAL SAC	HA
A:8330 Modified	240-21987-Q-1-B		320-12878	320-12568	03/22/2013 15:53	1	TAL SAC	NS
P:8330-Prep	240-21987-Q-1-A		320-12703	320-12565	03/19/2013 13:52	1	TAL SAC	HA
A:8330B	240-21987-Q-1-A		320-12703	320-12565	03/21/2013 14:11	1	TAL SAC	RN
P:3005A	240-21987-I-1-A		180-68058	180-66565	03/18/2013 13:02	1	TAL PIT	CH
A:6020/DOD	240-21987-I-1-A		180-68058	180-66565	04/01/2013 15:42	1	TAL PIT	BR
P:7470A	240-21987-H-1-A		240-78674	240-78432	03/15/2013 12:45	1	TAL CAN	LM
A:7470A/DOD	240-21987-H-1-A		240-78674	240-78432	03/18/2013 17:49	1	TAL CAN	SG
A:7196A	240-21987-G-1		240-78405		03/14/2013 17:44	1	TAL CAN	AM
P:353 (NCell-Hyd)	240-21987-A-1-D		320-13190	320-12938	03/25/2013 08:23	1	TAL SAC	TP
A:WS-WC-0050	240-21987-A-1-D		320-13190	320-12938	03/25/2013 12:51	1	TAL SAC	JB

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Laboratory Chronicle

Lab ID: 240-21987-1 MS **Client ID: 079-0007-0001-SOURCEWATER**

Sample Date/Time: 03/14/2013 12:00 Received Date/Time: 03/14/2013 16:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	240-21987-B-1 MS		240-79725		03/28/2013 13:33	1	TAL CAN	RQ
A:8260B/DoD	240-21987-B-1 MS		240-79725		03/28/2013 13:33	1	TAL CAN	RQ
P:5030B	240-21987-B-1 MS		240-79100		03/23/2013 10:03	1	TAL CAN	HMB
A:8015B_GRO/DOD	240-21987-B-1 MS		240-79100		03/23/2013 10:03	1	TAL CAN	HMB
P:Filtration	240-21987-Q-1-C MS		320-12714	320-12568	03/19/2013 14:18	1	TAL SAC	HA
A:8330 Modified	240-21987-Q-1-C MS		320-12714	320-12568	03/21/2013 13:45	1	TAL SAC	RN
A:7196A	240-21987-G-1 MS		240-78405		03/14/2013 17:46	1	TAL CAN	AM
P:353 (NCell-Hyd)	240-21987-A-1-E MS		320-13190	320-12938	03/25/2013 08:23	1	TAL SAC	TP
A:WS-WC-0050	240-21987-A-1-E MS		320-13190	320-12938	03/25/2013 12:53	1	TAL SAC	JB

Lab ID: 240-21987-1 MSD **Client ID: 079-0007-0001-SOURCEWATER**

Sample Date/Time: 03/14/2013 12:00 Received Date/Time: 03/14/2013 16:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	240-21987-A-1 MSD		240-79725		03/28/2013 13:59	1	TAL CAN	RQ
A:8260B/DoD	240-21987-A-1 MSD		240-79725		03/28/2013 13:59	1	TAL CAN	RQ
P:5030B	240-21987-B-1 MSD		240-79100		03/23/2013 10:40	1	TAL CAN	HMB
A:8015B_GRO/DOD	240-21987-B-1 MSD		240-79100		03/23/2013 10:40	1	TAL CAN	HMB
P:Filtration	240-21987-Q-1-D MSD		320-12714	320-12568	03/19/2013 14:18	1	TAL SAC	HA
A:8330 Modified	240-21987-Q-1-D MSD		320-12714	320-12568	03/21/2013 14:00	1	TAL SAC	RN
A:7196A	240-21987-G-1 MSD		240-78405		03/14/2013 17:47	1	TAL CAN	AM
P:353 (NCell-Hyd)	240-21987-A-1-F MSD		320-13190	320-12938	03/25/2013 08:23	1	TAL SAC	TP
A:WS-WC-0050	240-21987-A-1-F MSD		320-13190	320-12938	03/25/2013 12:55	1	TAL SAC	JB

Lab ID: 240-21987-1 DU **Client ID: 079-0007-0001-SOURCEWATER**

Sample Date/Time: 03/14/2013 12:00 Received Date/Time: 03/14/2013 16:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:7196A	240-21987-G-1 DU		240-78405		03/14/2013 17:48	1	TAL CAN	AM

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Laboratory Chronicle

Lab ID: 240-21987-1 SD **Client ID: 079-0007-0001-SOURCEWATER**

Sample Date/Time: 03/14/2013 12:00 Received Date/Time: 03/14/2013 16:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	240-21987-I-1-A SD ^5		180-68058	180-66565	03/18/2013 13:02	5	TAL PIT	CH
A:6020/DOD	240-21987-I-1-A SD ^5		180-68058	180-66565	04/01/2013 15:47	5	TAL PIT	BR
P:3005A	240-21987-I-1-A PDS		180-68058	180-66565	03/18/2013 13:02	1	TAL PIT	CH
A:6020/DOD	240-21987-I-1-A PDS		180-68058	180-66565	04/01/2013 15:51	1	TAL PIT	BR

Lab ID: 240-21987-2 **Client ID: 079-0008-0001-TB TRIP BLANK**

Sample Date/Time: 03/14/2013 08:00 Received Date/Time: 03/14/2013 16:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	240-21987-A-2		240-79725		03/28/2013 11:47	1	TAL CAN	RQ
A:8260B/DoD	240-21987-A-2		240-79725		03/28/2013 11:47	1	TAL CAN	RQ

Lab ID: 240-21987-3 **Client ID: 079-0009-0001-TB TRIP BLANK**

Sample Date/Time: 03/14/2013 08:00 Received Date/Time: 03/14/2013 16:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	240-21987-B-3		240-79100		03/23/2013 11:16	1	TAL CAN	HMB
A:8015B_GRO/DOD	240-21987-B-3		240-79100		03/23/2013 11:16	1	TAL CAN	HMB

Client: Environmental Chemical Corp. Job Number: 240-21987-1

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 240-79725/6		240-79725		03/28/2013 10:55	1	TAL CAN	RQ
A:8260B/DoD	MB 240-79725/6		240-79725		03/28/2013 10:55	1	TAL CAN	RQ
P:3520C	MB 240-78456/17-A		240-79745	240-78456	03/15/2013 08:45	1	TAL CAN	AC
A:8270C/DoD	MB 240-78456/17-A		240-79745	240-78456	03/28/2013 12:06	1	TAL CAN	JG
P:5030B	MB 240-79100/38		240-79100		03/23/2013 08:14	1	TAL CAN	HMB
A:8015B_GRO/DOD	MB 240-79100/38		240-79100		03/23/2013 08:14	1	TAL CAN	HMB
P:3520C	MB 240-78726/2-A		240-79056	240-78726	03/19/2013 09:10	1	TAL CAN	LM
A:8081/DOD	MB 240-78726/2-A		240-79056	240-78726	03/21/2013 17:56	1	TAL CAN	RS
P:3520C	MB 240-78721/17-A		240-79577	240-78721	03/19/2013 08:52	1	TAL CAN	LM
A:8082/DOD	MB 240-78721/17-A		240-79577	240-78721	03/27/2013 12:28	1	TAL CAN	LH
P:8151A	MB 240-78626/3-A		240-79197	240-78626	03/18/2013 10:35	1	TAL CAN	BM
A:8151/DOD	MB 240-78626/3-A		240-79197	240-78626	03/22/2013 21:21	1	TAL CAN	DB
P:Filtration	MB 320-12568/1-A		320-12714	320-12568	03/19/2013 14:18	1	TAL SAC	HA
A:8330 Modified	MB 320-12568/1-A		320-12714	320-12568	03/21/2013 13:01	1	TAL SAC	RN
P:Filtration	MB 320-12568/1-A		320-12878	320-12568	03/19/2013 14:18	1	TAL SAC	HA
A:8330 Modified	MB 320-12568/1-A		320-12878	320-12568	03/22/2013 15:32	1	TAL SAC	NS
P:8330-Prep	MB 320-12565/1-A		320-12703	320-12565	03/19/2013 13:52	1	TAL SAC	HA
A:8330B	MB 320-12565/1-A		320-12703	320-12565	03/21/2013 12:51	1	TAL SAC	RN
P:3005A	MB 180-66565/1-A		180-68058	180-66565	03/18/2013 13:02	1	TAL PIT	CH
A:6020/DOD	MB 180-66565/1-A		180-68058	180-66565	04/01/2013 15:24	1	TAL PIT	BR
A:7196A	MB 240-78405/8		240-78405		03/14/2013 17:42	1	TAL CAN	AM
P:353 (NCell-Hyd)	MB 320-12877/1-B		320-13190	320-12938	03/25/2013 08:23	1	TAL SAC	TP
A:WS-WC-0050	MB 320-12877/1-B		320-13190	320-12938	03/25/2013 12:47	1	TAL SAC	JB

Client: Environmental Chemical Corp. Job Number: 240-21987-1

Laboratory Chronicle

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 240-79725/4		240-79725		03/28/2013 10:02	1	TAL CAN	RQ
A:8260B/DoD	LCS 240-79725/4		240-79725		03/28/2013 10:02	1	TAL CAN	RQ
P:3520C	LCS 240-78456/18-A		240-79745	240-78456	03/15/2013 08:45	1	TAL CAN	AC
A:8270C/DoD	LCS 240-78456/18-A		240-79745	240-78456	03/28/2013 12:29	1	TAL CAN	JG
P:5030B	LCS 240-79100/39		240-79100		03/23/2013 08:51	1	TAL CAN	HMB
A:8015B_GRO/DOD	LCS 240-79100/39		240-79100		03/23/2013 08:51	1	TAL CAN	HMB
P:3520C	LCS 240-78726/3-A		240-79056	240-78726	03/19/2013 09:10	1	TAL CAN	LM
A:8081/DOD	LCS 240-78726/3-A		240-79056	240-78726	03/21/2013 17:16	1	TAL CAN	RS
P:3520C	LCS 240-78721/18-A		240-79577	240-78721	03/19/2013 08:52	1	TAL CAN	LM
A:8082/DOD	LCS 240-78721/18-A		240-79577	240-78721	03/27/2013 14:59	1	TAL CAN	LH
P:8151A	LCS 240-78626/4-A		240-79197	240-78626	03/18/2013 10:35	1	TAL CAN	BM
A:8151/DOD	LCS 240-78626/4-A		240-79197	240-78626	03/22/2013 21:44	1	TAL CAN	DB
P:Filtration	LCS 320-12568/2-A		320-12714	320-12568	03/19/2013 14:18	1	TAL SAC	HA
A:8330 Modified	LCS 320-12568/2-A		320-12714	320-12568	03/21/2013 13:16	1	TAL SAC	RN
P:8330-Prep	LCS 320-12565/2-A		320-12703	320-12565	03/19/2013 13:52	1	TAL SAC	HA
A:8330B	LCS 320-12565/2-A		320-12703	320-12565	03/21/2013 13:31	1	TAL SAC	RN
P:3005A	LCS 180-66565/2-A		180-68058	180-66565	03/18/2013 13:02	1	TAL PIT	CH
A:6020/DOD	LCS 180-66565/2-A		180-68058	180-66565	04/01/2013 15:29	1	TAL PIT	BR
A:7196A	LCS 240-78405/9		240-78405		03/14/2013 17:43	1	TAL CAN	AM
P:353 (NCell-Hyd)	LCS 320-12877/2-B		320-13190	320-12938	03/25/2013 08:23	1	TAL SAC	TP
A:WS-WC-0050	LCS 320-12877/2-B		320-13190	320-12938	03/25/2013 12:49	1	TAL SAC	JB

Lab ID: LCSD **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:3005A	LCSD 180-66565/3-A		180-68058	180-66565	03/18/2013 13:02	1	TAL PIT	CH
A:6020/DOD	LCSD 180-66565/3-A		180-68058	180-66565	04/01/2013 15:34	1	TAL PIT	BR

Client: Environmental Chemical Corp. Job Number: 240-21987-1

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 240-79725/5		240-79725		03/28/2013 10:29	1	TAL CAN	RQ
A:8260B/DoD	MRL 240-79725/5		240-79725		03/28/2013 10:29	1	TAL CAN	RQ
P:5030B	MRL 240-79725/14		240-79725		03/28/2013 14:26	1	TAL CAN	RQ
A:8260B/DoD	MRL 240-79725/14		240-79725		03/28/2013 14:26	1	TAL CAN	RQ
A:8270C/DoD	MRL 240-79745/3		240-79745		03/28/2013 11:42	1	TAL CAN	JG
A:8270C/DoD	MRL 240-79745/7		240-79745		03/28/2013 13:17	1	TAL CAN	JG
P:5030B	MRL 240-79100/37		240-79100		03/23/2013 07:38	1	TAL CAN	HMB
A:8015B_GRO/DOD	MRL 240-79100/37		240-79100		03/23/2013 07:38	1	TAL CAN	HMB
P:5030B	MRL 240-79100/45		240-79100		03/23/2013 12:28	1	TAL CAN	HMB
A:8015B_GRO/DOD	MRL 240-79100/45		240-79100		03/23/2013 12:28	1	TAL CAN	HMB
A:8015B_DRO/DOD	MRL 240-78992/4		240-78992		03/21/2013 16:46	1	TAL CAN	DB
A:8015B_DRO/DOD	MRL 240-78992/9		240-78992		03/21/2013 19:15	1	TAL CAN	DB
A:8081/DOD	MRL 240-79056/8		240-79056		03/21/2013 16:56	1	TAL CAN	RS
A:8081/DOD	MRL 240-79056/15		240-79056		03/21/2013 19:17	1	TAL CAN	RS
A:8082/DOD	MRL 240-79577/4		240-79577		03/27/2013 08:17	1	TAL CAN	LH
A:8082/DOD	MRL 240-79577/31		240-79577		03/27/2013 15:31	1	TAL CAN	LH
A:8151/DOD	MRL 240-79197/13		240-79197		03/22/2013 20:11	1	TAL CAN	DB
A:8151/DOD	MRL 240-79197/20		240-79197		03/22/2013 22:54	1	TAL CAN	DB
A:WS-WC-0050	MRL 320-13190/10		320-13190		03/25/2013 12:37	1	TAL SAC	JB
A:WS-WC-0050	MRL 320-13190/20		320-13190		03/25/2013 12:57	1	TAL SAC	JB

Lab References:

TAL CAN = TestAmerica Canton

TAL PIT = TestAmerica Pittsburgh

TAL SAC = TestAmerica Sacramento

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
EX10PPMSPK_00007	06/25/13	12/28/12	MEOH, Lot 123279	1000 mL	EXPCB1016_00004	2 mL	Aroclor-1016	10 ug/mL
					EXPCB1260_00004	2 mL	Aroclor-1260	10 ug/mL
.EXPCB1016_00004	12/06/15	AccuStandard, Inc., Lot B5120059			(Purchased Reagent)		Aroclor-1016	5000 ug/mL
.EXPCB1260_00004	06/25/13	AccuStandard, Lot B3060258			(Purchased Reagent)		Aroclor-1260	5000 ug/mL
EX2/.2SURRW_00022	06/28/13	02/05/13	MEOH, Lot 123279	2000 mL	EX2/.2SURR_00002	2 mL	DCB Decachlorobiphenyl	0.2 ug/mL
							Tetrachloro-m-xylene	0.2 ug/mL
.EX2/.2SURR_00002	10/01/13	Ultra Scientific, Lot CG-3165			(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
EXBNALCS1_00034	12/13/13	02/28/13	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

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	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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	100.1 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_00023	07/31/15	12/05/12	MEOH, Lot 123279	2000 mL	EXBNASURR_00008	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_00008	07/31/15		SUPELCO, Lot lb93631		(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
EXHEASPIKEW_00007	05/28/13	11/28/12	MEOH, Lot 123279	100 mL	EXHERBEASPIKE_00017	10 mL	2,4,5-T	5 ug/mL
							2,4-D	20 ug/mL
							2,4-DB	20 ug/mL
							Dalapon	10 ug/mL
							Dicamba	10 ug/mL
							Dichlorprop	20 ug/mL
							Dinoseb	3 ug/mL
							MCPA	2000 ug/mL
							MCPP	2000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Silvex (2,4,5-TP)	5 ug/mL
.EXHERBEASPIKE_00017	11/30/13		ULTRA SCIENTIFIC, Lot CG-1351		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dalapon	100 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	30 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	25 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
EXHERBSURR_00012	05/28/13	08/28/12	MEOH, Lot 123279	500 mL	EXHERBSOILSUR_00010	2 mL	2,4-Dichlorophenylacetic acid	20 ug/mL
.EXHERBSOILSUR_00010	08/31/13	Ultra scientific, Lot CH-1733			(Purchased Reagent)		2,4-Dichlorophenylacetic acid	5000 ug/mL
EXPSTNPDESSPW_00012	04/30/13	11/28/12	MEOH, Lot 123279	200 mL	EXPELCSSTOCK_00002	20 mL	4,4'-DDD	1 ug/mL
							4,4'-DDE	1 ug/mL
							4,4'-DDT	1 ug/mL
							Aldrin	1 ug/mL
							alpha-BHC	1 ug/mL
							alpha-Chlordane	1 ug/mL
							beta-BHC	1 ug/mL
							delta-BHC	1 ug/mL
							Dieldrin	1 ug/mL
							Endosulfan I	1 ug/mL
							Endosulfan II	1 ug/mL
							Endosulfan sulfate	1 ug/mL
							Endrin	1 ug/mL
							Endrin aldehyde	1 ug/mL
							Endrin ketone	1 ug/mL
							gamma-BHC (Lindane)	1 ug/mL
							gamma-Chlordane	1 ug/mL
							Heptachlor	1 ug/mL
							Heptachlor epoxide	1 ug/mL
							Methoxychlor	1 ug/mL
.EXPELCSSTOCK_00002	04/30/13	08/02/11	MEOH, Lot 117046	100 mL	EXPESTSTOCK_00005	1 mL	4,4'-DDD	10 ug/mL
							4,4'-DDE	10 ug/mL
							4,4'-DDT	10 ug/mL
							Aldrin	10 ug/mL
							alpha-BHC	10 ug/mL
							alpha-Chlordane	10 ug/mL
							beta-BHC	10 ug/mL
							delta-BHC	10 ug/mL
							Dieldrin	10 ug/mL
							Endosulfan I	10 ug/mL
							Endosulfan II	10 ug/mL
							Endosulfan sulfate	10 ug/mL
							Endrin	10 ug/mL
							Endrin aldehyde	10 ug/mL
							Endrin ketone	10 ug/mL
							gamma-BHC (Lindane)	10 ug/mL
							gamma-Chlordane	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Heptachlor	10 ug/mL
							Heptachlor epoxide	10 ug/mL
							Methoxychlor	10 ug/mL
..EXPESTSTOCK_00005	04/30/13		ULTRA, Lot CH-0689		(Purchased Reagent)		4,4'-DDD	1000 ug/mL
							4,4'-DDE	1000 ug/mL
							4,4'-DDT	1000 ug/mL
							Aldrin	1000 ug/mL
							alpha-BHC	1000 ug/mL
							alpha-Chlordane	1000 ug/mL
							beta-BHC	1000 ug/mL
							delta-BHC	1000 ug/mL
							Dieldrin	1000 ug/mL
							Endosulfan I	1000 ug/mL
							Endosulfan II	1000 ug/mL
							Endosulfan sulfate	1000 ug/mL
							Endrin	1000 ug/mL
							Endrin aldehyde	1000 ug/mL
							Endrin ketone	1000 ug/mL
							gamma-BHC (Lindane)	1000 ug/mL
							gamma-Chlordane	1000 ug/mL
							Heptachlor	1000 ug/mL
							Heptachlor epoxide	1000 ug/mL
							Methoxychlor	1000 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
							Benzaldehyde	100 ug/mL
							Caprolactam	100 ug/mL
							Chloroacetophenone	100 ug/mL
							Chlorobenzilate	100 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00017	06/05/13	01/15/13	MECL2, Lot 0000027455	1000 mL	EXTPHSTOCK_00006	5 mL	n-Nonane	500 ug/mL
.EXTPHSTOCK_00006	06/05/13	06/05/12	MECL2, Lot L12E15	50 mL	EXNONANE_00002	5 g	n-Nonane	100000 ug/g
..EXNONANE_00002	06/04/14	Sigma-Aldrich, Lot STBC5938V			(Purchased Reagent)		n-Nonane	1000000 ug/g
HerbICVSTD_00003	06/30/13	06/23/11	HEXANE, Lot J41E31	100 mL	SGHERBICV_00012	1 mL	2,4,5-T	0.02 ug/mL
							2,4-D	0.08 ug/mL
							2,4-DB	0.08 ug/mL
							2,4-Dichlorophenylacetic acid	0.08 ug/mL
							Dalapon	0.0399 ug/mL
							Dicamba	0.04 ug/mL
							Dichlorprop	0.08 ug/mL
							Dinoseb	0.012 ug/mL
							MCPA	8 ug/mL
							MCPP	8 ug/mL
							Silvex (2,4,5-TP)	0.02 ug/mL
.SGHERBICV_00012	07/31/13	RESTEK, Lot A083000			(Purchased Reagent)		2,4,5-T	2 ug/mL
							2,4-D	8 ug/mL
							2,4-DB	8 ug/mL
							2,4-Dichlorophenylacetic acid	8 ug/mL
							Dalapon	3.99 ug/mL
							Dicamba	4 ug/mL
							Dichlorprop	8 ug/mL
							Dinoseb	1.2 ug/mL
							MCPA	800 ug/mL
							MCPP	800 ug/mL
							Silvex (2,4,5-TP)	2 ug/mL
MTH2S04_00012	02/14/15	Macron, Lot 0000020228			(Purchased Reagent)		Sulfuric acid	100 %
MTHGCALW_00332	03/18/13	03/18/13	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00006	1 mL	Mercury	100 ug/L
					MTHNO3_00044	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00006	08/20/13	High Purity, Lot 1221902			(Purchased Reagent)		Mercury	10 ug/mL
.MTHNO3_00044	02/20/15	Macron Chemicals, Lot L10022			(Purchased Reagent)		Nitric acid	100 %
							Nitric acid	100 %
MTK2S208RGNT_00036	03/12/15	03/12/13	DIWATER, Lot DIWATER	2 L	MTK2S208_00012	100 g	Potassium persulfate	0.05 g/g
.MTK2S208_00012	10/10/17	Macron, Lot 0000014353			(Purchased Reagent)		Potassium persulfate	1 g/g
MTKMN04W_00040	03/12/15	03/12/13	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
SG 1660 ICV_00003	07/03/13	07/03/12	HEXANE, Lot K42e19	10 mL	SG 1016 ICV_00004	1 mL	Aroclor-1016	10 ug/mL
					SG 1260 ICV_00005	1 mL	Aroclor-1260	10 ug/mL
.SG 1016 ICV_00004	03/31/17	ULTRA, Lot CF-0785			(Purchased Reagent)		Aroclor-1016	100 ug/mL
.SG 1260 ICV_00005	12/31/14	ULTRA, Lot CC-3829			(Purchased Reagent)		Aroclor-1260	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SG1221ICV_00006	08/27/13	08/27/12	HEXANE, Lot L03E01	10 mL	SG 1221 ICV_00003	1 mL	Aroclor-1221	10000 ug/L
.SG 1221 ICV_00003	12/31/14	Ultra Scientific, Lot CB-1791z			(Purchased Reagent)		Aroclor-1221	100 ug/mL
SG1232@0.05PP_00006	06/03/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SG1232@10ppm_00003	0.5 mL	PCB-1232 Peak 1	0.05 ug/mL
							PCB-1232 Peak 2	0.05 ug/mL
							PCB-1232 Peak 3	0.05 ug/mL
							PCB-1232 Peak 4	0.05 ug/mL
							PCB-1232 Peak 5	0.05 ug/mL
.SG1232@10ppm_00003	12/03/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SGPCB1232STD_00004	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00004	06/09/14	restek, Lot a052599			(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
SG1232@0.1PPM_00005	06/03/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SG1232@10ppm_00003	1 mL	PCB-1232 Peak 1	0.1 ug/mL
							PCB-1232 Peak 2	0.1 ug/mL
							PCB-1232 Peak 3	0.1 ug/mL
							PCB-1232 Peak 4	0.1 ug/mL
							PCB-1232 Peak 5	0.1 ug/mL
.SG1232@10ppm_00003	12/03/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SGPCB1232STD_00004	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00004	06/09/14	restek, Lot a052599			(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
SG1232@0.2PPM_00005	06/05/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SG1232@10ppm_00003	2 mL	PCB-1232 Peak 1	0.2 ug/mL
							PCB-1232 Peak 2	0.2 ug/mL
							PCB-1232 Peak 3	0.2 ug/mL
							PCB-1232 Peak 4	0.2 ug/mL
							PCB-1232 Peak 5	0.2 ug/mL
.SG1232@10ppm_00003	12/03/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SGPCB1232STD_00004	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00004	06/09/14	restek, Lot a052599			(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SG1232@0.5PPM_00010	06/03/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SG1232@10ppm_00003	5 mL	PCB-1232 Peak 1	0.5 ug/mL
							PCB-1232 Peak 2	0.5 ug/mL
							PCB-1232 Peak 3	0.5 ug/mL
							PCB-1232 Peak 4	0.5 ug/mL
							PCB-1232 Peak 5	0.5 ug/mL
.SG1232@10ppm_00003	12/03/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SGPCB1232STD_00004	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00004	06/09/14		restek, Lot a052599		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
SG1232@1.0PPM_00005	06/03/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SG1232@10ppm_00003	10 mL	PCB-1232 Peak 1	1 ug/mL
							PCB-1232 Peak 2	1 ug/mL
							PCB-1232 Peak 3	1 ug/mL
							PCB-1232 Peak 4	1 ug/mL
							PCB-1232 Peak 5	1 ug/mL
.SG1232@10ppm_00003	12/03/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SGPCB1232STD_00004	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00004	06/09/14		restek, Lot a052599		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
SG1232@2.0PPM_00005	06/03/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SG1232@10ppm_00003	20 mL	PCB-1232 Peak 1	2 ug/mL
							PCB-1232 Peak 2	2 ug/mL
							PCB-1232 Peak 3	2 ug/mL
							PCB-1232 Peak 4	2 ug/mL
							PCB-1232 Peak 5	2 ug/mL
.SG1232@10ppm_00003	12/03/13	12/03/12	HEXANE, Lot 00000014962	100 mL	SGPCB1232STD_00004	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00004	06/09/14		restek, Lot a052599		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
SG1232ICV_00004	01/15/14	01/15/13	HEXANE, Lot 0000017861	10 mL	SG 1232 ICV_00004	1 mL	Aroclor-1232	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SG 1232 ICV_00004	10/31/14	Ultra Scientific, Lot CG-3213			(Purchased Reagent)		Aroclor-1232	100 ug/mL
SG1242@.05ppm_00005	07/03/13	01/03/13	HEXANE, Lot 0000017861	100 mL	SG1242@10ppm_00003	0.5 mL	PCB-1242 Peak 1	0.05 ug/mL
							PCB-1242 Peak 2	0.05 ug/mL
							PCB-1242 Peak 3	0.05 ug/mL
							PCB-1242 Peak 4	0.05 ug/mL
							PCB-1242 Peak 5	0.05 ug/mL
.SG1242@10ppm_00003	01/02/14	01/02/13	HEXANE, Lot 0000017861	100 mL	SG1242_00003	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00003	04/30/18	Restek, Lot A080551			(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
SG1242@0.1ppm_00005	07/03/13	01/03/13	HEXANE, Lot 0000017861	100 mL	SG1242@10ppm_00003	1 mL	PCB-1242 Peak 1	0.1 ug/mL
							PCB-1242 Peak 2	0.1 ug/mL
							PCB-1242 Peak 3	0.1 ug/mL
							PCB-1242 Peak 4	0.1 ug/mL
							PCB-1242 Peak 5	0.1 ug/mL
.SG1242@10ppm_00003	01/02/14	01/02/13	HEXANE, Lot 0000017861	100 mL	SG1242_00003	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00003	04/30/18	Restek, Lot A080551			(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
SG1242@0.2ppm_00005	07/03/13	01/03/13	HEXANE, Lot 0000017861	100 mL	SG1242@10ppm_00003	2 mL	PCB-1242 Peak 1	0.2 ug/mL
							PCB-1242 Peak 2	0.2 ug/mL
							PCB-1242 Peak 3	0.2 ug/mL
							PCB-1242 Peak 4	0.2 ug/mL
							PCB-1242 Peak 5	0.2 ug/mL
.SG1242@10ppm_00003	01/02/14	01/02/13	HEXANE, Lot 0000017861	100 mL	SG1242_00003	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00003	04/30/18	Restek, Lot A080551			(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SG1242@0.5ppm_00008	07/03/13	01/03/13	HEXANE, Lot 0000017861	100 mL	SG1242@10ppm_00003	5 mL	PCB-1242 Peak 1	0.5 ug/mL
							PCB-1242 Peak 2	0.5 ug/mL
							PCB-1242 Peak 3	0.5 ug/mL
							PCB-1242 Peak 4	0.5 ug/mL
							PCB-1242 Peak 5	0.5 ug/mL
.SG1242@10ppm_00003	01/02/14	01/02/13	HEXANE, Lot 0000017861	100 mL	SG1242_00003	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00003	04/30/18		Restek, Lot A080551		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
SG1242@1.0ppm_00005	07/03/13	01/03/13	HEXANE, Lot 0000017861	100 mL	SG1242@10ppm_00003	10 mL	PCB-1242 Peak 1	1 ug/mL
							PCB-1242 Peak 2	1 ug/mL
							PCB-1242 Peak 3	1 ug/mL
							PCB-1242 Peak 4	1 ug/mL
							PCB-1242 Peak 5	1 ug/mL
.SG1242@10ppm_00003	01/02/14	01/02/13	HEXANE, Lot 0000017861	100 mL	SG1242_00003	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00003	04/30/18		Restek, Lot A080551		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
SG1242@2.0ppm_00005	07/03/13	01/03/13	HEXANE, Lot 0000017861	100 mL	SG1242@10ppm_00003	20 mL	PCB-1242 Peak 1	2 ug/mL
							PCB-1242 Peak 2	2 ug/mL
							PCB-1242 Peak 3	2 ug/mL
							PCB-1242 Peak 4	2 ug/mL
							PCB-1242 Peak 5	2 ug/mL
.SG1242@10ppm_00003	01/02/14	01/02/13	HEXANE, Lot 0000017861	100 mL	SG1242_00003	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00003	04/30/18		Restek, Lot A080551		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
SG1242ICV_00003	08/09/13	08/09/12	HEXANE, Lot L08E17	10 mL	SG 1242 ICV_00003	1 mL	Aroclor-1242	10 ug/mL
.SG 1242 ICV_00003	09/30/19		Ultra Scientific, Lot CH-2711		(Purchased Reagent)		Aroclor-1242	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SG1248@.05ppm_00007	07/03/13	01/03/13	HEXANE, Lot 0000017861	100 mL	SG1248@10ppm_00004	0.5 mL	PCB-1248 Peak 1	0.05 ug/mL
							PCB-1248 Peak 2	0.05 ug/mL
							PCB-1248 Peak 3	0.05 ug/mL
							PCB-1248 Peak 4	0.05 ug/mL
							PCB-1248 Peak 5	0.05 ug/mL
.SG1248@10ppm_00004	01/02/14	01/02/13	Hexane, Lot 0000017861	100 mL	SG1248_00002	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00002	07/30/18		Restek, Lot A082482		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@0.1PPM_00006	07/03/13	01/03/13	HEXANE, Lot 0000017861	100 mL	SG1248@10ppm_00004	1 mL	PCB-1248 Peak 1	0.1 ug/mL
							PCB-1248 Peak 2	0.1 ug/mL
							PCB-1248 Peak 3	0.1 ug/mL
							PCB-1248 Peak 4	0.1 ug/mL
							PCB-1248 Peak 5	0.1 ug/mL
.SG1248@10ppm_00004	01/02/14	01/02/13	Hexane, Lot 0000017861	100 mL	SG1248_00002	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00002	07/30/18		Restek, Lot A082482		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@0.2ppm_00006	07/03/13	01/03/13	HEXANE, Lot 0000017861	100 mL	SG1248@10ppm_00004	2 mL	PCB-1248 Peak 1	0.2 ug/mL
							PCB-1248 Peak 2	0.2 ug/mL
							PCB-1248 Peak 3	0.2 ug/mL
							PCB-1248 Peak 4	0.2 ug/mL
							PCB-1248 Peak 5	0.2 ug/mL
.SG1248@10ppm_00004	01/02/14	01/02/13	Hexane, Lot 0000017861	100 mL	SG1248_00002	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00002	07/30/18		Restek, Lot A082482		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@0.5ppm_00008	07/03/13	01/03/13	HEXANE, Lot 00000017861	100 mL	SG1248@10ppm_00004	5 mL	PCB-1248 Peak 1	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1248 Peak 2	0.5 ug/mL
							PCB-1248 Peak 3	0.5 ug/mL
							PCB-1248 Peak 4	0.5 ug/mL
							PCB-1248 Peak 5	0.5 ug/mL
.SG1248@10ppm_00004	01/02/14	01/02/13	Hexane, Lot 0000017861	100 mL	SG1248_00002	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00002	07/30/18		Restek, Lot A082482		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@1.0ppm_00005	07/03/13	01/03/13	HEXANE, Lot 0000017861	100 mL	SG1248@10ppm_00004	10 mL	PCB-1248 Peak 1	1 ug/mL
							PCB-1248 Peak 2	1 ug/mL
							PCB-1248 Peak 3	1 ug/mL
							PCB-1248 Peak 4	1 ug/mL
							PCB-1248 Peak 5	1 ug/mL
.SG1248@10ppm_00004	01/02/14	01/02/13	Hexane, Lot 0000017861	100 mL	SG1248_00002	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00002	07/30/18		Restek, Lot A082482		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@2.0ppm_00005	07/03/13	01/03/13	HEXANE, Lot 0000017861	100 mL	SG1248@10ppm_00004	20 mL	PCB-1248 Peak 1	2 ug/mL
							PCB-1248 Peak 2	2 ug/mL
							PCB-1248 Peak 3	2 ug/mL
							PCB-1248 Peak 4	2 ug/mL
							PCB-1248 Peak 5	2 ug/mL
.SG1248@10ppm_00004	01/02/14	01/02/13	Hexane, Lot 0000017861	100 mL	SG1248_00002	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00002	07/30/18		Restek, Lot A082482		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248ICV_00006	01/15/14	01/15/13	HEXANE, Lot 0000017861	10 mL	SG 1248 ICV_00004	1 mL	Aroclor-1248	10 ug/mL
.SG 1248 ICV_00004	11/30/19		Ultra Scientific, Lot CH-3256		(Purchased Reagent)		Aroclor-1248	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SG1254ICV_00005	01/15/14	01/15/13	HEXANE, Lot 0000017861	10 mL	SG 1254 ICV_00004	1 mL	Aroclor-1254	10 ug/mL
.SG 1254 ICV_00004	12/31/19	Ultra Scientific, Lot CH-3706			(Purchased Reagent)		Aroclor-1254	100 ug/mL
SG1660@.05PPM_00005	03/03/13	09/03/12	HEXANE, Lot 0000013019	100 mL	SG1016/1260_00005	0.5 mL	PCB-1016 Peak 1	0.05 ug/mL
							PCB-1016 Peak 2	0.05 ug/mL
							PCB-1016 Peak 3	0.05 ug/mL
							PCB-1016 Peak 4	0.05 ug/mL
							PCB-1016 Peak 5	0.05 ug/mL
							PCB-1260 Peak 1	0.05 ug/mL
							PCB-1260 Peak 2	0.05 ug/mL
							PCB-1260 Peak 3	0.05 ug/mL
							PCB-1260 Peak 4	0.05 ug/mL
							PCB-1260 Peak 5	0.05 ug/mL
					SGPCGSURRSTK_00003	0.125 mL	DCB Decachlorobiphenyl	0.0025 ug/mL
							Tetrachloro-m-xylene	0.0025 ug/mL
.SG1016/1260_00005	05/30/13	05/30/12	HEXANE, Lot K42e19	100 mL	SG1016/1260MX_00004	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18	Restek, Lot a082781			(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00003	08/31/13	08/31/12	HEXANE, Lot L03E01	100 mL	SGPCBSURRMX_00004	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00004	07/31/16	restek, Lot a065184			(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@.05PPM_00006	08/31/13	03/04/13	HEXANE, Lot 0000021949	100 mL	SG1016/1260_00006	0.5 mL	Aroclor-1016	0.05 ug/mL
							Aroclor-1260	0.05 ug/mL
					SGPCGSURRSTK_00003	0.125 mL	DCB Decachlorobiphenyl	0.0025 ug/mL
							Tetrachloro-m-xylene	0.0025 ug/mL
.SG1016/1260_00006	01/23/14	01/23/13	HEXANE, Lot 0000017861	100 mL	SG1016/1260MX_00004	1 mL	Aroclor-1016	10 ug/mL
							Aroclor-1260	10 ug/mL
..SG1016/1260MX_00004	08/31/18	Restek, Lot a082781			(Purchased Reagent)		Aroclor-1016	1000 ug/mL
							Aroclor-1260	1000 ug/mL
.SGPCGSURRSTK_00003	08/31/13	08/31/12	HEXANE, Lot L03E01	100 mL	SGPCBSURRMX_00004	1 mL	DCB Decachlorobiphenyl	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00004	07/31/16		restek, Lot a065184		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@0.2ppm_00005	03/03/13	09/03/12	HEXANE, Lot 0000013019	100 mL	SG1016/1260_00005	2 mL	PCB-1016 Peak 1	0.2 ug/mL
							PCB-1016 Peak 2	0.2 ug/mL
							PCB-1016 Peak 3	0.2 ug/mL
							PCB-1016 Peak 4	0.2 ug/mL
							PCB-1016 Peak 5	0.2 ug/mL
							PCB-1260 Peak 1	0.2 ug/mL
							PCB-1260 Peak 2	0.2 ug/mL
							PCB-1260 Peak 3	0.2 ug/mL
							PCB-1260 Peak 4	0.2 ug/mL
							PCB-1260 Peak 5	0.2 ug/mL
					SGPCGSURRSTK_00003	0.5 mL	DCB Decachlorobiphenyl	0.01 ug/mL
							Tetrachloro-m-xylene	0.01 ug/mL
.SG1016/1260_00005	05/30/13	05/30/12	HEXANE, Lot K42e19	100 mL	SG1016/1260MX_00004	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18		Restek, Lot a082781		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00003	08/31/13	08/31/12	HEXANE, Lot L03E01	100 mL	SGPCBSURRMX_00004	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00004	07/31/16		restek, Lot a065184		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@0.5PPM_00012	03/03/13	09/03/12	HEXANE, Lot 0000013019	200 mL	SG1016/1260_00005	10 mL	PCB-1016 Peak 1	0.5 ug/mL
							PCB-1016 Peak 2	0.5 ug/mL
							PCB-1016 Peak 3	0.5 ug/mL
							PCB-1016 Peak 4	0.5 ug/mL
							PCB-1016 Peak 5	0.5 ug/mL
							PCB-1260 Peak 1	0.5 ug/mL
							PCB-1260 Peak 2	0.5 ug/mL
							PCB-1260 Peak 3	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1260 Peak 4	0.5 ug/mL
							PCB-1260 Peak 5	0.5 ug/mL
					SGPCGSURRSTK_00003	2.5 mL	DCB Decachlorobiphenyl	0.025 ug/mL
							Tetrachloro-m-xylene	0.025 ug/mL
.SG1016/1260_00005	05/30/13	05/30/12	HEXANE, Lot K42e19	100 mL	SG1016/1260MX_00004	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18	Restek, Lot a082781			(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00003	08/31/13	08/31/12	HEXANE, Lot L03E01	100 mL	SGPCBSURRMX_00004	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00004	07/31/16	restek, Lot a065184			(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@0.5PPM_00015	07/23/13	01/23/13	HEXANE, Lot 0000017861	200 mL	SG1016/1260_00006	10 mL	Aroclor-1016	0.5 ug/mL
							Aroclor-1260	0.5 ug/mL
							PCB-1016 Peak 1	0.5 ug/mL
							PCB-1016 Peak 2	0.5 ug/mL
							PCB-1016 Peak 3	0.5 ug/mL
							PCB-1016 Peak 4	0.5 ug/mL
							PCB-1016 Peak 5	0.5 ug/mL
							PCB-1260 Peak 1	0.5 ug/mL
							PCB-1260 Peak 2	0.5 ug/mL
							PCB-1260 Peak 3	0.5 ug/mL
							PCB-1260 Peak 4	0.5 ug/mL
							PCB-1260 Peak 5	0.5 ug/mL
					SGPCGSURRSTK_00003	2.5 mL	DCB Decachlorobiphenyl	0.025 ug/mL
							Tetrachloro-m-xylene	0.025 ug/mL
.SG1016/1260_00006	01/23/14	01/23/13	HEXANE, Lot 0000017861	100 mL	SG1016/1260MX_00004	1 mL	Aroclor-1016	10 ug/mL
							Aroclor-1260	10 ug/mL
							PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18		Restek, Lot a082781		(Purchased Reagent)		Aroclor-1016	1000 ug/mL
							Aroclor-1260	1000 ug/mL
							PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00003	08/31/13	08/31/12	HEXANE, Lot L03E01	100 mL	SGPCBSURRMX_00004	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00004	07/31/16		restek, Lot a065184		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@1.0PPM_00005	03/03/13	09/03/12	HEXANE, Lot 0000013019	100 mL	SG1016/1260_00005	10 mL	PCB-1016 Peak 1	1 ug/mL
							PCB-1016 Peak 2	1 ug/mL
							PCB-1016 Peak 3	1 ug/mL
							PCB-1016 Peak 4	1 ug/mL
							PCB-1016 Peak 5	1 ug/mL
							PCB-1260 Peak 1	1 ug/mL
							PCB-1260 Peak 2	1 ug/mL
							PCB-1260 Peak 3	1 ug/mL
							PCB-1260 Peak 4	1 ug/mL
							PCB-1260 Peak 5	1 ug/mL
					SGPCGSURRSTK_00003	2.5 mL	DCB Decachlorobiphenyl	0.05 ug/mL
							Tetrachloro-m-xylene	0.05 ug/mL
.SG1016/1260_00005	05/30/13	05/30/12	HEXANE, Lot K42e19	100 mL	SG1016/1260MX_00004	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18		Restek, Lot a082781		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00003	08/31/13	08/31/12	HEXANE, Lot L03E01	100 mL	SGPCBSURRMX_00004	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00004	07/31/16		restek, Lot a065184		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@2.0PPM_00005	03/03/13	09/03/12	HEXANE, Lot 0000013019	100 mL	SG1016/1260_00005	20 mL	PCB-1016 Peak 1	2 ug/mL
							PCB-1016 Peak 2	2 ug/mL
							PCB-1016 Peak 3	2 ug/mL
							PCB-1016 Peak 4	2 ug/mL
							PCB-1016 Peak 5	2 ug/mL
							PCB-1260 Peak 1	2 ug/mL
							PCB-1260 Peak 2	2 ug/mL
							PCB-1260 Peak 3	2 ug/mL
							PCB-1260 Peak 4	2 ug/mL
							PCB-1260 Peak 5	2 ug/mL
					SGPCGSURRSTK_00003	5 mL	DCB Decachlorobiphenyl	0.1 ug/mL
							Tetrachloro-m-xylene	0.1 ug/mL
.SG1016/1260_00005	05/30/13	05/30/12	HEXANE, Lot K42e19	100 mL	SG1016/1260MX_00004	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18		Restek, Lot a082781		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00003	08/31/13	08/31/12	HEXANE, Lot L03E01	100 mL	SGPCBSURRMX_00004	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00004	07/31/16		restek, Lot a065184		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloro-m-xylene	200 ug/mL
SG1660STD@0.1_00005	03/03/13	09/03/12	HEXANE, Lot 0000013019	100 mL	SG1016/1260_00005	1 mL	PCB-1016 Peak 1	0.1 ug/mL
							PCB-1016 Peak 2	0.1 ug/mL
							PCB-1016 Peak 3	0.1 ug/mL
							PCB-1016 Peak 4	0.1 ug/mL
							PCB-1016 Peak 5	0.1 ug/mL
							PCB-1260 Peak 1	0.1 ug/mL
							PCB-1260 Peak 2	0.1 ug/mL
							PCB-1260 Peak 3	0.1 ug/mL
							PCB-1260 Peak 4	0.1 ug/mL
							PCB-1260 Peak 5	0.1 ug/mL
					SGPCGSURRSTK_00003	0.25 mL	DCB Decachlorobiphenyl	0.005 ug/mL
							Tetrachloro-m-xylene	0.005 ug/mL
.SG1016/1260_00005	05/30/13	05/30/12	HEXANE, Lot K42e19	100 mL	SG1016/1260MX_00004	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18	Restek, Lot a082781			(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00003	08/31/13	08/31/12	HEXANE, Lot L03E01	100 mL	SGPCBSURRMX_00004	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00004	07/31/16	restek, Lot a065184			(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG2154@0.05PP_00003	01/31/13	08/02/12	HEXANE, Lot L08E17	100 mL	SG2154@10ppm_00002	0.5 mL	PCB-1221 Peak 1	0.05 ug/mL
							PCB-1221 Peak 2	0.05 ug/mL
							PCB-1221 Peak 3	0.05 ug/mL
							PCB-1254 Peak 1	0.05 ug/mL
							PCB-1254 Peak 2	0.05 ug/mL
							PCB-1254 Peak 3	0.05 ug/mL
							PCB-1254 Peak 4	0.05 ug/mL
							PCB-1254 Peak 5	0.05 ug/mL
.SG2154@10ppm_00002	01/31/13	01/31/12	HEXANE, Lot K29E03	100 mL	SGPCB1221_00002	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00005	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00002	06/17/16		RESTEK, Lot a074947		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00005	09/30/17		restek, Lot A076437		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@0.2PPM_00004	01/31/13	08/02/12	HEXANE, Lot L08e17	100 mL	SG2154@10ppm_00002	2 mL	PCB-1221 Peak 1	0.2 ug/mL
							PCB-1221 Peak 2	0.2 ug/mL
							PCB-1221 Peak 3	0.2 ug/mL
							PCB-1254 Peak 1	0.2 ug/mL
							PCB-1254 Peak 2	0.2 ug/mL
							PCB-1254 Peak 3	0.2 ug/mL
							PCB-1254 Peak 4	0.2 ug/mL
							PCB-1254 Peak 5	0.2 ug/mL
.SG2154@10ppm_00002	01/31/13	01/31/12	HEXANE, Lot K29E03	100 mL	SGPCB1221_00002	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00005	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00002	06/17/16		RESTEK, Lot a074947		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00005	09/30/17		restek, Lot A076437		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@0.5PPM_00006	01/31/13	08/02/12	HEXANE, Lot L08e17	100 mL	SG2154@10ppm_00002	5 mL	PCB-1221 Peak 1	0.5 ug/mL
							PCB-1221 Peak 2	0.5 ug/mL
							PCB-1221 Peak 3	0.5 ug/mL
							PCB-1254 Peak 1	0.5 ug/mL
							PCB-1254 Peak 2	0.5 ug/mL
							PCB-1254 Peak 3	0.5 ug/mL
							PCB-1254 Peak 4	0.5 ug/mL
							PCB-1254 Peak 5	0.5 ug/mL
.SG2154@10ppm_00002	01/31/13	01/31/12	HEXANE, Lot K29E03	100 mL	SGPCB1221_00002	1 mL	PCB-1221 Peak 1	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00005	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00002	06/17/16		RESTEK, Lot a074947		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00005	09/30/17		restek, Lot A076437		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@1.0PPM_00004	01/31/13	08/02/12	HEXANE, Lot L08E17	100 mL	SG2154@10ppm_00002	10 mL	PCB-1221 Peak 1	1 ug/mL
							PCB-1221 Peak 2	1 ug/mL
							PCB-1221 Peak 3	1 ug/mL
							PCB-1254 Peak 1	1 ug/mL
							PCB-1254 Peak 2	1 ug/mL
							PCB-1254 Peak 3	1 ug/mL
							PCB-1254 Peak 4	1 ug/mL
							PCB-1254 Peak 5	1 ug/mL
.SG2154@10ppm_00002	01/31/13	01/31/12	HEXANE, Lot K29E03	100 mL	SGPCB1221_00002	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00005	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00002	06/17/16		RESTEK, Lot a074947		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00005	09/30/17		restek, Lot A076437		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@2.0PPM_00004	01/31/13	08/02/12	HEXANE, Lot L08E17	100 mL	SG2154@10ppm_00002	20 mL	PCB-1221 Peak 1	2 ug/mL
							PCB-1221 Peak 2	2 ug/mL
							PCB-1221 Peak 3	2 ug/mL
							PCB-1254 Peak 1	2 ug/mL
							PCB-1254 Peak 2	2 ug/mL
							PCB-1254 Peak 3	2 ug/mL
							PCB-1254 Peak 4	2 ug/mL
							PCB-1254 Peak 5	2 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SG2154@10ppm_00002	01/31/13	01/31/12	HEXANE, Lot K29E03	100 mL	SGPCB1221_00002	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00005	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00002	06/17/16		RESTEK, Lot a074947		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00005	09/30/17		restek, Lot A076437		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@O.1PPM_00004	01/31/13	08/02/12	HEXANE, Lot L08E17	100 mL	SG2154@10ppm_00002	1 mL	PCB-1221 Peak 1	0.1 ug/mL
							PCB-1221 Peak 2	0.1 ug/mL
							PCB-1221 Peak 3	0.1 ug/mL
							PCB-1254 Peak 1	0.1 ug/mL
							PCB-1254 Peak 2	0.1 ug/mL
							PCB-1254 Peak 3	0.1 ug/mL
							PCB-1254 Peak 4	0.1 ug/mL
							PCB-1254 Peak 5	0.1 ug/mL
.SG2154@10ppm_00002	01/31/13	01/31/12	HEXANE, Lot K29E03	100 mL	SGPCB1221_00002	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00005	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00002	06/17/16		RESTEK, Lot a074947		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00005	09/30/17		restek, Lot A076437		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SGHERBL1_00009	05/31/13	11/24/12	HEXANE, Lot 00000014962	100 mL	SGHERBST_00009	100 uL	2,4,5-T	0.005 ug/mL
							2,4-D	0.02 ug/mL
							2,4-DB	0.02 ug/mL
							2,4-Dichlorophenylacetic acid	0.02 ug/mL
							Dalapon	0.01 ug/mL
							Dicamba	0.01 ug/mL
							Dichlorprop	0.02 ug/mL
							Dinoseb	0.003 ug/mL
							MCPA	2 ug/mL
							MCPP	2 ug/mL
							Silvex (2,4,5-TP)	0.005 ug/mL
.SGHERBST_00009	05/31/13	08/23/12	HEXANE, Lot L03E01	10 mL	SGHERB_00015	1 mL	2,4,5-T	5 ug/mL
							2,4-D	20 ug/mL
							2,4-DB	20 ug/mL
							2,4-Dichlorophenylacetic acid	20 ug/mL
							Dalapon	10 ug/mL
							Dicamba	10 ug/mL
							Dichlorprop	20 ug/mL
							Dinoseb	3 ug/mL
							MCPA	2000 ug/mL
							MCPP	2000 ug/mL
							Silvex (2,4,5-TP)	5 ug/mL
..SGHERB_00015	05/31/13	Ultra Scientific, Lot CH-1342			(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							2,4-Dichlorophenylacetic acid	200 ug/mL
							Dalapon	100 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	30 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
SGHERBL2_00006	05/31/13	11/24/12	HEXANE, Lot 00000014962	100 mL	SGHERBST_00009	200 uL	2,4,5-T	0.01 ug/mL
							2,4-D	0.04 ug/mL
							2,4-DB	0.04 ug/mL
							2,4-Dichlorophenylacetic acid	0.04 ug/mL
							Dalapon	0.02 ug/mL
							Dicamba	0.02 ug/mL
							Dichlorprop	0.04 ug/mL
							Dinoseb	0.006 ug/mL
							MCPA	4 ug/mL
							MCPP	4 ug/mL
							Silvex (2,4,5-TP)	0.01 ug/mL
.SGHERBST_00009	05/31/13	08/23/12	HEXANE, Lot L03E01	10 mL	SGHERB_00015	1 mL	2,4,5-T	5 ug/mL
							2,4-D	20 ug/mL
							2,4-DB	20 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dichlorophenylacetic acid	20 ug/mL
							Dalapon	10 ug/mL
							Dicamba	10 ug/mL
							Dichlorprop	20 ug/mL
							Dinoseb	3 ug/mL
							MCPA	2000 ug/mL
							MCPP	2000 ug/mL
							Silvex (2,4,5-TP)	5 ug/mL
..SGHERB_00015	05/31/13	Ultra Scientific, Lot CH-1342			(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							2,4-Dichlorophenylacetic acid	200 ug/mL
							Dalapon	100 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	30 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
SGHERBL3_00009	05/31/13	11/24/12	HEXANE, Lot 00000014962	100 mL	SGHERBST_00009	400 uL	2,4,5-T	0.02 ug/mL
							2,4-D	0.08 ug/mL
							2,4-DB	0.08 ug/mL
							2,4-Dichlorophenylacetic acid	0.08 ug/mL
							Dalapon	0.04 ug/mL
							Dicamba	0.04 ug/mL
							Dichlorprop	0.08 ug/mL
							Dinoseb	0.012 ug/mL
							MCPA	8 ug/mL
							MCPP	8 ug/mL
							Silvex (2,4,5-TP)	0.02 ug/mL
.SGHERBST_00009	05/31/13	08/23/12	HEXANE, Lot L03E01	10 mL	SGHERB_00015	1 mL	2,4,5-T	5 ug/mL
							2,4-D	20 ug/mL
							2,4-DB	20 ug/mL
							2,4-Dichlorophenylacetic acid	20 ug/mL
							Dalapon	10 ug/mL
							Dicamba	10 ug/mL
							Dichlorprop	20 ug/mL
							Dinoseb	3 ug/mL
							MCPA	2000 ug/mL
							MCPP	2000 ug/mL
							Silvex (2,4,5-TP)	5 ug/mL
..SGHERB_00015	05/31/13	Ultra Scientific, Lot CH-1342			(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							2,4-Dichlorophenylacetic acid	200 ug/mL
							Dalapon	100 ug/mL
							Dicamba	100 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorprop	200 ug/mL
							Dinoseb	30 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
SGHERBL4_00006	05/31/13	11/24/12	HEXANE, Lot 00000014962	100 mL	SGHERBST_00009	800 uL	2,4,5-T	0.04 ug/mL
							2,4-D	0.16 ug/mL
							2,4-DB	0.16 ug/mL
							2,4-Dichlorophenylacetic acid	0.16 ug/mL
							Dalapon	0.08 ug/mL
							Dicamba	0.08 ug/mL
							Dichlorprop	0.16 ug/mL
							Dinoseb	0.024 ug/mL
							MCPA	16 ug/mL
							MCPP	16 ug/mL
							Silvex (2,4,5-TP)	0.04 ug/mL
.SGHERBST_00009	05/31/13	08/23/12	HEXANE, Lot L03E01	10 mL	SGHERB_00015	1 mL	2,4,5-T	5 ug/mL
							2,4-D	20 ug/mL
							2,4-DB	20 ug/mL
							2,4-Dichlorophenylacetic acid	20 ug/mL
							Dalapon	10 ug/mL
							Dicamba	10 ug/mL
							Dichlorprop	20 ug/mL
							Dinoseb	3 ug/mL
							MCPA	2000 ug/mL
							MCPP	2000 ug/mL
							Silvex (2,4,5-TP)	5 ug/mL
..SGHERB_00015	05/31/13		Ultra Scientific, Lot CH-1342		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							2,4-Dichlorophenylacetic acid	200 ug/mL
							Dalapon	100 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	30 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
SGHERBL5_00006	05/31/13	11/24/12	HEXANE, Lot 00000014962	100 mL	SGHERBST_00009	1.6 mL	2,4,5-T	0.08 ug/mL
							2,4-D	0.32 ug/mL
							2,4-DB	0.32 ug/mL
							2,4-Dichlorophenylacetic acid	0.32 ug/mL
							Dalapon	0.16 ug/mL
							Dicamba	0.16 ug/mL
							Dichlorprop	0.32 ug/mL
							Dinoseb	0.048 ug/mL
							MCPA	32 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	32 ug/mL
							Silvex (2,4,5-TP)	0.08 ug/mL
.SGHERBST_00009	05/31/13	08/23/12	HEXANE, Lot L03E01	10 mL	SGHERB_00015	1 mL	2,4,5-T	5 ug/mL
							2,4-D	20 ug/mL
							2,4-DB	20 ug/mL
							2,4-Dichlorophenylacetic acid	20 ug/mL
							Dalapon	10 ug/mL
							Dicamba	10 ug/mL
							Dichlorprop	20 ug/mL
							Dinoseb	3 ug/mL
							MCPA	2000 ug/mL
							MCPP	2000 ug/mL
							Silvex (2,4,5-TP)	5 ug/mL
..SGHERB_00015	05/31/13	Ultra Scientific, Lot CH-1342			(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							2,4-Dichlorophenylacetic acid	200 ug/mL
							Dalapon	100 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	30 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
SGHERBL6_00006	05/31/13	11/24/12	HEXANE, Lot 00000014962	100 mL	SGHERBST_00009	3.2 mL	2,4,5-T	0.16 ug/mL
							2,4-D	0.64 ug/mL
							2,4-DB	0.64 ug/mL
							2,4-Dichlorophenylacetic acid	0.64 ug/mL
							Dalapon	0.32 ug/mL
							Dicamba	0.32 ug/mL
							Dichlorprop	0.64 ug/mL
							Dinoseb	0.096 ug/mL
							MCPA	64 ug/mL
							MCPP	64 ug/mL
							Silvex (2,4,5-TP)	0.16 ug/mL
.SGHERBST_00009	05/31/13	08/23/12	HEXANE, Lot L03E01	10 mL	SGHERB_00015	1 mL	2,4,5-T	5 ug/mL
							2,4-D	20 ug/mL
							2,4-DB	20 ug/mL
							2,4-Dichlorophenylacetic acid	20 ug/mL
							Dalapon	10 ug/mL
							Dicamba	10 ug/mL
							Dichlorprop	20 ug/mL
							Dinoseb	3 ug/mL
							MCPA	2000 ug/mL
							MCPP	2000 ug/mL
							Silvex (2,4,5-TP)	5 ug/mL
..SGHERB_00015	05/31/13	Ultra Scientific, Lot CH-1342			(Purchased Reagent)		2,4,5-T	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							2,4-Dichlorophenylacetic acid	200 ug/mL
							Dalapon	100 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	30 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
SGHerbPCP2_00009	07/15/13	01/15/13	HEXANE, Lot 0000017861	100 mL	SGHERBPCPST_00008	50 uL	Pentachlorophenol	0.005 ug/mL
.SGHERBPCPST_00008	01/15/14	01/15/13	HEXANE, Lot 0000017861	100 mL	SGHERBPCP_00008	1 mL	Pentachlorophenol	10 ug/mL
..SGHERBPCP_00008	06/30/14		Restek, Lot A089363		(Purchased Reagent)		Pentachlorophenol	1000 ug/mL
SGHerbPCP3_00007	07/15/13	01/15/13	HEXANE, Lot 0000017861	100 mL	SGHERBPCPST_00008	100 uL	Pentachlorophenol	0.01 ug/mL
.SGHERBPCPST_00008	01/15/14	01/15/13	HEXANE, Lot 0000017861	100 mL	SGHERBPCP_00008	1 mL	Pentachlorophenol	10 ug/mL
..SGHERBPCP_00008	06/30/14		Restek, Lot A089363		(Purchased Reagent)		Pentachlorophenol	1000 ug/mL
SGHerbPCP4_00007	07/15/13	01/15/13	HEXANE, Lot 0000017861	100 mL	SGHERBPCPST_00008	200 uL	Pentachlorophenol	0.02 ug/mL
.SGHERBPCPST_00008	01/15/14	01/15/13	HEXANE, Lot 0000017861	100 mL	SGHERBPCP_00008	1 mL	Pentachlorophenol	10 ug/mL
..SGHERBPCP_00008	06/30/14		Restek, Lot A089363		(Purchased Reagent)		Pentachlorophenol	1000 ug/mL
SGHerbPCP5_00007	07/15/13	01/15/13	HEXANE, Lot 0000017861	100 mL	SGHERBPCPST_00008	400 uL	Pentachlorophenol	0.04 ug/mL
.SGHERBPCPST_00008	01/15/14	01/15/13	HEXANE, Lot 0000017861	100 mL	SGHERBPCP_00008	1 mL	Pentachlorophenol	10 ug/mL
..SGHERBPCP_00008	06/30/14		Restek, Lot A089363		(Purchased Reagent)		Pentachlorophenol	1000 ug/mL
SGHerbPCP6_00007	07/15/13	01/15/13	HEXANE, Lot 0000017816	100 mL	SGHERBPCPST_00008	800 uL	Pentachlorophenol	0.08 ug/mL
.SGHERBPCPST_00008	01/15/14	01/15/13	HEXANE, Lot 0000017861	100 mL	SGHERBPCP_00008	1 mL	Pentachlorophenol	10 ug/mL
..SGHERBPCP_00008	06/30/14		Restek, Lot A089363		(Purchased Reagent)		Pentachlorophenol	1000 ug/mL
SGPestAB1_00004	09/04/13	03/04/13	HEXANE, Lot 0000021949	100 mL	SGPESTABST_00005	25 uL	4,4'-DDD	0.005 ug/mL
							4,4'-DDE	0.005 ug/mL
							4,4'-DDT	0.005 ug/mL
							Aldrin	0.005 ug/mL
							alpha-BHC	0.005 ug/mL
							alpha-Chlordane	0.005 ug/mL
							beta-BHC	0.005 ug/mL
							delta-BHC	0.005 ug/mL
							Dieldrin	0.005 ug/mL
							Endosulfan I	0.005 ug/mL
							Endosulfan II	0.005 ug/mL
							Endosulfan sulfate	0.005 ug/mL
							Endrin	0.005 ug/mL
							Endrin aldehyde	0.005 ug/mL
							Endrin ketone	0.005 ug/mL
							gamma-BHC (Lindane)	0.005 ug/mL
							gamma-Chlordane	0.005 ug/mL
							Heptachlor	0.005 ug/mL
							Heptachlor epoxide	0.005 ug/mL
							Methoxychlor	0.005 ug/mL
							DCB Decachlorobiphenyl	0.005 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloro-m-xylene	0.005 ug/mL
.SGPESTABST_00005	09/04/13	03/04/13	HEXANE, Lot 0000021949	10 mL	SGPESTAB_00005	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00002	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..SGPESTAB_00005	08/31/14		Restek, Lot A076528		(Purchased Reagent)		4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
..SGPESTSURR_00002	04/20/19		Restek, Lot A084532		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB2_00004	09/04/13	03/04/13	HEXANE, Lot 00000121949	100 mL	SGPESTABST_00005	50 uL	4,4'-DDD	0.01 ug/mL
							4,4'-DDE	0.01 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,4'-DDT	0.01 ug/mL
							Aldrin	0.01 ug/mL
							alpha-BHC	0.01 ug/mL
							alpha-Chlordane	0.01 ug/mL
							beta-BHC	0.01 ug/mL
							delta-BHC	0.01 ug/mL
							Dieldrin	0.01 ug/mL
							Endosulfan I	0.01 ug/mL
							Endosulfan II	0.01 ug/mL
							Endosulfan sulfate	0.01 ug/mL
							Endrin	0.01 ug/mL
							Endrin aldehyde	0.01 ug/mL
							Endrin ketone	0.01 ug/mL
							gamma-BHC (Lindane)	0.01 ug/mL
							gamma-Chlordane	0.01 ug/mL
							Heptachlor	0.01 ug/mL
							Heptachlor epoxide	0.01 ug/mL
							Methoxychlor	0.01 ug/mL
							DCB Decachlorobiphenyl	0.01 ug/mL
							Tetrachloro-m-xylene	0.01 ug/mL
.SGPESTABST_00005	09/04/13	03/04/13	HEXANE, Lot 0000021949	10 mL	SGPESTAB_00005	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00002	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..SGPESTAB_00005	08/31/14		Restek, Lot A076528		(Purchased Reagent)		4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
..SGPESTSURR_00002	04/20/19		Restek, Lot A084532		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB3_00006	09/04/13	03/04/13	HEXANE, Lot 0000021949	200 mL	SGPESTABST_00005	250 uL	4,4'-DDD	0.025 ug/mL
							4,4'-DDE	0.025 ug/mL
							4,4'-DDT	0.025 ug/mL
							Aldrin	0.025 ug/mL
							alpha-BHC	0.025 ug/mL
							alpha-Chlordane	0.025 ug/mL
							beta-BHC	0.025 ug/mL
							delta-BHC	0.025 ug/mL
							Dieldrin	0.025 ug/mL
							Endosulfan I	0.025 ug/mL
							Endosulfan II	0.025 ug/mL
							Endosulfan sulfate	0.025 ug/mL
							Endrin	0.025 ug/mL
							Endrin aldehyde	0.025 ug/mL
							Endrin ketone	0.025 ug/mL
							gamma-BHC (Lindane)	0.025 ug/mL
							gamma-Chlordane	0.025 ug/mL
							Heptachlor	0.025 ug/mL
							Heptachlor epoxide	0.025 ug/mL
							Methoxychlor	0.025 ug/mL
							DCB Decachlorobiphenyl	0.025 ug/mL
							Tetrachloro-m-xylene	0.025 ug/mL
.SGPESTABST_00005	09/04/13	03/04/13	HEXANE, Lot 0000021949	10 mL	SGPESTAB_00005	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00002	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..SGPESTAB_00005	08/31/14		Restek, Lot A076528		(Purchased Reagent)		4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
..SGPESTSURR_00002	04/20/19		Restek, Lot A084532		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB4_00004	09/04/13	03/04/13	HEXANE, Lot 0000021949	100 mL	SGPESTABST_00005	250 uL	4,4'-DDD	0.05 ug/mL
							4,4'-DDE	0.05 ug/mL
							4,4'-DDT	0.05 ug/mL
							Aldrin	0.05 ug/mL
							alpha-BHC	0.05 ug/mL
							alpha-Chlordane	0.05 ug/mL
							beta-BHC	0.05 ug/mL
							delta-BHC	0.05 ug/mL
							Dieldrin	0.05 ug/mL
							Endosulfan I	0.05 ug/mL
							Endosulfan II	0.05 ug/mL
							Endosulfan sulfate	0.05 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endrin	0.05 ug/mL
							Endrin aldehyde	0.05 ug/mL
							Endrin ketone	0.05 ug/mL
							gamma-BHC (Lindane)	0.05 ug/mL
							gamma-Chlordane	0.05 ug/mL
							Heptachlor	0.05 ug/mL
							Heptachlor epoxide	0.05 ug/mL
							Methoxychlor	0.05 ug/mL
							DCB Decachlorobiphenyl	0.05 ug/mL
							Tetrachloro-m-xylene	0.05 ug/mL
.SGPESTABST_00005	09/04/13	03/04/13	HEXANE, Lot 0000021949	10 mL	SGPESTAB_00005	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00002	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..SGPESTAB_00005	08/31/14		Restek, Lot A076528		(Purchased Reagent)		4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
..SGPESTSURR_00002	04/20/19		Restek, Lot A084532		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB5_00004	09/04/13	03/04/13	HEXANE, Lot 0000021949	100 mL	SGPESTABST_00005	500 uL	4,4'-DDD	0.1 ug/mL
							4,4'-DDE	0.1 ug/mL
							4,4'-DDT	0.1 ug/mL
							Aldrin	0.1 ug/mL
							alpha-BHC	0.1 ug/mL
							alpha-Chlordane	0.1 ug/mL
							beta-BHC	0.1 ug/mL
							delta-BHC	0.1 ug/mL
							Dieldrin	0.1 ug/mL
							Endosulfan I	0.1 ug/mL
							Endosulfan II	0.1 ug/mL
							Endosulfan sulfate	0.1 ug/mL
							Endrin	0.1 ug/mL
							Endrin aldehyde	0.1 ug/mL
							Endrin ketone	0.1 ug/mL
							gamma-BHC (Lindane)	0.1 ug/mL
							gamma-Chlordane	0.1 ug/mL
							Heptachlor	0.1 ug/mL
							Heptachlor epoxide	0.1 ug/mL
							Methoxychlor	0.1 ug/mL
							DCB Decachlorobiphenyl	0.1 ug/mL
							Tetrachloro-m-xylene	0.1 ug/mL
.SGPESTABST_00005	09/04/13	03/04/13	HEXANE, Lot 0000021949	10 mL	SGPESTAB_00005	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methoxychlor	20 ug/mL
					SGPESTSURR_00002	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..SGPESTAB_00005	08/31/14		Restek, Lot A076528		(Purchased Reagent)		4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
..SGPESTSURR_00002	04/20/19		Restek, Lot A084532		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB6_00004	09/04/13	03/04/13	HEXANE, Lot 0000021949	100 mL	SGPESTABST_00005	1 mL	4,4'-DDD	0.2 ug/mL
							4,4'-DDE	0.2 ug/mL
							4,4'-DDT	0.2 ug/mL
							Aldrin	0.2 ug/mL
							alpha-BHC	0.2 ug/mL
							alpha-Chlordane	0.2 ug/mL
							beta-BHC	0.2 ug/mL
							delta-BHC	0.2 ug/mL
							Dieldrin	0.2 ug/mL
							Endosulfan I	0.2 ug/mL
							Endosulfan II	0.2 ug/mL
							Endosulfan sulfate	0.2 ug/mL
							Endrin	0.2 ug/mL
							Endrin aldehyde	0.2 ug/mL
							Endrin ketone	0.2 ug/mL
							gamma-BHC (Lindane)	0.2 ug/mL
							gamma-Chlordane	0.2 ug/mL
							Heptachlor	0.2 ug/mL
							Heptachlor epoxide	0.2 ug/mL
							Methoxychlor	0.2 ug/mL
							DCB Decachlorobiphenyl	0.2 ug/mL
							Tetrachloro-m-xylene	0.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SGPESTABST_00005	09/04/13	03/04/13	HEXANE, Lot 0000021949	10 mL	SGPESTAB_00005	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00002	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..SGPESTAB_00005	08/31/14		Restek, Lot A076528		(Purchased Reagent)		4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
..SGPESTSURR_00002	04/20/19		Restek, Lot A084532		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPESTABCV_00011	07/25/13	01/25/13	HEXANE, Lot 0000017861	100 mL	SGPESTABIC_00005	250 uL	4,4'-DDD	0.025 ug/mL
							4,4'-DDE	0.025 ug/mL
							4,4'-DDT	0.025 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Aldrin	0.025 ug/mL
							alpha-BHC	0.025 ug/mL
							alpha-Chlordane	0.025 ug/mL
							beta-BHC	0.025 ug/mL
							delta-BHC	0.025 ug/mL
							Dieldrin	0.025 ug/mL
							Endosulfan I	0.025 ug/mL
							Endosulfan II	0.025 ug/mL
							Endosulfan sulfate	0.025 ug/mL
							Endrin	0.025 ug/mL
							Endrin aldehyde	0.025 ug/mL
							Endrin ketone	0.025 ug/mL
							gamma-BHC (Lindane)	0.025 ug/mL
							gamma-Chlordane	0.025 ug/mL
							Heptachlor	0.025 ug/mL
							Heptachlor epoxide	0.025 ug/mL
							Methoxychlor	0.025 ug/mL
.SGPESTABIC_00005	01/25/14	01/25/13	HEXANE, Lot 0000017861	100 mL	SGPESTABIV_00008	1 mL	4,4'-DDD	10 ug/mL
							4,4'-DDE	10 ug/mL
							4,4'-DDT	10 ug/mL
							Aldrin	10 ug/mL
							alpha-BHC	10 ug/mL
							alpha-Chlordane	10 ug/mL
							beta-BHC	10 ug/mL
							delta-BHC	10 ug/mL
							Dieldrin	10 ug/mL
							Endosulfan I	10 ug/mL
							Endosulfan II	10 ug/mL
							Endosulfan sulfate	10 ug/mL
							Endrin	10 ug/mL
							Endrin aldehyde	10 ug/mL
							Endrin ketone	10 ug/mL
							gamma-BHC (Lindane)	10 ug/mL
							gamma-Chlordane	10 ug/mL
							Heptachlor	10 ug/mL
							Heptachlor epoxide	10 ug/mL
							Methoxychlor	10 ug/mL
..SGPESTABIV_00008	11/30/14		Ultra Scientific, Lot CJ-3745		(Purchased Reagent)		4,4'-DDD	1000 ug/mL
							4,4'-DDE	1000 ug/mL
							4,4'-DDT	1000 ug/mL
							Aldrin	1000 ug/mL
							alpha-BHC	1000 ug/mL
							alpha-Chlordane	1000 ug/mL
							beta-BHC	1000 ug/mL
							delta-BHC	1000 ug/mL
							Dieldrin	1000 ug/mL
							Endosulfan I	1000 ug/mL
							Endosulfan II	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endosulfan sulfate	1000 ug/mL
							Endrin	1000 ug/mL
							Endrin aldehyde	1000 ug/mL
							Endrin ketone	1000 ug/mL
							gamma-BHC (Lindane)	1000 ug/mL
							gamma-Chlordane	1000 ug/mL
							Heptachlor	1000 ug/mL
							Heptachlor epoxide	1000 ug/mL
							Methoxychlor	1000 ug/mL
SGPESTPEMS_00008	12/31/15		Restek, Lot A085642		(Purchased Reagent)		4,4'-DDT	10 ug/mL
							alpha-BHC	1 ug/mL
							beta-BHC	1 ug/mL
							Endrin	5 ug/mL
							gamma-BHC (Lindane)	1 ug/mL
							Methoxychlor	25 ug/mL
							Tetrachloro-m-xylene	1 ug/mL
SGPESTTOXI_00006	01/24/14	01/24/13	HEXANE, Lot 0000017861	100 mL	SGPESTTOX_00014	1 mL	Toxaphene	10 ug/mL
							Toxaphene Peak 1	10 ug/mL
							Toxaphene Peak 2	10 ug/mL
							Toxaphene Peak 3	10 ug/mL
							Toxaphene Peak 4	10 ug/mL
							Toxaphene Peak 5	10 ug/mL
.SGPESTTOX_00014	12/31/15		SUPELCO, Lot LB96954		(Purchased Reagent)		Toxaphene	1000 ug/mL
							Toxaphene Peak 1	1000 ug/mL
							Toxaphene Peak 2	1000 ug/mL
							Toxaphene Peak 3	1000 ug/mL
							Toxaphene Peak 4	1000 ug/mL
							Toxaphene Peak 5	1000 ug/mL
SGPESTTOXS_00010	07/27/13	03/05/13	HEXANE, Lot 0000021949	100 mL	SGPESTTOX_00010	1 mL	Toxaphene	10 ug/mL
							Toxaphene Peak 1	10 ug/mL
							Toxaphene Peak 2	10 ug/mL
							Toxaphene Peak 3	10 ug/mL
							Toxaphene Peak 4	10 ug/mL
							Toxaphene Peak 5	10 ug/mL
.SGPESTTOX_00010	07/31/13		Restek, Lot A067190		(Purchased Reagent)		Toxaphene	1000 ug/mL
							Toxaphene Peak 1	1000 ug/mL
							Toxaphene Peak 2	1000 ug/mL
							Toxaphene Peak 3	1000 ug/mL
							Toxaphene Peak 4	1000 ug/mL
							Toxaphene Peak 5	1000 ug/mL
SMDoDSS Ind W_00001	08/31/13	02/16/12	MECL2, Lot K48E14	10 mL	SMDoDSSInd ST_00001	1 mL	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							3,3'-Dichlorobenzidine	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	10 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	10 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
							Benzoic acid	20 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
							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

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-Nitrosodiphenylamine	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
.SMDoDSSInd ST_00001	08/31/13	02/16/12	MECL2, Lot K48E14	10 mL	SMDoD IND SS_00001	1 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
							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
							3,3'-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
							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
							Benzoic acid	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-Nitrosodiphenylamine	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
..SMDoD IND SS_00001	08/31/13		Sigma-Aldrich, Lot LB90764		(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
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3,3'-Dichlorobenzidine	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	1000 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	1000 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
							Benzoic acid	2000 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
							N-Nitrosodiphenylamine	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SMTCL L1 W_00007	04/30/13	09/10/12	MECL2, Lot 0000001289	2 mL	SMIS80PPMW_00006	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
					SMTCL DPH ST_00003	2 uL	1,1'-Biphenyl	0.1 ug/mL
							1-Methylnaphthalene	0.1 ug/mL
							2-Methylnaphthalene	0.1 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
							Chrysene	0.1 ug/mL
							Dibenz(a,h)anthracene	0.1 ug/mL
							Dibenzofuran	0.1 ug/mL
							Fluoranthene	0.1 ug/mL
							Fluorene	0.1 ug/mL
							Indeno[1,2,3-cd]pyrene	0.1 ug/mL
							Naphthalene	0.1 ug/mL
							Phenanthrene	0.1 ug/mL
							Pyrene	0.1 ug/mL
							2-Chloronaphthalene	0.1 ug/mL
							2-Fluorobiphenyl (Surr)	0.1 ug/mL
							Benzaldehyde	0.1 ug/mL
							Hexachlorobenzene	0.1 ug/mL
							Nitrobenzene-d5 (Surr)	0.1 ug/mL
							Terphenyl-d14 (Surr)	0.1 ug/mL
.SMIS80PPMW_00006	09/11/13	09/10/12	MECL2, Lot 0000001289	50 mL	SMIS_00004	1 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_00004	06/30/14	UltraScientific, Lot CH-1761			(Purchased Reagent)		1,4-Dichlorobenzene-d4	4000 ug/mL
							Acenaphthene-d10	4000 ug/mL
							Chrysene-d12	4000 ug/mL
							Naphthalene-d8	4000 ug/mL
							Perylene-d12	4000 ug/mL
							Phenanthrene-d10	4000 ug/mL
.SMTCL DPH ST_00003	04/30/13	09/10/12	MECL2, Lot 0000001289	8 mL	SM8270TCL3DPH_00002	2 mL	1,1'-Biphenyl	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Chrysene	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Naphthalene	100 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					SM8270TCL4_00004	2 mL	2-Chloronaphthalene	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							Benzaldehyde	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SM8270TCL3DPH_00002	12/31/14		Restek, Lot A083779		(Purchased Reagent)		1,1'-Biphenyl	400 ug/mL
							1-Methylnaphthalene	400 ug/mL
							2-Methylnaphthalene	400 ug/mL
							Acenaphthene	400 ug/mL
							Acenaphthylene	400 ug/mL
							Anthracene	400 ug/mL
							Benzo[a]anthracene	400 ug/mL
							Benzo[a]pyrene	400 ug/mL
							Benzo[b]fluoranthene	400 ug/mL
							Benzo[g,h,i]perylene	400 ug/mL
							Benzo[k]fluoranthene	400 ug/mL
							Chrysene	400 ug/mL
							Dibenz(a,h)anthracene	400 ug/mL
							Dibenzofuran	400 ug/mL
							Fluoranthene	400 ug/mL
							Fluorene	400 ug/mL
							Indeno[1,2,3-cd]pyrene	400 ug/mL
							Naphthalene	400 ug/mL
							Phenanthrene	400 ug/mL
							Pyrene	400 ug/mL
..SM8270TCL4_00004	05/31/14		Restek, Lot A081933		(Purchased Reagent)		2-Chloronaphthalene	400 ug/mL
							2-Fluorobiphenyl (Surr)	400 ug/mL
							Benzaldehyde	400 ug/mL
							Hexachlorobenzene	400 ug/mL
							Nitrobenzene-d5 (Surr)	400 ug/mL
							Terphenyl-d14 (Surr)	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SMTCL L2 W_00007	04/30/13	09/10/12	MECL2, Lot 0000001289	2 mL	SMIS80PPMW_00006	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
					SMSUP ST_00003	10 uL	2,4-Dinitrophenol	1 ug/mL
							Benzoic acid	1 ug/mL
							Pentachlorophenol	1 ug/mL
					SMTCL DPH ST_00003	10 uL	1,4-Dichlorobenzene	0.5 ug/mL
							1,4-Dioxane	0.5 ug/mL
							2,3,5,6-Tetrachlorophenol	0.5 ug/mL
							2,4,5-Trichlorophenol	0.5 ug/mL
							2,4,6-Tribromophenol (Surr)	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-Chlorophenol	0.5 ug/mL
							2-Fluorophenol (Surr)	0.5 ug/mL
							2-Methylphenol	0.5 ug/mL
							2-Nitrophenol	0.5 ug/mL
							3 & 4 Methylphenol	0.5 ug/mL
							4,6-Dinitro-2-methylphenol	0.5 ug/mL
							4-Chloro-3-methylphenol	0.5 ug/mL
							4-Nitrophenol	0.5 ug/mL
							Benzoic acid	1 ug/mL
							Benzyl alcohol	0.5 ug/mL
							Pentachlorophenol	1 ug/mL
							Phenol	0.5 ug/mL
							Phenol-d5 (Surr)	0.5 ug/mL
							2,4-Toluene diamine	0.5 ug/mL
							2-Nitroaniline	0.5 ug/mL
							3,3'-Dichlorobenzidine	0.5 ug/mL
							3,3'-Dimethoxybenzidine	0.5 ug/mL
							3-Nitroaniline	0.5 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	0.5 ug/mL
							4-Chloroaniline	0.5 ug/mL
							4-Nitroaniline	0.5 ug/mL
							Aniline	0.5 ug/mL
							Atrazine	0.5 ug/mL
							Benzidine	0.5 ug/mL
							N-Nitrosodi-n-propylamine	0.5 ug/mL
							N-Nitrosodimethylamine	0.5 ug/mL
							N-Nitrosodiphenylamine	0.5 ug/mL
							Pyridine	0.5 ug/mL
							1,1'-Biphenyl	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Diphenylhydrazine	0.5 ug/mL
							1-Methylnaphthalene	0.5 ug/mL
							2-Methylnaphthalene	0.5 ug/mL
							Acenaphthene	0.5 ug/mL
							Acenaphthylene	0.5 ug/mL
							Acetophenone	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
							Benzo[g,h,i]perylene	0.5 ug/mL
							Benzo[k]fluoranthene	0.5 ug/mL
							Bis(2-ethylhexyl) phthalate	0.5 ug/mL
							Butyl benzyl phthalate	0.5 ug/mL
							Caprolactam	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
							Ethyl methacrylate	0.5 ug/mL
							Fluoranthene	0.5 ug/mL
							Fluorene	0.5 ug/mL
							Indeno[1,2,3-cd]pyrene	0.5 ug/mL
							Isophorone	0.5 ug/mL
							Naphthalene	0.5 ug/mL
							Phenanthrene	0.5 ug/mL
							Pyrene	0.5 ug/mL
							1,2,3,5-Tetrachlorobenzene	0.5 ug/mL
							1,2,4-Trichlorobenzene	0.5 ug/mL
							1,2-Dichlorobenzene	0.5 ug/mL
							1,2-Dinitrobenzene	0.5 ug/mL
							1,3,5-Trichlorobenzene	0.5 ug/mL
							1,3-Dichlorobenzene	0.5 ug/mL
							2,4-Dinitrotoluene	0.5 ug/mL
							2,6-Dinitrotoluene	0.5 ug/mL
							2-Chloronaphthalene	0.5 ug/mL
							2-Fluorobiphenyl (Surr)	0.5 ug/mL
							3-Chloropropionitrile	0.5 ug/mL
							4-Bromophenyl phenyl ether	0.5 ug/mL
							4-Chlorophenyl phenyl ether	0.5 ug/mL
							Benzaldehyde	0.5 ug/mL
							bis (2-chloroisopropyl) ether	0.5 ug/mL
							Bis(2-chloroethoxy)methane	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

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	0.5 ug/mL
							Hexachlorobenzene	0.5 ug/mL
							Hexachlorobutadiene	0.5 ug/mL
							Hexachlorocyclopentadiene	0.5 ug/mL
							Hexachloroethane	0.5 ug/mL
							Malononitrile	0.5 ug/mL
							Nitrobenzene	0.5 ug/mL
							Nitrobenzene-d5 (Surr)	0.5 ug/mL
							Terphenyl-d14 (Surr)	0.5 ug/mL
.SMIS80PPMW_00006	09/11/13	09/10/12	MECL2, Lot 0000001289	50 mL	SMIS_00004	1 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_00004	06/30/14	UltraScientific, Lot CH-1761			(Purchased Reagent)		1,4-Dichlorobenzene-d4	4000 ug/mL
							Acenaphthene-d10	4000 ug/mL
							Chrysene-d12	4000 ug/mL
							Naphthalene-d8	4000 ug/mL
							Perylene-d12	4000 ug/mL
							Phenanthrene-d10	4000 ug/mL
.SMSUP ST_00003	09/10/13	09/10/12	MECL2, Lot 0000001289	10 mL	SMACIDSUP1_00003	200 uL	2,4-Dinitrophenol	100 ug/mL
					SMACIDSUP2_00003	500 uL	Benzoic acid	100 ug/mL
					SMACIDSUP3_00003	500 uL	Pentachlorophenol	100 ug/mL
..SMACIDSUP1_00003	04/10/17	Absolute Standard, Lot B7040078			(Purchased Reagent)		2,4-Dinitrophenol	5000 ug/mL
..SMACIDSUP2_00003	06/07/21	Absolute Standards, Lot 211061093			(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMACIDSUP3_00003	04/01/21	Absolute Standards, Lot 211041014			(Purchased Reagent)		Pentachlorophenol	2000 ug/mL
.SMTCL DPH ST_00003	04/30/13	09/10/12	MECL2, Lot 0000001289	8 mL	SM8270TCL1_00003	2 mL	1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2,3,5,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Tribromophenol (Surr)	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-Chlorophenol	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							4,6-Dinitro-2-methylphenol	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Nitrophenol	100 ug/mL
							Benzoic acid	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Pentachlorophenol	100 ug/mL
							Phenol	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

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
					SM8270TCL2_00003	2 mL	2,4-Toluene diamine	100 ug/mL
							2-Nitroaniline	100 ug/mL
							3,3'-Dichlorobenzidine	100 ug/mL
							3,3'-Dimethoxybenzidine	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Nitroaniline	100 ug/mL
							Aniline	100 ug/mL
							Atrazine	100 ug/mL
							Benzidine	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							Pyridine	100 ug/mL
					SM8270TCL3DPH_00002	2 mL	1,1'-Biphenyl	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	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
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Caprolactam	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
							Ethyl methacrylate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							Naphthalene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					SM8270TCL4_00004	2 mL	1,2,3,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dinitrobenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							3-Chloropropionitrile	100 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							Benzaldehyde	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Malononitrile	100 ug/mL
							Nitrobenzene	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SM8270TCL1_00003	05/31/16		RESTEK, Lot A081795		(Purchased Reagent)		1,4-Dichlorobenzene	400 ug/mL
							1,4-Dioxane	400 ug/mL
							2,3,5,6-Tetrachlorophenol	400 ug/mL
							2,4,5-Trichlorophenol	400 ug/mL
							2,4,6-Tribromophenol (Surr)	400 ug/mL
							2,4,6-Trichlorophenol	400 ug/mL
							2,4-Dichlorophenol	400 ug/mL
							2,4-Dimethylphenol	400 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2-Chlorophenol	400 ug/mL
							2-Fluorophenol (Surr)	400 ug/mL
							2-Methylphenol	400 ug/mL
							2-Nitrophenol	400 ug/mL
							3 & 4 Methylphenol	400 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Chloro-3-methylphenol	400 ug/mL
							4-Nitrophenol	400 ug/mL
							Benzoic acid	400 ug/mL
							Benzyl alcohol	400 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenol	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol-d5 (Surr)	400 ug/mL
..SM8270TCL2_00003	04/30/13		RESTEK, Lot A081245		(Purchased Reagent)		2,4-Toluene diamine	400 ug/mL
							2-Nitroaniline	400 ug/mL
							3,3'-Dichlorobenzidine	400 ug/mL
							3,3'-Dimethoxybenzidine	400 ug/mL
							3-Nitroaniline	400 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	400 ug/mL
							4-Chloroaniline	400 ug/mL
							4-Nitroaniline	400 ug/mL
							Aniline	400 ug/mL
							Atrazine	400 ug/mL
							Benzidine	400 ug/mL
							N-Nitrosodi-n-propylamine	400 ug/mL
							N-Nitrosodimethylamine	400 ug/mL
							N-Nitrosodiphenylamine	400 ug/mL
							Pyridine	400 ug/mL
..SM8270TCL3DPH_00002	12/31/14		Restek, Lot A083779		(Purchased Reagent)		1,1'-Biphenyl	400 ug/mL
							1,2-Diphenylhydrazine	400 ug/mL
							1-Methylnaphthalene	400 ug/mL
							2-Methylnaphthalene	400 ug/mL
							Acenaphthene	400 ug/mL
							Acenaphthylene	400 ug/mL
							Acetophenone	400 ug/mL
							Anthracene	400 ug/mL
							Azobenzene	400 ug/mL
							Benzo[a]anthracene	400 ug/mL
							Benzo[a]pyrene	400 ug/mL
							Benzo[b]fluoranthene	400 ug/mL
							Benzo[g,h,i]perylene	400 ug/mL
							Benzo[k]fluoranthene	400 ug/mL
							Bis(2-ethylhexyl) phthalate	400 ug/mL
							Butyl benzyl phthalate	400 ug/mL
							Caprolactam	400 ug/mL
							Carbazole	400 ug/mL
							Chrysene	400 ug/mL
							Di-n-butyl phthalate	400 ug/mL
							Di-n-octyl phthalate	400 ug/mL
							Dibenz(a,h)anthracene	400 ug/mL
							Dibenzofuran	400 ug/mL
							Diethyl phthalate	400 ug/mL
							Dimethyl phthalate	400 ug/mL
							Ethyl methacrylate	400 ug/mL
							Fluoranthene	400 ug/mL
							Fluorene	400 ug/mL
							Indeno[1,2,3-cd]pyrene	400 ug/mL
							Isophorone	400 ug/mL
							Naphthalene	400 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	400 ug/mL
							Pyrene	400 ug/mL
..SM8270TCL4_00004	05/31/14		Restek, Lot A081933		(Purchased Reagent)		1,2,3,5-Tetrachlorobenzene	400 ug/mL
							1,2,4-Trichlorobenzene	400 ug/mL
							1,2-Dichlorobenzene	400 ug/mL
							1,2-Dinitrobenzene	400 ug/mL
							1,3,5-Trichlorobenzene	400 ug/mL
							1,3-Dichlorobenzene	400 ug/mL
							2,4-Dinitrotoluene	400 ug/mL
							2,6-Dinitrotoluene	400 ug/mL
							2-Chloronaphthalene	400 ug/mL
							2-Fluorobiphenyl (Surr)	400 ug/mL
							3-Chloropropionitrile	400 ug/mL
							4-Bromophenyl phenyl ether	400 ug/mL
							4-Chlorophenyl phenyl ether	400 ug/mL
							Benzaldehyde	400 ug/mL
							bis (2-chloroisopropyl) ether	400 ug/mL
							Bis(2-chloroethoxy)methane	400 ug/mL
							Bis(2-chloroethyl)ether	400 ug/mL
							Hexachlorobenzene	400 ug/mL
							Hexachlorobutadiene	400 ug/mL
							Hexachlorocyclopentadiene	400 ug/mL
							Hexachloroethane	400 ug/mL
							Malononitrile	400 ug/mL
							Nitrobenzene	400 ug/mL
							Nitrobenzene-d5 (Surr)	400 ug/mL
							Terphenyl-d14 (Surr)	400 ug/mL
SMTCL L3 W_00007	04/30/13	09/10/12	MECL2, Lot 0000001289	2 mL	SMIS80PPMW_00006	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
					SMSUP ST_00003	20 uL	2,4-Dinitrophenol	2 ug/mL
							Benzoic acid	2 ug/mL
							Pentachlorophenol	2 ug/mL
					SMTCL DPH ST_00003	20 uL	1,4-Dichlorobenzene	1 ug/mL
							1,4-Dioxane	1 ug/mL
							2,3,5,6-Tetrachlorophenol	1 ug/mL
							2,4,5-Trichlorophenol	1 ug/mL
							2,4,6-Tribromophenol (Surr)	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-Chlorophenol	1 ug/mL
							2-Fluorophenol (Surr)	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylphenol	1 ug/mL
							2-Nitrophenol	1 ug/mL
							3 & 4 Methylphenol	1 ug/mL
							4,6-Dinitro-2-methylphenol	1 ug/mL
							4-Chloro-3-methylphenol	1 ug/mL
							4-Nitrophenol	1 ug/mL
							Benzoic acid	2 ug/mL
							Benzyl alcohol	1 ug/mL
							Pentachlorophenol	2 ug/mL
							Phenol	1 ug/mL
							Phenol-d5 (Surr)	1 ug/mL
							2,4-Toluene diamine	1 ug/mL
							2-Nitroaniline	1 ug/mL
							3,3'-Dichlorobenzidine	1 ug/mL
							3,3'-Dimethoxybenzidine	1 ug/mL
							3-Nitroaniline	1 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1 ug/mL
							4-Chloroaniline	1 ug/mL
							4-Nitroaniline	1 ug/mL
							Aniline	1 ug/mL
							Atrazine	1 ug/mL
							Benzidine	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodimethylamine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							Pyridine	1 ug/mL
							1,1'-Biphenyl	1 ug/mL
							1,2-Diphenylhydrazine	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	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
							Bis(2-ethylhexyl) phthalate	1 ug/mL
							Butyl benzyl phthalate	1 ug/mL
							Caprolactam	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

Lab Name: TestAmerica Canton Job No.: 240-21987-1

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	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Ethyl methacrylate	1 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							Isophorone	1 ug/mL
							Naphthalene	1 ug/mL
							Phenanthrene	1 ug/mL
							Pyrene	1 ug/mL
							1,2,3,5-Tetrachlorobenzene	1 ug/mL
							1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,2-Dinitrobenzene	1 ug/mL
							1,3,5-Trichlorobenzene	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Fluorobiphenyl (Surr)	1 ug/mL
							3-Chloropropionitrile	1 ug/mL
							4-Bromophenyl phenyl ether	1 ug/mL
							4-Chlorophenyl phenyl ether	1 ug/mL
							Benzaldehyde	1 ug/mL
							bis (2-chloroisopropyl) ether	1 ug/mL
							Bis(2-chloroethoxy)methane	1 ug/mL
							Bis(2-chloroethyl)ether	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Hexachlorobutadiene	1 ug/mL
							Hexachlorocyclopentadiene	1 ug/mL
							Hexachloroethane	1 ug/mL
							Malononitrile	1 ug/mL
							Nitrobenzene	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL
.SMIS80PPMW_00006	09/11/13	09/10/12	MECL2, Lot 0000001289	50 mL	SMIS_00004	1 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_00004	06/30/14		UltraScientific, Lot CH-1761		(Purchased Reagent)		1,4-Dichlorobenzene-d4	4000 ug/mL
							Acenaphthene-d10	4000 ug/mL
							Chrysene-d12	4000 ug/mL
							Naphthalene-d8	4000 ug/mL
							Perylene-d12	4000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene-d10	4000 ug/mL
.SMSUP ST_00003	09/10/13	09/10/12	MECL2, Lot 0000001289	10 mL	SMACIDSUP1_00003	200 uL	2,4-Dinitrophenol	100 ug/mL
					SMACIDSUP2_00003	500 uL	Benzoic acid	100 ug/mL
					SMACIDSUP3_00003	500 uL	Pentachlorophenol	100 ug/mL
..SMACIDSUP1_00003	04/10/17	Absolute Standard, Lot B7040078			(Purchased Reagent)		2,4-Dinitrophenol	5000 ug/mL
..SMACIDSUP2_00003	06/07/21	Absolute Standards, Lot 211061093			(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMACIDSUP3_00003	04/01/21	Absolute Standards, Lot 211041014			(Purchased Reagent)		Pentachlorophenol	2000 ug/mL
.SMTCL DPH ST_00003	04/30/13	09/10/12	MECL2, Lot 0000001289	8 mL	SM8270TCL1_00003	2 mL	1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2,3,5,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Tribromophenol (Surr)	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-Chlorophenol	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							4,6-Dinitro-2-methylphenol	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Nitrophenol	100 ug/mL
							Benzoic acid	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Pentachlorophenol	100 ug/mL
							Phenol	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
					SM8270TCL2_00003	2 mL	2,4-Toluene diamine	100 ug/mL
							2-Nitroaniline	100 ug/mL
							3,3'-Dichlorobenzidine	100 ug/mL
							3,3'-Dimethoxybenzidine	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Nitroaniline	100 ug/mL
							Aniline	100 ug/mL
							Atrazine	100 ug/mL
							Benzidine	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							Pyridine	100 ug/mL
					SM8270TCL3DPH_00002	2 mL	1,1'-Biphenyl	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1-Methylnaphthalene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	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
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Caprolactam	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
							Ethyl methacrylate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							Naphthalene	100 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					SM8270TCL4_00004	2 mL	1,2,3,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dinitrobenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							3-Chloropropionitrile	100 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							Benzaldehyde	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Hexachlorobenzene	100 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Malononitrile	100 ug/mL
							Nitrobenzene	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SM8270TCL1_00003	05/31/16		RESTEK, Lot A081795		(Purchased Reagent)		1,4-Dichlorobenzene	400 ug/mL
							1,4-Dioxane	400 ug/mL
							2,3,5,6-Tetrachlorophenol	400 ug/mL
							2,4,5-Trichlorophenol	400 ug/mL
							2,4,6-Tribromophenol (Surr)	400 ug/mL
							2,4,6-Trichlorophenol	400 ug/mL
							2,4-Dichlorophenol	400 ug/mL
							2,4-Dimethylphenol	400 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2-Chlorophenol	400 ug/mL
							2-Fluorophenol (Surr)	400 ug/mL
							2-Methylphenol	400 ug/mL
							2-Nitrophenol	400 ug/mL
							3 & 4 Methylphenol	400 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Chloro-3-methylphenol	400 ug/mL
							4-Nitrophenol	400 ug/mL
							Benzoic acid	400 ug/mL
							Benzyl alcohol	400 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenol	400 ug/mL
							Phenol-d5 (Surr)	400 ug/mL
..SM8270TCL2_00003	04/30/13		RESTEK, Lot A081245		(Purchased Reagent)		2,4-Toluene diamine	400 ug/mL
							2-Nitroaniline	400 ug/mL
							3,3'-Dichlorobenzidine	400 ug/mL
							3,3'-Dimethoxybenzidine	400 ug/mL
							3-Nitroaniline	400 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	400 ug/mL
							4-Chloroaniline	400 ug/mL
							4-Nitroaniline	400 ug/mL
							Aniline	400 ug/mL
							Atrazine	400 ug/mL
							Benzidine	400 ug/mL
							N-Nitrosodi-n-propylamine	400 ug/mL
							N-Nitrosodimethylamine	400 ug/mL
							N-Nitrosodiphenylamine	400 ug/mL
							Pyridine	400 ug/mL
..SM8270TCL3DPH_00002	12/31/14		Restek, Lot A083779		(Purchased Reagent)		1,1'-Biphenyl	400 ug/mL
							1,2-Diphenylhydrazine	400 ug/mL
							1-Methylnaphthalene	400 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylnaphthalene	400 ug/mL
							Acenaphthene	400 ug/mL
							Acenaphthylene	400 ug/mL
							Acetophenone	400 ug/mL
							Anthracene	400 ug/mL
							Azobenzene	400 ug/mL
							Benzo[a]anthracene	400 ug/mL
							Benzo[a]pyrene	400 ug/mL
							Benzo[b]fluoranthene	400 ug/mL
							Benzo[g,h,i]perylene	400 ug/mL
							Benzo[k]fluoranthene	400 ug/mL
							Bis(2-ethylhexyl) phthalate	400 ug/mL
							Butyl benzyl phthalate	400 ug/mL
							Caprolactam	400 ug/mL
							Carbazole	400 ug/mL
							Chrysene	400 ug/mL
							Di-n-butyl phthalate	400 ug/mL
							Di-n-octyl phthalate	400 ug/mL
							Dibenz(a,h)anthracene	400 ug/mL
							Dibenzofuran	400 ug/mL
							Diethyl phthalate	400 ug/mL
							Dimethyl phthalate	400 ug/mL
							Ethyl methacrylate	400 ug/mL
							Fluoranthene	400 ug/mL
							Fluorene	400 ug/mL
							Indeno[1,2,3-cd]pyrene	400 ug/mL
							Isophorone	400 ug/mL
							Naphthalene	400 ug/mL
							Phenanthrene	400 ug/mL
							Pyrene	400 ug/mL
..SM8270TCL4_00004	05/31/14		Restek, Lot A081933		(Purchased Reagent)		1,2,3,5-Tetrachlorobenzene	400 ug/mL
							1,2,4-Trichlorobenzene	400 ug/mL
							1,2-Dichlorobenzene	400 ug/mL
							1,2-Dinitrobenzene	400 ug/mL
							1,3,5-Trichlorobenzene	400 ug/mL
							1,3-Dichlorobenzene	400 ug/mL
							2,4-Dinitrotoluene	400 ug/mL
							2,6-Dinitrotoluene	400 ug/mL
							2-Chloronaphthalene	400 ug/mL
							2-Fluorobiphenyl (Surr)	400 ug/mL
							3-Chloropropionitrile	400 ug/mL
							4-Bromophenyl phenyl ether	400 ug/mL
							4-Chlorophenyl phenyl ether	400 ug/mL
							Benzaldehyde	400 ug/mL
							bis (2-chloroisopropyl) ether	400 ug/mL
							Bis(2-chloroethoxy)methane	400 ug/mL
							Bis(2-chloroethyl)ether	400 ug/mL
							Hexachlorobenzene	400 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	400 ug/mL
							Hexachlorocyclopentadiene	400 ug/mL
							Hexachloroethane	400 ug/mL
							Malononitrile	400 ug/mL
							Nitrobenzene	400 ug/mL
							Nitrobenzene-d5 (Surr)	400 ug/mL
							Terphenyl-d14 (Surr)	400 ug/mL
SMTCL L4 W_00007	04/30/13	09/10/12	MECL2, Lot 0000001289	2 mL	SMIS80PPMW_00006	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
					SMSUP ST_00003	40 uL	2,4-Dinitrophenol	4 ug/mL
							Benzoic acid	4 ug/mL
							Pentachlorophenol	4 ug/mL
					SMTCL DPH ST_00003	40 uL	1,4-Dichlorobenzene	2 ug/mL
							1,4-Dioxane	2 ug/mL
							2,3,5,6-Tetrachlorophenol	2 ug/mL
							2,4,5-Trichlorophenol	2 ug/mL
							2,4,6-Tribromophenol (Surr)	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-Chlorophenol	2 ug/mL
							2-Fluorophenol (Surr)	2 ug/mL
							2-Methylphenol	2 ug/mL
							2-Nitrophenol	2 ug/mL
							3 & 4 Methylphenol	2 ug/mL
							4,6-Dinitro-2-methylphenol	2 ug/mL
							4-Chloro-3-methylphenol	2 ug/mL
							4-Nitrophenol	2 ug/mL
							Benzoic acid	4 ug/mL
							Benzyl alcohol	2 ug/mL
							Pentachlorophenol	4 ug/mL
							Phenol	2 ug/mL
							Phenol-d5 (Surr)	2 ug/mL
							2,4-Toluene diamine	2 ug/mL
							2-Nitroaniline	2 ug/mL
							3,3'-Dichlorobenzidine	2 ug/mL
							3,3'-Dimethoxybenzidine	2 ug/mL
							3-Nitroaniline	2 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	2 ug/mL
							4-Chloroaniline	2 ug/mL
							4-Nitroaniline	2 ug/mL
							Aniline	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Atrazine	2 ug/mL
							Benzidine	2 ug/mL
							N-Nitrosodi-n-propylamine	2 ug/mL
							N-Nitrosodimethylamine	2 ug/mL
							N-Nitrosodiphenylamine	2 ug/mL
							Pyridine	2 ug/mL
							1,1'-Biphenyl	2 ug/mL
							1,2-Diphenylhydrazine	2 ug/mL
							1-Methylnaphthalene	2 ug/mL
							2-Methylnaphthalene	2 ug/mL
							Acenaphthene	2 ug/mL
							Acenaphthylene	2 ug/mL
							Acetophenone	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
							Bis(2-ethylhexyl) phthalate	2 ug/mL
							Butyl benzyl phthalate	2 ug/mL
							Caprolactam	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
							Ethyl methacrylate	2 ug/mL
							Fluoranthene	2 ug/mL
							Fluorene	2 ug/mL
							Indeno[1,2,3-cd]pyrene	2 ug/mL
							Isophorone	2 ug/mL
							Naphthalene	2 ug/mL
							Phenanthrene	2 ug/mL
							Pyrene	2 ug/mL
							1,2,3,5-Tetrachlorobenzene	2 ug/mL
							1,2,4-Trichlorobenzene	2 ug/mL
							1,2-Dichlorobenzene	2 ug/mL
							1,2-Dinitrobenzene	2 ug/mL
							1,3,5-Trichlorobenzene	2 ug/mL
							1,3-Dichlorobenzene	2 ug/mL
							2,4-Dinitrotoluene	2 ug/mL
							2,6-Dinitrotoluene	2 ug/mL
							2-Chloronaphthalene	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorobiphenyl (Surr)	2 ug/mL
							3-Chloropropionitrile	2 ug/mL
							4-Bromophenyl phenyl ether	2 ug/mL
							4-Chlorophenyl phenyl ether	2 ug/mL
							Benzaldehyde	2 ug/mL
							bis (2-chloroisopropyl) ether	2 ug/mL
							Bis(2-chloroethoxy)methane	2 ug/mL
							Bis(2-chloroethyl)ether	2 ug/mL
							Hexachlorobenzene	2 ug/mL
							Hexachlorobutadiene	2 ug/mL
							Hexachlorocyclopentadiene	2 ug/mL
							Hexachloroethane	2 ug/mL
							Malononitrile	2 ug/mL
							Nitrobenzene	2 ug/mL
							Nitrobenzene-d5 (Surr)	2 ug/mL
							Terphenyl-d14 (Surr)	2 ug/mL
.SMIS80PPMW_00006	09/11/13	09/10/12	MECL2, Lot 0000001289	50 mL	SMIS_00004	1 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_00004	06/30/14	UltraScientific, Lot CH-1761			(Purchased Reagent)		1,4-Dichlorobenzene-d4	4000 ug/mL
							Acenaphthene-d10	4000 ug/mL
							Chrysene-d12	4000 ug/mL
							Naphthalene-d8	4000 ug/mL
							Perylene-d12	4000 ug/mL
							Phenanthrene-d10	4000 ug/mL
.SMSUP ST_00003	09/10/13	09/10/12	MECL2, Lot 0000001289	10 mL	SMACIDSUP1_00003	200 uL	2,4-Dinitrophenol	100 ug/mL
					SMACIDSUP2_00003	500 uL	Benzoic acid	100 ug/mL
					SMACIDSUP3_00003	500 uL	Pentachlorophenol	100 ug/mL
..SMACIDSUP1_00003	04/10/17	Absolute Standard, Lot B7040078			(Purchased Reagent)		2,4-Dinitrophenol	5000 ug/mL
..SMACIDSUP2_00003	06/07/21	Absolute Standards, Lot 211061093			(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMACIDSUP3_00003	04/01/21	Absolute Standards, Lot 211041014			(Purchased Reagent)		Pentachlorophenol	2000 ug/mL
.SMTCL DPH ST_00003	04/30/13	09/10/12	MECL2, Lot 0000001289	8 mL	SM8270TCL1_00003	2 mL	1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2,3,5,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Tribromophenol (Surr)	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-Chlorophenol	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,6-Dinitro-2-methylphenol	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Nitrophenol	100 ug/mL
							Benzoic acid	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Pentachlorophenol	100 ug/mL
							Phenol	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
					SM8270TCL2_00003	2 mL	2,4-Toluene diamine	100 ug/mL
							2-Nitroaniline	100 ug/mL
							3,3'-Dichlorobenzidine	100 ug/mL
							3,3'-Dimethoxybenzidine	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Nitroaniline	100 ug/mL
							Aniline	100 ug/mL
							Atrazine	100 ug/mL
							Benzidine	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							Pyridine	100 ug/mL
					SM8270TCL3DPH_00002	2 mL	1,1'-Biphenyl	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	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
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Caprolactam	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

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dimethyl phthalate	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							Naphthalene	100 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					SM8270TCL4_00004	2 mL	1,2,3,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dinitrobenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							3-Chloropropionitrile	100 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							Benzaldehyde	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Malononitrile	100 ug/mL
							Nitrobenzene	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SM8270TCL1_00003	05/31/16		RESTEK, Lot A081795		(Purchased Reagent)		1,4-Dichlorobenzene	400 ug/mL
							1,4-Dioxane	400 ug/mL
							2,3,5,6-Tetrachlorophenol	400 ug/mL
							2,4,5-Trichlorophenol	400 ug/mL
							2,4,6-Tribromophenol (Surr)	400 ug/mL
							2,4,6-Trichlorophenol	400 ug/mL
							2,4-Dichlorophenol	400 ug/mL
							2,4-Dimethylphenol	400 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2-Chlorophenol	400 ug/mL
							2-Fluorophenol (Surr)	400 ug/mL
							2-Methylphenol	400 ug/mL
							2-Nitrophenol	400 ug/mL
							3 & 4 Methylphenol	400 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Chloro-3-methylphenol	400 ug/mL
							4-Nitrophenol	400 ug/mL
							Benzoic acid	400 ug/mL
							Benzyl alcohol	400 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenol	400 ug/mL
							Phenol-d5 (Surr)	400 ug/mL
..SM8270TCL2_00003	04/30/13		RESTEK, Lot A081245		(Purchased Reagent)		2,4-Toluene diamine	400 ug/mL
							2-Nitroaniline	400 ug/mL
							3,3'-Dichlorobenzidine	400 ug/mL
							3,3'-Dimethoxybenzidine	400 ug/mL
							3-Nitroaniline	400 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	400 ug/mL
							4-Chloroaniline	400 ug/mL
							4-Nitroaniline	400 ug/mL
							Aniline	400 ug/mL
							Atrazine	400 ug/mL
							Benzidine	400 ug/mL
							N-Nitrosodi-n-propylamine	400 ug/mL
							N-Nitrosodimethylamine	400 ug/mL
							N-Nitrosodiphenylamine	400 ug/mL
							Pyridine	400 ug/mL
..SM8270TCL3DPH_00002	12/31/14		Restek, Lot A083779		(Purchased Reagent)		1,1'-Biphenyl	400 ug/mL
							1,2-Diphenylhydrazine	400 ug/mL
							1-Methylnaphthalene	400 ug/mL
							2-Methylnaphthalene	400 ug/mL
							Acenaphthene	400 ug/mL
							Acenaphthylene	400 ug/mL
							Acetophenone	400 ug/mL
							Anthracene	400 ug/mL
							Azobenzene	400 ug/mL
							Benzo[a]anthracene	400 ug/mL
							Benzo[a]pyrene	400 ug/mL
							Benzo[b]fluoranthene	400 ug/mL
							Benzo[g,h,i]perylene	400 ug/mL
							Benzo[k]fluoranthene	400 ug/mL
							Bis(2-ethylhexyl) phthalate	400 ug/mL
							Butyl benzyl phthalate	400 ug/mL
							Caprolactam	400 ug/mL
							Carbazole	400 ug/mL
							Chrysene	400 ug/mL
							Di-n-butyl phthalate	400 ug/mL
							Di-n-octyl phthalate	400 ug/mL
							Dibenz(a,h)anthracene	400 ug/mL
							Dibenzofuran	400 ug/mL
							Diethyl phthalate	400 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dimethyl phthalate	400 ug/mL
							Ethyl methacrylate	400 ug/mL
							Fluoranthene	400 ug/mL
							Fluorene	400 ug/mL
							Indeno[1,2,3-cd]pyrene	400 ug/mL
							Isophorone	400 ug/mL
							Naphthalene	400 ug/mL
							Phenanthrene	400 ug/mL
							Pyrene	400 ug/mL
..SM8270TCL4_00004	05/31/14		Restek, Lot A081933		(Purchased Reagent)		1,2,3,5-Tetrachlorobenzene	400 ug/mL
							1,2,4-Trichlorobenzene	400 ug/mL
							1,2-Dichlorobenzene	400 ug/mL
							1,2-Dinitrobenzene	400 ug/mL
							1,3,5-Trichlorobenzene	400 ug/mL
							1,3-Dichlorobenzene	400 ug/mL
							2,4-Dinitrotoluene	400 ug/mL
							2,6-Dinitrotoluene	400 ug/mL
							2-Chloronaphthalene	400 ug/mL
							2-Fluorobiphenyl (Surr)	400 ug/mL
							3-Chloropropionitrile	400 ug/mL
							4-Bromophenyl phenyl ether	400 ug/mL
							4-Chlorophenyl phenyl ether	400 ug/mL
							Benzaldehyde	400 ug/mL
							bis (2-chloroisopropyl) ether	400 ug/mL
							Bis(2-chloroethoxy)methane	400 ug/mL
							Bis(2-chloroethyl)ether	400 ug/mL
							Hexachlorobenzene	400 ug/mL
							Hexachlorobutadiene	400 ug/mL
							Hexachlorocyclopentadiene	400 ug/mL
							Hexachloroethane	400 ug/mL
							Malononitrile	400 ug/mL
							Nitrobenzene	400 ug/mL
							Nitrobenzene-d5 (Surr)	400 ug/mL
							Terphenyl-d14 (Surr)	400 ug/mL
SMTCL L5 W_00007	04/30/13	09/10/12	MECL2, Lot 0000001289	2 mL	SMIS80PPMW_00006	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
					SMSUP ST_00003	100 uL	2,4-Dinitrophenol	10 ug/mL
							Benzoic acid	10 ug/mL
							Pentachlorophenol	10 ug/mL
					SMTCL DPH ST_00003	100 uL	1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	5 ug/mL
							2,3,5,6-Tetrachlorophenol	5 ug/mL
							2,4,5-Trichlorophenol	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Tribromophenol (Surr)	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-Chlorophenol	5 ug/mL
							2-Fluorophenol (Surr)	5 ug/mL
							2-Methylphenol	5 ug/mL
							2-Nitrophenol	5 ug/mL
							3 & 4 Methylphenol	5 ug/mL
							4,6-Dinitro-2-methylphenol	5 ug/mL
							4-Chloro-3-methylphenol	5 ug/mL
							4-Nitrophenol	5 ug/mL
							Benzoic acid	10 ug/mL
							Benzyl alcohol	5 ug/mL
							Pentachlorophenol	10 ug/mL
							Phenol	5 ug/mL
							Phenol-d5 (Surr)	5 ug/mL
							2,4-Toluene diamine	5 ug/mL
							2-Nitroaniline	5 ug/mL
							3,3'-Dichlorobenzidine	5 ug/mL
							3,3'-Dimethoxybenzidine	5 ug/mL
							3-Nitroaniline	5 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	5 ug/mL
							4-Chloroaniline	5 ug/mL
							4-Nitroaniline	5 ug/mL
							Aniline	5 ug/mL
							Atrazine	5 ug/mL
							Benzidine	5 ug/mL
							N-Nitrosodi-n-propylamine	5 ug/mL
							N-Nitrosodimethylamine	5 ug/mL
							N-Nitrosodiphenylamine	5 ug/mL
							Pyridine	5 ug/mL
							1,1'-Biphenyl	5 ug/mL
							1,2-Diphenylhydrazine	5 ug/mL
							1-Methylnaphthalene	5 ug/mL
							2-Methylnaphthalene	5 ug/mL
							Acenaphthene	5 ug/mL
							Acenaphthylene	5 ug/mL
							Acetophenone	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

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
							Caprolactam	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
							Ethyl methacrylate	5 ug/mL
							Fluoranthene	5 ug/mL
							Fluorene	5 ug/mL
							Indeno[1,2,3-cd]pyrene	5 ug/mL
							Isophorone	5 ug/mL
							Naphthalene	5 ug/mL
							Phenanthrene	5 ug/mL
							Pyrene	5 ug/mL
							1,2,3,5-Tetrachlorobenzene	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Dinitrobenzene	5 ug/mL
							1,3,5-Trichlorobenzene	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							2,4-Dinitrotoluene	5 ug/mL
							2,6-Dinitrotoluene	5 ug/mL
							2-Chloronaphthalene	5 ug/mL
							2-Fluorobiphenyl (Surr)	5 ug/mL
							3-Chloropropionitrile	5 ug/mL
							4-Bromophenyl phenyl ether	5 ug/mL
							4-Chlorophenyl phenyl ether	5 ug/mL
							Benzaldehyde	5 ug/mL
							bis (2-chloroisopropyl) ether	5 ug/mL
							Bis(2-chloroethoxy)methane	5 ug/mL
							Bis(2-chloroethyl)ether	5 ug/mL
							Hexachlorobenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexachlorocyclopentadiene	5 ug/mL
							Hexachloroethane	5 ug/mL
							Malononitrile	5 ug/mL
							Nitrobenzene	5 ug/mL
							Nitrobenzene-d5 (Surr)	5 ug/mL
							Terphenyl-d14 (Surr)	5 ug/mL
.SMIS80PPMW_00006	09/11/13	09/10/12	MECL2, Lot 0000001289	50 mL	SMIS_00004	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS_00004	06/30/14	UltraScientific, Lot CH-1761			(Purchased Reagent)		1,4-Dichlorobenzene-d4	4000 ug/mL
							Acenaphthene-d10	4000 ug/mL
							Chrysene-d12	4000 ug/mL
							Naphthalene-d8	4000 ug/mL
							Perylene-d12	4000 ug/mL
							Phenanthrene-d10	4000 ug/mL
.SMSUP ST_00003	09/10/13	09/10/12	MECL2, Lot 0000001289	10 mL	SMACIDSUP1_00003	200 uL	2,4-Dinitrophenol	100 ug/mL
					SMACIDSUP2_00003	500 uL	Benzoic acid	100 ug/mL
					SMACIDSUP3_00003	500 uL	Pentachlorophenol	100 ug/mL
..SMACIDSUP1_00003	04/10/17	Absolute Standard, Lot B7040078			(Purchased Reagent)		2,4-Dinitrophenol	5000 ug/mL
..SMACIDSUP2_00003	06/07/21	Absolute Standards, Lot 211061093			(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMACIDSUP3_00003	04/01/21	Absolute Standards, Lot 211041014			(Purchased Reagent)		Pentachlorophenol	2000 ug/mL
.SMTCL DPH ST_00003	04/30/13	09/10/12	MECL2, Lot 0000001289	8 mL	SM8270TCL1_00003	2 mL	1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2,3,5,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Tribromophenol (Surr)	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-Chlorophenol	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							4,6-Dinitro-2-methylphenol	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Nitrophenol	100 ug/mL
							Benzoic acid	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Pentachlorophenol	100 ug/mL
							Phenol	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
					SM8270TCL2_00003	2 mL	2,4-Toluene diamine	100 ug/mL
							2-Nitroaniline	100 ug/mL
							3,3'-Dichlorobenzidine	100 ug/mL
							3,3'-Dimethoxybenzidine	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Nitroaniline	100 ug/mL
							Aniline	100 ug/mL
							Atrazine	100 ug/mL
							Benzidine	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							Pyridine	100 ug/mL
					SM8270TCL3DPH_00002	2 mL	1,1'-Biphenyl	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	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
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Caprolactam	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
							Ethyl methacrylate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							Naphthalene	100 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					SM8270TCL4_00004	2 mL	1,2,3,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dinitrobenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							3-Chloropropionitrile	100 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							Benzaldehyde	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Malononitrile	100 ug/mL
							Nitrobenzene	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SM8270TCL1_00003	05/31/16		RESTEK, Lot A081795		(Purchased Reagent)		1,4-Dichlorobenzene	400 ug/mL
							1,4-Dioxane	400 ug/mL
							2,3,5,6-Tetrachlorophenol	400 ug/mL
							2,4,5-Trichlorophenol	400 ug/mL
							2,4,6-Tribromophenol (Surr)	400 ug/mL
							2,4,6-Trichlorophenol	400 ug/mL
							2,4-Dichlorophenol	400 ug/mL
							2,4-Dimethylphenol	400 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2-Chlorophenol	400 ug/mL
							2-Fluorophenol (Surr)	400 ug/mL
							2-Methylphenol	400 ug/mL
							2-Nitrophenol	400 ug/mL
							3 & 4 Methylphenol	400 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Chloro-3-methylphenol	400 ug/mL
							4-Nitrophenol	400 ug/mL
							Benzoic acid	400 ug/mL
							Benzyl alcohol	400 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenol	400 ug/mL
							Phenol-d5 (Surr)	400 ug/mL
..SM8270TCL2_00003	04/30/13		RESTEK, Lot A081245		(Purchased Reagent)		2,4-Toluene diamine	400 ug/mL
							2-Nitroaniline	400 ug/mL
							3,3'-Dichlorobenzidine	400 ug/mL
							3,3'-Dimethoxybenzidine	400 ug/mL
							3-Nitroaniline	400 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	400 ug/mL
							4-Chloroaniline	400 ug/mL
							4-Nitroaniline	400 ug/mL
							Aniline	400 ug/mL
							Atrazine	400 ug/mL
							Benzidine	400 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodi-n-propylamine	400 ug/mL
							N-Nitrosodimethylamine	400 ug/mL
							N-Nitrosodiphenylamine	400 ug/mL
							Pyridine	400 ug/mL
..SM8270TCL3DPH_00002	12/31/14		Restek, Lot A083779		(Purchased Reagent)		1,1'-Biphenyl	400 ug/mL
							1,2-Diphenylhydrazine	400 ug/mL
							1-Methylnaphthalene	400 ug/mL
							2-Methylnaphthalene	400 ug/mL
							Acenaphthene	400 ug/mL
							Acenaphthylene	400 ug/mL
							Acetophenone	400 ug/mL
							Anthracene	400 ug/mL
							Azobenzene	400 ug/mL
							Benzo[a]anthracene	400 ug/mL
							Benzo[a]pyrene	400 ug/mL
							Benzo[b]fluoranthene	400 ug/mL
							Benzo[g,h,i]perylene	400 ug/mL
							Benzo[k]fluoranthene	400 ug/mL
							Bis(2-ethylhexyl) phthalate	400 ug/mL
							Butyl benzyl phthalate	400 ug/mL
							Caprolactam	400 ug/mL
							Carbazole	400 ug/mL
							Chrysene	400 ug/mL
							Di-n-butyl phthalate	400 ug/mL
							Di-n-octyl phthalate	400 ug/mL
							Dibenz(a,h)anthracene	400 ug/mL
							Dibenzofuran	400 ug/mL
							Diethyl phthalate	400 ug/mL
							Dimethyl phthalate	400 ug/mL
							Ethyl methacrylate	400 ug/mL
							Fluoranthene	400 ug/mL
							Fluorene	400 ug/mL
							Indeno[1,2,3-cd]pyrene	400 ug/mL
							Isophorone	400 ug/mL
							Naphthalene	400 ug/mL
							Phenanthrene	400 ug/mL
							Pyrene	400 ug/mL
..SM8270TCL4_00004	05/31/14		Restek, Lot A081933		(Purchased Reagent)		1,2,3,5-Tetrachlorobenzene	400 ug/mL
							1,2,4-Trichlorobenzene	400 ug/mL
							1,2-Dichlorobenzene	400 ug/mL
							1,2-Dinitrobenzene	400 ug/mL
							1,3,5-Trichlorobenzene	400 ug/mL
							1,3-Dichlorobenzene	400 ug/mL
							2,4-Dinitrotoluene	400 ug/mL
							2,6-Dinitrotoluene	400 ug/mL
							2-Chloronaphthalene	400 ug/mL
							2-Fluorobiphenyl (Surr)	400 ug/mL
							3-Chloropropionitrile	400 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromophenyl phenyl ether	400 ug/mL
							4-Chlorophenyl phenyl ether	400 ug/mL
							Benzaldehyde	400 ug/mL
							bis (2-chloroisopropyl) ether	400 ug/mL
							Bis(2-chloroethoxy)methane	400 ug/mL
							Bis(2-chloroethyl)ether	400 ug/mL
							Hexachlorobenzene	400 ug/mL
							Hexachlorobutadiene	400 ug/mL
							Hexachlorocyclopentadiene	400 ug/mL
							Hexachloroethane	400 ug/mL
							Malononitrile	400 ug/mL
							Nitrobenzene	400 ug/mL
							Nitrobenzene-d5 (Surr)	400 ug/mL
							Terphenyl-d14 (Surr)	400 ug/mL
SMTCL L6 W_00007	04/30/13	09/10/12	MECL2, Lot 0000001289	2 mL	SMIS80PPMW_00006	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
					SMSUP ST_00003	200 uL	2,4-Dinitrophenol	20 ug/mL
							Benzoic acid	20 ug/mL
							Pentachlorophenol	20 ug/mL
					SMTCL DPH ST_00003	200 uL	1,4-Dichlorobenzene	10 ug/mL
							1,4-Dioxane	10 ug/mL
							2,3,5,6-Tetrachlorophenol	10 ug/mL
							2,4,5-Trichlorophenol	10 ug/mL
							2,4,6-Tribromophenol (Surr)	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-Chlorophenol	10 ug/mL
							2-Fluorophenol (Surr)	10 ug/mL
							2-Methylphenol	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3 & 4 Methylphenol	10 ug/mL
							4,6-Dinitro-2-methylphenol	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Benzoic acid	20 ug/mL
							Benzyl alcohol	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenol	10 ug/mL
							Phenol-d5 (Surr)	10 ug/mL
							2,4-Toluene diamine	10 ug/mL
							2-Nitroaniline	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3,3'-Dichlorobenzidine	10 ug/mL
							3,3'-Dimethoxybenzidine	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Nitroaniline	10 ug/mL
							Aniline	10 ug/mL
							Atrazine	10 ug/mL
							Benzidine	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodimethylamine	10 ug/mL
							N-Nitrosodiphenylamine	10 ug/mL
							Pyridine	10 ug/mL
							1,1'-Biphenyl	10 ug/mL
							1,2-Diphenylhydrazine	10 ug/mL
							1-Methylnaphthalene	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Acetophenone	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
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Caprolactam	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
							Ethyl methacrylate	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							Naphthalene	10 ug/mL
							Phenanthrene	10 ug/mL
							Pyrene	10 ug/mL
							1,2,3,5-Tetrachlorobenzene	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

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-Dinitrobenzene	10 ug/mL
							1,3,5-Trichlorobenzene	10 ug/mL
							1,3-Dichlorobenzene	10 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Fluorobiphenyl (Surr)	10 ug/mL
							3-Chloropropionitrile	10 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							Benzaldehyde	10 ug/mL
							bis (2-chloroisopropyl) ether	10 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Malononitrile	10 ug/mL
							Nitrobenzene	10 ug/mL
							Nitrobenzene-d5 (Surr)	10 ug/mL
							Terphenyl-d14 (Surr)	10 ug/mL
.SMIS80PPMW_00006	09/11/13	09/10/12	MECL2, Lot 0000001289	50 mL	SMIS_00004	1 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_00004	06/30/14	UltraScientific, Lot CH-1761			(Purchased Reagent)		1,4-Dichlorobenzene-d4	4000 ug/mL
							Acenaphthene-d10	4000 ug/mL
							Chrysene-d12	4000 ug/mL
							Naphthalene-d8	4000 ug/mL
							Perylene-d12	4000 ug/mL
							Phenanthrene-d10	4000 ug/mL
.SMSUP ST_00003	09/10/13	09/10/12	MECL2, Lot 0000001289	10 mL	SMACIDSUP1_00003	200 uL	2,4-Dinitrophenol	100 ug/mL
					SMACIDSUP2_00003	500 uL	Benzoic acid	100 ug/mL
					SMACIDSUP3_00003	500 uL	Pentachlorophenol	100 ug/mL
..SMACIDSUP1_00003	04/10/17	Absolute Standard, Lot B7040078			(Purchased Reagent)		2,4-Dinitrophenol	5000 ug/mL
..SMACIDSUP2_00003	06/07/21	Absolute Standards, Lot 211061093			(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMACIDSUP3_00003	04/01/21	Absolute Standards, Lot 211041014			(Purchased Reagent)		Pentachlorophenol	2000 ug/mL
.SMTCL DPH ST_00003	04/30/13	09/10/12	MECL2, Lot 0000001289	8 mL	SM8270TCL1_00003	2 mL	1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2,3,5,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Tribromophenol (Surr)	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							4,6-Dinitro-2-methylphenol	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Nitrophenol	100 ug/mL
							Benzoic acid	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Pentachlorophenol	100 ug/mL
							Phenol	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
					SM8270TCL2_00003	2 mL	2,4-Toluene diamine	100 ug/mL
							2-Nitroaniline	100 ug/mL
							3,3'-Dichlorobenzidine	100 ug/mL
							3,3'-Dimethoxybenzidine	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Nitroaniline	100 ug/mL
							Aniline	100 ug/mL
							Atrazine	100 ug/mL
							Benzidine	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							Pyridine	100 ug/mL
					SM8270TCL3DPH_00002	2 mL	1,1'-Biphenyl	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	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
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Caprolactam	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
							Ethyl methacrylate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							Naphthalene	100 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					SM8270TCL4_00004	2 mL	1,2,3,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dinitrobenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							3-Chloropropionitrile	100 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							Benzaldehyde	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Malononitrile	100 ug/mL
							Nitrobenzene	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SM8270TCL1_00003	05/31/16		RESTEK, Lot A081795		(Purchased Reagent)		1,4-Dichlorobenzene	400 ug/mL
							1,4-Dioxane	400 ug/mL
							2,3,5,6-Tetrachlorophenol	400 ug/mL
							2,4,5-Trichlorophenol	400 ug/mL
							2,4,6-Tribromophenol (Surr)	400 ug/mL
							2,4,6-Trichlorophenol	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dichlorophenol	400 ug/mL
							2,4-Dimethylphenol	400 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2-Chlorophenol	400 ug/mL
							2-Fluorophenol (Surr)	400 ug/mL
							2-Methylphenol	400 ug/mL
							2-Nitrophenol	400 ug/mL
							3 & 4 Methylphenol	400 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Chloro-3-methylphenol	400 ug/mL
							4-Nitrophenol	400 ug/mL
							Benzoic acid	400 ug/mL
							Benzyl alcohol	400 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenol	400 ug/mL
							Phenol-d5 (Surr)	400 ug/mL
..SM8270TCL2_00003	04/30/13		RESTEK, Lot A081245		(Purchased Reagent)		2,4-Toluene diamine	400 ug/mL
							2-Nitroaniline	400 ug/mL
							3,3'-Dichlorobenzidine	400 ug/mL
							3,3'-Dimethoxybenzidine	400 ug/mL
							3-Nitroaniline	400 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	400 ug/mL
							4-Chloroaniline	400 ug/mL
							4-Nitroaniline	400 ug/mL
							Aniline	400 ug/mL
							Atrazine	400 ug/mL
							Benzidine	400 ug/mL
							N-Nitrosodi-n-propylamine	400 ug/mL
							N-Nitrosodimethylamine	400 ug/mL
							N-Nitrosodiphenylamine	400 ug/mL
							Pyridine	400 ug/mL
..SM8270TCL3DPH_00002	12/31/14		Restek, Lot A083779		(Purchased Reagent)		1,1'-Biphenyl	400 ug/mL
							1,2-Diphenylhydrazine	400 ug/mL
							1-Methylnaphthalene	400 ug/mL
							2-Methylnaphthalene	400 ug/mL
							Acenaphthene	400 ug/mL
							Acenaphthylene	400 ug/mL
							Acetophenone	400 ug/mL
							Anthracene	400 ug/mL
							Azobenzene	400 ug/mL
							Benzo[a]anthracene	400 ug/mL
							Benzo[a]pyrene	400 ug/mL
							Benzo[b]fluoranthene	400 ug/mL
							Benzo[g,h,i]perylene	400 ug/mL
							Benzo[k]fluoranthene	400 ug/mL
							Bis(2-ethylhexyl) phthalate	400 ug/mL
							Butyl benzyl phthalate	400 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Caprolactam	400 ug/mL
							Carbazole	400 ug/mL
							Chrysene	400 ug/mL
							Di-n-butyl phthalate	400 ug/mL
							Di-n-octyl phthalate	400 ug/mL
							Dibenz(a,h)anthracene	400 ug/mL
							Dibenzofuran	400 ug/mL
							Diethyl phthalate	400 ug/mL
							Dimethyl phthalate	400 ug/mL
							Ethyl methacrylate	400 ug/mL
							Fluoranthene	400 ug/mL
							Fluorene	400 ug/mL
							Indeno[1,2,3-cd]pyrene	400 ug/mL
							Isophorone	400 ug/mL
							Naphthalene	400 ug/mL
							Phenanthrene	400 ug/mL
							Pyrene	400 ug/mL
..SM8270TCL4_00004	05/31/14		Restek, Lot A081933		(Purchased Reagent)		1,2,3,5-Tetrachlorobenzene	400 ug/mL
							1,2,4-Trichlorobenzene	400 ug/mL
							1,2-Dichlorobenzene	400 ug/mL
							1,2-Dinitrobenzene	400 ug/mL
							1,3,5-Trichlorobenzene	400 ug/mL
							1,3-Dichlorobenzene	400 ug/mL
							2,4-Dinitrotoluene	400 ug/mL
							2,6-Dinitrotoluene	400 ug/mL
							2-Chloronaphthalene	400 ug/mL
							2-Fluorobiphenyl (Surr)	400 ug/mL
							3-Chloropropionitrile	400 ug/mL
							4-Bromophenyl phenyl ether	400 ug/mL
							4-Chlorophenyl phenyl ether	400 ug/mL
							Benzaldehyde	400 ug/mL
							bis (2-chloroisopropyl) ether	400 ug/mL
							Bis(2-chloroethoxy)methane	400 ug/mL
							Bis(2-chloroethyl)ether	400 ug/mL
							Hexachlorobenzene	400 ug/mL
							Hexachlorobutadiene	400 ug/mL
							Hexachlorocyclopentadiene	400 ug/mL
							Hexachloroethane	400 ug/mL
							Malononitrile	400 ug/mL
							Nitrobenzene	400 ug/mL
							Nitrobenzene-d5 (Surr)	400 ug/mL
							Terphenyl-d14 (Surr)	400 ug/mL
SMTCL L7 W_00007	04/30/13	09/10/12	MECL2, Lot 0000001289	2 mL	SMIS80PPMW_00006	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene-d10	4 ug/mL
					SMSUP ST_00003	300 uL	2,4-Dinitrophenol	30 ug/mL
							Benzoic acid	30 ug/mL
							Pentachlorophenol	30 ug/mL
					SMTCL DPH ST_00003	300 uL	1,4-Dichlorobenzene	15 ug/mL
							1,4-Dioxane	15 ug/mL
							2,3,5,6-Tetrachlorophenol	15 ug/mL
							2,4,5-Trichlorophenol	15 ug/mL
							2,4,6-Tribromophenol (Surr)	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-Chlorophenol	15 ug/mL
							2-Fluorophenol (Surr)	15 ug/mL
							2-Methylphenol	15 ug/mL
							2-Nitrophenol	15 ug/mL
							3 & 4 Methylphenol	15 ug/mL
							4,6-Dinitro-2-methylphenol	15 ug/mL
							4-Chloro-3-methylphenol	15 ug/mL
							4-Nitrophenol	15 ug/mL
							Benzoic acid	30 ug/mL
							Benzyl alcohol	15 ug/mL
							Pentachlorophenol	30 ug/mL
							Phenol	15 ug/mL
							Phenol-d5 (Surr)	15 ug/mL
							2,4-Toluene diamine	15 ug/mL
							2-Nitroaniline	15 ug/mL
							3,3'-Dichlorobenzidine	15 ug/mL
							3,3'-Dimethoxybenzidine	15 ug/mL
							3-Nitroaniline	15 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	15 ug/mL
							4-Chloroaniline	15 ug/mL
							4-Nitroaniline	15 ug/mL
							Aniline	15 ug/mL
							Atrazine	15 ug/mL
							Benzidine	15 ug/mL
							N-Nitrosodi-n-propylamine	15 ug/mL
							N-Nitrosodimethylamine	15 ug/mL
							N-Nitrosodiphenylamine	15 ug/mL
							Pyridine	15 ug/mL
							1,1'-Biphenyl	15 ug/mL
							1,2-Diphenylhydrazine	15 ug/mL
							1-Methylnaphthalene	15 ug/mL
							2-Methylnaphthalene	15 ug/mL
							Acenaphthene	15 ug/mL
							Acenaphthylene	15 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetophenone	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
							Bis(2-ethylhexyl) phthalate	15 ug/mL
							Butyl benzyl phthalate	15 ug/mL
							Caprolactam	15 ug/mL
							Carbazole	15 ug/mL
							Chrysene	15 ug/mL
							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
							Ethyl methacrylate	15 ug/mL
							Fluoranthene	15 ug/mL
							Fluorene	15 ug/mL
							Indeno[1,2,3-cd]pyrene	15 ug/mL
							Isophorone	15 ug/mL
							Naphthalene	15 ug/mL
							Phenanthrene	15 ug/mL
							Pyrene	15 ug/mL
							1,2,3,5-Tetrachlorobenzene	15 ug/mL
							1,2,4-Trichlorobenzene	15 ug/mL
							1,2-Dichlorobenzene	15 ug/mL
							1,2-Dinitrobenzene	15 ug/mL
							1,3,5-Trichlorobenzene	15 ug/mL
							1,3-Dichlorobenzene	15 ug/mL
							2,4-Dinitrotoluene	15 ug/mL
							2,6-Dinitrotoluene	15 ug/mL
							2-Chloronaphthalene	15 ug/mL
							2-Fluorobiphenyl (Surr)	15 ug/mL
							3-Chloropropionitrile	15 ug/mL
							4-Bromophenyl phenyl ether	15 ug/mL
							4-Chlorophenyl phenyl ether	15 ug/mL
							Benzaldehyde	15 ug/mL
							bis (2-chloroisopropyl) ether	15 ug/mL
							Bis(2-chloroethoxy)methane	15 ug/mL
							Bis(2-chloroethyl)ether	15 ug/mL
							Hexachlorobenzene	15 ug/mL
							Hexachlorobutadiene	15 ug/mL
							Hexachlorocyclopentadiene	15 ug/mL
							Hexachloroethane	15 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Malononitrile	15 ug/mL
							Nitrobenzene	15 ug/mL
							Nitrobenzene-d5 (Surr)	15 ug/mL
							Terphenyl-d14 (Surr)	15 ug/mL
.SMIS80PPMW_00006	09/11/13	09/10/12	MECL2, Lot 0000001289	50 mL	SMIS_00004	1 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_00004	06/30/14	UltraScientific, Lot CH-1761			(Purchased Reagent)		1,4-Dichlorobenzene-d4	4000 ug/mL
							Acenaphthene-d10	4000 ug/mL
							Chrysene-d12	4000 ug/mL
							Naphthalene-d8	4000 ug/mL
							Perylene-d12	4000 ug/mL
							Phenanthrene-d10	4000 ug/mL
.SMSUP ST_00003	09/10/13	09/10/12	MECL2, Lot 0000001289	10 mL	SMACIDSUP1_00003	200 uL	2,4-Dinitrophenol	100 ug/mL
					SMACIDSUP2_00003	500 uL	Benzoic acid	100 ug/mL
					SMACIDSUP3_00003	500 uL	Pentachlorophenol	100 ug/mL
..SMACIDSUP1_00003	04/10/17	Absolute Standard, Lot B7040078			(Purchased Reagent)		2,4-Dinitrophenol	5000 ug/mL
..SMACIDSUP2_00003	06/07/21	Absolute Standards, Lot 211061093			(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMACIDSUP3_00003	04/01/21	Absolute Standards, Lot 211041014			(Purchased Reagent)		Pentachlorophenol	2000 ug/mL
.SMTCL DPH ST_00003	04/30/13	09/10/12	MECL2, Lot 0000001289	8 mL	SM8270TCL1_00003	2 mL	1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2,3,5,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Tribromophenol (Surr)	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-Chlorophenol	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							4,6-Dinitro-2-methylphenol	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Nitrophenol	100 ug/mL
							Benzoic acid	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Pentachlorophenol	100 ug/mL
							Phenol	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
					SM8270TCL2_00003	2 mL	2,4-Toluene diamine	100 ug/mL
							2-Nitroaniline	100 ug/mL
							3,3'-Dichlorobenzidine	100 ug/mL
							3,3'-Dimethoxybenzidine	100 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitroaniline	100 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Nitroaniline	100 ug/mL
							Aniline	100 ug/mL
							Atrazine	100 ug/mL
							Benzidine	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							Pyridine	100 ug/mL
					SM8270TCL3DPH_00002	2 mL	1,1'-Biphenyl	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	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
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Caprolactam	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
							Ethyl methacrylate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							Naphthalene	100 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					SM8270TCL4_00004	2 mL	1,2,3,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dinitrobenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							3-Chloropropionitrile	100 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							Benzaldehyde	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Malononitrile	100 ug/mL
							Nitrobenzene	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SM8270TCL1_00003	05/31/16		RESTEK, Lot A081795		(Purchased Reagent)		1,4-Dichlorobenzene	400 ug/mL
							1,4-Dioxane	400 ug/mL
							2,3,5,6-Tetrachlorophenol	400 ug/mL
							2,4,5-Trichlorophenol	400 ug/mL
							2,4,6-Tribromophenol (Surr)	400 ug/mL
							2,4,6-Trichlorophenol	400 ug/mL
							2,4-Dichlorophenol	400 ug/mL
							2,4-Dimethylphenol	400 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2-Chlorophenol	400 ug/mL
							2-Fluorophenol (Surr)	400 ug/mL
							2-Methylphenol	400 ug/mL
							2-Nitrophenol	400 ug/mL
							3 & 4 Methylphenol	400 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Chloro-3-methylphenol	400 ug/mL
							4-Nitrophenol	400 ug/mL
							Benzoic acid	400 ug/mL
							Benzyl alcohol	400 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenol	400 ug/mL
							Phenol-d5 (Surr)	400 ug/mL
..SM8270TCL2_00003	04/30/13		RESTEK, Lot A081245		(Purchased Reagent)		2,4-Toluene diamine	400 ug/mL
							2-Nitroaniline	400 ug/mL
							3,3'-Dichlorobenzidine	400 ug/mL
							3,3'-Dimethoxybenzidine	400 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitroaniline	400 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	400 ug/mL
							4-Chloroaniline	400 ug/mL
							4-Nitroaniline	400 ug/mL
							Aniline	400 ug/mL
							Atrazine	400 ug/mL
							Benzidine	400 ug/mL
							N-Nitrosodi-n-propylamine	400 ug/mL
							N-Nitrosodimethylamine	400 ug/mL
							N-Nitrosodiphenylamine	400 ug/mL
							Pyridine	400 ug/mL
..SM8270TCL3DPH_00002	12/31/14		Restek, Lot A083779		(Purchased Reagent)		1,1'-Biphenyl	400 ug/mL
							1,2-Diphenylhydrazine	400 ug/mL
							1-Methylnaphthalene	400 ug/mL
							2-Methylnaphthalene	400 ug/mL
							Acenaphthene	400 ug/mL
							Acenaphthylene	400 ug/mL
							Acetophenone	400 ug/mL
							Anthracene	400 ug/mL
							Azobenzene	400 ug/mL
							Benzo[a]anthracene	400 ug/mL
							Benzo[a]pyrene	400 ug/mL
							Benzo[b]fluoranthene	400 ug/mL
							Benzo[g,h,i]perylene	400 ug/mL
							Benzo[k]fluoranthene	400 ug/mL
							Bis(2-ethylhexyl) phthalate	400 ug/mL
							Butyl benzyl phthalate	400 ug/mL
							Caprolactam	400 ug/mL
							Carbazole	400 ug/mL
							Chrysene	400 ug/mL
							Di-n-butyl phthalate	400 ug/mL
							Di-n-octyl phthalate	400 ug/mL
							Dibenz(a,h)anthracene	400 ug/mL
							Dibenzofuran	400 ug/mL
							Diethyl phthalate	400 ug/mL
							Dimethyl phthalate	400 ug/mL
							Ethyl methacrylate	400 ug/mL
							Fluoranthene	400 ug/mL
							Fluorene	400 ug/mL
							Indeno[1,2,3-cd]pyrene	400 ug/mL
							Isophorone	400 ug/mL
							Naphthalene	400 ug/mL
							Phenanthrene	400 ug/mL
							Pyrene	400 ug/mL
..SM8270TCL4_00004	05/31/14		Restek, Lot A081933		(Purchased Reagent)		1,2,3,5-Tetrachlorobenzene	400 ug/mL
							1,2,4-Trichlorobenzene	400 ug/mL
							1,2-Dichlorobenzene	400 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dinitrobenzene	400 ug/mL
							1,3,5-Trichlorobenzene	400 ug/mL
							1,3-Dichlorobenzene	400 ug/mL
							2,4-Dinitrotoluene	400 ug/mL
							2,6-Dinitrotoluene	400 ug/mL
							2-Chloronaphthalene	400 ug/mL
							2-Fluorobiphenyl (Surr)	400 ug/mL
							3-Chloropropionitrile	400 ug/mL
							4-Bromophenyl phenyl ether	400 ug/mL
							4-Chlorophenyl phenyl ether	400 ug/mL
							Benzaldehyde	400 ug/mL
							bis (2-chloroisopropyl) ether	400 ug/mL
							Bis(2-chloroethoxy)methane	400 ug/mL
							Bis(2-chloroethyl)ether	400 ug/mL
							Hexachlorobenzene	400 ug/mL
							Hexachlorobutadiene	400 ug/mL
							Hexachlorocyclopentadiene	400 ug/mL
							Hexachloroethane	400 ug/mL
							Malononitrile	400 ug/mL
							Nitrobenzene	400 ug/mL
							Nitrobenzene-d5 (Surr)	400 ug/mL
							Terphenyl-d14 (Surr)	400 ug/mL
SMTCL L8 W_00007	04/30/13	09/10/12	MECL2, Lot 0000001289	2 mL	SMIS80PPMW_00006	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
					SMSUP ST_00003	400 uL	2,4-Dinitrophenol	40 ug/mL
							Benzoic acid	40 ug/mL
							Pentachlorophenol	40 ug/mL
					SMTCL DPH ST_00003	400 uL	1,4-Dichlorobenzene	20 ug/mL
							1,4-Dioxane	20 ug/mL
							2,3,5,6-Tetrachlorophenol	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Tribromophenol (Surr)	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-Chlorophenol	20 ug/mL
							2-Fluorophenol (Surr)	20 ug/mL
							2-Methylphenol	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3 & 4 Methylphenol	20 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Chloro-3-methylphenol	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	20 ug/mL
							Benzoic acid	40 ug/mL
							Benzyl alcohol	20 ug/mL
							Pentachlorophenol	40 ug/mL
							Phenol	20 ug/mL
							Phenol-d5 (Surr)	20 ug/mL
							2,4-Toluene diamine	20 ug/mL
							2-Nitroaniline	20 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL
							3,3'-Dimethoxybenzidine	20 ug/mL
							3-Nitroaniline	20 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Nitroaniline	20 ug/mL
							Aniline	20 ug/mL
							Atrazine	20 ug/mL
							Benzidine	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							Pyridine	20 ug/mL
							1,1'-Biphenyl	20 ug/mL
							1,2-Diphenylhydrazine	20 ug/mL
							1-Methylnaphthalene	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Acetophenone	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
							Bis(2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL
							Caprolactam	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
							Dibenz(a,h)anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Ethyl methacrylate	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							Naphthalene	20 ug/mL
							Phenanthrene	20 ug/mL
							Pyrene	20 ug/mL
							1,2,3,5-Tetrachlorobenzene	20 ug/mL
							1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,2-Dinitrobenzene	20 ug/mL
							1,3,5-Trichlorobenzene	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL
							2-Chloronaphthalene	20 ug/mL
							2-Fluorobiphenyl (Surr)	20 ug/mL
							3-Chloropropionitrile	20 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							Benzaldehyde	20 ug/mL
							bis (2-chloroisopropyl) ether	20 ug/mL
							Bis(2-chloroethoxy)methane	20 ug/mL
							Bis(2-chloroethyl)ether	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Malononitrile	20 ug/mL
							Nitrobenzene	20 ug/mL
							Nitrobenzene-d5 (Surr)	20 ug/mL
							Terphenyl-d14 (Surr)	20 ug/mL
.SMIS80PPMW_00006	09/11/13	09/10/12	MECL2, Lot 0000001289	50 mL	SMIS_00004	1 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_00004	06/30/14	UltraScientific, Lot CH-1761			(Purchased Reagent)		1,4-Dichlorobenzene-d4	4000 ug/mL
							Acenaphthene-d10	4000 ug/mL
							Chrysene-d12	4000 ug/mL
							Naphthalene-d8	4000 ug/mL
							Perylene-d12	4000 ug/mL
							Phenanthrene-d10	4000 ug/mL
.SMSUP ST_00003	09/10/13	09/10/12	MECL2, Lot 0000001289	10 mL	SMACIDSUP1_00003	200 uL	2,4-Dinitrophenol	100 ug/mL
					SMACIDSUP2_00003	500 uL	Benzoic acid	100 ug/mL
					SMACIDSUP3_00003	500 uL	Pentachlorophenol	100 ug/mL
..SMACIDSUP1_00003	04/10/17	Absolute Standard, Lot B7040078			(Purchased Reagent)		2,4-Dinitrophenol	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SMACIDSUP2_00003	06/07/21	Absolute Standards, Lot 211061093			(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMACIDSUP3_00003	04/01/21	Absolute Standards, Lot 211041014			(Purchased Reagent)		Pentachlorophenol	2000 ug/mL
.SMTCL DPH ST_00003	04/30/13	09/10/12	MECL2, Lot 0000001289	8 mL	SM8270TCL1_00003	2 mL	1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2,3,5,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Tribromophenol (Surr)	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-Chlorophenol	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							4,6-Dinitro-2-methylphenol	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Nitrophenol	100 ug/mL
							Benzoic acid	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Pentachlorophenol	100 ug/mL
							Phenol	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
					SM8270TCL2_00003	2 mL	2,4-Toluene diamine	100 ug/mL
							2-Nitroaniline	100 ug/mL
							3,3'-Dichlorobenzidine	100 ug/mL
							3,3'-Dimethoxybenzidine	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Nitroaniline	100 ug/mL
							Aniline	100 ug/mL
							Atrazine	100 ug/mL
							Benzidine	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							Pyridine	100 ug/mL
					SM8270TCL3DPH_00002	2 mL	1,1'-Biphenyl	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Anthracene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Caprolactam	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
							Ethyl methacrylate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							Naphthalene	100 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					SM8270TCL4_00004	2 mL	1,2,3,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dinitrobenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							3-Chloropropionitrile	100 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							Benzaldehyde	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Malononitrile	100 ug/mL
							Nitrobenzene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SM8270TCL1_00003	05/31/16		RESTEK, Lot A081795		(Purchased Reagent)		1,4-Dichlorobenzene	400 ug/mL
							1,4-Dioxane	400 ug/mL
							2,3,5,6-Tetrachlorophenol	400 ug/mL
							2,4,5-Trichlorophenol	400 ug/mL
							2,4,6-Tribromophenol (Surr)	400 ug/mL
							2,4,6-Trichlorophenol	400 ug/mL
							2,4-Dichlorophenol	400 ug/mL
							2,4-Dimethylphenol	400 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2-Chlorophenol	400 ug/mL
							2-Fluorophenol (Surr)	400 ug/mL
							2-Methylphenol	400 ug/mL
							2-Nitrophenol	400 ug/mL
							3 & 4 Methylphenol	400 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Chloro-3-methylphenol	400 ug/mL
							4-Nitrophenol	400 ug/mL
							Benzoic acid	400 ug/mL
							Benzyl alcohol	400 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenol	400 ug/mL
							Phenol-d5 (Surr)	400 ug/mL
..SM8270TCL2_00003	04/30/13		RESTEK, Lot A081245		(Purchased Reagent)		2,4-Toluene diamine	400 ug/mL
							2-Nitroaniline	400 ug/mL
							3,3'-Dichlorobenzidine	400 ug/mL
							3,3'-Dimethoxybenzidine	400 ug/mL
							3-Nitroaniline	400 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	400 ug/mL
							4-Chloroaniline	400 ug/mL
							4-Nitroaniline	400 ug/mL
							Aniline	400 ug/mL
							Atrazine	400 ug/mL
							Benzidine	400 ug/mL
							N-Nitrosodi-n-propylamine	400 ug/mL
							N-Nitrosodimethylamine	400 ug/mL
							N-Nitrosodiphenylamine	400 ug/mL
							Pyridine	400 ug/mL
..SM8270TCL3DPH_00002	12/31/14		Restek, Lot A083779		(Purchased Reagent)		1,1'-Biphenyl	400 ug/mL
							1,2-Diphenylhydrazine	400 ug/mL
							1-Methylnaphthalene	400 ug/mL
							2-Methylnaphthalene	400 ug/mL
							Acenaphthene	400 ug/mL
							Acenaphthylene	400 ug/mL
							Acetophenone	400 ug/mL
							Anthracene	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Azobenzene	400 ug/mL
							Benzo[a]anthracene	400 ug/mL
							Benzo[a]pyrene	400 ug/mL
							Benzo[b]fluoranthene	400 ug/mL
							Benzo[g,h,i]perylene	400 ug/mL
							Benzo[k]fluoranthene	400 ug/mL
							Bis(2-ethylhexyl) phthalate	400 ug/mL
							Butyl benzyl phthalate	400 ug/mL
							Caprolactam	400 ug/mL
							Carbazole	400 ug/mL
							Chrysene	400 ug/mL
							Di-n-butyl phthalate	400 ug/mL
							Di-n-octyl phthalate	400 ug/mL
							Dibenz(a,h)anthracene	400 ug/mL
							Dibenzofuran	400 ug/mL
							Diethyl phthalate	400 ug/mL
							Dimethyl phthalate	400 ug/mL
							Ethyl methacrylate	400 ug/mL
							Fluoranthene	400 ug/mL
							Fluorene	400 ug/mL
							Indeno[1,2,3-cd]pyrene	400 ug/mL
							Isophorone	400 ug/mL
							Naphthalene	400 ug/mL
							Phenanthrene	400 ug/mL
							Pyrene	400 ug/mL
..SM8270TCL4_00004	05/31/14		Restek, Lot A081933		(Purchased Reagent)		1,2,3,5-Tetrachlorobenzene	400 ug/mL
							1,2,4-Trichlorobenzene	400 ug/mL
							1,2-Dichlorobenzene	400 ug/mL
							1,2-Dinitrobenzene	400 ug/mL
							1,3,5-Trichlorobenzene	400 ug/mL
							1,3-Dichlorobenzene	400 ug/mL
							2,4-Dinitrotoluene	400 ug/mL
							2,6-Dinitrotoluene	400 ug/mL
							2-Chloronaphthalene	400 ug/mL
							2-Fluorobiphenyl (Surr)	400 ug/mL
							3-Chloropropionitrile	400 ug/mL
							4-Bromophenyl phenyl ether	400 ug/mL
							4-Chlorophenyl phenyl ether	400 ug/mL
							Benzaldehyde	400 ug/mL
							bis (2-chloroisopropyl) ether	400 ug/mL
							Bis(2-chloroethoxy)methane	400 ug/mL
							Bis(2-chloroethyl)ether	400 ug/mL
							Hexachlorobenzene	400 ug/mL
							Hexachlorobutadiene	400 ug/mL
							Hexachlorocyclopentadiene	400 ug/mL
							Hexachloroethane	400 ug/mL
							Malononitrile	400 ug/mL
							Nitrobenzene	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene-d5 (Surr)	400 ug/mL
							Terphenyl-d14 (Surr)	400 ug/mL
SMTCL L9 W_00007	04/30/13	09/10/12	MECL2, Lot 0000001289	2 mL	SMIS80PPMW_00006	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
					SMSUP ST_00003	500 uL	2,4-Dinitrophenol	50 ug/mL
							Benzoic acid	50 ug/mL
							Pentachlorophenol	50 ug/mL
					SMTCL DPH ST_00003	500 uL	1,4-Dichlorobenzene	25 ug/mL
							1,4-Dioxane	25 ug/mL
							2,3,5,6-Tetrachlorophenol	25 ug/mL
							2,4,5-Trichlorophenol	25 ug/mL
							2,4,6-Tribromophenol (Surr)	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-Chlorophenol	25 ug/mL
							2-Fluorophenol (Surr)	25 ug/mL
							2-Methylphenol	25 ug/mL
							2-Nitrophenol	25 ug/mL
							3 & 4 Methylphenol	25 ug/mL
							4,6-Dinitro-2-methylphenol	25 ug/mL
							4-Chloro-3-methylphenol	25 ug/mL
							4-Nitrophenol	25 ug/mL
							Benzoic acid	50 ug/mL
							Benzyl alcohol	25 ug/mL
							Pentachlorophenol	50 ug/mL
							Phenol	25 ug/mL
							Phenol-d5 (Surr)	25 ug/mL
							2,4-Toluene diamine	25 ug/mL
							2-Nitroaniline	25 ug/mL
							3,3'-Dichlorobenzidine	25 ug/mL
							3,3'-Dimethoxybenzidine	25 ug/mL
							3-Nitroaniline	25 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	25 ug/mL
							4-Chloroaniline	25 ug/mL
							4-Nitroaniline	25 ug/mL
							Aniline	25 ug/mL
							Atrazine	25 ug/mL
							Benzidine	25 ug/mL
							N-Nitrosodi-n-propylamine	25 ug/mL
							N-Nitrosodimethylamine	25 ug/mL
							N-Nitrosodiphenylamine	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyridine	25 ug/mL
							1,1'-Biphenyl	25 ug/mL
							1,2-Diphenylhydrazine	25 ug/mL
							1-Methylnaphthalene	25 ug/mL
							2-Methylnaphthalene	25 ug/mL
							Acenaphthene	25 ug/mL
							Acenaphthylene	25 ug/mL
							Acetophenone	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
							Bis(2-ethylhexyl) phthalate	25 ug/mL
							Butyl benzyl phthalate	25 ug/mL
							Caprolactam	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
							Diethyl phthalate	25 ug/mL
							Dimethyl phthalate	25 ug/mL
							Ethyl methacrylate	25 ug/mL
							Fluoranthene	25 ug/mL
							Fluorene	25 ug/mL
							Indeno[1,2,3-cd]pyrene	25 ug/mL
							Isophorone	25 ug/mL
							Naphthalene	25 ug/mL
							Phenanthrene	25 ug/mL
							Pyrene	25 ug/mL
							1,2,3,5-Tetrachlorobenzene	25 ug/mL
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Dinitrobenzene	25 ug/mL
							1,3,5-Trichlorobenzene	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							2,4-Dinitrotoluene	25 ug/mL
							2,6-Dinitrotoluene	25 ug/mL
							2-Chloronaphthalene	25 ug/mL
							2-Fluorobiphenyl (Surr)	25 ug/mL
							3-Chloropropionitrile	25 ug/mL
							4-Bromophenyl phenyl ether	25 ug/mL
							4-Chlorophenyl phenyl ether	25 ug/mL
							Benzaldehyde	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

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	25 ug/mL
							Bis(2-chloroethoxy)methane	25 ug/mL
							Bis(2-chloroethyl)ether	25 ug/mL
							Hexachlorobenzene	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							Hexachlorocyclopentadiene	25 ug/mL
							Hexachloroethane	25 ug/mL
							Malononitrile	25 ug/mL
							Nitrobenzene	25 ug/mL
							Nitrobenzene-d5 (Surr)	25 ug/mL
							Terphenyl-d14 (Surr)	25 ug/mL
.SMIS80PPMW_00006	09/11/13	09/10/12	MECL2, Lot 0000001289	50 mL	SMIS_00004	1 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_00004	06/30/14	UltraScientific, Lot CH-1761			(Purchased Reagent)		1,4-Dichlorobenzene-d4	4000 ug/mL
							Acenaphthene-d10	4000 ug/mL
							Chrysene-d12	4000 ug/mL
							Naphthalene-d8	4000 ug/mL
							Perylene-d12	4000 ug/mL
							Phenanthrene-d10	4000 ug/mL
.SMSUP ST_00003	09/10/13	09/10/12	MECL2, Lot 0000001289	10 mL	SMACIDSUP1_00003	200 uL	2,4-Dinitrophenol	100 ug/mL
					SMACIDSUP2_00003	500 uL	Benzoic acid	100 ug/mL
					SMACIDSUP3_00003	500 uL	Pentachlorophenol	100 ug/mL
..SMACIDSUP1_00003	04/10/17	Absolute Standard, Lot B7040078			(Purchased Reagent)		2,4-Dinitrophenol	5000 ug/mL
..SMACIDSUP2_00003	06/07/21	Absolute Standards, Lot 211061093			(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMACIDSUP3_00003	04/01/21	Absolute Standards, Lot 211041014			(Purchased Reagent)		Pentachlorophenol	2000 ug/mL
.SMTCL DPH ST_00003	04/30/13	09/10/12	MECL2, Lot 0000001289	8 mL	SM8270TCL1_00003	2 mL	1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2,3,5,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Tribromophenol (Surr)	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-Chlorophenol	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							4,6-Dinitro-2-methylphenol	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Nitrophenol	100 ug/mL
							Benzoic acid	100 ug/mL
							Benzyl alcohol	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pentachlorophenol	100 ug/mL
							Phenol	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
					SM8270TCL2_00003	2 mL	2,4-Toluene diamine	100 ug/mL
							2-Nitroaniline	100 ug/mL
							3,3'-Dichlorobenzidine	100 ug/mL
							3,3'-Dimethoxybenzidine	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Nitroaniline	100 ug/mL
							Aniline	100 ug/mL
							Atrazine	100 ug/mL
							Benzidine	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							Pyridine	100 ug/mL
					SM8270TCL3DPH_00002	2 mL	1,1'-Biphenyl	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	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
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Caprolactam	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
							Ethyl methacrylate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isophorone	100 ug/mL
							Naphthalene	100 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					SM8270TCL4_00004	2 mL	1,2,3,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dinitrobenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							3-Chloropropionitrile	100 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							Benzaldehyde	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Malononitrile	100 ug/mL
							Nitrobenzene	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SM8270TCL1_00003	05/31/16		RESTEK, Lot A081795		(Purchased Reagent)		1,4-Dichlorobenzene	400 ug/mL
							1,4-Dioxane	400 ug/mL
							2,3,5,6-Tetrachlorophenol	400 ug/mL
							2,4,5-Trichlorophenol	400 ug/mL
							2,4,6-Tribromophenol (Surr)	400 ug/mL
							2,4,6-Trichlorophenol	400 ug/mL
							2,4-Dichlorophenol	400 ug/mL
							2,4-Dimethylphenol	400 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2-Chlorophenol	400 ug/mL
							2-Fluorophenol (Surr)	400 ug/mL
							2-Methylphenol	400 ug/mL
							2-Nitrophenol	400 ug/mL
							3 & 4 Methylphenol	400 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Chloro-3-methylphenol	400 ug/mL
							4-Nitrophenol	400 ug/mL
							Benzoic acid	400 ug/mL
							Benzyl alcohol	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pentachlorophenol	400 ug/mL
							Phenol	400 ug/mL
							Phenol-d5 (Surr)	400 ug/mL
..SM8270TCL2_00003	04/30/13		RESTEK, Lot A081245		(Purchased Reagent)		2,4-Toluene diamine	400 ug/mL
							2-Nitroaniline	400 ug/mL
							3,3'-Dichlorobenzidine	400 ug/mL
							3,3'-Dimethoxybenzidine	400 ug/mL
							3-Nitroaniline	400 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	400 ug/mL
							4-Chloroaniline	400 ug/mL
							4-Nitroaniline	400 ug/mL
							Aniline	400 ug/mL
							Atrazine	400 ug/mL
							Benzidine	400 ug/mL
							N-Nitrosodi-n-propylamine	400 ug/mL
							N-Nitrosodimethylamine	400 ug/mL
							N-Nitrosodiphenylamine	400 ug/mL
							Pyridine	400 ug/mL
..SM8270TCL3DPH_00002	12/31/14		Restek, Lot A083779		(Purchased Reagent)		1,1'-Biphenyl	400 ug/mL
							1,2-Diphenylhydrazine	400 ug/mL
							1-Methylnaphthalene	400 ug/mL
							2-Methylnaphthalene	400 ug/mL
							Acenaphthene	400 ug/mL
							Acenaphthylene	400 ug/mL
							Acetophenone	400 ug/mL
							Anthracene	400 ug/mL
							Azobenzene	400 ug/mL
							Benzo[a]anthracene	400 ug/mL
							Benzo[a]pyrene	400 ug/mL
							Benzo[b]fluoranthene	400 ug/mL
							Benzo[g,h,i]perylene	400 ug/mL
							Benzo[k]fluoranthene	400 ug/mL
							Bis(2-ethylhexyl) phthalate	400 ug/mL
							Butyl benzyl phthalate	400 ug/mL
							Caprolactam	400 ug/mL
							Carbazole	400 ug/mL
							Chrysene	400 ug/mL
							Di-n-butyl phthalate	400 ug/mL
							Di-n-octyl phthalate	400 ug/mL
							Dibenz(a,h)anthracene	400 ug/mL
							Dibenzofuran	400 ug/mL
							Diethyl phthalate	400 ug/mL
							Dimethyl phthalate	400 ug/mL
							Ethyl methacrylate	400 ug/mL
							Fluoranthene	400 ug/mL
							Fluorene	400 ug/mL
							Indeno[1,2,3-cd]pyrene	400 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isophorone	400 ug/mL
							Naphthalene	400 ug/mL
							Phenanthrene	400 ug/mL
							Pyrene	400 ug/mL
..SM8270TCL4_00004	05/31/14		Restek, Lot A081933		(Purchased Reagent)		1,2,3,5-Tetrachlorobenzene	400 ug/mL
							1,2,4-Trichlorobenzene	400 ug/mL
							1,2-Dichlorobenzene	400 ug/mL
							1,2-Dinitrobenzene	400 ug/mL
							1,3,5-Trichlorobenzene	400 ug/mL
							1,3-Dichlorobenzene	400 ug/mL
							2,4-Dinitrotoluene	400 ug/mL
							2,6-Dinitrotoluene	400 ug/mL
							2-Chloronaphthalene	400 ug/mL
							2-Fluorobiphenyl (Surr)	400 ug/mL
							3-Chloropropionitrile	400 ug/mL
							4-Bromophenyl phenyl ether	400 ug/mL
							4-Chlorophenyl phenyl ether	400 ug/mL
							Benzaldehyde	400 ug/mL
							bis (2-chloroisopropyl) ether	400 ug/mL
							Bis(2-chloroethoxy)methane	400 ug/mL
							Bis(2-chloroethyl)ether	400 ug/mL
							Hexachlorobenzene	400 ug/mL
							Hexachlorobutadiene	400 ug/mL
							Hexachlorocyclopentadiene	400 ug/mL
							Hexachloroethane	400 ug/mL
							Malononitrile	400 ug/mL
							Nitrobenzene	400 ug/mL
							Nitrobenzene-d5 (Surr)	400 ug/mL
							Terphenyl-d14 (Surr)	400 ug/mL
VGGASCAL_00023	03/28/13	12/28/12	MEOH, Lot 123279	50 mL	VGGASDIL_00007	500 uL	C6-C10	100 ug/mL
							C6-C12	100 ug/mL
.VGGASDIL_00007	03/28/13	12/28/12	MEOH, Lot 123279	50 mL	VGGASSTOCK_00014	0.5 g	C6-C10	10000 ug/mL
							C6-C12	10000 ug/mL
..VGGASSTOCK_00014	10/31/13		ULTRA SCIENTIFIC, Lot S-0681W		(Purchased Reagent)		C6-C10	1 g/g
							C6-C12	1 g/g
VGGASCAL_00025	03/28/13	02/18/13	MEOH, Lot 124454	50 mL	VGGASDIL_00007	500 uL	C6-C12	100 ug/mL
.VGGASDIL_00007	03/28/13	12/28/12	MEOH, Lot 123279	50 mL	VGGASSTOCK_00014	0.5 g	C6-C12	10000 ug/mL
..VGGASSTOCK_00014	10/31/13		ULTRA SCIENTIFIC, Lot S-0681W		(Purchased Reagent)		C6-C12	1 g/g
VGGASCHK_00025	03/14/13	12/14/12	MEOH, Lot 123279	50 mL	VGGASCHKSTK_00020	1 mL	C6-C12	100 ug/mL
.VGGASCHKSTK_00020	04/05/15		ACCU STANDARD, Lot B5040009		(Purchased Reagent)		C6-C12	5 mg/mL
VGGASCHK_00029	06/18/13	03/18/13	MEOH, Lot 124454	50 mL	VGGASCHKSTK_00023	1 mL	C6-C12	100 ug/mL
.VGGASCHKSTK_00023	04/05/15		ACCU STANDARD, Lot B5040009		(Purchased Reagent)		C6-C12	5 mg/mL
VGGASURROGATE_00017	03/12/13	12/12/12	MEOH, Lot 123279	50 mL	VGSURRSTKGAS_00014	1.25 mL	Trifluorotoluene (Surr)	50 ug/mL
.VGSURRSTKGAS_00014	07/31/14		ULTRA SCIENTIFIC, Lot CE-1903A		(Purchased Reagent)		Trifluorotoluene (Surr)	2000 ug/mL
VGGASURROGATE_00018	05/18/13	02/18/13	MEOH, Lot 124454	50 mL	VGSURRSTKGAS_00015	1.25 mL	Trifluorotoluene (Surr)	50 ug/mL
.VGSURRSTKGAS_00015	07/31/14		ULTRA SCIENTIFIC, Lot CE-1903A		(Purchased Reagent)		Trifluorotoluene (Surr)	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vm100is_stk_00012	07/18/13	01/18/13	MEOH, Lot 124454	50 mL	VMSTM520_00016	2 mL	1,4-Dichlorobenzene-d4	100 ug/mL
							Chlorobenzene-d5	100 ug/mL
							Fluorobenzene	100 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
vm100ss_stk_00012	06/17/13	12/17/12	MEOH, Lot 123279	50 mL	VMstm530_00017	2 mL	1,2-Dichloroethane-d4 (Surr)	100 ug/mL
							4-Bromofluorobenzene (Surr)	100 ug/mL
							Dibromofluoromethane (Surr)	100 ug/mL
							Toluene-d8 (Surr)	100 ug/mL
.VMstm530_00017	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_00099	03/26/13	03/19/13	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
VMCGAS_00114	03/24/13	03/17/13	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
VMCGAS_00115	04/01/13	03/25/13	MEOH, Lot 124454	10 mL	VMDWM544_00012	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	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
							Vinyl chloride	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VMFASWS_00136	03/20/13	03/17/13	MEOH, Lot na	3 mL	VMFAS_00036	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_00036	03/20/13	02/20/13	MEOH, Lot 124454	100 mL	VM48799U_00012	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.: 240-21987-1

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_00034	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_00012	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

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_00034	04/30/15		Supelco, Lot LB96725		(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_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-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Ethylbenzene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

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.: 240-21987-1

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_00172	03/24/13	03/17/13	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.: 240-21987-1

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.: 240-21987-1

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.: 240-21987-1

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
VMPRIMARY_00173	04/01/13	03/25/13	MEOH, Lot na	1 mL	VMCUS7814_00021	1 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloroethene, Total	100 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	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-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloroethene, Total	100 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	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
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	50 ug/mL
							Xylenes, Total	150 ug/mL
VMSUPPW_00118	03/24/13	03/17/13	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
							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
					VMCU5013_00009	1 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)		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
VMSUPPW_00119	04/01/13	03/25/13	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
.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
..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
WCCHROME50PM2_00010	05/19/13	11/19/12	DIWATER, Lot 11/19/12	1000 mL	WCCHROMSTOCK2_00001	0.1414 g	Cr (VI)	49.9764 mg/L
.WCCHROMSTOCK2_00001	12/14/14	FISHER, Lot 085767a			(Purchased Reagent)		Cr (VI)	0.35344 g/g
WCCHROME50PPM_00009	05/19/13	11/19/12	DIWATER, Lot 11/19/12	1000 mL	WCCHROMSTOCK1_00002	0.1414 g	Cr (VI)	49.9764 mg/L
.WCCHROMSTOCK1_00002	10/14/15	FISHER, Lot 094236			(Purchased Reagent)		Cr (VI)	0.35344 g/g

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
CCVHL1_00001	05/01/13	02/11/13	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_00001	05/01/13	02/11/13	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_00039	05/01/13	04/01/13	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.: 240-21987-1

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_00028	04/17/13	03/17/13	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.: 240-21987-1

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_00032	05/01/13	04/01/13	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.: 240-21987-1

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_00028	04/17/13	03/17/13	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.: 240-21987-1

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_00003	04/17/13	03/17/13	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_00019	05/01/13	04/01/13	DI Water, Lot K35N55	250 mL	MCALSPECAREV_00004	10 mg/L	Aluminum	1 ppm

Lab Name: TestAmerica Pittsburgh Job No.: 240-21987-1

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_00020	05/01/13	04/01/13	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_00011	02/01/14	INORGANIC VENTURES, Lot G2-MEB455121			(Purchased Reagent)		Aluminum	200 ug/mL
							Arsenic	4 ug/mL
							B	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 240-21987-1

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_00018	03/01/14	Inorganic Ventures, Lot G2-MEB458094			(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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
HP34DNTSU_00012	09/14/13	03/14/13	Acetonitrile, Lot Acetonitrite_00005	50 mL	HP8330SU_00011	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
.HP8330SU_00011	03/31/17		Restek, Lot A087054		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
HP8330IC_00007	05/31/13	06/13/12	25% 0.1%HOAc in ACN, Lot 4457-73G	10 mL	HP8330TA_00010	25 uL	1,3,5-Trinitrobenzene	500 ng/mL
							1,3-Dinitrobenzene	500 ng/mL
							2,4,6-Trinitrotoluene	500 ng/mL
							2,4-Dinitrotoluene	500 ng/mL
							2,6-Dinitrotoluene	500 ng/mL
							2-Amino-4,6-dinitrotoluene	500 ng/mL
							2-Nitrotoluene	500 ng/mL
							3-Nitrotoluene	500 ng/mL
							4-Amino-2,6-dinitrotoluene	500 ng/mL
							4-Nitrotoluene	500 ng/mL
							HMX	500 ng/mL
							Nitrobenzene	500 ng/mL
							RDX	500 ng/mL
							Tetryl	500 ng/mL
					HPNGTA_00013	50 uL	Nitroglycerin	500 ng/mL
					HPPETNTA_00011	5 uL	PETN	500 ng/mL
.HP8330TA_00010	08/30/16		Cerilliant, Lot ER083011-01		(Purchased Reagent)		1,3,5-Trinitrobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							2,4,6-Trinitrotoluene	200 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Amino-4,6-dinitrotoluene	200 ug/mL
							2-Nitrotoluene	200 ug/mL
							3-Nitrotoluene	200 ug/mL
							4-Amino-2,6-dinitrotoluene	200 ug/mL
							4-Nitrotoluene	200 ug/mL
							HMX	200 ug/mL
							Nitrobenzene	200 ug/mL
							RDX	200 ug/mL
							Tetryl	200 ug/mL
.HPNGTA_00013	03/28/14		Accustandard, Lot 212031351		(Purchased Reagent)		Nitroglycerin	100 ug/mL
.HPPETNTA_00011	05/31/13		Accustandard, Lot 211051150		(Purchased Reagent)		PETN	1000 ug/mL
HP8330ICL_00003	05/11/13	12/11/12	25:75 HOAc/ACN, Lot 4457-69F	50 mL	HP34DNTSU_00008	20 uL	3,4-Dinitrotoluene	20 ng/mL
					HP8330SP_00011	5 uL	1,3,5-Trinitrobenzene	5 ng/mL
							1,3-Dinitrobenzene	5 ng/mL
							2,4,6-Trinitrotoluene	5 ng/mL
							2,4-Dinitrotoluene	5 ng/mL
							2,6-Dinitrotoluene	5 ng/mL
							2-Amino-4,6-dinitrotoluene	5 ng/mL
							2-Nitrotoluene	5 ng/mL
							3-Nitrotoluene	5 ng/mL
							4-Amino-2,6-dinitrotoluene	5 ng/mL

Lab Name: TestAmerica Sacramento Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrotoluene	5 ng/mL
							HMX	5 ng/mL
							Nitrobenzene	5 ng/mL
							RDX	5 ng/mL
							Tetryl	5 ng/mL
					HPNGPETNSP_00001	20 uL	Nitroglycerin	20 ng/mL
							PETN	20 ng/mL
.HP34DNTSU_00008	05/15/13	11/15/12	Acetonitrile, Lot Acetonitrite_00001	50 mL	HP8330SU_00008	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00008	05/15/13		Restek, Lot A087054		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00011	05/30/13	12/05/12	Acetonitrile, Lot 732	50 mL	HP8330TA_00009	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP8330TA_00009	05/30/15		Restek, Lot A084334		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPNGPETNSP_00001	05/11/13	12/11/12	Methanol, Lot Methanol_00001	25 mL	HPNGTA_00012	1.25 mL	Nitroglycerin	50 ug/mL
					HPPETNTA_00010	1.25 mL	PETN	50 ug/mL
..HPNGTA_00012	05/30/16		Restek, Lot A082035		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00010	11/30/16		Restek, Lot A085138		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L1_00005	05/04/13	08/29/12	25% 1%HoAC in ACN 75, Lot 4457-51G	50 mL	HP8330L4_00004	5 mL	3,4-Dinitrotoluene	5 ng/mL
							3,5-Dinitroaniline	5 ng/mL
							1,3,5-Trinitrobenzene	5 ng/mL
							1,3-Dinitrobenzene	5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trinitrotoluene	5 ng/mL
							2,4-Dinitrotoluene	5 ng/mL
							2,6-Dinitrotoluene	5 ng/mL
							2-Amino-4,6-dinitrotoluene	5 ng/mL
							2-Nitrotoluene	5 ng/mL
							3-Nitrotoluene	5 ng/mL
							4-Amino-2,6-dinitrotoluene	5 ng/mL
							4-Nitrotoluene	5 ng/mL
							HMX	5 ng/mL
							Nitrobenzene	5 ng/mL
							RDX	5 ng/mL
							Tetryl	5 ng/mL
							Ethylene glycol dinitrate	5 ng/mL
							Nitroglycerin	5 ng/mL
							PETN	5 ng/mL
							2,4,6-Trinitrophenol	10 ng/mL
.HP8330L4_00004	05/04/13	08/29/12	25% 0.1%HoAC in ACN, Lot 4457-51G	50 mL	HP34DNTSU_00009	50 uL	3,4-Dinitrotoluene	50 ng/mL
					HP8330SP_00011	50 uL	3,5-Dinitroaniline	50 ng/mL
							1,3,5-Trinitrobenzene	50 ng/mL
							1,3-Dinitrobenzene	50 ng/mL
							2,4,6-Trinitrotoluene	50 ng/mL
							2,4-Dinitrotoluene	50 ng/mL
							2,6-Dinitrotoluene	50 ng/mL
							2-Amino-4,6-dinitrotoluene	50 ng/mL
							2-Nitrotoluene	50 ng/mL
							3-Nitrotoluene	50 ng/mL
							4-Amino-2,6-dinitrotoluene	50 ng/mL
							4-Nitrotoluene	50 ng/mL
							HMX	50 ng/mL
							Nitrobenzene	50 ng/mL
							RDX	50 ng/mL
							Tetryl	50 ng/mL
					HPEGDNSP_00005	50 uL	Ethylene glycol dinitrate	50 ng/mL
					HPNGPETNSP_00001	50 uL	Nitroglycerin	50 ng/mL
							PETN	50 ng/mL
					HPPASP_00008	100 uL	2,4,6-Trinitrophenol	100 ng/mL
..HP34DNTSU_00009	05/18/13	12/18/12	Acetonitrile, Lot Acetonitrite_00001	50 mL	HP8330SU_00009	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
...HP8330SU_00009	03/31/17	Restek, Lot A087054			(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
..HP8330SP_00011	05/30/13	12/05/12	Acetonitrile, Lot 732	50 mL	HP35DNATA_00010	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00009	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL

Lab Name: TestAmerica Sacramento Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
...HP35DNATA_00010	07/31/16		Restek, Lot A085338		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
...HP8330TA_00009	05/30/15		Restek, Lot A084334		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
..HPEGDNSP_00005	05/04/13	12/04/12	Acetonitrile, Lot Acetonitrile_00004	25 mL	HPEGDNTA_00005	1.25 mL	Ethylene glycol dinitrate	50 ug/mL
...HPEGDNTA_00005	01/01/17		Restek, Lot A085885		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
..HPNGPETNSP_00001	05/11/13	12/11/12	Methanol, Lot Methanol_00001	25 mL	HPNGTA_00012	1.25 mL	Nitroglycerin	50 ug/mL
					HPPETNTA_00010	1.25 mL	PETN	50 ug/mL
...HPNGTA_00012	05/30/16		Restek, Lot A082035		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
...HPPETNTA_00010	11/30/16		Restek, Lot A085138		(Purchased Reagent)		PETN	1000 ug/mL
..HPPASP_00008	05/04/13	12/04/12	Acetonitrile, Lot Acetonitrile_00004	25 mL	HPPATA_00007	1.25 mL	2,4,6-Trinitrophenol	50 ug/mL
...HPPATA_00007	01/04/17		restek, Lot A086505		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330L2_00004	05/04/13	08/29/12	25% 0.1%HoAC in ACN, Lot 4457-51G	50 mL	HP34DNTSU_00009	10 uL	3,4-Dinitrotoluene	10 ng/mL
					HP8330SP_00011	10 uL	3,5-Dinitroaniline	10 ng/mL
							1,3,5-Trinitrobenzene	10 ng/mL
							1,3-Dinitrobenzene	10 ng/mL
							2,4,6-Trinitrotoluene	10 ng/mL
							2,4-Dinitrotoluene	10 ng/mL
							2,6-Dinitrotoluene	10 ng/mL
							2-Amino-4,6-dinitrotoluene	10 ng/mL
							2-Nitrotoluene	10 ng/mL
							3-Nitrotoluene	10 ng/mL
							4-Amino-2,6-dinitrotoluene	10 ng/mL
							4-Nitrotoluene	10 ng/mL
							HMX	10 ng/mL
							Nitrobenzene	10 ng/mL

Lab Name: TestAmerica Sacramento Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							RDX	10 ng/mL
							Tetryl	10 ng/mL
					HPEGDNSP_00005	10 uL	Ethylene glycol dinitrate	10 ng/mL
					HPNGPETNSP_00001	10 uL	Nitroglycerin	10 ng/mL
							PETN	10 ng/mL
					HPPASP_00008	20 uL	2,4,6-Trinitrophenol	20 ng/mL
.HP34DNTSU_00009	05/18/13	12/18/12	Acetonitrile, Lot Acetonitrite_00001	50 mL	HP8330SU_00009	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00009	03/31/17		Restek, Lot A087054		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00011	05/30/13	12/05/12	Acetonitrile, Lot 732	50 mL	HP35DNATA_00010	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00009	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00010	07/31/16		Restek, Lot A085338		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00009	05/30/15		Restek, Lot A084334		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00005	05/04/13	12/04/12	Acetonitrile, Lot Acetonitrile_00004	25 mL	HPEGDNTA_00005	1.25 mL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00005	01/01/17		Restek, Lot A085885		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00001	05/11/13	12/11/12	Methanol, Lot Methanol_00001	25 mL	HPNGTA_00012	1.25 mL	Nitroglycerin	50 ug/mL
					HPPETNTA_00010	1.25 mL	PETN	50 ug/mL
..HPNGTA_00012	05/30/16		Restek, Lot A082035		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00010	11/30/16		Restek, Lot A085138		(Purchased Reagent)		PETN	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.HPPASP_00008	05/04/13	12/04/12	Acetonitrile, Lot Acetonitrile_00004	25 mL	HPPATA_00007	1.25 mL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00007	01/04/17		restek, Lot A086505		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330L3_00004	05/04/13	08/29/12	25% 0.1%HoAC in ACN, Lot 4457-51G	50 mL	HP34DNTSU_00009	20 uL	3,4-Dinitrotoluene	20 ng/mL
					HP8330SP_00011	20 uL	3,5-Dinitroaniline	20 ng/mL
							1,3,5-Trinitrobenzene	20 ng/mL
							1,3-Dinitrobenzene	20 ng/mL
							2,4,6-Trinitrotoluene	20 ng/mL
							2,4-Dinitrotoluene	20 ng/mL
							2,6-Dinitrotoluene	20 ng/mL
							2-Amino-4,6-dinitrotoluene	20 ng/mL
							2-Nitrotoluene	20 ng/mL
							3-Nitrotoluene	20 ng/mL
							4-Amino-2,6-dinitrotoluene	20 ng/mL
							4-Nitrotoluene	20 ng/mL
							HMX	20 ng/mL
							Nitrobenzene	20 ng/mL
							RDX	20 ng/mL
							Tetryl	20 ng/mL
					HPEGDNSP_00005	20 uL	Ethylene glycol dinitrate	20 ng/mL
					HPNGPETNSP_00001	20 uL	Nitroglycerin	20 ng/mL
							PETN	20 ng/mL
					HPPASP_00008	50 uL	2,4,6-Trinitrophenol	50 ng/mL
.HP34DNTSU_00009	05/18/13	12/18/12	Acetonitrile, Lot Acetonitrite_00001	50 mL	HP8330SU_00009	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00009	03/31/17		Restek, Lot A087054		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00011	05/30/13	12/05/12	Acetonitrile, Lot 732	50 mL	HP35DNATA_00010	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00009	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00010	07/31/16		Restek, Lot A085338		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00009	05/30/15		Restek, Lot A084334		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00005	05/04/13	12/04/12	Acetonitrile, Lot Acetonitrile_00004	25 mL	HPEGDNTA_00005	1.25 mL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00005	01/01/17		Restek, Lot A085885		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00001	05/11/13	12/11/12	Methanol, Lot Methanol_00001	25 mL	HPNGTA_00012	1.25 mL	Nitroglycerin	50 ug/mL
					HPPETNTA_00010	1.25 mL	PETN	50 ug/mL
..HPNGTA_00012	05/30/16		Restek, Lot A082035		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00010	11/30/16		Restek, Lot A085138		(Purchased Reagent)		PETN	1000 ug/mL
.HPPASP_00008	05/04/13	12/04/12	Acetonitrile, Lot Acetonitrile_00004	25 mL	HPPATA_00007	1.25 mL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00007	01/04/17		restek, Lot A086505		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330L4_00004	05/04/13	08/29/12	25% 0.1%HoAC in ACN, Lot 4457-51G	50 mL	HP34DNTSU_00009	50 uL	3,4-Dinitrotoluene	50 ng/mL
					HP8330SP_00011	50 uL	3,5-Dinitroaniline	50 ng/mL
							1,3,5-Trinitrobenzene	50 ng/mL
							1,3-Dinitrobenzene	50 ng/mL
							2,4,6-Trinitrotoluene	50 ng/mL
							2,4-Dinitrotoluene	50 ng/mL
							2,6-Dinitrotoluene	50 ng/mL
							2-Amino-4,6-dinitrotoluene	50 ng/mL
							2-Nitrotoluene	50 ng/mL
							3-Nitrotoluene	50 ng/mL
							4-Amino-2,6-dinitrotoluene	50 ng/mL
							4-Nitrotoluene	50 ng/mL
							HMX	50 ng/mL
							Nitrobenzene	50 ng/mL
							RDX	50 ng/mL
							Tetryl	50 ng/mL
					HPEGDNSP_00005	50 uL	Ethylene glycol dinitrate	50 ng/mL
					HPNGPETNSP_00001	50 uL	Nitroglycerin	50 ng/mL
							PETN	50 ng/mL
					HPPASP_00008	100 uL	2,4,6-Trinitrophenol	100 ng/mL
.HP34DNTSU_00009	05/18/13	12/18/12	Acetonitrile, Lot Acetonitrite_00001	50 mL	HP8330SU_00009	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00009	03/31/17		Restek, Lot A087054		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00011	05/30/13	12/05/12	Acetonitrile, Lot 732	50 mL	HP35DNATA_00010	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00009	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL

Lab Name: TestAmerica Sacramento Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00010	07/31/16		Restek, Lot A085338		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00009	05/30/15		Restek, Lot A084334		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00005	05/04/13	12/04/12	Acetonitrile, Lot Acetonitrile_00004	25 mL	HPEGDNTA_00005	1.25 mL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00005	01/01/17		Restek, Lot A085885		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00001	05/11/13	12/11/12	Methanol, Lot Methanol_00001	25 mL	HPNGTA_00012	1.25 mL	Nitroglycerin	50 ug/mL
					HPPETNTA_00010	1.25 mL	PETN	50 ug/mL
..HPNGTA_00012	05/30/16		Restek, Lot A082035		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00010	11/30/16		Restek, Lot A085138		(Purchased Reagent)		PETN	1000 ug/mL
.HPPASP_00008	05/04/13	12/04/12	Acetonitrile, Lot Acetonitrile_00004	25 mL	HPPATA_00007	1.25 mL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00007	01/04/17		restek, Lot A086505		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330L5_00007	05/04/13	01/04/13	25% 1%HoAC in ACN 75, Lot 4457-63F	100 mL	HP34DNTSU_00009	200 uL	3,4-Dinitrotoluene	100 ng/mL
					HP8330SP_00011	200 uL	3,5-Dinitroaniline	100 ng/mL
							1,3,5-Trinitrobenzene	100 ng/mL
							1,3-Dinitrobenzene	100 ng/mL
							2,4,6-Trinitrotoluene	100 ng/mL
							2,4-Dinitrotoluene	100 ng/mL
							2,6-Dinitrotoluene	100 ng/mL
							2-Amino-4,6-dinitrotoluene	100 ng/mL
							2-Nitrotoluene	100 ng/mL
							3-Nitrotoluene	100 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Amino-2,6-dinitrotoluene	100 ng/mL
							4-Nitrotoluene	100 ng/mL
							HMX	100 ng/mL
							Nitrobenzene	100 ng/mL
							RDX	100 ng/mL
							Tetryl	100 ng/mL
					HPEGDNSP_00005	200 uL	Ethylene glycol dinitrate	100 ng/mL
					HPNGPETNSP_00001	200 uL	Nitroglycerin	100 ng/mL
							PETN	100 ng/mL
					HPPASP_00008	400 uL	2,4,6-Trinitrophenol	200 ng/mL
.HP34DNTSU_00009	05/18/13	12/18/12	Acetonitrile, Lot Acetonitrite_00001	50 mL	HP8330SU_00009	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00009	03/31/17		Restek, Lot A087054		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00011	05/30/13	12/05/12	Acetonitrile, Lot 732	50 mL	HP35DNATA_00010	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00009	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00010	07/31/16		Restek, Lot A085338		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00009	05/30/15		Restek, Lot A084334		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00005	05/04/13	12/04/12	Acetonitrile, Lot Acetonitrile_00004	25 mL	HPEGDNTA_00005	1.25 mL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00005	01/01/17		Restek, Lot A085885		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00001	05/11/13	12/11/12	Methanol, Lot Methanol_00001	25 mL	HPNGTA_00012	1.25 mL	Nitroglycerin	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					HPPETNTA_00010	1.25 mL	PETN	50 ug/mL
..HPNGTA_00012	05/30/16		Restek, Lot A082035		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00010	11/30/16		Restek, Lot A085138		(Purchased Reagent)		PETN	1000 ug/mL
.HPPASP_00008	05/04/13	12/04/12	Acetonitrile, Lot Acetonitrile_00004	25 mL	HPPATA_00007	1.25 mL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00007	01/04/17		restek, Lot A086505		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330L5_00009	05/04/13	03/04/13	25% 1%HoAC in ACN 75, Lot 4457-79F	50 mL	HP8330L6_00007	25 mL	3,4-Dinitrotoluene	100 ng/mL
							1,3,5-Trinitrobenzene	100 ng/mL
							1,3-Dinitrobenzene	100 ng/mL
							2,4,6-Trinitrotoluene	100 ng/mL
							2,4-Dinitrotoluene	100 ng/mL
							2,6-Dinitrotoluene	100 ng/mL
							2-Amino-4,6-dinitrotoluene	100 ng/mL
							2-Nitrotoluene	100 ng/mL
							3-Nitrotoluene	100 ng/mL
							4-Amino-2,6-dinitrotoluene	100 ng/mL
							4-Nitrotoluene	100 ng/mL
							HMX	100 ng/mL
							Nitrobenzene	100 ng/mL
							RDX	100 ng/mL
							Tetryl	100 ng/mL
							Nitroglycerin	100 ng/mL
							PETN	100 ng/mL
.HP8330L6_00007	05/04/13	01/05/13	25% 0.1%HoAC in ACN, Lot 4457-63F	100 mL	HP34DNTSU_00009	400 uL	3,4-Dinitrotoluene	200 ng/mL
					HP8330SP_00011	400 uL	1,3,5-Trinitrobenzene	200 ng/mL
							1,3-Dinitrobenzene	200 ng/mL
							2,4,6-Trinitrotoluene	200 ng/mL
							2,4-Dinitrotoluene	200 ng/mL
							2,6-Dinitrotoluene	200 ng/mL
							2-Amino-4,6-dinitrotoluene	200 ng/mL
							2-Nitrotoluene	200 ng/mL
							3-Nitrotoluene	200 ng/mL
							4-Amino-2,6-dinitrotoluene	200 ng/mL
							4-Nitrotoluene	200 ng/mL
							HMX	200 ng/mL
							Nitrobenzene	200 ng/mL
							RDX	200 ng/mL
							Tetryl	200 ng/mL
					HPNGPETNSP_00001	400 uL	Nitroglycerin	200 ng/mL
							PETN	200 ng/mL
..HP34DNTSU_00009	05/18/13	12/18/12	Acetonitrile, Lot Acetonitrite_00001	50 mL	HP8330SU_00009	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
...HP8330SU_00009	03/31/17		Restek, Lot A087054		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
..HP8330SP_00011	05/30/13	12/05/12	Acetonitrile, Lot 732	50 mL	HP8330TA_00009	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
...HP8330TA_00009	05/30/15	Restek, Lot A084334			(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
..HPNGPETNSP_00001	05/11/13	12/11/12	Methanol, Lot Methanol_00001	25 mL	HPNGTA_00012	1.25 mL	Nitroglycerin	50 ug/mL
					HPPETNTA_00010	1.25 mL	PETN	50 ug/mL
...HPNGTA_00012	05/30/16	Restek, Lot A082035			(Purchased Reagent)		Nitroglycerin	1000 ug/mL
...HPPETNTA_00010	11/30/16	Restek, Lot A085138			(Purchased Reagent)		PETN	1000 ug/mL
HP8330L6_00007	05/04/13	01/05/13	25% 0.1%HoAC in ACN, Lot 4457-63F	100 mL	HP34DNTSU_00009	400 uL	3,4-Dinitrotoluene	200 ng/mL
					HP8330SP_00011	400 uL	3,5-Dinitroaniline	200 ng/mL
							1,3,5-Trinitrobenzene	200 ng/mL
							1,3-Dinitrobenzene	200 ng/mL
							2,4,6-Trinitrotoluene	200 ng/mL
							2,4-Dinitrotoluene	200 ng/mL
							2,6-Dinitrotoluene	200 ng/mL
							2-Amino-4,6-dinitrotoluene	200 ng/mL
							2-Nitrotoluene	200 ng/mL
							3-Nitrotoluene	200 ng/mL
							4-Amino-2,6-dinitrotoluene	200 ng/mL
							4-Nitrotoluene	200 ng/mL
							HMX	200 ng/mL
							Nitrobenzene	200 ng/mL
							RDX	200 ng/mL
							Tetryl	200 ng/mL
					HPEGDNSP_00005	400 uL	Ethylene glycol dinitrate	200 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					HPNGPETNSP_00001	400 uL	Nitroglycerin	200 ng/mL
							PETN	200 ng/mL
					HPPASP_00008	1000 uL	2,4,6-Trinitrophenol	500 ng/mL
.HP34DNTSU_00009	05/18/13	12/18/12	Acetonitrile, Lot Acetonitrite_00001	50 mL	HP8330SU_00009	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00009	03/31/17		Restek, Lot A087054		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00011	05/30/13	12/05/12	Acetonitrile, Lot 732	50 mL	HP35DNATA_00010	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00009	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00010	07/31/16		Restek, Lot A085338		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00009	05/30/15		Restek, Lot A084334		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00005	05/04/13	12/04/12	Acetonitrile, Lot Acetonitrile_00004	25 mL	HPEGDNTA_00005	1.25 mL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00005	01/01/17		Restek, Lot A085885		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00001	05/11/13	12/11/12	Methanol, Lot Methanol_00001	25 mL	HPNGTA_00012	1.25 mL	Nitroglycerin	50 ug/mL
					HPPETNTA_00010	1.25 mL	PETN	50 ug/mL
..HPNGTA_00012	05/30/16		Restek, Lot A082035		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00010	11/30/16		Restek, Lot A085138		(Purchased Reagent)		PETN	1000 ug/mL
.HPPASP_00008	05/04/13	12/04/12	Acetonitrile, Lot Acetonitrile_00004	25 mL	HPPATA_00007	1.25 mL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00007	01/04/17		restek, Lot A086505		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
HP8330L7_00004	05/04/13	08/29/12	25% 0.1%HoAC in ACN, Lot 4457-51G	25 mL	HP34DNTSU_00009	150 uL	3,4-Dinitrotoluene	300 ng/mL
					HP8330SP_00011	250 uL	3,5-Dinitroaniline	500 ng/mL
							1,3,5-Trinitrobenzene	500 ng/mL
							1,3-Dinitrobenzene	500 ng/mL
							2,4,6-Trinitrotoluene	500 ng/mL
							2,4-Dinitrotoluene	500 ng/mL
							2,6-Dinitrotoluene	500 ng/mL
							2-Amino-4,6-dinitrotoluene	500 ng/mL
							2-Nitrotoluene	500 ng/mL
							3-Nitrotoluene	500 ng/mL
							4-Amino-2,6-dinitrotoluene	500 ng/mL
							4-Nitrotoluene	500 ng/mL
							HMX	500 ng/mL
							Nitrobenzene	500 ng/mL
							RDX	500 ng/mL
							Tetryl	500 ng/mL
					HPEGDNSP_00005	250 uL	Ethylene glycol dinitrate	500 ng/mL
					HPNGPETNSP_00001	250 uL	Nitroglycerin	500 ng/mL
							PETN	500 ng/mL
					HPPASP_00008	500 uL	2,4,6-Trinitrophenol	1000 ng/mL
.HP34DNTSU_00009	05/18/13	12/18/12	Acetonitrile, Lot Acetonitrite_00001	50 mL	HP8330SU_00009	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00009	03/31/17		Restek, Lot A087054		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00011	05/30/13	12/05/12	Acetonitrile, Lot 732	50 mL	HP35DNATA_00010	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00009	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00010	07/31/16		Restek, Lot A085338		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00009	05/30/15		Restek, Lot A084334		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL

Lab Name: TestAmerica Sacramento Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00005	05/04/13	12/04/12	Acetonitrile, Lot Acetonitrile_00004	25 mL	HPEGDNTA_00005	1.25 mL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00005	01/01/17		Restek, Lot A085885		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00001	05/11/13	12/11/12	Methanol, Lot Methanol_00001	25 mL	HPNGTA_00012	1.25 mL	Nitroglycerin	50 ug/mL
					HPPETNTA_00010	1.25 mL	PETN	50 ug/mL
..HPNGTA_00012	05/30/16		Restek, Lot A082035		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00010	11/30/16		Restek, Lot A085138		(Purchased Reagent)		PETN	1000 ug/mL
.HPPASP_00008	05/04/13	12/04/12	Acetonitrile, Lot Acetonitrile_00004	25 mL	HPPATA_00007	1.25 mL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00007	01/04/17		restek, Lot A086505		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330L8_00004	05/04/13	08/29/12	25% 0.1%HoAC in ACN, Lot 4457-51G	25 mL	HP34DNTSU_00009	250 uL	3,4-Dinitrotoluene	500 ng/mL
					HP8330SP_00011	500 uL	3,5-Dinitroaniline	1000 ng/mL
							1,3,5-Trinitrobenzene	1000 ng/mL
							1,3-Dinitrobenzene	1000 ng/mL
							2,4,6-Trinitrotoluene	1000 ng/mL
							2,4-Dinitrotoluene	1000 ng/mL
							2,6-Dinitrotoluene	1000 ng/mL
							2-Amino-4,6-dinitrotoluene	1000 ng/mL
							2-Nitrotoluene	1000 ng/mL
							3-Nitrotoluene	1000 ng/mL
							4-Amino-2,6-dinitrotoluene	1000 ng/mL
							4-Nitrotoluene	1000 ng/mL
							HMX	1000 ng/mL
							Nitrobenzene	1000 ng/mL
							RDX	1000 ng/mL
							Tetryl	1000 ng/mL
					HPEGDNSP_00005	500 uL	Ethylene glycol dinitrate	1000 ng/mL
					HPNGPETNSP_00001	500 uL	Nitroglycerin	1000 ng/mL
							PETN	1000 ng/mL
					HPPASP_00008	1000 uL	2,4,6-Trinitrophenol	2000 ng/mL
.HP34DNTSU_00009	05/18/13	12/18/12	Acetonitrile, Lot Acetonitrite_00001	50 mL	HP8330SU_00009	2.5 mL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00009	03/31/17		Restek, Lot A087054		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00011	05/30/13	12/05/12	Acetonitrile, Lot 732	50 mL	HP35DNATA_00010	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00009	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL

Lab Name: TestAmerica Sacramento Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00010	07/31/16		Restek, Lot A085338		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00009	05/30/15		Restek, Lot A084334		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00005	05/04/13	12/04/12	Acetonitrile, Lot Acetonitrile_00004	25 mL	HPEGDNTA_00005	1.25 mL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00005	01/01/17		Restek, Lot A085885		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00001	05/11/13	12/11/12	Methanol, Lot Methanol_00001	25 mL	HPNGTA_00012	1.25 mL	Nitroglycerin	50 ug/mL
					HPPETNTA_00010	1.25 mL	PETN	50 ug/mL
..HPNGTA_00012	05/30/16		Restek, Lot A082035		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00010	11/30/16		Restek, Lot A085138		(Purchased Reagent)		PETN	1000 ug/mL
.HPPASP_00008	05/04/13	12/04/12	Acetonitrile, Lot Acetonitrile_00004	25 mL	HPPATA_00007	1.25 mL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00007	01/04/17		restek, Lot A086505		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330SP_00011	05/30/13	12/05/12	Acetonitrile, Lot 732	50 mL	HP35DNATA_00010	2.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00009	2.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL

Lab Name: TestAmerica Sacramento Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetryl	50 ug/mL
.HP35DNATA_00010	07/31/16	Restek, Lot A085338			(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
.HP8330TA_00009	05/30/15	Restek, Lot A084334			(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
HPNCSP_00007	04/05/13	11/05/12	Acetone, Lot Acetone_00004	200 mL	HPNCTA_00001	0.102 g	Nitrocellulose	510 ug/mL
.HPNCTA_00001	03/19/17	Theater Affects, Lot 031912			(Purchased Reagent)		Nitrocellulose	1 g/g
HPNGPETNSP_00002	07/22/13	01/22/13	Methanol, Lot Methanol_00004	25 mL	HPNGTA_00014	1.25 mL	Nitroglycerin	50 ug/mL
					HPPETNTA_00012	1.25 mL	PETN	50 ug/mL
.HPNGTA_00014	07/22/13	Restek, Lot A087039			(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.HPPETNTA_00012	07/22/13	Restek, Lot A085138			(Purchased Reagent)		PETN	1000 ug/mL
HPNQ2xMDL_00003	04/15/13	01/04/13	DI Water, Lot M01022012	4 mL	HPNQL2_00003	1 mL	Nitroguanidine	5 ng/mL
.HPNQL2_00003	04/15/13	10/16/12	Water, Lot M10152012	50 mL	HPNQSP_00006	20 uL	Nitroguanidine	20 ng/mL
..HPNQSP_00006	04/15/13	10/15/12	Methanol, Lot K18E18	25 mL	HPNQTA_00002	1.25 mL	Nitroguanidine	50 ug/mL
...HPNQTA_00002	04/15/13	Restek, Lot A076817			(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQIC_00002	12/12/12	06/12/12	Water, Lot NA	50 mL	HPNQTA_00009	0.1 mL	Nitroguanidine	200 ng/mL
.HPNQTA_00009	12/12/12	AccuStandard, Inc, Lot 211111014			(Purchased Reagent)		Nitroguanidine	100 ug/mL
HPNQL2_00003	04/15/13	10/16/12	Water, Lot M10152012	50 mL	HPNQSP_00006	20 uL	Nitroguanidine	20 ng/mL
.HPNQSP_00006	04/15/13	10/15/12	Methanol, Lot K18E18	25 mL	HPNQTA_00002	1.25 mL	Nitroguanidine	50 ug/mL
..HPNQTA_00002	04/15/13	Restek, Lot A076817			(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL3_00003	04/15/13	10/12/12	Water, Lot M10152012	50 mL	HPNQSP_00006	50 uL	Nitroguanidine	50 ng/mL
.HPNQSP_00006	04/15/13	10/15/12	Methanol, Lot K18E18	25 mL	HPNQTA_00002	1.25 mL	Nitroguanidine	50 ug/mL
..HPNQTA_00002	04/15/13	Restek, Lot A076817			(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL4_00003	04/15/13	10/16/12	Water, Lot M10152012	50 mL	HPNQSP_00006	100 uL	Nitroguanidine	100 ng/mL
.HPNQSP_00006	04/15/13	10/15/12	Methanol, Lot K18E18	25 mL	HPNQTA_00002	1.25 mL	Nitroguanidine	50 ug/mL
..HPNQTA_00002	04/15/13	Restek, Lot A076817			(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL5_00003	04/15/13	10/16/12	Water, Lot M10152012	50 mL	HPNQSP_00006	200 uL	Nitroguanidine	200 ng/mL
.HPNQSP_00006	04/15/13	10/15/12	Methanol, Lot K18E18	25 mL	HPNQTA_00002	1.25 mL	Nitroguanidine	50 ug/mL
..HPNQTA_00002	04/15/13	Restek, Lot A076817			(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL6_00003	04/15/13	10/16/12	Water, Lot M10152012	25 mL	HPNQSP_00006	250 uL	Nitroguanidine	500 ng/mL
.HPNQSP_00006	04/15/13	10/15/12	Methanol, Lot K18E18	25 mL	HPNQTA_00002	1.25 mL	Nitroguanidine	50 ug/mL
..HPNQTA_00002	04/15/13	Restek, Lot A076817			(Purchased Reagent)		Nitroguanidine	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-21987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
HPNQL7_00003	04/15/13	10/16/12	Water, Lot M10152012	25 mL	HPNQSP_00006	500 uL	Nitroguanidine	1000 ng/mL
.HPNQSP_00006	04/15/13	10/15/12	Methanol, Lot K18E18	25 mL	HPNQTA_00002	1.25 mL	Nitroguanidine	50 ug/mL
..HPNQTA_00002	04/15/13	Restek, Lot A076817			(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQSP_00006	04/15/13	10/15/12	Methanol, Lot K18E18	25 mL	HPNQTA_00002	1.25 mL	Nitroguanidine	50 ug/mL
.HPNQTA_00002	04/15/13	Restek, Lot A076817			(Purchased Reagent)		Nitroguanidine	1000 ug/mL
WC-353.2-ICV_00020	04/01/13	03/01/13	DI Water, Lot xxxxxxx	100 mL	WC-N02-1000_00016	0.05 mL	Nitrate Nitrite as N	1 mg/L as N
							Nitrocellulose	8.403 mg/L as N
					WC-N03-1000_00006	0.05 mL	Nitrate Nitrite as N	1 mg/L as N
							Nitrocellulose	8.403 mg/L as N
.WC-N02-1000_00016	08/14/13	CPI International, Lot 12B200			(Purchased Reagent)		Nitrate Nitrite as N	1000 mg/L as N
							Nitrocellulose	8403 mg/L as N
.WC-N03-1000_00006	08/14/13	RICCA, Lot 1204143			(Purchased Reagent)		Nitrate Nitrite as N	1000 mg/L as N
							Nitrocellulose	8403 mg/L as N
WC-353.2-L1_00019	04/01/13	03/01/13	DI Water, Lot xxxx	100 mL	WC-353.2-INT_00019	0.05 mL	Nitrocellulose	0.42015 mg/L as N
.WC-353.2-INT_00019	04/01/13	03/01/13	DI Water, Lot xxxxxxx	10 mL	WC-N02-1000_00017	0.5 mL	Nitrocellulose	840.3 mg/L as N
					WC-N03-1000_00007	0.5 mL	Nitrocellulose	840.3 mg/L as N
..WC-N02-1000_00017	11/09/13	ERA, Lot 210912			(Purchased Reagent)		Nitrocellulose	8403 mg/L as N
..WC-N03-1000_00007	04/19/13	ERA, Lot 2040212			(Purchased Reagent)		Nitrocellulose	8403 mg/L as N
WC-353.2-L4_00014	04/01/13	03/01/13	DI Water, Lot xxxx	100 mL	WC-353.2-INT_00019	1 mL	Nitrate Nitrite as N	1 mg/L as N
							Nitrocellulose	8.403 mg/L as N
.WC-353.2-INT_00019	04/01/13	03/01/13	DI Water, Lot xxxxxxx	10 mL	WC-N02-1000_00017	0.5 mL	Nitrate Nitrite as N	100 mg/L as N
							Nitrocellulose	840.3 mg/L as N
					WC-N03-1000_00007	0.5 mL	Nitrate Nitrite as N	100 mg/L as N
							Nitrocellulose	840.3 mg/L as N
..WC-N02-1000_00017	11/09/13	ERA, Lot 210912			(Purchased Reagent)		Nitrate Nitrite as N	1000 mg/L as N
							Nitrocellulose	8403 mg/L as N
..WC-N03-1000_00007	04/19/13	ERA, Lot 2040212			(Purchased Reagent)		Nitrate Nitrite as N	1000 mg/L as N
							Nitrocellulose	8403 mg/L as N

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

rec'd SG 8-24-12

Product Description:

Name:	Mercury	Source Material:	Mercury Metal
Part Number:	**10 33-1**	Material Purity:	99.9998%
Lot Number:	**1221902**	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: August 6, 2012
Shipped Date: AUG 2 0 2012
Expiration Date: AUG 2 0 2013
Certificate Issue Date: August 7, 2012

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.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

Certificate of Analysis

Aroclor 1016 Solution

Product Number: PP-281 **Page:** 1 of 1

Lot Number: CF-0785 **Lot Issue Date:** 26-Feb-2009 **Expiration Date:** 31-Mar-2017

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
Aroclor 1016	012674-11-2	F216A	100.3 ± 0.5 µg/mL

Matrix: hexane

Storage: Store at Room Temperature (18-25° 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

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

Certificate of Analysis

Aroclor 1221 Solution

Product Number: PP-291 **Page:** 1 of 1

Lot Number: CB-1791Z **Lot Issue Date:** 01-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
Aroclor 1221	011104-28-2	AM-24	100.4 ± 0.5 µg/mL

Matrix: hexane

Storage: Store at Room Temperature (18-25° 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

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

Aroclor 1232 Solution

Product Number: PP-301 **Page:** 1 of 1

Lot Number: CG-3213 **Lot Issue Date:** Sep-2010 **Expiration Date:** Oct-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
Aroclor 1232	011141-16-5	NT01717	100.3 ± 0.5 µg/mL

Matrix: hexane

Storage: Store at Room Temperature (18-25° C)

Received 2/28/12

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

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
www.ultrasci.com

William J. Leahy
Quality Assurance Manager

Certificate of Analysis

Aroclor 1242 Solution

Product Number: PP-311 **Page:** 1 of 1

Lot Number: CH-2711 **Lot Issue Date:** 25-Aug-2011 **Expiration Date:** 30-Sep-2019

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
Aroclor 1242	053469-21-9	NT01020	100.4 ± 0.5 µg/mL

Matrix: hexane

Storage: Store at Room Temperature (18-25° 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. 09-1909

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

Certificate of Analysis

ULTRA SCIENTIFIC
Analytical Solutions

Aroclor 1248 Solution

Product Number: PP-341 **Page:** 1 of 1

Lot Number: CH-3256 **Lot Issue Date:** 27-Oct-2011 **Expiration Date:** 30-Nov-2019

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
Aroclor 1248	012672-29-6	NT01718	100.5 ± 0.5 µg/mL

Matrix: hexane

Storage: Store at Room Temperature (18-25° C)

RECEIVED 2/28/12

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

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

Certificate of Analysis

ULTRA SCIENTIFIC
Analytical Solutions

Aroclor 1254 Solution

Product Number: PP-351 **Page:** 1 of 1

Lot Number: CH-3706 **Lot Issue Date:** 28-Nov-2011 **Expiration Date:** 31-Dec-2019

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
Aroclor 1254	011097-69-1	RM00922	100.3 ± 0.5 µg/mL

Matrix: hexane

Storage: Store at Room Temperature (18-25° C)

RECEIVED 2/28/12

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

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

Certificate of Analysis

Aroclor 1260 Solution

Product Number: PP-361 **Page:** 1 of 1

Lot Number: CG-3829 **Lot Issue Date:** 04-Nov-2010 **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
Aroclor 1260	011096-82-5	NT01023	100.5 ± 0.5 µg/mL

Matrix: hexane

Storage: Store at Room Temperature (18-25° 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

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

JVIMS Received 12/13/11

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 32039 **Lot No.:** A082781

Description : Aroclor® 1016/1260 Mix

PCB Mix, Aroclor 1016/1260, 1,000µg/ml, Hexane, 1ml/ampule

Container Size : [5] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : [1] August 2018 **Storage:** 25°C nominal

Handling: This product contains PCB's

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	Grav.Uncert. (95% C.L.; K=2) [4]
1	Aroclor 1016	12674-11-2	----%	1,000.0 ug/mL	+/- 5.8275 ug/mL
2	Aroclor 1260	11096-82-5	----%	1,000.0 ug/mL	+/- 5.8275 ug/mL
Solvent:	Hexane	110-54-3	99%		

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

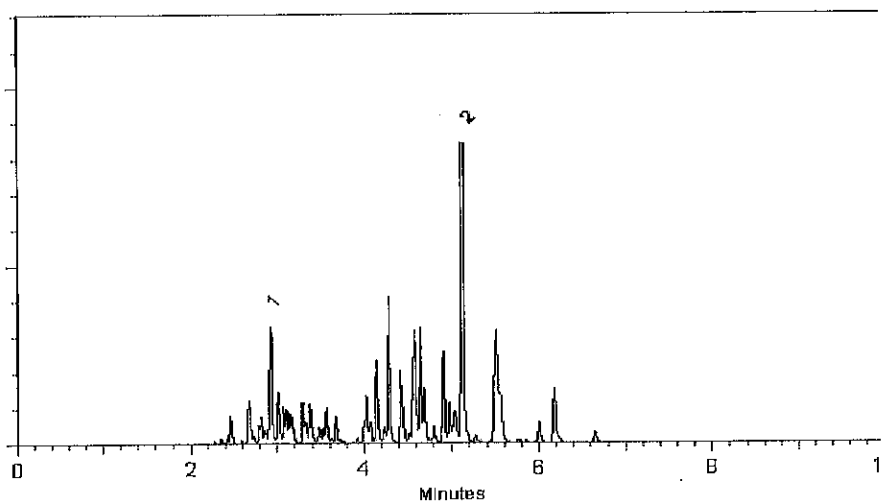
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



RESTEK

Certificate of Analysis

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 32009 **Lot No.:** A080551

Description : Aroclor® 1242 Standard

PCB Mix, Aroclor 1242, 1,000µg/ml, Hexane, 1ml/ampule

Container Size : [5] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : [1] April 2018 **Storage:** 25°C nominal

Handling: This product contains PCB's

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	% Grav.Uncert. (95% C.L.; K=2) [4]
1	Aroclor 1242	53469-21-9	----%	1,000.0 ug/ml	+/-0.58 %
Solvent:	Hexane	110-54-3	99%		

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

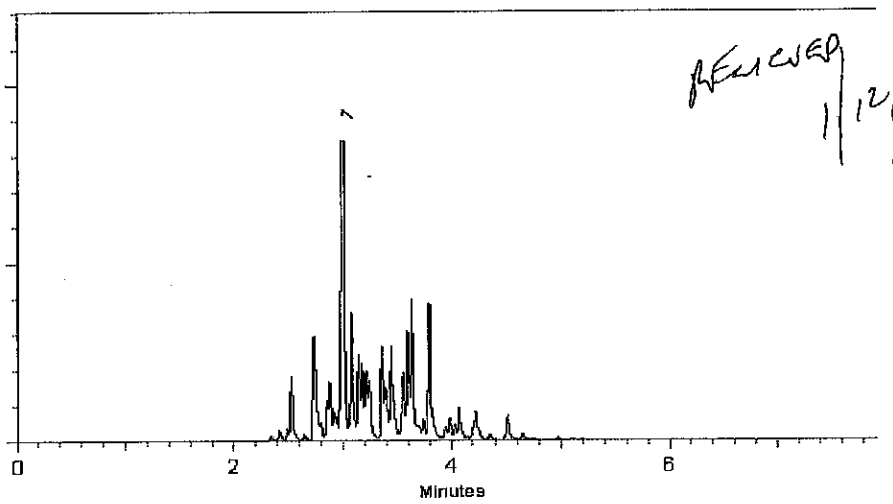
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



1 vial
RECEIVED
11/12/12
CSH

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Received 1/12/12
1 vial
L9F

Catalog No. : 32010 **Lot No.:** A082482

Description : Aroclor® 1248 Standard

PCB Mix, Aroclor 1248, 1,000µg/ml, Hexane, 1ml/ampule

Container Size : [5,1] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : July 2018 **Storage:** 25°C nominal

Handling: This product contains PCB's

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	Grav.Uncert. (95% C.L.; K=2) [4]
1	Aroclor 1248	12672-29-6	----%	1,000.0 ug/mL	+/- 5.9 ug/mL
Solvent:	Hexane	110-54-3	99%		

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

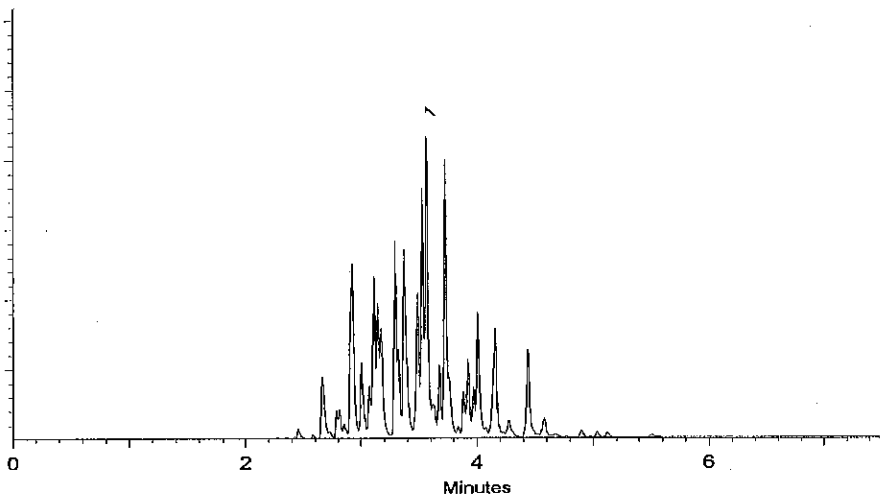
Carrier Gas:
hellium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



RESTEK

Certificate of Analysis

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 32007 Lot No.: A074947

Description : Aroclor® 1221 Standard

Expiration Date[1]: June 2017 Storage: Room Temperature

Handling: Contains PCB's. Warm & Sonicate Prior to Use

Elution Order	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	% Uncertainty [4] (95% C.L.; K=2)
1	Aroclor 1221	11104-28-2	----%	1,000.000 ug/ml	+/-0.59 %
Solvent:	Hexane	110-54-3	99%		

Column:
30m x.25mm x .2um
Rtx-CLPesticides (cat.# 11323)

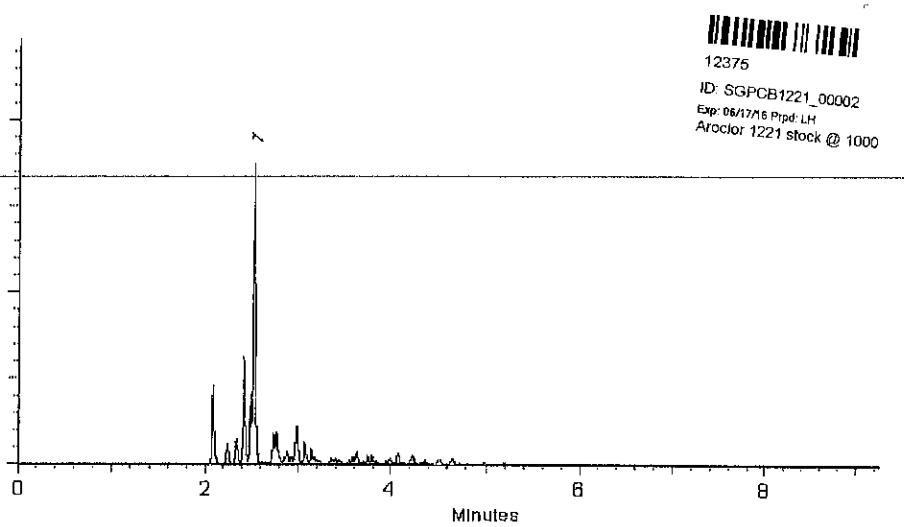
Carrier Gas:
hellum-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



Diana Shaffer
Diana Shaffer - QA Analyst

Date Passed: 24-May-2010 Balance: 1128360905

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.

Received 2 vials
E
7/27/16

RESTEK

Certificate of Analysis

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 32011 **Lot No.:** A076437

Description : Aroclor® 1254 Standard

Expiration Date[1]**:** September 2017 **Storage:** Room Temperature

Handling: This product contains PCB's

Elution Order	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	% Uncertainty [4] (95% C.L.; K=2)
1	Aroclor 1254	11097-69-1	----%	1,001.600 ug/ml	+/-0.59 %
Solvent:	Hexane	110-54-3	99%		

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

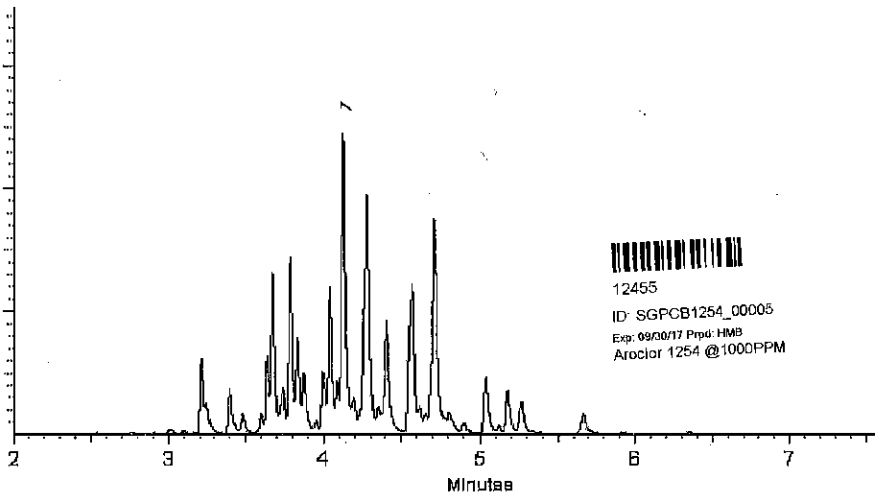
Carrier Gas:
hellum-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



Diane Shaffer - QA Analyst **Date Passed:** 23-Aug-2010 **Balance:** 1128360905

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.

Received 2 vials 7/23/11

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

Rcvd 7-21-11 cmk

Certificate of Composition

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 557670 **Lot No.:** A083000

Description : Custom Herbicide Methyl Esters Standard

Container Size : [5] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : [1] July 2013 **Storage:** 10°C or colder

Handling: This product is photosensitive.

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	Grav. Uncert. (95% C.L.; K=2) [4]
1	Dalapon methyl ester	17640-02-7	95%	3.99 ug/mL	+/- 0.03264 ug/mL
2	2,4-Dichlorophenyl acetic acid methyl ester	55954-23-9	99%	8.00 ug/mL	+/- 0.06544 ug/mL
3	Dicamba methyl ester	6597-78-0	99%	4.00 ug/mL	+/- 0.03272 ug/mL
4	MCPP (Mecoprop) methyl ester	2786-19-8	98%	799.68 ug/mL	+/- 4.74986 ug/mL
5	MCPA methyl ester	2436-73-9	99%	800.00 ng/mL	+/- 4.75176 ug/mL
6	Dichlorprop methyl ester	57153-17-0	99%	8.00 ug/mL	+/- 0.06544 ug/mL
7	2,4-D methyl ester	1928-38-7	98%	8.00 ug/mL	+/- 0.06542 ug/mL
8	Pentachloroanisole	1825-21-4	98%	2.00 ug/mL	+/- 0.1208 ug/mL
9	2,4,5-TP (silvex) methyl ester	4841-20-7	98%	2.00 ug/mL	+/- 0.1208 ug/mL
10	2,4,5-T methyl ester	1928-37-6	98%	2.00 ug/mL	+/- 0.1208 ug/mL
11	2,4-DB methyl ester	18625-12-2	99%	8.00 ug/mL	+/- 0.06544 ug/mL
12	Picloram methyl ester	14143-55-6	97%	7.99 ng/mL	+/- 0.06538 ug/mL
13	Dinoseb methyl ether	6099-79-2	99%	1.20 ug/mL	+/- 0.07251 ug/mL
Solvent:	Hexane	110-54-3	99%		

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

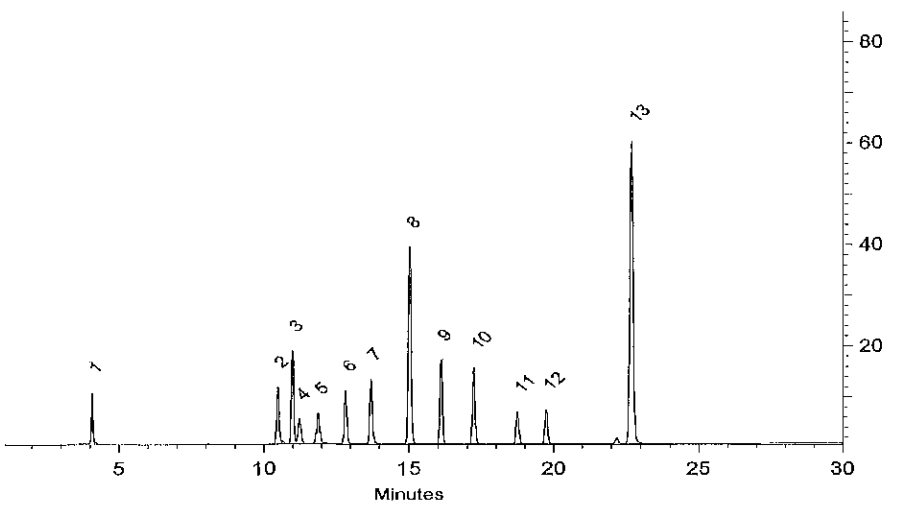
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



Rec'd 1/14/13 DB

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

ACCREDITED
Reference Material Producer
Certificate #3222.01

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. : 32268 **Lot No.:** A089363

Description : Pentachloroanisole Standard

Pentachloroanisole 1000ug/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 2014 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Pentachloroanisole	999.6 ug/mL	+/- 10.0697	ug/mL	Gravimetric
	CAS # 1825-21-4		+/- 32.9172	ug/mL	Unstressed
	Purity 98%		+/- 32.9172	ug/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

RESTEK

Certificate of Analysis

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 32007 **Lot No.:** A074947

Description : Aroclor® 1221 Standard

Expiration Date[1]**:** June 2017 **Storage:** Room Temperature

Handling: Contains PCB's. Warm & Sonicate Prior to Use

Elution Order	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	% Uncertainty [4] (95% C.L.; K=2)
1	Aroclor 1221	11104-28-2	----%	1,000.000 ug/ml	+/-0.59 %
Solvent:	Hexane	110-54-3	99%		

Column:
30m x .25mm x .2um
Rtx-CLPesticides (cat.# 11323)

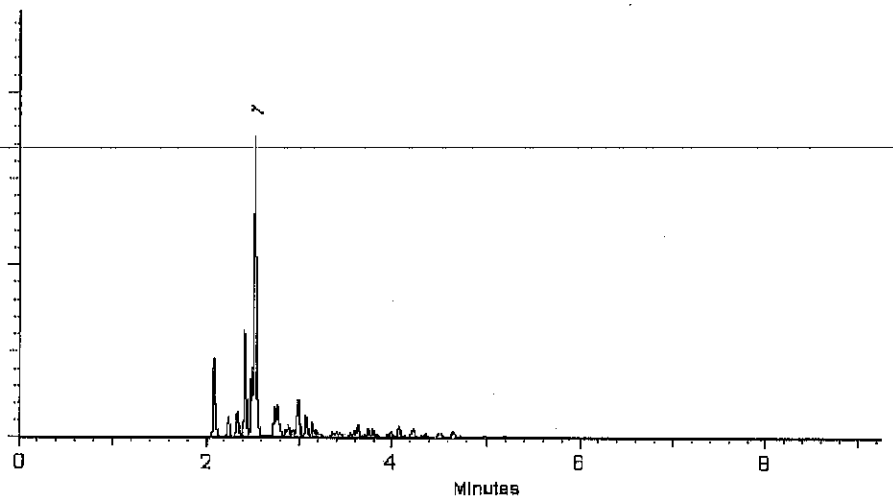
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



Diane Shaffer - QA Analyst **Date Passed:** 24-May-2010 **Balance:** 1128360905

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.

Received 2 vials
E
7/27/10

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: VGINTSTD_00001

		Expiration Date:	10/08/2011
Description:	INTERNAL STANDARD	Laboratory:	TestAmerica North Canton
No. of Bottles:	2	Prepared By:	Bolgrin, Deborah
Storage Location:	F022	Solvent:	MEOH
Reagent Volume:	50.000 mL	Solvent Lot:	50349
Creation Date:	04/08/2011		
Container(s):	12414, 12415		
Comment:			

Reagent Analyte Information

Analyte	Source ID	Source Expiration Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
Fluorobenzene	VGISSTOCK_00001	12/31/2012	2000.000	ug/mL	50.00000	ug/mL

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
VGISSTOCK_00001	IS FLOROBENZENE	ASTD	12/31/12	ULTRA SCIENTIFIC	CE-4128	STS-160	1.2500	mL

RESTEK

Certificate of Analysis

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 32011 **Lot No.:** A076437

Description : Aroclor® 1254 Standard

Expiration Date[1]**:** September 2017 **Storage:** Room Temperature

Handling: This product contains PCB's

Elution Order	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	% Uncertainty [4] (95% C.L.; K=2)
1	Aroclor 1254	11097-69-1	----%	1,001.600 ug/ml	+/-0.59 %
Solvent:	Hexane	110-54-3	99%		

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

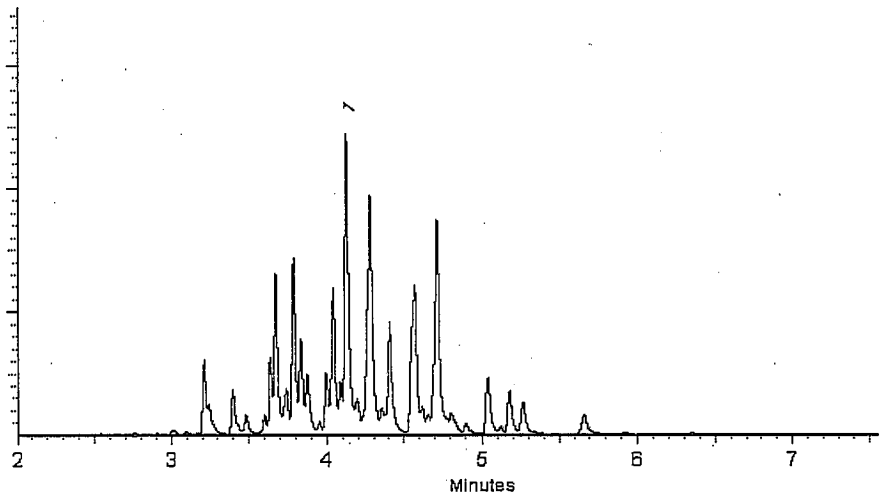
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



Diane Shaffer - QA Analyst **Date Passed:** 23-Aug-2010 **Balance:** 1128360905

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.

Received 2 vials 7/23/11

Certificate of Analysis

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

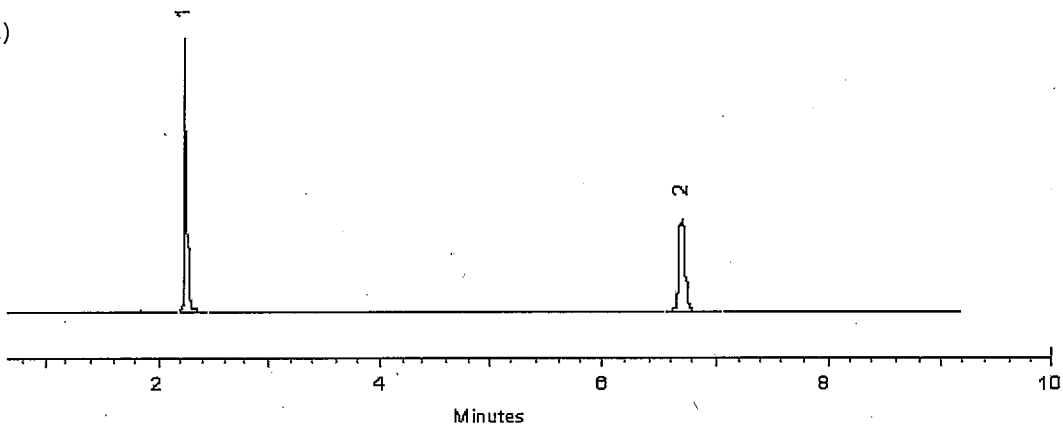
FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 32000 **Lot No.:** A057014
Description : Pesticide Surrogate Mix
Expiration Date[1]**:** June 2015 **Storage:** Refrigerate
Handling: Warm & Sonicate prior to use

Elution Order	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	Percent Uncertainty [4]
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	98%	200.018 ug/ml	+/-0.03 %
2	Decachlorobiphenyl	2051-24-3	99%	200.000 ug/ml	+/-0.03 %
Solvent:	Acetone	67-64-1	99%		

LEC 7/13/08
LOT

Column: 30m x .32mm x .25um
Rtx-CLPesticides II
Carrier Gas: helium @ 40cm/sec.
Temp. Program: 200°C to 300°C
@ 15°C/min. (hold 12 min.)
Inj. Temp: 250°C
Det. Temp: 300°C
Det. Type: ECD



Sara Eyster QA Analyst

Balance 1128342313

1 Expiration date of the unopened ampul stored at recommended temperature.
2 Purity was determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value rounded to the nearest LOWER whole percentage. In addition to detectors listed above, chemical identity and purity are confirmed using 1 or more of the following: MS, DSC, solid probe MS, GC/FPD, GC/NPD, GC/TC, FTIR, melting point, refractive index, and Karl Fisher. See data pack or contact Restek for further details.
3 Based upon gravimetric preperation with balance calibration verified using NIST traceable weights (seven mass levels).
4 Percent Uncertainty based upon balance AND ASTM Class A volumetric glassware accuracy.

ISO 9001 REGISTERED

Manufactured under Restek's ISO 9001 Registered Quality System
Certificate #FM80397

Tech Tip:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

Rcvd 12-8-11 Recd 3 vials

RESTEK

Certificate of Analysis

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No.: 32291 **Lot No.:** A076528

Description : Organochlorine Pesticide Mix AB #1

Expiration Date[1]**:** August 2014 **Storage:** Refrigerate

Elution Order	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	% Uncertainty [4] (95% C.L.; K=2)
1	alpha-BHC	319-84-6	99%	200.000 ug/ml	+/-0.59 %
2	gamma-BHC (Lindane)	58-89-9	99%	200.200 ug/ml	+/-0.59 %
3	beta-BHC	319-85-7	99%	200.000 ug/ml	+/-0.59 %
4	delta-BHC	319-86-8	99%	200.000 ug/ml	+/-0.59 %
5	Heptachlor	76-44-8	99%	200.000 ug/ml	+/-0.59 %
6	Aldrin	309-00-2	99%	200.000 ug/ml	+/-0.59 %
7	Heptachlor epoxide (isomer B)	1024-57-3	99%	200.000 ug/ml	+/-0.59 %
8	trans-Chlordane	5103-74-2	99%	200.000 ug/ml	+/-0.59 %
9	cis-Chlordane	5103-71-9	97%	200.014 ug/ml	+/-0.59 %
10	4,4'-DDE	72-55-9	99%	200.200 ug/ml	+/-0.59 %
11	Endosulfan I	959-98-8	99%	200.000 ug/ml	+/-0.59 %
12	Dieldrin	60-57-1	99%	200.200 ug/ml	+/-0.59 %
13	Endrin	72-20-8	97%	200.208 ug/ml	+/-0.59 %
14	4,4'-DDD	72-54-8	97%	200.014 ug/ml	+/-0.59 %
15	Endosulfan II	33213-65-9	99%	200.000 ug/ml	+/-0.59 %
16	4,4'-DDT	50-29-3	99%	200.000 ug/ml	+/-0.59 %
17	Endrin aldehyde	7421-93-4	98%	200.116 ug/ml	+/-0.59 %
18	Methoxychlor	72-43-5	99%	200.000 ug/ml	+/-0.59 %
19	Endosulfan sulfate	1031-07-8	99%	200.000 ug/ml	+/-0.59 %
20	Endrin ketone	53494-70-5	95%	200.260 ug/ml	+/-0.59 %
Solvent:	Hexane/Toluene (50:50)	110-54-3/108-88-3	99%		

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

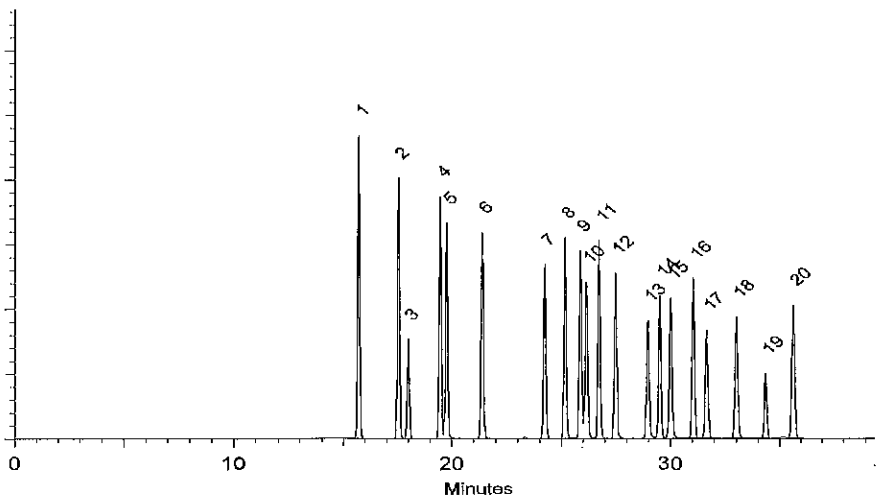
Carrier Gas:
hellium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

Organochlorine Pesticides Mixture

Product Number: PPM-808C **Page:** 1 of 2

Lot Number: CJ-3745 **Lot Issue Date:** 18-Oct-2012 **Expiration Date:** 30-Nov-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
aldrin	000309-00-2	RM00635	1005 ± 5 µg/mL
alpha-BHC	000319-84-6	RM02725	1005 ± 5 µg/mL
beta-BHC	000319-85-7	RM02724	1004 ± 5 µg/mL
delta-BHC	000319-86-8	RM02723	1002 ± 5 µg/mL
gamma-BHC	000058-89-9	RM02694	1003 ± 5 µg/mL
alpha-chlordane	005103-71-9	RM02742	1002 ± 5 µg/mL
gamma-chlordane	005103-74-2	RM02726	1005 ± 5 µg/mL
4,4'-DDD	000072-54-8	RM00615	1003 ± 5 µg/mL
4,4'-DDE	000072-55-9	RM02892	1004 ± 5 µg/mL
4,4'-DDT	000050-29-3	RM02881	1004 ± 5 µg/mL
dieldrin	000060-57-1	RM03957	1004 ± 5 µg/mL
endosulfan I	000959-98-8	RM00834	1004 ± 5 µg/mL
endosulfan II	033213-65-9	RM02905	1004 ± 5 µg/mL
endosulfan sulfate	001031-07-8	NT00714	1004 ± 5 µg/mL
endrin	000072-20-8	RM00557	1003 ± 5 µg/mL
endrin aldehyde	007421-93-4	RM04131	1004 ± 5 µg/mL
endrin ketone	053494-70-5	RM00212	1005 ± 5 µg/mL
heptachlor	000076-44-8	RM03111	1004 ± 5 µg/mL
heptachlor epoxide - isomer B	001024-57-3	RM05373	1002 ± 5 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.

ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01
ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

Recd 12/19/12

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

Organochlorine Pesticides Mixture

Product Number: PPM-808C **Page:** 2 of 2

Lot Number: CJ-3745 **Lot Issue Date:** 18-Oct-2012 **Expiration Date:** 30-Nov-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.

methoxychlor	000072-43-5	RM04555	1005 ± 5 µg/mL

Matrix: hexane/toluene (1:1)

Storage: Store at Room Temperature (18-25°C). Do Not Refrigerate.

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. 09-1069

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

ACCREDITED
Reference Material Producer
Certificate #3222.01

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.

Rec'd 7-24-12 2 vials

Catalog No. : 32074 **Lot No.:** A085642

Description : Pesticide Performance Eval Mix w/Surrogate

Performance Evaluation Std. 3/90 SOW w/surrogates 1-25ug/mL, Hexane, 1mL/ampul

Container Size : **Pkg Amt:**

Expiration Date : December 2015 **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	2,4,5,6-Tetrachloro-m-xylene	2.0 ug/mL	+/- 0.0332	ug/mL	Gravimetric
	CAS # 877-09-8		+/- 0.0770	ug/mL	Unstressed
	Purity 98%		+/- 0.1256	ug/mL	Stressed
2	alpha-BHC	1.0 ug/mL	+/- 0.0166	ug/mL	Gravimetric
	CAS # 319-84-6		+/- 0.0385	ug/mL	Unstressed
	Purity 99%		+/- 0.0628	ug/mL	Stressed
3	gamma-BHC (Lindane)	1.0 ug/mL	+/- 0.0166	ug/mL	Gravimetric
	CAS # 58-89-9		+/- 0.0385	ug/mL	Unstressed
	Purity 99%		+/- 0.0628	ug/mL	Stressed
4	beta-BHC	1.0 ug/mL	+/- 0.0166	ug/mL	Gravimetric
	CAS # 319-85-7		+/- 0.0385	ug/mL	Unstressed
	Purity 98%		+/- 0.0628	ug/mL	Stressed
5	Endrin	5.0 ug/mL	+/- 0.0808	ug/mL	Gravimetric
	CAS # 72-20-8		+/- 0.1917	ug/mL	Unstressed
	Purity 99%		+/- 0.3135	ug/mL	Stressed
6	4,4'-DDT	10.0 ug/mL	+/- 0.1615	ug/mL	Gravimetric
	CAS # 50-29-3		+/- 0.3834	ug/mL	Unstressed
	Purity 99%		+/- 0.6269	ug/mL	Stressed
7	Methoxychlor	25.0 ug/mL	+/- 0.4032	ug/mL	Gravimetric
	CAS # 72-43-5		+/- 0.9583	ug/mL	Unstressed
	Purity 99%		+/- 1.5672	ug/mL	Stressed
8	Decachlorobiphenyl	2.0 ug/mL	+/- 0.0332	ug/mL	Gravimetric
	CAS # 2051-24-3		+/- 0.0771	ug/mL	Unstressed
	Purity 99%		+/- 0.1256	ug/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Rec'd 12-8-11 3 vials

Catalog No. : 32000 **Lot No.:** A084532

Description : Pesticide Surrogate Mix

Pesticide Mix, EPA 8080, 8081, Surrogate Std 200µg/ml, Acetone, 1ml/ampule

Container Size : [5] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : [1] April 2019 **Storage:** 10°C or colder

Handling: This product contains PCBs.

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	Grav.Uncert. (95% C.L.; K=2) [4]
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	98%	200.0 ug/mL	+/- 1.1656 ug/mL
2	Decachlorobiphenyl	2051-24-3	99%	200.0 ug/mL	+/- 1.1655 ug/mL
Solvent:	Acetone	67-64-1	99%		

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

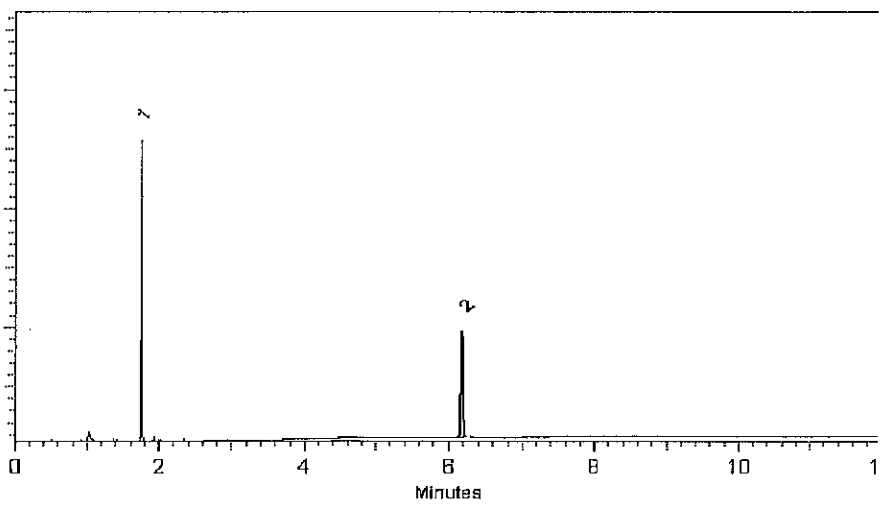
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



Certificate of Analysis

DESCRIPTION: Toxaphene

Rec'd 1-14-13 1vial

CATALOG NO.: 48103 MFG DATE: Dec-2012

LOT NO.: LB96954 EXPIRATION DATE: Dec-2015

SOLVENT: ISOOCTANE

ANALYTE	CAS NUMBER	PERCENT PURITY(1)	WEIGHT(2) CONCENTRATION	ANALYTICAL(3) CONCENTRATION	STD DEV	SUPELCO LOT NO
TOXAPHENE	8001-35-2	N/A (a)	1000	1010	+/- 18.6	LA47407

(1) Determined by capillary GC-FID, unless otherwise noted.
a) Complex mix - Can't Determine

(2) 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.

(3) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.

Duane Funk

Duane Funk
Quality Manager

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.

SUPELCO
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 566300 **Lot No.:** A081795

Description : Custom Revised 8270 Mix #1

Container Size : [5] 5 mL **Pkg Amt:** [5] > 2 mL

Expiration Date : [1] May 2016 **Storage:** 10°C or colder

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. [3] (weight/volume)	Grav.Uncert. [4] (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	99%	400.000 ug/mL	+/- 2.7 ug/mL
2	2-Fluorophenol	367-12-4	99%	400.000 ug/mL	+/- 2.7 ug/mL
3	2-Chlorophenol-d4	93951-73-6	99%	400.000 ug/mL	+/- 2.7 ug/mL
4	Phenol-d6	13127-88-3	99%	400.000 ug/mL	+/- 2.7 ug/mL
5	2-Chlorophenol	95-57-8	99%	400.000 ug/mL	+/- 3.0 ug/mL
6	Phenol	108-95-2	99%	400.000 ug/mL	+/- 3.0 ug/mL
7	1,4-Dichlorobenzene	106-46-7	99%	400.000 ug/mL	+/- 2.7 ug/mL
8	Benzyl alcohol	100-51-6	99%	400.000 ug/mL	+/- 2.7 ug/mL
9	2-Methylphenol (o-cresol)	95-48-7	99%	400.000 ug/mL	+/- 3.0 ug/mL
10	4-Methylphenol (p-cresol)	106-44-5	99%	400.000 ug/mL	+/- 3.0 ug/mL
11	2-Nitrophenol	88-75-5	99%	400.000 ug/mL	+/- 3.0 ug/mL
12	2,4-Dimethylphenol	105-67-9	99%	400.000 ug/mL	+/- 3.0 ug/mL
13	2,4-Dichlorophenol	120-83-2	99%	400.000 ug/mL	+/- 3.0 ug/mL
14	Benzoic acid	65-85-0	99%	400.000 ug/mL	+/- 3.0 ug/mL
15	4-Chloro-3-methylphenol	59-50-7	99%	400.000 ug/mL	+/- 3.0 ug/mL
16	2,4,6-Trichlorophenol	88-06-2	99%	400.000 ug/mL	+/- 3.0 ug/mL
17	2,4,5-Trichlorophenol	95-95-4	99%	400.000 ug/mL	+/- 3.0 ug/mL
18	2,4-Dinitrophenol	51-28-5	97%	399.989 ug/mL	+/- 3.0 ug/mL
19	2,3,5,6-Tetrachlorophenol	935-95-5	99%	400.000 ug/mL	+/- 2.7 ug/mL
20	4-Nitrophenol	100-02-7	99%	400.000 ug/mL	+/- 3.0 ug/mL
21	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	99%	400.000 ug/mL	+/- 3.0 ug/mL
22	2,4,6-Tribromophenol	118-79-6	99%	400.000 ug/mL	+/- 2.7 ug/mL
23	Pentachlorophenol	87-86-5	97%	399.989 ug/mL	+/- 3.0 ug/mL

RESTEK

Certificate of Analysis

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 57833 **Lot No.:** A081245

Description : Custom Revised 8270 Mix # 2

Container Size : [5] 2 mL **Pkg Amt:** [5] > 2 mL

Expiration Date : [1] April 2013 **Storage:** 0°C or colder

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. [3] (weight/volume)	% Grav.Uncert. [4] (95% C.L.; K=2)
1	N-Nitrosodimethylamine	62-75-9	99%	400.000 ug/mL	+/-0.67 %
2	Pyridine	110-86-1	99%	400.000 ug/mL	+/-0.67 %
3	Aniline	62-53-3	100%	400.000 ug/mL	+/-0.67 %
4	N-Nitroso-di-n-propylamine	621-64-7	99%	400.000 ug/mL	+/-0.67 %
5	4-Chloroaniline	106-47-8	99%	400.000 ug/mL	+/-0.67 %
6	2,4-Diaminotoluene	95-80-7	99%	400.000 ug/mL	+/-0.67 %
7	3-Nitroaniline	99-09-2	99%	400.000 ug/mL	+/-0.67 %
8	2-Nitroaniline	88-74-4	99%	400.000 ug/mL	+/-0.67 %
9	4-Nitroaniline	100-01-6	99%	400.000 ug/mL	+/-0.67 %
10	N-Nitrosodiphenylamine	86-30-6	97%	399.640 ug/mL	+/-0.67 %
11	Atrazine	1912-24-9	99%	400.000 ug/mL	+/-0.67 %
12	Benzidine	92-87-5	99%	400.000 ug/mL	+/-0.67 %
13	3,3'-Dichlorobenzidine	91-94-1	99%	400.000 ug/mL	+/-0.67 %
14	4,4-Methylene-bis(2-chloroaniline)	101-14-4	98%	399.840 ug/mL	+/-0.67 %
15	3,3'-Dimethoxybenzidine	119-90-4	99%	400.000 ug/mL	+/-0.67 %
Solvent:	Methylene Chloride (MEOH FREE)	75-09-2	99%		

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

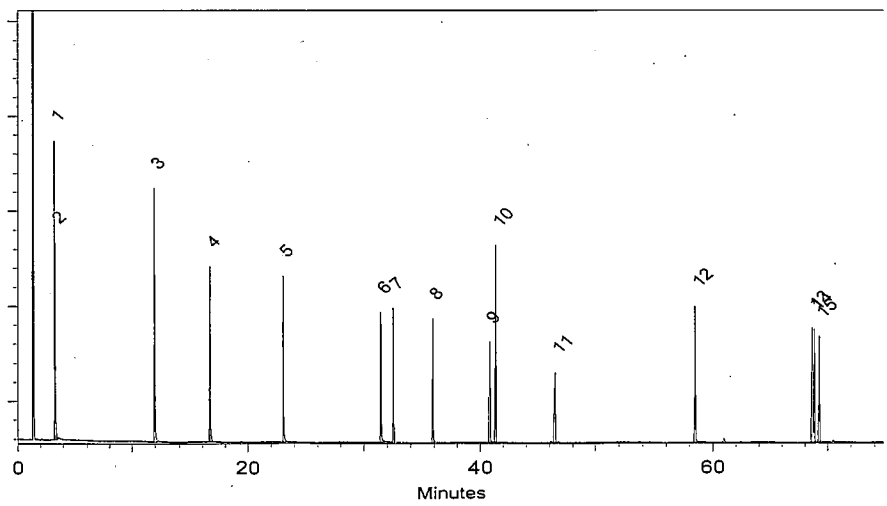
Carrier Gas:
hydrogen-constant pressure 10 psi

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



RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 57834 **Lot No.:** A083779

Description : Custom Revised 8270 Mix # 3

Container Size : [5] 2 mL **Pkg Amt:** [5] > 2 mL

Expiration Date : [1] December 2014 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive.

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	Grav.Uncert. (95% C.L.; K=2) [4]
1	Ethyl methacrylate	97-63-2	99%	400.0 ug/mL	+/- 2.8363 ug/mL
2	Acetophenone	98-86-2	99%	400.0 ug/mL	+/- 2.8363 ug/mL
3	Isophorone	78-59-1	99%	400.0 ug/mL	+/- 2.8363 ug/mL
4	Naphthalene	91-20-3	99%	400.0 ug/mL	+/- 2.8363 ug/mL
5	epsilon-Caprolactam	105-60-2	99%	400.0 ug/mL	+/- 2.8363 ug/mL
6	1-Methylnaphthalene	90-12-0	99%	400.0 ug/mL	+/- 2.8363 ug/mL
7	2-Methylnaphthalene	91-57-6	97%	399.6 ug/mL	+/- 2.8338 ug/mL
8	Biphenyl	92-52-4	99%	400.0 ug/mL	+/- 2.8363 ug/mL
9	Acenaphthylene	208-96-8	99%	400.0 ug/mL	+/- 2.8363 ug/mL
10	Dimethylphthalate	131-11-3	99%	400.0 ug/mL	+/- 2.8363 ug/mL
11	Acenaphthene	83-32-9	99%	400.0 ug/mL	+/- 2.8363 ug/mL
12	Dibenzofuran	132-64-9	99%	400.0 ug/mL	+/- 2.8363 ug/mL
13	Fluorene	86-73-7	99%	400.0 ug/mL	+/- 2.8363 ug/mL
14	Diethylphthalate	84-66-2	99%	400.0 ug/mL	+/- 2.8363 ug/mL
15	Azobenzene	103-33-3	99%	400.0 ug/mL	+/- 2.8363 ug/mL
16	Sulfotepp	3689-24-5	99%	400.0 ug/mL	+/- 2.8363 ug/mL
17	Phenanthrene	85-01-8	99%	400.0 ug/mL	+/- 2.8363 ug/mL
18	Anthracene	120-12-7	99%	400.0 ug/mL	+/- 2.8363 ug/mL
19	Carbazole	86-74-8	98%	399.8 ug/mL	+/- 2.8352 ug/mL
20	Di-n-butylphthalate	84-74-2	99%	400.0 ug/mL	+/- 2.8363 ug/mL
21	Fluoranthene	206-44-0	98%	399.8 ug/mL	+/- 2.8352 ug/mL
22	Pyrene	129-00-0	98%	399.8 ug/mL	+/- 2.8352 ug/mL
23	Benzyl butyl phthalate	85-68-7	99%	400.0 ug/mL	+/- 2.8363 ug/mL
24	Benz(a)anthracene	56-55-3	99%	400.0 ug/mL	+/- 2.8363 ug/mL
25	Chrysene	218-01-9	99%	400.0 ug/mL	+/- 2.8363 ug/mL
26	Bis(2-ethylhexyl)phthalate	117-81-7	99%	400.0 ug/mL	+/- 2.8363 ug/mL
27	Di-n-octyl phthalate	117-84-0	98%	399.8 ug/mL	+/- 2.8352 ug/mL
28	Benzo(b)fluoranthene	205-99-2	99%	400.0 ug/mL	+/- 2.8363 ug/mL
29	Benzo(k)fluoranthene	207-08-9	99%	400.0 ug/mL	+/- 2.8363 ug/mL
30	Benzo(a)pyrene	50-32-8	99%	400.0 ug/mL	+/- 2.8363 ug/mL
31	Indeno(1,2,3-cd)pyrene	193-39-5	99%	400.0 ug/mL	+/- 2.8363 ug/mL
32	Dibenz(a,h)anthracene	53-70-3	99%	400.0 ug/mL	+/- 2.8363 ug/mL
33	Benzo(g,h,i)perylene	191-24-2	99%	400.0 ug/mL	+/- 2.8363 ug/mL

Solvent: Methylene Chloride (MEOH FREE) 75-09-2 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

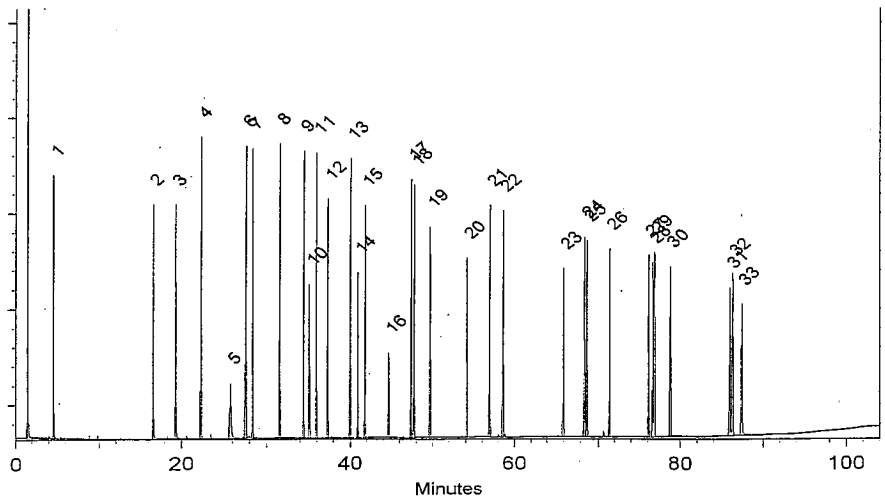
Carrier Gas:
hydrogen-constant pressure 10 psi

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



John Lidgett - QA Analyst **Date Passed:** 12-Sep-2011 **Balance:** 1128342314

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 is the last day of the month listed.

2A Purity and chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Purity value is rounded to the nearest whole number. See data pack or contact Restek 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.

5A Containers are overfilled to ensure the packaged amount, as a minimum.

5B Restek supplies deactivated vials along with most standards packed in 2 mL ampules, for the handling and storage of standards. Due to space constraints, Restek does not supply vials for larger volume ampules. Samples should be transferred into deactivated vials for handling and storage. 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.

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 566299 **Lot No.:** A081933

Description : Custom Revised 8270 Mix #4

Container Size : [5] 5 mL **Pkg Amt:** [5] > 2 mL

Expiration Date : [1] May 2014 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	Grav.Uncert. (95% C.L.; K=2) [4]
1	3-Chloropropionitrile	542-76-7	99%	400.0 ug/mL	+/- 2.7 ug/mL
2	Malononitrile	109-77-3	99%	400.0 ug/mL	+/- 2.7 ug/mL
3	Benzaldehyde	100-52-7	99%	400.0 ug/mL	+/- 2.7 ug/mL
4	Bis(2-chloroethyl)ether	111-44-4	99%	400.0 ug/mL	+/- 2.7 ug/mL
5	1,3-Dichlorobenzene	541-73-1	99%	400.0 ug/mL	+/- 2.7 ug/mL
6	1,2-Dichlorobenzene-d4	2199-69-1	99%	400.0 ug/mL	+/- 2.7 ug/mL
7	1,2-Dichlorobenzene	95-50-1	99%	400.0 ug/mL	+/- 2.7 ug/mL
8	Bis(2-chloroisopropyl)ether	108-60-1	99%	400.0 ug/mL	+/- 2.7 ug/mL
9	Hexachloroethane	67-72-1	99%	400.0 ug/mL	+/- 2.7 ug/mL
10	Nitrobenzene-d5	4165-60-0	99%	400.0 ug/mL	+/- 2.7 ug/mL
11	Nitrobenzene	98-95-3	99%	400.0 ug/mL	+/- 2.7 ug/mL
12	1,2,4-Trichlorobenzene	120-82-1	97%	399.6 ug/mL	+/- 2.7 ug/mL
13	Bis(2-chloroethoxy)methane	111-91-1	99%	400.0 ug/mL	+/- 2.7 ug/mL
14	1,3,5-Trichlorobenzene	108-70-3	99%	400.0 ug/mL	+/- 2.7 ug/mL
15	1,2,3-Trichlorobenzene	87-61-6	99%	400.0 ug/mL	+/- 2.7 ug/mL
16	Hexachlorobutadiene	87-68-3	98%	399.8 ug/mL	+/- 2.7 ug/mL
17	1,2,3,4-Tetrachlorobenzene	634-66-2	95%	400.0 ug/mL	+/- 2.7 ug/mL
18	Hexachlorocyclopentadiene	77-47-4	99%	400.0 ug/mL	+/- 2.7 ug/mL
19	2-Fluorobiphenyl	321-60-8	99%	400.0 ug/mL	+/- 2.7 ug/mL
20	2-Chloronaphthalene	91-58-7	99%	400.0 ug/mL	+/- 2.7 ug/mL
21	1,2,3,5-Tetrachlorobenzene	634-90-2	99%	400.0 ug/mL	+/- 2.7 ug/mL
22	2,6-Dinitrotoluene	606-20-2	99%	400.0 ug/mL	+/- 2.7 ug/mL
23	1,2-Dinitrobenzene	528-29-0	99%	400.0 ug/mL	+/- 2.7 ug/mL
24	2,4-Dinitrotoluene	121-14-2	99%	400.0 ug/mL	+/- 2.7 ug/mL
25	4-Chlorophenyl phenyl ether	7005-72-3	99%	400.0 ug/mL	+/- 2.7 ug/mL
26	4-Bromophenyl phenyl ether	101-55-3	98%	399.8 ug/mL	+/- 2.7 ug/mL
27	Hexachlorobenzene	118-74-1	99%	400.0 ug/mL	+/- 2.7 ug/mL
28	p-Terphenyl-d14	1718-51-0	97%	399.6 ug/mL	+/- 2.7 ug/mL

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: APP-9-091-50X
Description: 2,4-Dinitrophenol
Lot: B7040078
Solvent: Methanol

Date Certified: Apr 10, 2007
Expiration: Apr 10, 2017
Sample Size: 1 mL
Storage Condition: Ambient
Hazards: HIGHLY FLAMMABLE

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
2,4-Dinitrophenol	51-28-5	100	5003	5003

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No.822/272103-05
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

For use in routine laboratory analysis.

See reverse side for additional information
Refer to the MSDS for additional safety information

Certified by: R. Cooper
Russ Cooper, QC Manager

CERTIFICATION REPORT

1. **Quality Documentation:** This certificate is designed in accordance with ISO Guide 31 (Reference Materials - Contents of Certificates and Labels) and ISO Guide 35 (Reference Materials – General and Statistical Principles for Certification).

2. **Quality Standards:**

   ISO Guide 34 - General Requirements for the Competence of Reference Material Producers ACLASS Certificate Number AR-1463

   AR-1463

   ISO/IEC 17025:2005 - General Requirements for the Competence of Testing and Calibration Laboratories ACLASS Certificate Number AT-1339

   AT-1339

   ISO 9001:2008 Quality Management System - Requirements Eagle Registrations Certificate Number 3774

3. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 11. If dilution is required, use only Class A glassware and diluent compatible with all certified analytes in this preparation. All solutions should be thoroughly mixed prior to use.

4. **Raw Materials:** Reference standards are prepared from the highest quality starting materials with defined purities. All analytes and solvents are obtained from pre-qualified vendors and then analyzed or evaluated prior to use.

5. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this CRM.

6. **Homogeneity Assessment:** Homogeneity of the finished product is assessed by analyzing sample batches or by other methods consistent with the intended use of the product and by procedures that comply with the appropriate Quality System requirements, and ISO Guide 35.

7. **Stability Assessment:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label. To ensure a uniform solution, mix the contents of the sealed container thoroughly prior to use. Care should be taken not to contaminate the contents of the original container.

8. **Analytical Quality Control:** Products are tested by validated analytical methods specified in the manufacturer's quality system.

9. **Uncertainty Statistics and Confidence Limits:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide (Quantifying Uncertainty in Analytical Measurement). We have evaluated both Type A (based on a series of observations) and Type B (manufacturers specifications and calibration data) factors and report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_m = \sqrt{(u(P))^2 + (u(m))^2 + (u(V))^2}$. The expanded uncertainty, U, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level. Laboratories accredited to ISO/IEC 17025 and ISO Guide 34 are required to estimate uncertainty budgets associated with the measurements they make. However, for analysis, the certified value should be used as the actual value.

10. **Warranties:** The manufacturer warrants that its products shall conform to the description of such products as provided in its catalog or on the specific product label. This warranty is exclusive, and the manufacturer makes no other warranty, express or implied, including any implied warranty of merchantability or fitness for any particular purpose.

11. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. Due to the hazardous nature, only trained personnel should handle this product. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: Z-014D-1
Description: Benzoic acid
Lot: 211061093
Solvent: Dichloromethane

Date Certified: Jun 7, 2011
Expiration: Jun 7, 2021
Sample Size: 1 mL
Storage Condition: Ambient
Hazards: HARMFUL

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % MFG	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Benzoic acid	65-85-0	99.5	2004	1994

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No.822/272103-05
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

For use in routine laboratory analysis.

See reverse side for additional information
Refer to the MSDS for additional safety information

Certified by: R. Cooper
Russ Cooper, QC Manager

CERTIFICATION REPORT

1. **Quality Documentation:** This certificate is designed in accordance with ISO Guide 31 (Reference Materials - Contents of Certificates and Labels) and ISO Guide 35 (Reference Materials – General and Statistical Principles for Certification).

2. **Quality Standards:**

   ISO Guide 34 – General Requirements for the Competence of Reference Material Producers ACLASS Certificate Number AR-1463

   AR-1463

   ISO/IEC 17025:2005 - General Requirements for the Competence of Testing and Calibration Laboratories ACLASS Certificate Number AT-1339

   AT-1339

   ISO 9001:2008 Quality Management System - Requirements
   Eagle Registrations Certificate Number 3774

3. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 11. If dilution is required, use only Class A glassware and diluent compatible with all certified analytes in this preparation. All solutions should be thoroughly mixed prior to use.

4. **Raw Materials:** Reference standards are prepared from the highest quality starting materials with defined purities. All analytes and solvents are obtained from pre-qualified vendors and then analyzed or evaluated prior to use.

5. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated.using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this CRM.

6. **Homogeneity Assessment:** Homogeneity of the finished product is assessed by analyzing sample batches or by other methods consistent with the intended use of the product and by procedures that comply with the appropriate Quality System requirements, and ISO Guide 35.

7. **Stability Assessment:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label. To ensure a uniform solution, mix the contents of the sealed container thoroughly prior to use. Care should be taken not to contaminate the contents of the original container.

8. **Analytical Quality Control:** Products are tested by validated analytical methods specified in the manufacturer's quality system.

9. **Uncertainty Statistics and Confidence Limits:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide (Quantifying Uncertainty in Analytical Measurement). We have evaluated both Type A (based on a series of observations) and Type B (manufacturers specifications and calibration data) factors and report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_{\mathrm{m}} = \sqrt{(u(\mathrm{P}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{V}))^2}$. The expanded uncertainty, U, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level. Laboratories accredited to ISO/IEC 17025 and ISO Guide 34 are required to estimate uncertainty budgets associated with the measurements they make. However, for analysis, the certified value should be used as the actual value.

10. **Warranties:** The manufacturer warrants that its products shall conform to the description of such products as provided in its catalog or on the specific product label. This warranty is exclusive, and the manufacturer makes no other warranty, express or implied, including any implied warranty of merchantability or fitness for any particular purpose.

11. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. Due to the hazardous nature, only trained personnel should handle this product. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: APP-9-176-D-20X
Description: Pentachlorophenol
Lot: 211041014
Solvent: Dichloromethane

Date Certified: Apr 1, 2011
Expiration: Apr 1, 2021
Sample Size: 1 mL
Storage Condition: Ambient
Hazards: HARMFUL

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Pentachlorophenol	87-86-5	99.0	2007	1987

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No.822/272103-05
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

For use in routine laboratory analysis.

See reverse side for additional information
Refer to the MSDS for additional safety information

Certified by: R. Cooper
Russ Cooper, QC Manager

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

CERTIFICATION REPORT

1. **Quality Documentation:** This certificate is designed in accordance with ISO Guide 31 (Reference Materials – Contents of Certificates and Labels) and ISO Guide 35 (Reference Materials – General and Statistical Principles for Certification).

2. **Quality Standards:**

   ISO Guide 34 - General Requirements for the Competence of Reference Material Producers ACLASS Certificate Number AR-1463

   AR-1463

   ISO/IEC 17025:2005 - General Requirements for the Competence of Testing and Calibration Laboratories ACLASS Certificate Number AT-1339

   AT-1339

   ISO 9001:2008 Quality Management System - Requirements Eagle Registrations Certificate Number 3774

3. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 11. If dilution is required, use only Class A glassware and diluent compatible with all certified analytes in this preparation. All solutions should be thoroughly mixed prior to use.

4. **Raw Materials:** Reference standards are prepared from the highest quality starting materials with defined purities. All analytes and solvents are obtained from pre-qualified vendors and then analyzed or evaluated prior to use.

5. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this CRM.

6. **Homogeneity Assessment:** Homogeneity of the finished product is assessed by analyzing sample batches or by other methods consistent with the intended use of the product and by procedures that comply with the appropriate Quality System requirements, and ISO Guide 35.

7. **Stability Assessment:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label. To ensure a uniform solution, mix the contents of the sealed container thoroughly prior to use. Care should be taken not to contaminate the contents of the original container.

8. **Analytical Quality Control:** Products are tested by validated analytical methods specified in the manufacturer's quality system.

9. **Uncertainty Statistics and Confidence Limits:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide (Quantifying Uncertainty in Analytical Measurement). We have evaluated both Type A (based on a series of observations) and Type B (manufacturers specifications and calibration data) factors and report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_m = \sqrt{(u(P))^2 + (u(m))^2 + (u(V))^2}$. The expanded uncertainty, U, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level. Laboratories accredited to ISO/IEC 17025 and ISO Guide 34 are required to estimate uncertainty budgets associated with the measurements they make. However, for analysis, the certified value should be used as the actual value.

10. **Warranties:** The manufacturer warrants that its products shall conform to the description of such products as provided in its catalog or on the specific product label. This warranty is exclusive, and the manufacturer makes no other warranty, express or implied, including any implied warranty of merchantability or fitness for any particular purpose.

11. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. Due to the hazardous nature, only trained personnel should handle this product. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

Certificate of Composition

DESCRIPTION: TEST AMERICA

QUOTE 21492575 LOT NO.: LB90764 EXPIRATION DATE: Aug-2013

SOLVENT: BENZENE 25 %
METHYLENE CHLORIDE 75 %

ANALYTE (1)	CAS NUMBER	PERCENT PURITY (2)		WEIGHT CONCENTRATION (3)			SUPELCO LOT NO
ACENAPHTHENE	83-32-9	99.9		1000	+/-	5.0	LB82590
ACENAPHTHYLENE	208-96-8	99.9		1000	+/-	5.0	LB84923
ACETOPHENONE	98-86-2	99.2		1001	+/-	5.0	LB61700
ANILINE	62-53-3	99.9		1000	+/-	5.0	LA41596
ANTHRACENE	120-12-7	99.5		1000	+/-	5.0	LB77576
ATRAZINE	1912-24-9	99.9		1000	+/-	5.0	LB77962
AZOBENZENE	103-33-3	99.9		1000	+/-	5.0	LB83060
BENZALDEHYDE	100-52-7	99.9		999	+/-	5.0	LB82946
BENZIDINE	92-87-5	99.9		1000	+/-	5.0	LB83682
BENZO (A) ANTHRACENE	56-55-3	99.4	(a)	1000	+/-	5.0	LB78146
BENZO (A) PYRENE	50-32-8	99.9	(a)	1000	+/-	5.0	LB79478
BENZO (B) FLUORANTHENE	205-99-2	99.9		1000	+/-	5.0	LB77269
BENZO (G,H,I) PERYLENE	191-24-2	99.6		1000	+/-	5.0	LB62550
BENZO (K) FLUORANTHENE	207-08-9	99.9		1000	+/-	5.0	LB84765
BENZOIC ACID	65-85-0	99.9		2001	+/-	10.0	LA84486
BENZYL ALCOHOL	100-51-6	99.9		1001	+/-	5.0	LB48374
BENZYL BUTYL PHTHALATE	85-68-7	98.6		1000	+/-	5.0	LB60340
BIPHENYL	92-52-4	99.9		1002	+/-	5.0	LB30457
BIS (2-CHLOROETHOXY) METHANE	111-91-1	98.5		1000	+/-	5.0	LB71304

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM

(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.

Elwood Doughty
QA Manager

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.

SUPELCO® Analytical
595 North Harrison Road • Bellefonte, PA
16823-0048 USA • Phone (814) 359-3441

Certificate of Composition

DESCRIPTION: TEST AMERICA

QUOTE 21492575 LOT NO.: LB90764 EXPIRATION DATE: Aug-2013

SOLVENT: BENZENE 25 %
METHYLENE CHLORIDE 75 %

ANALYTE (1)	CAS NUMBER	PERCENT PURITY (2)	WEIGHT CONCENTRATION (3)			SUPELCO LOT NO
BIS (2-CHLOROETHYL) ETHER	111-44-4	99.9	1000	+/-	5.0	LB33319
BIS (2-CHLOROISOPROPYL) ETHER	108-60-1	97.4	1000	+/-	5.0	LB84548
BIS (2-ETHYLHEXYL) PHTHALATE	117-81-7	99.7	1000	+/-	5.0	LB58359
CAPROLACTAM	105-60-2	99.9	1000	+/-	5.0	LB34145
CARBAZOLE	86-74-8	99.9	1000	+/-	5.0	LB60643
CHRYSENE	218-01-9	98.4	1000	+/-	5.0	LB85109
DI-N-BUTYL PHTHALATE	84-74-2	99.5	1000	+/-	5.0	LB64921
DI-N-OCTYL PHTHALATE	117-84-0	99.9	1000	+/-	5.0	LB83131
DIBENZ (A,H) ANTHRACENE	53-70-3	99.9	1000	+/-	5.0	LB87229
DIBENZOFURAN	132-64-9	98.9	1000	+/-	5.0	LB78814
DIETHYL PHTHALATE	84-66-2	99.2	1000	+/-	5.0	LB60384
DIMETHYL PHTHALATE	131-11-3	99.9	1000	+/-	5.0	LB30494
FLUORANTHENE	206-44-0	99.5	1000	+/-	5.0	LB36331
FLUORENE	86-73-7	98.5	1000	+/-	5.0	LB82164
HEXACHLOROBENZENE	118-74-1	99.9	1000	+/-	5.0	LB87401
HEXACHLOROBUTADIENE	87-68-3	96.2	1000	+/-	5.0	LB67777
HEXACHLOROCYCLOPENTADIENE	77-47-4	97.2	1000	+/-	5.0	LB84590
HEXACHLOROETHANE	67-72-1	99.9	1000	+/-	5.0	LB29072
INDENO (1,2,3-CD) PYRENE	193-39-5	99.7	1000	+/-	5.0	LB87713

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM

(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.

Elwood Doughty
QA Manager

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.

SUPELCO®
Analytical
595 North Harrison Road • Bellefonte, PA
16823-0048 USA • Phone (814) 359-3441

Certificate of Composition

DESCRIPTION: TEST AMERICA

QUOTE 21492575 LOT NO.: LB90764 EXPIRATION DATE: Aug-2013

SOLVENT: BENZENE 25 %
METHYLENE CHLORIDE 75 %

ANALYTE (1)	CAS NUMBER	PERCENT PURITY (2)	WEIGHT CONCENTRATION (3)			SUPELCO LOT NO
ISOPHORONE	78-59-1	99.1	1000	+/-	5.0	LB45460
N-NITROSODI-N-PROPYLAMINE	621-64-7	99.9	1000	+/-	5.0	LB79763
N-NITROSODIMETHYLAMINE	62-75-9	99.9	1000	+/-	5.0	LB83854
N-NITROSODIPHENYLAMINE	86-30-6	98.6	1001	+/-	5.0	LB17295
N-NITROSOPYRROLIDINE	930-55-2	99.9	1001	+/-	5.0	LB78816
NAPHTHALENE	91-20-3	99.9	1000	+/-	5.0	LB77841
NITROBENZENE	98-95-3	99.9	1000	+/-	5.0	LB47070
PENTACHLOROPHENOL	87-86-5	99.9	2000	+/-	10.0	LB75554
PHENANTHRENE	85-01-8	99.1	1000	+/-	5.0	LB68872
PHENOL	108-95-2	99.9	1002	+/-	5.0	LB57703
PYRENE	129-00-0	97.5	1000	+/-	5.0	LB70761
1,2-DICHLOROBENZENE	95-50-1	99.9	1000	+/-	5.0	LA96474
1,2,4-TRICHLOROBENZENE	120-82-1	99.5	1000	+/-	5.0	LB48083
1,2,4,5-TETRACHLOROBENZENE	95-94-3	99.9	1000	+/-	5.0	LB61817
1,3-DICHLOROBENZENE	541-73-1	99.9	1000	+/-	5.0	LB68066
1,4-DICHLOROBENZENE	106-46-7	99.9	1000	+/-	5.0	LB69983
1,4-DIOXANE	123-91-1	99.9	1002	+/-	5.0	LB82982
2-CHLORONAPHTHALENE	91-58-7	99.4	1000	+/-	5.0	LB48170
2-CHLOROPHENOL	95-57-8	99.6	999	+/-	5.0	LB83266

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM

(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.

Elwood Doughty
QA Manager

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.

SUPELCO® Analytical
595 North Harrison Road • Bellefonte, PA
16823-0048 USA • Phone (814) 359-3441

Certificate of Composition

DESCRIPTION: TEST AMERICA

QUOTE 21492575 LOT NO.: LB90764 EXPIRATION DATE: Aug-2013

SOLVENT: BENZENE 25 %
METHYLENE CHLORIDE 75 %

ANALYTE (1)	CAS NUMBER	PERCENT PURITY (2)	WEIGHT CONCENTRATION (3)	SUPELCO LOT NO
2-METHYL-4,6-DINITROPHENOL	534-52-1	99.9	1001 +/- 5.0	LB31592
2-METHYLNAPHTHALENE	91-57-6	98.3	1000 +/- 5.0	LB44448
2-METHYLPHENOL	95-48-7	99.8	1000 +/- 5.0	LB30223
2-NITROANILINE	88-74-4	99.9	1000 +/- 5.0	LB49936
2-NITROPHENOL	88-75-5	99.9	1000 +/- 5.0	LB44736
2,3,4,6-TETRACHLOROPHENOL	58-90-2	98.4	1000 +/- 5.0	LB75078
2,4-DICHLOROPHENOL	120-83-2	98.8	1002 +/- 5.0	LB76837
2,4-DIMETHYLPHENOL	105-67-9	99.9	1000 +/- 5.0	LB88935
2,4-DINITROPHENOL	51-28-5	98.6	2003 +/- 10.0	LB28389
2,4-DINITROTOLUENE	121-14-2	96.0	1000 +/- 5.0	LB46632
2,4,5-TRICHLOROPHENOL	95-95-4	99.9	1000 +/- 5.0	LB35288
2,4,6-TRICHLOROPHENOL	88-06-2	99.9	1000 +/- 5.0	LB65559
2,6-DICHLOROPHENOL	87-65-0	99.9	1002 +/- 5.0	LB03525
2,6-DINITROTOLUENE	606-20-2	99.9	1000 +/- 5.0	LB79891
3-NITROANILINE	99-09-2	99.9	1000 +/- 5.0	LB73829
3,3-DICHLOROBENZIDINE	91-94-1	99.4	1000 +/- 5.0	LB68654
4-BROMOPHENYLPHENYL ETHER	101-55-3	98.8	1000 +/- 5.0	LB63786
4-CHLORO-3-METHYLPHENOL	59-50-7	99.9	1000 +/- 5.0	LB83265
4-CHLOROANILINE	106-47-8	99.9	1000 +/- 5.0	LB82916

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM

(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.

Elwood Doughty
QA Manager

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.

SUPELCO® Analytical
595 North Harrison Road • Bellefonte, PA
16823-0048 USA • Phone (814) 359-3441

Certificate of Composition

DESCRIPTION: TEST AMERICA

QUOTE 21492575 LOT NO.: LB90764 EXPIRATION DATE: Aug-2013

SOLVENT: BENZENE 25 %
METHYLENE CHLORIDE 75 %

ANALYTE (1)	CAS NUMBER	PERCENT PURITY (2)	WEIGHT CONCENTRATION (3)	SUPELCO LOT NO
4-CHLOROPHENYLPHENYL ETHER	7005-72-3	99.9	1000 +/- 5.0	LB72185
4-METHYLPHENOL	106-44-5	99.9	1000 +/- 5.0	LB32518
4-NITROANILINE	100-01-6	99.9	1000 +/- 5.0	LB42566
4-NITROPHENOL	100-02-7	99.9	1001 +/- 5.0	LB83255

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM

(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.

Elwood Doughty
QA Manager

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.

SUPELCO® Analytical
595 North Harrison Road • Bellefonte, PA
16823-0048 USA • Phone (814) 359-3441

Certificate of Composition

DESCRIPTION: TEST AMERICA

QUOTE 21492575 LOT NO.: LB90764 EXPIRATION DATE: Aug-2013

SOLVENT: BENZENE 25 %
METHYLENE CHLORIDE 75 %

ANALYTE (1)	CAS NUMBER	PERCENT PURITY (2)		WEIGHT CONCENTRATION (3)			SUPELCO LOT NO
ACENAPHTHENE	83-32-9	99.9		1000	+/-	5.0	LB82590
ACENAPHTHYLENE	208-96-8	99.9		1000	+/-	5.0	LB84923
ACETOPHENONE	98-86-2	99.2		1001	+/-	5.0	LB61700
ANILINE	62-53-3	99.9		1000	+/-	5.0	LA41596
ANTHRACENE	120-12-7	99.5		1000	+/-	5.0	LB77576
ATRAZINE	1912-24-9	99.9		1000	+/-	5.0	LB77962
AZOBENZENE	103-33-3	99.9		1000	+/-	5.0	LB83060
BENZALDEHYDE	100-52-7	99.9		999	+/-	5.0	LB82946
BENZIDINE	92-87-5	99.9		1000	+/-	5.0	LB83682
BENZO (A) ANTHRACENE	56-55-3	99.4	(a)	1000	+/-	5.0	LB78146
BENZO (A) PYRENE	50-32-8	99.9	(a)	1000	+/-	5.0	LB79478
BENZO (B) FLUORANTHENE	205-99-2	99.9		1000	+/-	5.0	LB77269
BENZO (G,H,I) PERYLENE	191-24-2	99.6		1000	+/-	5.0	LB62550
BENZO (K) FLUORANTHENE	207-08-9	99.9		1000	+/-	5.0	LB84765
BENZOIC ACID	65-85-0	99.9		2001	+/-	10.0	LA84486
BENZYL ALCOHOL	100-51-6	99.9		1001	+/-	5.0	LB48374
BENZYL BUTYL PHTHALATE	85-68-7	98.6		1000	+/-	5.0	LB60340
BIPHENYL	92-52-4	99.9		1002	+/-	5.0	LB30457
BIS (2-CHLOROETHOXY) METHANE	111-91-1	98.5		1000	+/-	5.0	LB71304

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM

(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.

Elwood Doughty
QA Manager

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.

SUPELCO® Analytical
595 North Harrison Road • Bellefonte, PA
16823-0048 USA • Phone (814) 359-3441

Certificate of Composition

DESCRIPTION: TEST AMERICA

QUOTE 21492575 LOT NO.: LB90764 EXPIRATION DATE: Aug-2013

SOLVENT: BENZENE 25 %
METHYLENE CHLORIDE 75 %

ANALYTE (1)	CAS NUMBER	PERCENT PURITY (2)	WEIGHT CONCENTRATION (3)			SUPELCO LOT NO
BIS (2-CHLOROETHYL) ETHER	111-44-4	99.9	1000	+/-	5.0	LB33319
BIS (2-CHLOROISOPROPYL) ETHER	108-60-1	97.4	1000	+/-	5.0	LB84548
BIS (2-ETHYLHEXYL) PHTHALATE	117-81-7	99.7	1000	+/-	5.0	LB58359
CAPROLACTAM	105-60-2	99.9	1000	+/-	5.0	LB34145
CARBAZOLE	86-74-8	99.9	1000	+/-	5.0	LB60643
CHRYSENE	218-01-9	98.4	1000	+/-	5.0	LB85109
DI-N-BUTYL PHTHALATE	84-74-2	99.5	1000	+/-	5.0	LB64921
DI-N-OCTYL PHTHALATE	117-84-0	99.9	1000	+/-	5.0	LB83131
DIBENZ (A,H) ANTHRACENE	53-70-3	99.9	1000	+/-	5.0	LB87229
DIBENZOFURAN	132-64-9	98.9	1000	+/-	5.0	LB78814
DIETHYL PHTHALATE	84-66-2	99.2	1000	+/-	5.0	LB60384
DIMETHYL PHTHALATE	131-11-3	99.9	1000	+/-	5.0	LB30494
FLUORANTHENE	206-44-0	99.5	1000	+/-	5.0	LB36331
FLUORENE	86-73-7	98.5	1000	+/-	5.0	LB82164
HEXACHLOROBENZENE	118-74-1	99.9	1000	+/-	5.0	LB87401
HEXACHLOROBUTADIENE	87-68-3	96.2	1000	+/-	5.0	LB67777
HEXACHLOROCYCLOPENTADIENE	77-47-4	97.2	1000	+/-	5.0	LB84590
HEXACHLOROETHANE	67-72-1	99.9	1000	+/-	5.0	LB29072
INDENO (1,2,3-CD) PYRENE	193-39-5	99.7	1000	+/-	5.0	LB87713

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM

(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.

Elwood Doughty
QA Manager

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.

SUPELCO® Analytical
595 North Harrison Road • Bellefonte, PA
16823-0048 USA • Phone (814) 359-3441

Certificate of Composition

DESCRIPTION: TEST AMERICA

QUOTE 21492575 LOT NO.: LB90764 EXPIRATION DATE: Aug-2013

SOLVENT: BENZENE 25 %
METHYLENE CHLORIDE 75 %

ANALYTE (1)	CAS NUMBER	PERCENT PURITY (2)	WEIGHT CONCENTRATION (3)			SUPELCO LOT NO
ISOPHORONE	78-59-1	99.1	1000	+/-	5.0	LB45460
N-NITROSODI-N-PROPYLAMINE	621-64-7	99.9	1000	+/-	5.0	LB79763
N-NITROSODIMETHYLAMINE	62-75-9	99.9	1000	+/-	5.0	LB83854
N-NITROSODIPHENYLAMINE	86-30-6	98.6	1001	+/-	5.0	LB17295
N-NITROSOPYRROLIDINE	930-55-2	99.9	1001	+/-	5.0	LB78816
NAPHTHALENE	91-20-3	99.9	1000	+/-	5.0	LB77841
NITROBENZENE	98-95-3	99.9	1000	+/-	5.0	LB47070
PENTACHLOROPHENOL	87-86-5	99.9	2000	+/-	10.0	LB75554
PHENANTHRENE	85-01-8	99.1	1000	+/-	5.0	LB68872
PHENOL	108-95-2	99.9	1002	+/-	5.0	LB57703
PYRENE	129-00-0	97.5	1000	+/-	5.0	LB70761
1,2-DICHLOROBENZENE	95-50-1	99.9	1000	+/-	5.0	LA96474
1,2,4-TRICHLOROBENZENE	120-82-1	99.5	1000	+/-	5.0	LB48083
1,2,4,5-TETRACHLOROBENZENE	95-94-3	99.9	1000	+/-	5.0	LB61817
1,3-DICHLOROBENZENE	541-73-1	99.9	1000	+/-	5.0	LB68066
1,4-DICHLOROBENZENE	106-46-7	99.9	1000	+/-	5.0	LB69983
1,4-DIOXANE	123-91-1	99.9	1002	+/-	5.0	LB82982
2-CHLORONAPHTHALENE	91-58-7	99.4	1000	+/-	5.0	LB48170
2-CHLOROPHENOL	95-57-8	99.6	999	+/-	5.0	LB83266

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM

(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.

Elwood Doughty
QA Manager

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.

SUPELCO® Analytical
595 North Harrison Road • Bellefonte, PA
16823-0048 USA • Phone (814) 359-3441

Certificate of Composition

DESCRIPTION: TEST AMERICA

QUOTE 21492575 LOT NO.: LB90764 EXPIRATION DATE: Aug-2013

SOLVENT: BENZENE 25 %
METHYLENE CHLORIDE 75 %

ANALYTE (1)	CAS NUMBER	PERCENT PURITY (2)	WEIGHT CONCENTRATION (3)	SUPELCO LOT NO
2-METHYL-4,6-DINITROPHENOL	534-52-1	99.9	1001 +/- 5.0	LB31592
2-METHYLNAPHTHALENE	91-57-6	98.3	1000 +/- 5.0	LB44448
2-METHYLPHENOL	95-48-7	99.8	1000 +/- 5.0	LB30223
2-NITROANILINE	88-74-4	99.9	1000 +/- 5.0	LB49936
2-NITROPHENOL	88-75-5	99.9	1000 +/- 5.0	LB44736
2,3,4,6-TETRACHLOROPHENOL	58-90-2	98.4	1000 +/- 5.0	LB75078
2,4-DICHLOROPHENOL	120-83-2	98.8	1002 +/- 5.0	LB76837
2,4-DIMETHYLPHENOL	105-67-9	99.9	1000 +/- 5.0	LB88935
2,4-DINITROPHENOL	51-28-5	98.6	2003 +/- 10.0	LB28389
2,4-DINITROTOLUENE	121-14-2	96.0	1000 +/- 5.0	LB46632
2,4,5-TRICHLOROPHENOL	95-95-4	99.9	1000 +/- 5.0	LB35288
2,4,6-TRICHLOROPHENOL	88-06-2	99.9	1000 +/- 5.0	LB65559
2,6-DICHLOROPHENOL	87-65-0	99.9	1002 +/- 5.0	LB03525
2,6-DINITROTOLUENE	606-20-2	99.9	1000 +/- 5.0	LB79891
3-NITROANILINE	99-09-2	99.9	1000 +/- 5.0	LB73829
3,3-DICHLOROBENZIDINE	91-94-1	99.4	1000 +/- 5.0	LB68654
4-BROMOPHENYLPHENYL ETHER	101-55-3	98.8	1000 +/- 5.0	LB63786
4-CHLORO-3-METHYLPHENOL	59-50-7	99.9	1000 +/- 5.0	LB83265
4-CHLOROANILINE	106-47-8	99.9	1000 +/- 5.0	LB82916

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM

(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.

Elwood Doughty
QA Manager

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.

SUPELCO® Analytical
595 North Harrison Road • Bellefonte, PA
16823-0048 USA • Phone (814) 359-3441

Certificate of Composition

DESCRIPTION: TEST AMERICA

QUOTE 21492575 LOT NO.: LB90764 EXPIRATION DATE: Aug-2013

SOLVENT: BENZENE 25 %
METHYLENE CHLORIDE 75 %

ANALYTE (1)	CAS NUMBER	PERCENT PURITY (2)	WEIGHT CONCENTRATION (3)	SUPELCO LOT NO
4-CHLOROPHENYLPHENYL ETHER	7005-72-3	99.9	1000 +/- 5.0	LB72185
4-METHYLPHENOL	106-44-5	99.9	1000 +/- 5.0	LB32518
4-NITROANILINE	100-01-6	99.9	1000 +/- 5.0	LB42566
4-NITROPHENOL	100-02-7	99.9	1001 +/- 5.0	LB83255

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM

(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.

Elwood Doughty
QA Manager

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.

SUPELCO® Analytical
595 North Harrison Road • Bellefonte, PA
16823-0048 USA • Phone (814) 359-3441

Certificate of Composition

DESCRIPTION: TEST AMERICA

QUOTE 21492575 LOT NO.: LB90764 EXPIRATION DATE: Aug-2013

SOLVENT: BENZENE 25 %
METHYLENE CHLORIDE 75 %

ANALYTE (1)	CAS NUMBER	PERCENT PURITY (2)		WEIGHT CONCENTRATION (3)			SUPELCO LOT NO
ACENAPHTHENE	83-32-9	99.9		1000	+/-	5.0	LB82590
ACENAPHTHYLENE	208-96-8	99.9		1000	+/-	5.0	LB84923
ACETOPHENONE	98-86-2	99.2		1001	+/-	5.0	LB61700
ANILINE	62-53-3	99.9		1000	+/-	5.0	LA41596
ANTHRACENE	120-12-7	99.5		1000	+/-	5.0	LB77576
ATRAZINE	1912-24-9	99.9		1000	+/-	5.0	LB77962
AZOBENZENE	103-33-3	99.9		1000	+/-	5.0	LB83060
BENZALDEHYDE	100-52-7	99.9		999	+/-	5.0	LB82946
BENZIDINE	92-87-5	99.9		1000	+/-	5.0	LB83682
BENZO (A) ANTHRACENE	56-55-3	99.4	(a)	1000	+/-	5.0	LB78146
BENZO (A) PYRENE	50-32-8	99.9	(a)	1000	+/-	5.0	LB79478
BENZO (B) FLUORANTHENE	205-99-2	99.9		1000	+/-	5.0	LB77269
BENZO (G,H,I) PERYLENE	191-24-2	99.6		1000	+/-	5.0	LB62550
BENZO (K) FLUORANTHENE	207-08-9	99.9		1000	+/-	5.0	LB84765
BENZOIC ACID	65-85-0	99.9		2001	+/-	10.0	LA84486
BENZYL ALCOHOL	100-51-6	99.9		1001	+/-	5.0	LB48374
BENZYL BUTYL PHTHALATE	85-68-7	98.6		1000	+/-	5.0	LB60340
BIPHENYL	92-52-4	99.9		1002	+/-	5.0	LB30457
BIS (2-CHLOROETHOXY) METHANE	111-91-1	98.5		1000	+/-	5.0	LB71304

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM

(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.

Elwood Doughty
QA Manager

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.

SUPELCO® Analytical
595 North Harrison Road • Bellefonte, PA
16823-0048 USA • Phone (814) 359-3441

Certificate of Composition

DESCRIPTION: TEST AMERICA

QUOTE 21492575 LOT NO.: LB90764 EXPIRATION DATE: Aug-2013

SOLVENT: BENZENE 25 %
METHYLENE CHLORIDE 75 %

ANALYTE (1)	CAS NUMBER	PERCENT PURITY (2)	WEIGHT CONCENTRATION (3)			SUPELCO LOT NO
BIS (2-CHLOROETHYL) ETHER	111-44-4	99.9	1000	+/-	5.0	LB33319
BIS (2-CHLOROISOPROPYL) ETHER	108-60-1	97.4	1000	+/-	5.0	LB84548
BIS (2-ETHYLHEXYL) PHTHALATE	117-81-7	99.7	1000	+/-	5.0	LB58359
CAPROLACTAM	105-60-2	99.9	1000	+/-	5.0	LB34145
CARBAZOLE	86-74-8	99.9	1000	+/-	5.0	LB60643
CHRYSENE	218-01-9	98.4	1000	+/-	5.0	LB85109
DI-N-BUTYL PHTHALATE	84-74-2	99.5	1000	+/-	5.0	LB64921
DI-N-OCTYL PHTHALATE	117-84-0	99.9	1000	+/-	5.0	LB83131
DIBENZ (A,H) ANTHRACENE	53-70-3	99.9	1000	+/-	5.0	LB87229
DIBENZOFURAN	132-64-9	98.9	1000	+/-	5.0	LB78814
DIETHYL PHTHALATE	84-66-2	99.2	1000	+/-	5.0	LB60384
DIMETHYL PHTHALATE	131-11-3	99.9	1000	+/-	5.0	LB30494
FLUORANTHENE	206-44-0	99.5	1000	+/-	5.0	LB36331
FLUORENE	86-73-7	98.5	1000	+/-	5.0	LB82164
HEXACHLOROBENZENE	118-74-1	99.9	1000	+/-	5.0	LB87401
HEXACHLOROBUTADIENE	87-68-3	96.2	1000	+/-	5.0	LB67777
HEXACHLOROCYCLOPENTADIENE	77-47-4	97.2	1000	+/-	5.0	LB84590
HEXACHLOROETHANE	67-72-1	99.9	1000	+/-	5.0	LB29072
INDENO (1,2,3-CD) PYRENE	193-39-5	99.7	1000	+/-	5.0	LB87713

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM

(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.

Elwood Doughty
QA Manager

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.

SUPELCO® Analytical
595 North Harrison Road • Bellefonte, PA
16823-0048 USA • Phone (814) 359-3441

Certificate of Composition

DESCRIPTION: TEST AMERICA

QUOTE 21492575 LOT NO.: LB90764 EXPIRATION DATE: Aug-2013

SOLVENT: BENZENE 25 %
METHYLENE CHLORIDE 75 %

ANALYTE (1)	CAS NUMBER	PERCENT PURITY (2)	WEIGHT CONCENTRATION (3)	SUPELCO LOT NO
ISOPHORONE	78-59-1	99.1	1000 +/- 5.0	LB45460
N-NITROSODI-N-PROPYLAMINE	621-64-7	99.9	1000 +/- 5.0	LB79763
N-NITROSODIMETHYLAMINE	62-75-9	99.9	1000 +/- 5.0	LB83854
N-NITROSODIPHENYLAMINE	86-30-6	98.6	1001 +/- 5.0	LB17295
N-NITROSOPYRROLIDINE	930-55-2	99.9	1001 +/- 5.0	LB78816
NAPHTHALENE	91-20-3	99.9	1000 +/- 5.0	LB77841
NITROBENZENE	98-95-3	99.9	1000 +/- 5.0	LB47070
PENTACHLOROPHENOL	87-86-5	99.9	2000 +/- 10.0	LB75554
PHENANTHRENE	85-01-8	99.1	1000 +/- 5.0	LB68872
PHENOL	108-95-2	99.9	1002 +/- 5.0	LB57703
PYRENE	129-00-0	97.5	1000 +/- 5.0	LB70761
1,2-DICHLOROBENZENE	95-50-1	99.9	1000 +/- 5.0	LA96474
1,2,4-TRICHLOROBENZENE	120-82-1	99.5	1000 +/- 5.0	LB48083
1,2,4,5-TETRACHLOROBENZENE	95-94-3	99.9	1000 +/- 5.0	LB61817
1,3-DICHLOROBENZENE	541-73-1	99.9	1000 +/- 5.0	LB68066
1,4-DICHLOROBENZENE	106-46-7	99.9	1000 +/- 5.0	LB69983
1,4-DIOXANE	123-91-1	99.9	1002 +/- 5.0	LB82982
2-CHLORONAPHTHALENE	91-58-7	99.4	1000 +/- 5.0	LB48170
2-CHLOROPHENOL	95-57-8	99.6	999 +/- 5.0	LB83266

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM

(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.

Elwood Doughty
QA Manager

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.

SUPELCO®
Analytical
595 North Harrison Road • Bellefonte, PA
16823-0048 USA • Phone (814) 359-3441

Certificate of Composition

DESCRIPTION: TEST AMERICA

QUOTE 21492575 LOT NO.: LB90764 EXPIRATION DATE: Aug-2013

SOLVENT: BENZENE 25 %
METHYLENE CHLORIDE 75 %

ANALYTE (1)	CAS NUMBER	PERCENT PURITY (2)	WEIGHT CONCENTRATION (3)	SUPELCO LOT NO
2-METHYL-4,6-DINITROPHENOL	534-52-1	99.9	1001 +/- 5.0	LB31592
2-METHYLNAPHTHALENE	91-57-6	98.3	1000 +/- 5.0	LB44448
2-METHYLPHENOL	95-48-7	99.8	1000 +/- 5.0	LB30223
2-NITROANILINE	88-74-4	99.9	1000 +/- 5.0	LB49936
2-NITROPHENOL	88-75-5	99.9	1000 +/- 5.0	LB44736
2,3,4,6-TETRACHLOROPHENOL	58-90-2	98.4	1000 +/- 5.0	LB75078
2,4-DICHLOROPHENOL	120-83-2	98.8	1002 +/- 5.0	LB76837
2,4-DIMETHYLPHENOL	105-67-9	99.9	1000 +/- 5.0	LB88935
2,4-DINITROPHENOL	51-28-5	98.6	2003 +/- 10.0	LB28389
2,4-DINITROTOLUENE	121-14-2	96.0	1000 +/- 5.0	LB46632
2,4,5-TRICHLOROPHENOL	95-95-4	99.9	1000 +/- 5.0	LB35288
2,4,6-TRICHLOROPHENOL	88-06-2	99.9	1000 +/- 5.0	LB65559
2,6-DICHLOROPHENOL	87-65-0	99.9	1002 +/- 5.0	LB03525
2,6-DINITROTOLUENE	606-20-2	99.9	1000 +/- 5.0	LB79891
3-NITROANILINE	99-09-2	99.9	1000 +/- 5.0	LB73829
3,3-DICHLOROBENZIDINE	91-94-1	99.4	1000 +/- 5.0	LB68654
4-BROMOPHENYLPHENYL ETHER	101-55-3	98.8	1000 +/- 5.0	LB63786
4-CHLORO-3-METHYLPHENOL	59-50-7	99.9	1000 +/- 5.0	LB83265
4-CHLOROANILINE	106-47-8	99.9	1000 +/- 5.0	LB82916

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM

(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.

Elwood Doughty
QA Manager

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.

SUPELCO® Analytical
595 North Harrison Road • Bellefonte, PA
16823-0048 USA • Phone (814) 359-3441

Certificate of Composition

DESCRIPTION: TEST AMERICA

QUOTE 21492575 LOT NO.: LB90764 EXPIRATION DATE: Aug-2013

SOLVENT: BENZENE 25 %
METHYLENE CHLORIDE 75 %

ANALYTE (1)	CAS NUMBER	PERCENT PURITY (2)	WEIGHT CONCENTRATION (3)	SUPELCO LOT NO
4-CHLOROPHENYLPHENYL ETHER	7005-72-3	99.9	1000 +/- 5.0	LB72185
4-METHYLPHENOL	106-44-5	99.9	1000 +/- 5.0	LB32518
4-NITROANILINE	100-01-6	99.9	1000 +/- 5.0	LB42566
4-NITROPHENOL	100-02-7	99.9	1001 +/- 5.0	LB83255

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM

(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.

Elwood Doughty
QA Manager

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.

SUPELCO® Analytical
595 North Harrison Road • Bellefonte, PA
16823-0048 USA • Phone (814) 359-3441

Certificate of Analysis

Semi-Volatiles Internal Standard Mixture

Product Number: US-108N **Page:** 1 of 1

Lot Number: CH-1761 **Lot Issue Date:** 02-Jun-2011 **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
acenaphthene-d10	015067-26-2	RM01458/PR-19991	4013 ± 20 µg/mL
chrysene-d12	001719-03-5	RM01460/Z421P15	4013 ± 20 µg/mL
1,4-dichlorobenzene-d4	003855-82-1	RM01700/PR-12866	4013 ± 20 µg/mL
naphthalene-d8	001146-65-2	RM01459/PR-19724	4013 ± 20 µg/mL
perylene-d12	001520-96-3	RM01461/P199BP2	4014 ± 20 µg/mL
phenanthrene-d10	001517-22-2	RM01462/PR-19222	4013 ± 20 µg/mL

Matrix: methylene chloride (dichloromethane)

Storage: Store at Room Temperature (18-25° 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. 09-100.

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
www.ultrasci.com

William J. Leary
Quality Assurance Manager

Semi-Volatiles Internal Standard Mixture

Print Components

Component Information for US-108N

Analyte	Concentration
acenaphthene-d10	4000 µg/mL
chrysene-d12	4000 µg/mL
1,4-dichlorobenzene-d4	4000 µg/mL
naphthalene-d8	4000 µg/mL
perylene-d12	4000 µg/mL
phenanthrene-d10	4000 µg/mL

Matrix Details

Matrix	methylene chloride (dichloromethane)

Copyright © 2006 - 2012 by ULTRA Scientific, Inc.

SMIS_00004

US-108N
Lot: CH-1761
Exp: 06/30/2014
ULTRA
1 mL
Semi-Volatiles Internal Standard Mixture
6 analyte(s) at 4000 µg/mL in dichloromethane
For Lab Use Only
250 Smith St, No Kingstown, RI 02852 USA

125 Market Street
New Haven, CT 06513
USA

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

CATALOG NO: AK-101.0-GCS-BTEX
DESCRIPTION: Gasoline Calibration Standard
LOT: B5040009
SOLVENT: Methanol

EXPIRATION: Apr 5 , 2015
DATE CERTIFIED: Apr 5, 2005
SAMPLE SIZE: disc.
STORAGE CONDITION: Ambient
HAZARDS: HIGHLY FLAMMABLE

Refer to the MSDS for additional safety information

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	Cas Number	Purity % (GC/FID)	Prepared Concentration[1] %w/v	Certified Analyte Concentration[2] %w/v
Benzene	71-43-2	0.006	0.008	.000
Toluene	108-88-3	0.027	0.034	.000
Ethylbenzene	100-41-4	0.006	0.008	.000
m+p-Xylene	N/A	0.023	0.029	.000
o-Xylene	95-47-6	0.009	0.012	.000

5 Components

Premium, Regular leaded, and Regular unleaded gasoline mix. The BTEX concentrations were determined analytically.

1. All weights are traceable through NIST, Test No. 822/254480
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±6%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

For use in routine laboratory analysis.

Certified by: R. Cooper
Russ Cooper, QC Manager

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

Reid 7/6/12

BTEX in Gasoline

Product Number: BTX-3000 **Page:** 1 of 1

Lot Number: S-0681W **Lot Issue Date:** Sep-2010 **Expiration Date:** Oct-2013

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
tert-butylmethyl ether	001634-04-4	100	108511 ± 543 µg/mL
benzene	000071-43-2	100	5456 ± 27 µg/mL
toluene	000108-88-3	100	23472 ± 117 µg/mL
ethylbenzene	000100-41-4	100	7802 ± 39 µg/mL
o-xylene	000095-47-6	100	9803 ± 49 µg/mL
m/p-xylenes	001330-20-7	100	23364 ± 117 µg/mL
isopropylbenzene	000098-82-8	100	830.1 ± 4.2 µg/mL
naphthalene	000091-20-3	100	1904 ± 10 µg/mL

Matrix: gasoline

Storage: Store at Room Temperature (18-25° 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. 09-1000

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
www.ultrasci.com

William J Leary
Quality Assurance Manager

Surrogate

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

alpha,alpha,alpha-Trifluorotoluene Solution

Received 11/10/14

Product Number: STS-220N **Page:** 1 of 1

Lot Number: CE-1903A **Lot Issue Date:** 28-Jun-2011 **Expiration Date:** 31-Jul-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
a,a,a-trifluorotoluene	000098-08-8	TS 11520AS	2010 ± 10 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. 0851-01

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

3/15/11
TS

RESTEK

Certificate of Analysis

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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)

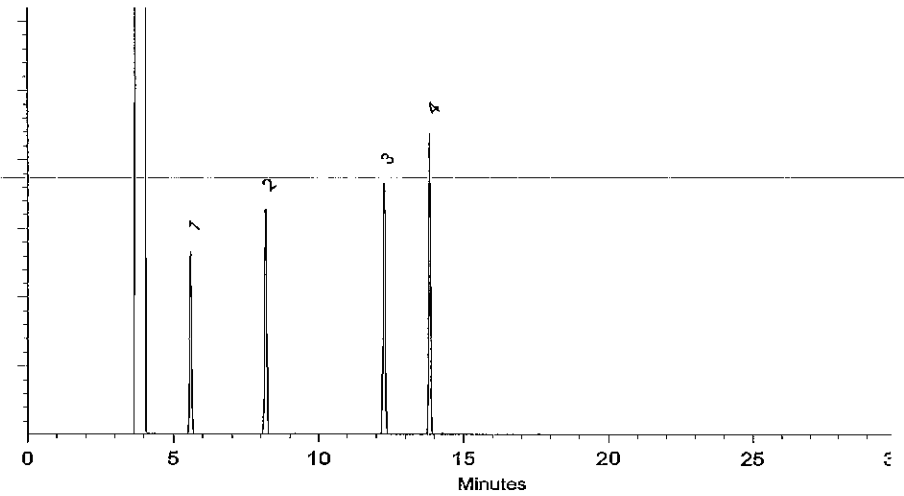
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

SUPELCO Analytical
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

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.

SUPELCO Analytical
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

11/23/11
FS

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

11/22/11 TS

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

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.

SUPELCO Analytical
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Certificate of Analysis

Rec'd 11-26-12

DESCRIPTION: 8260 Ketones Mix

CATALOG NO.: 861149 MFG DATE: Nov-2012

LOT NO.: LB96725 EXPIRATION DATE: Apr-2015

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	99.8	2000	1884	+/- 14.5	LB79319
CYCLOHEXANONE	108-94-1	99.9	20000	19687	+/- 124.1	LB86837
2-BUTANONE	78-93-3	99.9	2000	1890	+/- 11.6	LB38154
2-HEXANONE	591-78-6	99.9	2000	1908	+/- 14.6	LB82424
4-METHYL-2-PENTANONE	108-10-1	99.9	2000	1886	+/- 14.9	LB88392

(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.

Duane Funk

Duane Funk
Quality Manager

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.

SUPELCO Analytical
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

Rec: 1/31/13

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.

ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01

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

12/13/12
TS

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.

ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01
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

Custom Standard

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.

ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01
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

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.

ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01
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

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.

ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01
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

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

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

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

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

Certificate of Analysis

RGC '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

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

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.

ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01
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

Certificate of Analysis

2/15/13
TS

ULTRA SCIENTIFIC
Analytical Solutions

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

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 • USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

Rec 31313

tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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
fax: 540.585.3012
info@inorganicventures.com

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

L635052

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 • USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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	

635056

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 • USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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.

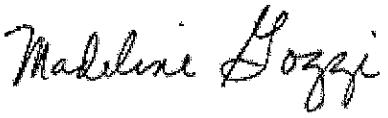
11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations 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

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 • USA
inorganicventures.com

tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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 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(H2O)6+2

Chemical Compatibility - Soluble in HCl and HNO3. Avoid H2SO4, HF, H3PO4 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% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.

Ca Containing Samples (Preparation and Solution) - Metal (best dissolved in diluted HNO3); 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 SiO2) .The oxide, hydroxide, carbonate, phosphate, and fluoride of calcium are soluble in % levels of HCl or HNO3. The sulfates (gypsum, anhydrite, etc.), certain silicates and complex compounds require fusion with Na2CO3 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.

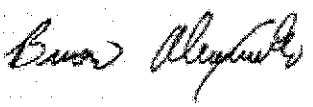
11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

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	

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 • USA
inorganicventures.com
tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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

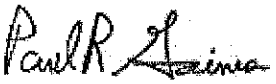
11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (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	

635057

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 • USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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 11/13/12 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	

#424660

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 • USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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.

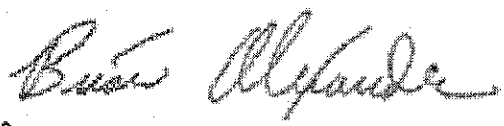
11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

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	

INORGANIC™ VENTURES
300 Technology Drive
Christiansburg, VA 24073 • USA
inorganicventures.com
tel 800.669.6789 • 540.585.3033
fax 540.585.3012
info@inorganicventures.com

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	

6235055

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 • USA
inorganicventures.com
tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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.

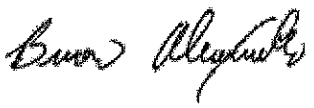
11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations 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	

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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	

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com
tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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 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	

635053

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 • USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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** **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 $(\bar{x}) = \frac{\Sigma x_i}{n}$

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**	**1,002 ± 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(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.

Ni Containing Samples (Preparation and Solution) - Metal (Soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3).

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
300 Technology Drive
Christiansburg, VA 24073 • USA
inorganicventures.com
tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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	< 0.067952
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	

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 • USA
inorganicventures.com

1635014

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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:

©2011 SPEX CertiPrep, Inc.

INORGANIC™ VENTURES
300 Technology Drive
Christiansburg, VA 24073 • USA
inorganicventures.com
toll: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

CERTIFICATE OF ANALYSIS

Rec 3B13

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.

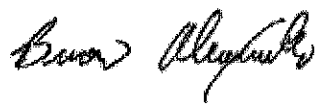
Certification Date: March 06, 2012

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

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 • USA
inorganicventures.com
tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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 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

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 • USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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-ICPMS

Lot Number: **G2-MEB455121**

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	200.1 ± 1.3 µg/mL	Arsenic, As	4.001 ± 0.026 µg/mL	Barium, Ba	200.0 ± 1.3 µg/mL
Beryllium, Be	5.001 ± 0.028 µg/mL	Boron, B	100.0 ± 0.7 µg/mL	Cadmium, Cd	5.001 ± 0.032 µg/mL
Chromium+3, Cr3	20.01 ± 0.13 µg/mL	Cobalt, Co	50.02 ± 0.33 µg/mL	Copper, Cu	25.00 ± 0.17 µg/mL
Iron, Fe	100.0 ± 0.6 µg/mL	Lead, Pb	2.000 ± 0.013 µg/mL	Manganese, Mn	50.01 ± 0.32 µg/mL
Nickel, Ni	50.01 ± 0.33 µg/mL	Selenium, Se	1.001 ± 0.007 µg/mL	Silver, Ag	5.001 ± 0.032 µg/mL
Strontium, Sr	100.0 ± 0.6 µg/mL	Thallium, Tl	5.001 ± 0.032 µg/mL	Vanadium, V	50.00 ± 0.35 µg/mL
Zinc, Zn	50.00 ± 0.33 µg/mL				

Certified Density: 1.005 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 $(\pm) = 2 [\Sigma(s_i)^2]^{\frac{1}{2}}$ 2 = the coverage factor.

$[\Sigma(s_i)^2]^{\frac{1}{2}}$ = 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.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#	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	100818
B	ICP Assay	3107	070514	Ba	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	070222	Be	Calculated		See Sec. 4.2
Be	ICP Assay	3105a	090514	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	Mn	ICP Assay	3132	050429
Mn	EDTA	928	928	Ni	ICP Assay	3136	000612
Ni	EDTA	928	928	Pb	ICP Assay	3128	101026
Pb	EDTA	928	928	Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901	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 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.

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. 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: January 09, 2013

Expiration Date: EXPIRES 01/2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Christy Shortridge
Product Documentation Technician

Christy Shortridge

Certificate Approved By: Brian Alexander
PhD., Quality Control Supervisor

Brian Alexander

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

Paul R Gaines

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 • USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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

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

Page 401 of 1917

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

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 • USA
inorganicventures.com
tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

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 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 **DESCRIPTION OF CRM** Custom Solution

Catalog No.: TAPITT-MS-C

Lot Number: **G2-MEB458094**

Matrix: 3% HNO3(v/v), tr. HF

1,000 µg/mL ea:
Si,

200 µg/mL ea:
Sn,

100 µg/mL ea:
Mo, Ti,

50 µg/mL ea:
Sb

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Antimony, Sb	50.02 ± 0.38 µg/mL	Molybdenum, Mo	100.0 ± 0.7 µg/mL	Silicon, Si	1,000 ± 7 µg/mL
Tin, Sn	200.0 ± 1.4 µg/mL	Titanium, Ti	100.1 ± 0.7 µg/mL		

Certified Density: 1.020 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 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#
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	ICP Assay	3162a	060808				

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.

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
- 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: 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

Rcvd 8/28/12 PM

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 31661 **Lot No.:** A085338

Description : 3,5-Dinitroaniline Standard

SV Stock Solution, 3,5-Dinitroaniline Std, 1000µg/ml, Acetonitrile, 1ml/ampule

Container Size : [5] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : [1] July 2016 **Storage:** 10°C or colder

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	Grav.Uncert. (95% C.L.; K=2) [4]
1	3,5-Dinitroaniline	618-87-1	99%	1,000.0 ug/mL	+/- 5.9397 ug/mL
Solvent:	Acetonitrile	75-05-8	99%		

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

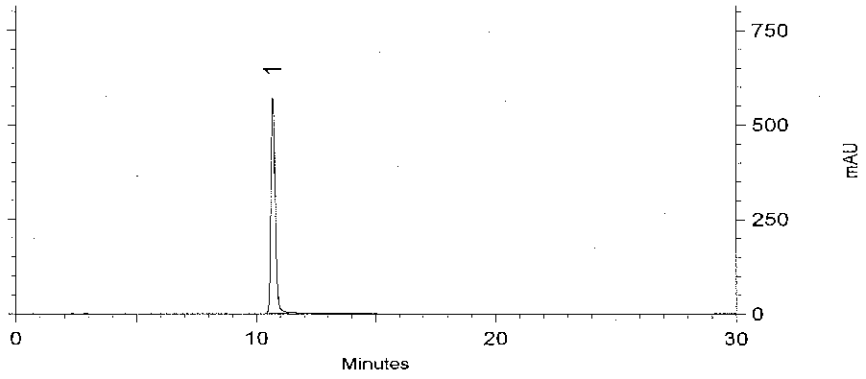
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Comp

Det. Type:
Wavelength: 210 nm



Diane Shaffer - QA Analyst

Date Passed: 02-Dec-2011 **Balance:** 1128342313

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 is the last day of the month listed.

2A Purity and chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Purity value is rounded to the nearest whole number. See data pack or contact Restek 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.

5A Containers are overfilled to ensure the packaged amount, as a minimum.

5B Restek supplies deactivated vials along with most standards packed in 2 mL ampules, for the handling and storage of standards. Due to space constraints, Restek does not supply vials for larger volume ampules. Samples should be transferred into deactivated vials for handling and storage. 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.

Rcvd 8/28/17 RM

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

Certificate of Analysis

ACCREDITED
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
Testing Laboratory
Certificate #3222.02

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. : 31452 **Lot No.:** A087054

Description : 8330 Internal Standard Mix

8330 Internal Std 3, 4-Dinitrotoluene 1000ug/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 2017 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	3,4-Dinitrotoluene	1,000.0 ug/mL	+/- 5.9397	ug/mL	Gravimetric
	CAS # 610-39-9		+/- 12.1149	ug/mL	Unstressed
	Purity 99%		+/- 13.6550	ug/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

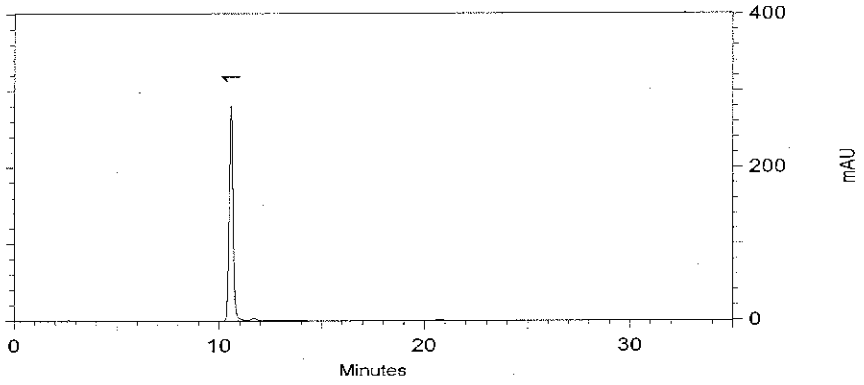
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Comp

Det. Type:
Wavelength: 210 nm



Valerie N. Walters - QA Analyst

Date Passed: 06-Apr-2012 **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.

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

Rcvd 8/28/12 BM

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 33905 **Lot No.:** A084334

Description : 8330 Calibration Standard

Nitroaromatics and Nitramine Explosives by HPLC, 1,000µg/ml, Acetonitrile, 1ml/ampule

Container Size : [5,1] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : May 2015 **Storage:** 10°C or colder

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	Grav.Uncert. (95% C.L.; K=2) [4]
1	HMX	2691-41-0	99%	1,000.0 ug/mL	+/- 5.9397 ug/mL
2	RDX	121-82-4	98%	999.6 ug/mL	+/- 5.9373 ug/mL
3	1,3,5-Trinitrobenzene	99-35-4	98%	999.6 ug/mL	+/- 5.9373 ug/mL
4	1,3-Dinitrobenzene	99-65-0	97%	1,000.1 ug/mL	+/- 5.9401 ug/mL
5	Nitrobenzene	98-95-3	99%	1,000.0 ug/mL	+/- 5.9397 ug/mL
6	Tetryl	479-45-8	99%	1,000.0 ug/mL	+/- 5.9397 ug/mL
7	2,4,6-Trinitrotoluene	118-96-7	98%	999.6 ug/mL	+/- 5.9373 ug/mL
8	2-Amino-4,6-dinitrotoluene	35572-78-2	99%	1,000.0 ug/mL	+/- 5.9397 ug/mL
9	4-Amino-2,6-dinitrotoluene	19406-51-0	98%	999.6 ug/mL	+/- 5.9373 ug/mL
10	2,4-Dinitrotoluene	121-14-2	99%	1,000.0 ug/mL	+/- 5.9397 ug/mL
11	2,6-Dinitrotoluene	606-20-2	99%	1,000.0 ug/mL	+/- 5.9397 ug/mL
12	2-Nitrotoluene	88-72-2	99%	1,000.0 ug/mL	+/- 5.9397 ug/mL
13	4-Nitrotoluene	99-99-0	97%	970.0 ug/mL	+/- 5.7615 ug/mL
14	3-Nitrotoluene	99-08-1	97%	1,000.1 ug/mL	+/- 5.9401 ug/mL

Solvent: Acetonitrile 75-05-8 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

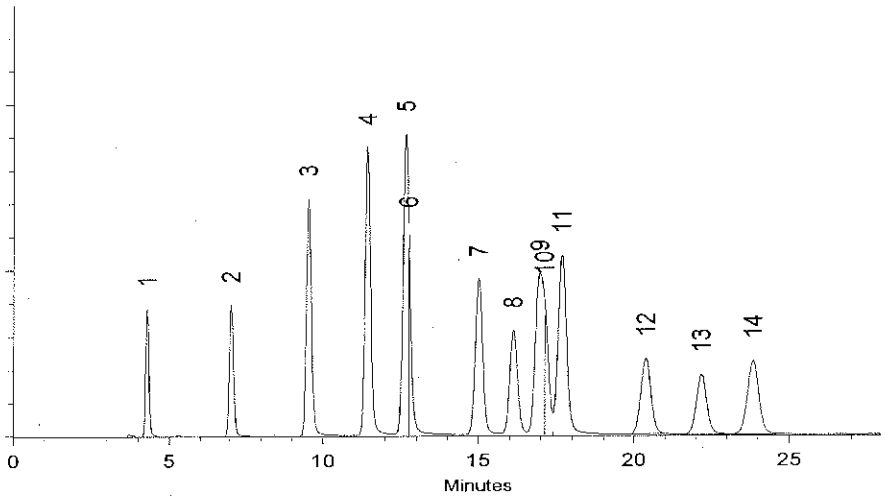
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Comp

Det. Type:
Wavelength: 210 nm



Diane Shaffer - QA Analyst

Date Passed: 22-Nov-2011 **Balance:** 1128342314

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 is the last day of the month listed.

2A Purity and chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Purity value is rounded to the nearest whole number. See data pack or contact Restek 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.

5A Containers are overfilled to ensure the packaged amount, as a minimum.

5B Restek supplies deactivated vials along with most standards packed in 2 mL ampules, for the handling and storage of standards. Due to space constraints, Restek does not supply vials for larger volume ampules. Samples should be transferred into deactivated vials for handling and storage. 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.

Note:

HPNGTA-00001

5

10

RESTEK

Certificate of Analysis

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. :	31602	**Lot No.:**	A076817
Description :	Nitroguanidine Standard		
Container Size :	2 mL	**Pkg Amt:**	> 1 mL
Expiration Date : [1]	September 2015	**Storage:**	Refrigerate

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. [3] (weight/volume)	% Grav.Uncert. [4] (95% C.L., K=2)
1	Nitroguanidine	556-88-7	99%	1,000.000 ug/ml	+/-0.59 %
Solvent:	Methanol	67-56-1	99%		

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

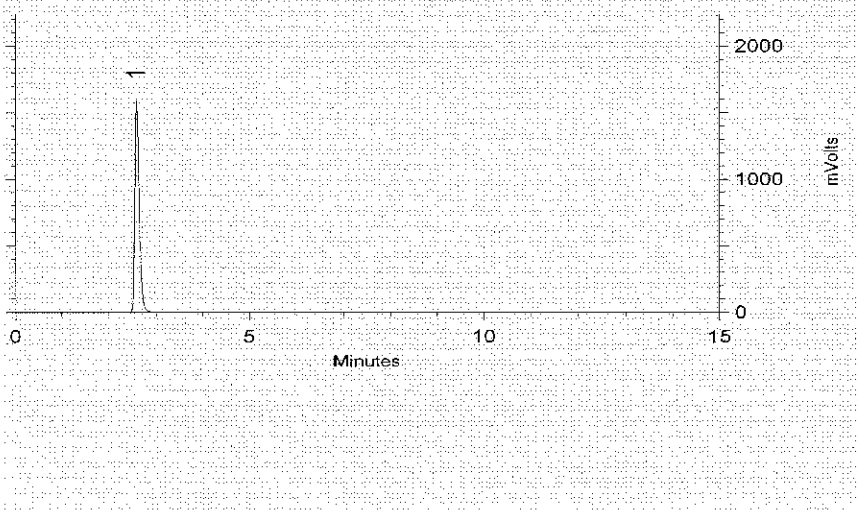
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Comp

Det. Type:
Wavelength: 210 nm



Diane Shaffer - QA Analyst

Date Passed: 16-Sep-2010 **Balance:** 1128342313

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.

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-6
Description: Nitroguanidine
Lot: 211111014
Solvent: Methanol

Date Certified: Nov 1, 2011
Expiration: Nov 1, 2013
Sample Size: 1 mL
Storage Condition: Freeze (<-10° C)
Hazards: HIGHLY FLAMMABLE

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (HPLC)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Nitroguanidine	556-88-7	100	100.5	100.5

Rcvd 5/25/12

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No.822-275872-11
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

For use in routine laboratory analysis.

See reverse side for additional information
Refer to the MSDS for additional safety information

Certified by: R. Cooper
Russ Cooper, QC Manager

Rcvd 3/20/12

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

ACCREDITED
Reference Material Producer
Certificate #3222.01

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. : 31499 **Lot No.:** A086505

Description : Picric Acid Standard

1000ug/mL, Methanol, 1mL/ampul *PGI BOX REQUIRED* SHIP FED EX GROUND ONLY

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2017 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Picric Acid	1,000.0 ug/mL	+/- 5.9397	ug/mL	Gravimetric
	CAS # 88-89-1		+/- 32.2037	ug/mL	Unstressed
	Purity 99%		+/- 44.7693	ug/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.53mm x 0.5um
Rtx-5 (cat.# 10240)

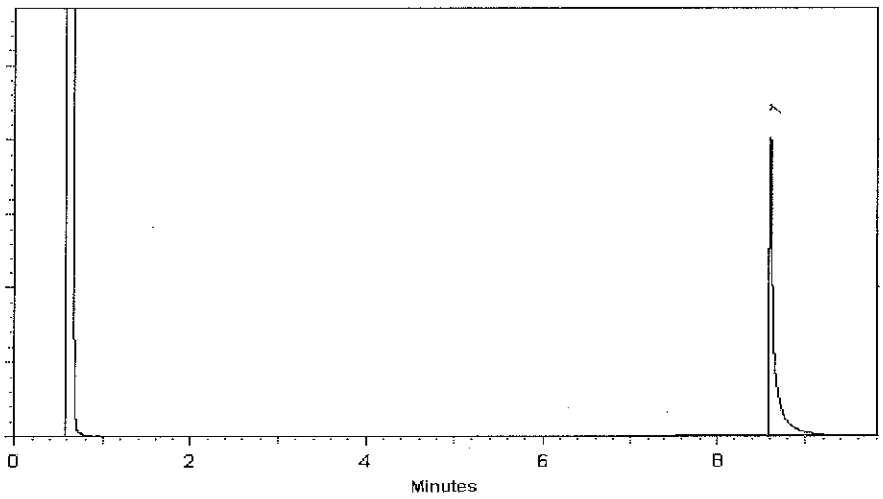
Carrier Gas:
hydrogen-constant flow 11 mL/min

Temp. Program:
70°C (hold 2 min.) to 225°C
@ 20°C/min.

Inj. Temp:
cold on-column

Det. Temp:
335°C

Det. Type:
FID



Valerie N. Walters - QA Analyst

Date Passed: 16-Mar-2012 **Balance:** 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Certification Summary

Client: Environmental Chemical Corp.
Project/Site: RVAAP - ECC

TestAmerica Job ID: 240-21987-1

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	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	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
TestAmerica Sacramento	A2LA	DoD ELAP		2928-01
TestAmerica Sacramento	Alaska (UST)	State Program	10	UST-055
TestAmerica Sacramento	Arizona	State Program	9	AZ0708
TestAmerica Sacramento	Arkansas DEQ	State Program	6	88-0691
TestAmerica Sacramento	California	NELAP	9	1119CA
TestAmerica Sacramento	Colorado	State Program	8	N/A
TestAmerica Sacramento	Connecticut	State Program	1	PH-0691
TestAmerica Sacramento	Florida	NELAP	4	E87570
TestAmerica Sacramento	Guam	State Program	9	N/A
TestAmerica Sacramento	Hawaii	State Program	9	N/A
TestAmerica Sacramento	Illinois	NELAP	5	200060
TestAmerica Sacramento	Kansas	NELAP	7	E-10375
TestAmerica Sacramento	Louisiana	NELAP	6	30612
TestAmerica Sacramento	Michigan	State Program	5	9947

Certification Summary

Client: Environmental Chemical Corp.
Project/Site: RVAAP - ECC

TestAmerica Job ID: 240-21987-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Sacramento	Nevada	State Program	9	CA44
TestAmerica Sacramento	New Jersey	NELAP	2	CA005
TestAmerica Sacramento	New York	NELAP	2	11666
TestAmerica Sacramento	Northern Mariana Islands	State Program	9	MP0007
TestAmerica Sacramento	Oregon	NELAP	10	CA200005
TestAmerica Sacramento	Pennsylvania	NELAP	3	68-01272
TestAmerica Sacramento	South Carolina	State Program	4	87014
TestAmerica Sacramento	Texas	NELAP	6	T104704399-08-TX
TestAmerica Sacramento	US Fish & Wildlife	Federal		LE148388-0
TestAmerica Sacramento	USDA	Federal		P330-11-00436
TestAmerica Sacramento	USEPA UCMR	Federal	1	CA00044
TestAmerica Sacramento	Utah	NELAP	8	QUAN1
TestAmerica Sacramento	Washington	State Program	10	C581
TestAmerica Sacramento	West Virginia	State Program	3	9930C
TestAmerica Sacramento	West Virginia DEP	State Program	3	334
TestAmerica Sacramento	Wyoming	State Program	8	8TMS-Q

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.: 240-21987-1

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 240-79725/5	107	105	112	110
	MRL 240-79725/14	103	100	106	102

	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.: 240-21987-1

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 #
079-0007-0001-SOUR CEWATER	240-21987-1	108	101	110	107
079-0008-0001-TB TRIP BLANK	240-21987-2	104	105	109	105
	MB 240-79725/6	101	103	109	105
	LCS 240-79725/4	109	103	110	103
079-0007-0001-SOUR CEWATER MS	240-21987-1 MS	109	105	110	106
079-0007-0001-SOUR CEWATER MSD	240-21987-1 MSD	107	101	108	107

	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.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX129316.D

Lab ID: LCS 240-79725/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	22.7	114	65-130	
1,1,2,2-Tetrachloroethane	20.0	18.1	90	65-130	
1,1,2-Trichloroethane	20.0	18.2	91	75-125	
1,1-Dichloroethane	20.0	19.3	96	70-135	
1,1-Dichloroethene	20.0	19.1	95	70-130	
1,2-Dichloroethane	20.0	20.2	101	70-130	
1,2-Dichloropropane	20.0	19.0	95	75-125	
2-Butanone (MEK)	40.0	34.7	87	30-150	
2-Hexanone	40.0	34.6	87	55-130	
4-Methyl-2-pentanone (MIBK)	40.0	32.1	80	60-135	
Acetone	40.0	33.8	85	40-140	
Benzene	20.0	19.0	95	80-120	
Bromoform	20.0	19.2	96	70-130	
Bromomethane	20.0	15.2	76	30-145	
Carbon disulfide	20.0	19.5	98	35-160	
Carbon tetrachloride	20.0	25.6	128	65-140	
Chlorobenzene	20.0	19.5	97	80-120	
Chloromethane	20.0	17.5	87	40-125	
cis-1,3-Dichloropropene	20.0	18.8	94	70-130	
Dibromochloromethane	20.0	19.4	97	60-135	
Bromodichloromethane	20.0	20.2	101	75-120	
Ethylbenzene	20.0	19.6	98	75-125	
Methyl tert-butyl ether	20.0	17.8	89	65-125	
Methylene Chloride	20.0	19.7	98	55-140	
Styrene	20.0	21.2	106	65-135	
Tetrachloroethene	20.0	20.3	102	45-150	
Toluene	20.0	20.4	102	75-120	
trans-1,3-Dichloropropene	20.0	20.4	102	55-140	
Trichloroethene	20.0	19.6	98	70-125	
Vinyl chloride	20.0	17.7	89	50-145	
Xylenes, Total	60.0	59.3	99	75-130	
Chloroform	20.0	18.9	95	65-135	
Bromochloromethane	20.0	20.5	102	65-130	
Chloroethane	20.0	17.8	89	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.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX129317.D

Lab ID: MRL 240-79725/5 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	0.00100	0.000959 J	96	70-130	
1,1,2,2-Tetrachloroethane	0.00100	0.00109	109	70-130	
1,1,2-Trichloroethane	0.00100	0.000795 J	80	70-130	
1,1-Dichloroethane	0.00100	0.000850 J	85	70-130	
1,1-Dichloroethene	0.00100	0.000973 J	97	70-130	
1,2-Dichloroethane	0.00100	0.00115	115	70-130	
1,2-Dichloropropane	0.00100	0.000868 J	87	70-130	
2-Butanone (MEK)	0.0100	0.00675 J	67	70-130	^
2-Hexanone	0.0100	0.00867 J	87	70-130	
4-Methyl-2-pentanone (MIBK)	0.0100	0.00786 J	79	70-130	
Acetone	0.0100	0.00824 J	82	70-130	
Benzene	0.00100	0.000966 J	97	70-130	
Bromoform	0.00100	0.000857 J	86	70-130	
Bromomethane	0.00100	0.000956 J	96	70-130	
Carbon disulfide	0.00100	0.000842 J	84	70-130	
Carbon tetrachloride	0.00100	0.00136	136	70-130	^
Chlorobenzene	0.00100	0.000971 J	97	70-130	
Chloromethane	0.00100	0.000984 J	98	70-130	
cis-1,3-Dichloropropene	0.00100	0.000862 J	86	70-130	
Dibromochloromethane	0.00100	0.000769 J	77	70-130	
Bromodichloromethane	0.00100	0.000830 J	83	70-130	
Ethylbenzene	0.00100	0.000957 J	96	70-130	
Methyl tert-butyl ether	0.00100	0.000831 J	83	70-130	
Methylene Chloride	0.00100	0.00138	138	70-130	^
Styrene	0.00100	0.000958 J	96	70-130	
Tetrachloroethene	0.00100	0.00116	116	70-130	
Toluene	0.00100	0.00113	113	70-130	
trans-1,3-Dichloropropene	0.00100	0.000805 J	81	70-130	
Trichloroethene	0.00100	0.000931 J	93	70-130	
Vinyl chloride	0.00100	0.000954 J	95	70-130	
Xylenes, Total	0.00300	0.00310	103	70-130	
Chloroform	0.00100	0.000796 J	80	70-130	
Bromochloromethane	0.00100	0.000968 J	97	70-130	
Chloroethane	0.00100	0.00101	101	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.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX129326.D

Lab ID: MRL 240-79725/14 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	0.00100	0.000953 J	95	70-130	
1,1,2,2-Tetrachloroethane	0.00100	0.000888 J	89	70-130	
1,1,2-Trichloroethane	0.00100	0.000755 J	75	70-130	
1,1-Dichloroethane	0.00100	0.000803 J	80	70-130	
1,1-Dichloroethene	0.00100	0.000818 J	82	70-130	
1,2-Dichloroethane	0.00100	0.00100	100	70-130	
1,2-Dichloropropane	0.00100	0.000871 J	87	70-130	
2-Butanone (MEK)	0.0100	0.00692 J	69	70-130	^
2-Hexanone	0.0100	0.00702 J	70	70-130	
4-Methyl-2-pentanone (MIBK)	0.0100	0.00664 J	66	70-130	^
Acetone	0.0100	0.00654 J	65	70-130	^
Benzene	0.00100	0.000907 J	91	70-130	
Bromoform	0.00100	0.000641 J	64	70-130	^
Bromomethane	0.00100	0.00123	123	70-130	
Carbon disulfide	0.00100	0.000845 J	85	70-130	
Carbon tetrachloride	0.00100	0.000966 J	97	70-130	
Chlorobenzene	0.00100	0.000923 J	92	70-130	
Chloromethane	0.00100	0.00133	133	70-130	^
cis-1,3-Dichloropropene	0.00100	0.000817 J	82	70-130	
Dibromochloromethane	0.00100	0.000975 J	97	70-130	
Bromodichloromethane	0.00100	0.000900 J	90	70-130	
Ethylbenzene	0.00100	0.000840 J	84	70-130	
Methyl tert-butyl ether	0.00100	0.000814 J	81	70-130	
Methylene Chloride	0.00100	0.00150	150	70-130	^
Styrene	0.00100	0.000848 J	85	70-130	
Tetrachloroethene	0.00100	0.00101	101	70-130	
Toluene	0.00100	0.000966 J	97	70-130	
trans-1,3-Dichloropropene	0.00100	0.000873 J	87	70-130	
Trichloroethene	0.00100	0.000718 J	72	70-130	
Vinyl chloride	0.00100	0.00133	133	70-130	^
Xylenes, Total	0.00300	0.00263	88	70-130	
Chloroform	0.00100	0.000920 J	92	70-130	
Bromochloromethane	0.00100	0.000990 J	99	70-130	
Chloroethane	0.00100	0.00129	129	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260B/DoD

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX129324.D

Lab ID: 240-21987-1 MS Client ID: 079-0007-0001-SOURCEWATER MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	0.25 U	22.3	112	65-130	
1,1,2,2-Tetrachloroethane	20.0	0.25 U	18.4	92	65-130	
1,1,2-Trichloroethane	20.0	0.50 U	18.6	93	75-125	
1,1-Dichloroethane	20.0	0.25 U	19.9	99	70-135	
1,1-Dichloroethene	20.0	0.25 U	19.6	98	70-130	
1,2-Dichloroethane	20.0	0.25 U	20.8	104	70-130	
1,2-Dichloropropane	20.0	0.25 U	19.4	97	75-125	
2-Butanone (MEK)	40.0	0.57 U	39.4	98	30-150	
2-Hexanone	40.0	0.50 U	37.1	93	55-130	
4-Methyl-2-pentanone (MIBK)	40.0	0.50 U	32.9	82	60-135	
Acetone	40.0	1.1 U	32.0	80	40-140	
Benzene	20.0	0.25 U	19.5	98	80-120	
Bromoform	20.0	0.64 U	18.4	92	70-130	
Bromomethane	20.0	0.50 U	15.7	78	30-145	
Carbon disulfide	20.0	0.25 U	19.3	96	35-160	
Carbon tetrachloride	20.0	0.25 U	25.1	126	65-140	
Chlorobenzene	20.0	0.25 U	19.6	98	80-120	
Chloromethane	20.0	0.50 U	17.5	88	40-125	
cis-1,3-Dichloropropene	20.0	0.25 U	18.5	93	70-130	
Dibromochloromethane	20.0	0.25 U	19.8	99	60-135	
Bromodichloromethane	20.0	0.25 U	19.8	99	75-120	
Ethylbenzene	20.0	0.25 U	19.9	100	75-125	
Methyl tert-butyl ether	20.0	0.25 U	18.0	90	65-125	
Methylene Chloride	20.0	0.50 U	18.7	94	55-140	
Styrene	20.0	0.25 U	20.5	103	65-135	
Tetrachloroethene	20.0	0.50 U	21.3	107	45-150	
Toluene	20.0	0.25 U	20.2	101	75-120	
trans-1,3-Dichloropropene	20.0	0.25 U	20.2	101	55-140	
Trichloroethene	20.0	0.25 U	20.1	100	70-125	
Vinyl chloride	20.0	0.25 U	18.5	93	50-145	
Xylenes, Total	60.0	0.75 U	58.7	98	75-130	
Chloroform	20.0	0.25 U	19.9	99	65-135	
Bromochloromethane	20.0	0.50 U	24.1	121	65-130	
Chloroethane	20.0	0.50 U	18.0	90	60-135	

Column to be used to flag recovery and RPD values

FORM III 8260B/DoD

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX129325.D

Lab ID: 240-21987-1 MSD Client ID: 079-0007-0001-SOURCEWATER MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	22.1	110	1	30	65-130	
1,1,2,2-Tetrachloroethane	20.0	18.7	94	1	30	65-130	
1,1,2-Trichloroethane	20.0	18.6	93	0	30	75-125	
1,1-Dichloroethane	20.0	18.9	95	5	30	70-135	
1,1-Dichloroethene	20.0	18.9	94	4	30	70-130	
1,2-Dichloroethane	20.0	20.1	101	3	30	70-130	
1,2-Dichloropropane	20.0	18.7	94	4	30	75-125	
2-Butanone (MEK)	40.0	38.1	95	3	30	30-150	
2-Hexanone	40.0	36.1	90	3	30	55-130	
4-Methyl-2-pentanone (MIBK)	40.0	33.6	84	2	30	60-135	
Acetone	40.0	35.0	87	9	30	40-140	
Benzene	20.0	18.8	94	4	30	80-120	
Bromoform	20.0	19.1	95	4	30	70-130	
Bromomethane	20.0	15.6	78	0	30	30-145	
Carbon disulfide	20.0	18.9	94	2	30	35-160	
Carbon tetrachloride	20.0	25.6	128	2	30	65-140	
Chlorobenzene	20.0	19.2	96	2	30	80-120	
Chloromethane	20.0	17.5	88	0	30	40-125	
cis-1,3-Dichloropropene	20.0	18.5	92	0	30	70-130	
Dibromochloromethane	20.0	19.4	97	2	30	60-135	
Bromodichloromethane	20.0	19.8	99	0	30	75-120	
Ethylbenzene	20.0	19.6	98	2	30	75-125	
Methyl tert-butyl ether	20.0	17.9	90	1	50	65-125	
Methylene Chloride	20.0	18.0	90	4	30	55-140	
Styrene	20.0	20.2	101	2	30	65-135	
Tetrachloroethene	20.0	20.1	101	6	30	45-150	
Toluene	20.0	20.2	101	0	30	75-120	
trans-1,3-Dichloropropene	20.0	20.3	102	1	30	55-140	
Trichloroethene	20.0	19.1	96	5	30	70-125	
Vinyl chloride	20.0	18.2	91	2	30	50-145	
Xylenes, Total	60.0	58.1	97	1	30	75-130	
Chloroform	20.0	18.5	92	7	30	65-135	
Bromochloromethane	20.0	22.5	113	7	30	65-130	
Chloroethane	20.0	17.6	88	2	30	60-135	

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.: 240-21987-1

SDG No.:

Lab File ID: UX129318.D Lab Sample ID: MB 240-79725/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX12 Date Analyzed: 03/28/2013 10:55

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 240-79725/4	UX129316.D	03/28/2013 10:02
079-0007-0001-SOURCEWATER	240-21987-1	UX129319.D	03/28/2013 11:21
079-0008-0001-TB TRIP BLANK	240-21987-2	UX129320.D	03/28/2013 11:47
079-0007-0001-SOURCEWATER MS	240-21987-1 MS	UX129324.D	03/28/2013 13:33
079-0007-0001-SOURCEWATER MSD	240-21987-1 MSD	UX129325.D	03/28/2013 13:59

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab File ID: BFB2145.D BFB Injection Date: 03/19/2013

Instrument ID: A3UX12 BFB Injection Time: 17:39

Analysis Batch No.: 78761

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.0	
75	30.0 - 60.0 % of mass 95	48.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.0	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	73.0	
175	5.0 - 9.0 % of mass 174	5.0	(6.8)1
176	95.0 - 101.0 % of mass 174	71.0	(97.3)1
177	5.0 - 9.0 % of mass 176	5.0	(7.0)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 240-78761/3	UX129104.D	03/19/2013	18:52
	STD8260 240-78761/4	UX129105.D	03/19/2013	19:19
	STD8260 240-78761/5	UX129106.D	03/19/2013	19:45
	STD8260 240-78761/6	UX129107.D	03/19/2013	20:12
	STD8260 240-78761/7	UX129108.D	03/19/2013	20:38
	STD8260 240-78761/8	UX129109.D	03/19/2013	21:04
	ICV 240-78761/9	UX129110.D	03/19/2013	21:32

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab File ID: BFB2151.D BFB Injection Date: 03/28/2013

Instrument ID: A3UX12 BFB Injection Time: 08:11

Analysis Batch No.: 79725

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.3	
75	30.0 - 60.0 % of mass 95	46.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.4	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	72.6	
175	5.0 - 9.0 % of mass 174	6.0	(8.3)1
176	95.0 - 101.0 % of mass 174	69.6	(95.9)1
177	5.0 - 9.0 % of mass 176	5.0	(7.2)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 240-79725/2	UX129315.D	03/28/2013	09:36
	LCS 240-79725/4	UX129316.D	03/28/2013	10:02
	MRL 240-79725/5	UX129317.D	03/28/2013	10:29
	MB 240-79725/6	UX129318.D	03/28/2013	10:55
079-0007-0001-SOURCEWATER	240-21987-1	UX129319.D	03/28/2013	11:21
079-0008-0001-TB TRIP BLANK	240-21987-2	UX129320.D	03/28/2013	11:47
079-0007-0001-SOURCEWATER MS	240-21987-1 MS	UX129324.D	03/28/2013	13:33
079-0007-0001-SOURCEWATER MSD	240-21987-1 MSD	UX129325.D	03/28/2013	13:59
	MRL 240-79725/14	UX129326.D	03/28/2013	14:26
	LODV 240-79725/16	UX129328.D	03/28/2013	15:19

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Sample No.: STD8260 240-78761/6 Date Analyzed: 03/19/2013 20:12

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX129107.D Heated Purge: (Y/N) N

Calibration ID: 14180

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1625112	5.33	1252380	8.00	586319	10.24
UPPER LIMIT		3250224	5.83	2504760	8.50	1172638	10.74
LOWER LIMIT		812556	4.83	626190	7.50	293160	9.74
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-78761/9		1642021	5.33	1253876	8.00	594297	10.24
CCV 240-79725/2		1705438	5.32	1258697	8.00	612869	10.23
LCS 240-79725/4		1659289	5.33	1231555	8.00	591377	10.23
MRL 240-79725/5		1624775	5.33	1192131	8.00	561153	10.23
MB 240-79725/6		1681282	5.32	1222361	8.00	567766	10.23
240-21987-1	079-0007-0001-SOURCEWATER	1654693	5.33	1194933	8.00	521079	10.23
240-21987-2	079-0008-0001-TB TRIP BLANK	1681147	5.33	1245889	8.00	574426	10.23
240-21987-1 MS	079-0007-0001-SOURCEWATER MS	1627644	5.33	1231680	8.00	589773	10.24
240-21987-1 MSD	079-0007-0001-SOURCEWATER MSD	1691181	5.32	1249220	8.00	583325	10.23
MRL 240-79725/14		1721180	5.33	1262794	8.00	582422	10.24

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.: 240-21987-1

SDG No.:

Client Sample ID: 079-0007-0001-SOURCEWATER | Lab Sample ID: 240-21987-1

Matrix: Water | Lab File ID: UX129319.D

Analysis Method: 8260B/DoD | Date Collected: 03/14/2013 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 03/28/2013 11:21

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.: 79725 | 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.: 240-21987-1

SDG No.:

Client Sample ID: 079-0007-0001-SOURCEWATER Lab Sample ID: 240-21987-1

Matrix: Water Lab File ID: UX129319.D

Analysis Method: 8260B/DoD Date Collected: 03/14/2013 12:00

Sample wt/vol: 5(mL) Date Analyzed: 03/28/2013 11:21

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.: 79725 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	110		85-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-120
460-00-4	4-Bromofluorobenzene (Surr)	107		75-120
1868-53-7	Dibromofluoromethane (Surr)	108		85-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129319.D
Lims ID: 240-21987-C-1 Client ID: 079-0007-0001-SOURCEWATER
Inject. Date: 28-Mar-2013 11:21:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0018335-007
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 7
Lims Batch ID: 79725 Lims Sample ID: 7
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\8260_12.m
Last Update: 29-Mar-2013 09:09:26 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK001

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.333	5.334	-0.001	99	1654693	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	86	1194933	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.232	10.232	0.0	95	521079	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.765	4.766	-0.001	54	388821	21.6	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.049	5.050	-0.001	90	438884	20.3	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	83	1569890	21.9	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	90	557413	21.4	
137 Benzyl chloride	126		0.000					
149 1,3-Diethylbenzene TIC	1		0.000					
143 1,4-Dichlorobutane	1		0.000					
147 C6-C12	1		0.000					
146 Butyl Methacrylate TIC	1		0.000					
148 C6-C10	1		0.000					
142 Chlorodifluoromethane TIC	1		0.000					
12 Dichlorodifluoromethane	85		1.642					
13 Chloromethane	50		1.795					
14 Vinyl chloride	62		1.902					
15 Bromomethane	94		2.198					
16 Chloroethane	64		2.304					
17 Dichlorofluoromethane	67		2.458					
18 Trichlorofluoromethane	101		2.517					
19 Ethyl ether	59		2.718					
20 Acrolein	56		2.837					
25 Methylal	45		2.856					
22 Acetone	43		2.955					
21 1,1-Dichloroethene	61		2.955					
23 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.955					
24 Iodomethane	142		3.109					
26 Carbon disulfide	76		3.156					
27 Acetonitrile	41		3.192					
28 Methyl acetate	43		3.227					
29 3-Chloro-1-propene	76		3.227					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
30 Methylene Chloride	49		3.369					9
31 2-Methyl-2-propanol	59		3.393					
32 Acrylonitrile	53		3.523					
34 Methyl tert-butyl ether	73		3.547					
33 trans-1,2-Dichloroethene	61		3.559					
35 Hexane	57		3.772					
36 1,1-Dichloroethane	63		3.902					
37 Vinyl acetate	86		3.925					
38 Isopropyl ether	87		3.937					
39 2-Chloro-1,3-butadiene	53		3.973					
40 Tert-butyl ethyl ether	59		4.233					
42 cis-1,2-Dichloroethene	61		4.375					
43 2,2-Dichloropropane	77		4.375					
41 2-Butanone (MEK)	72		4.375					
45 Ethyl acetate	43		4.411					
44 Propionitrile	54		4.434					
46 Methacrylonitrile	41		4.553					
47 Chlorobromomethane	49		4.576					
48 Tetrahydrofuran	42		4.612					
49 Chloroform	83		4.624					
50 1,1,1-Trichloroethane	97		4.801					
51 Cyclohexane	56		4.860					
52 1,1-Dichloropropene	75		4.931					
53 Carbon tetrachloride	117		4.943					
54 Isobutyl alcohol	41		4.979					
55 Benzene	78		5.109					9
56 1,2-Dichloroethane	62		5.109					
57 Tert-amyl methyl ether	73		5.180					
58 n-Heptane	100		5.298					
59 n-Butanol	56		5.535					
61 Ethyl acrylate	55		5.605					
60 Trichloroethene	130		5.641					
63 Methylcyclohexane	55		5.807					
62 1,2-Dichloropropane	63		5.830					
64 Methyl methacrylate	41		5.890					
66 1,4-Dioxane	88		5.937					
65 Dibromomethane	174		5.937					
67 Dichlorobromomethane	83		6.055					
68 2-Nitropropane	41		6.245					
69 2-Chloroethyl vinyl ether	63		6.292					
70 cis-1,3-Dichloropropene	75		6.434					
71 4-Methyl-2-pentanone (MIBK)	43		6.564					
72 Toluene	91		6.742					
73 trans-1,3-Dichloropropene	75		6.919					
74 Ethyl methacrylate	69		6.978					
75 1,1,2-Trichloroethane	97		7.097					
77 Tetrachloroethene	166		7.239					
76 1,3-Dichloropropane	76		7.250					
80 Tetrahydrothiophene	60		7.255					
78 2-Hexanone	43		7.298					
136 n-Butyl acetate	43		7.404					
79 Chlorodibromomethane	129		7.463					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
123 Ethylene Dibromide	107		7.570					
81 1-Chlorohexane	91		7.996					9
82 Chlorobenzene	112		8.020					
83 1,1,1,2-Tetrachloroethane	131		8.091					
84 Ethylbenzene	106		8.114					
10 m-Xylene & p-Xylene	106		8.221					
85 o-Xylene	106		8.599					
86 Styrene	104		8.611					
87 Bromoform	173		8.801					
88 Isopropylbenzene	105		8.954					
89 Cyclohexanone	55		9.049					9
90 1,1,2,2-Tetrachloroethane	83		9.227					
91 Bromobenzene	156		9.262					
92 1,2,3-Trichloropropane	110		9.286					
93 trans-1,4-Dichloro-2-butene	53		9.286					
94 N-Propylbenzene	120		9.345					
95 2-Chlorotoluene	126		9.440					
96 1,3,5-Trimethylbenzene	105		9.511					9
104 4-Chlorotoluene	126		9.546					
97 tert-Butylbenzene	119		9.842					9
98 1,2,4-Trimethylbenzene	105		9.889					9
99 sec-Butylbenzene	105		10.055					9
100 1,3-Dichlorobenzene	146		10.173					
101 4-Isopropyltoluene	119		10.197					9
102 1,4-Dichlorobenzene	146		10.256					
103 1,2,3-Trimethylbenzene	105		10.303					
105 n-Butylbenzene	91		10.599					9
106 1,2-Dichlorobenzene	146		10.635					
107 1,2-Dibromo-3-Chloropropane	157		11.404					
108 1,3,5-Trichlorobenzene	180		11.617					
109 1,2,4-Trichlorobenzene	180		12.244					
110 Hexachlorobutadiene	225		12.410					9
111 Naphthalene	128		12.492					9
112 1,2,3-Trichlorobenzene	180		12.753					9
113 2-Methylnaphthalene	142		13.830					
S 145 Trihalomethanes, Total	1		0.000					
S 11 1,2-Dichloroethene, Total	96		1.140					
S 9 1,3-Dichloropropene, Total	75		6.760					
S 114 Xylenes, Total	106		16.530					
T 144 Hexachloroethane TIC	166		10.910					1

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

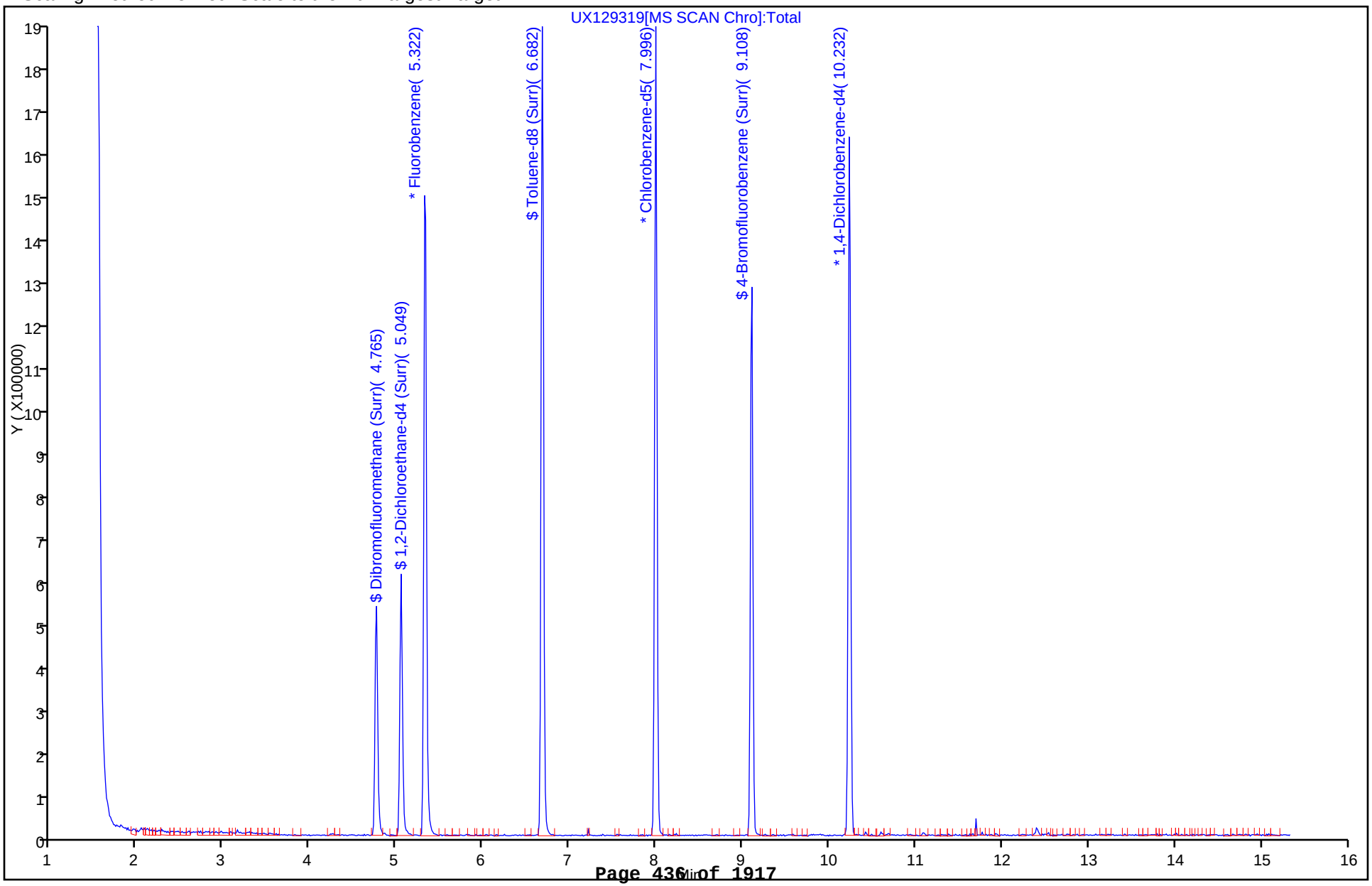
Report Date: 29-Mar-2013 09:09:29 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129319.D

Injection Date:	28-Mar-2013 11:21:30	Limit Group:	MSV 8260DOD ICAL
Client ID:	079-0007-0001-SOURCEWATER	Instrument ID:	A3UX12
Lims Batch ID:	79725	Lims Sample ID:	7
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: 079-0008-0001-TB TRIP | Lab Sample ID: 240-21987-2

Matrix: Water | Lab File ID: UX129320.D

Analysis Method: 8260B/DoD | Date Collected: 03/14/2013 08:00

Sample wt/vol: 5(mL) | Date Analyzed: 03/28/2013 11:47

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.: 79725 | 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	0.31	J	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.: 240-21987-1

SDG No.:

Client Sample ID: 079-0008-0001-TB TRIP Lab Sample ID: 240-21987-2

Matrix: Water Lab File ID: UX129320.D

Analysis Method: 8260B/DoD Date Collected: 03/14/2013 08:00

Sample wt/vol: 5(mL) Date Analyzed: 03/28/2013 11:47

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.: 79725 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	109		85-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-120
460-00-4	4-Bromofluorobenzene (Surr)	105		75-120
1868-53-7	Dibromofluoromethane (Surr)	104		85-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129320.D
Lims ID: 240-21987-A-2 Client ID: 079-0008-0001-TB TRIP BLANK
Inject. Date: 28-Mar-2013 11:47:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0018335-008
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 8
Lims Batch ID: 79725 Lims Sample ID: 8
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\8260_12.m
Last Update: 29-Mar-2013 09:09:26 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK001

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.334	5.334	0.0	99	1681147	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	84	1245889	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.232	10.232	0.0	96	574426	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.766	4.766	0.0	54	379152	20.7	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.050	5.050	0.0	89	463090	21.1	
$ 7 Toluene-d8 (Surr)	98	6.683	6.682	0.001	92	1623201	21.8	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	87	572583	21.1	
13 Chloromethane	50		1.795					
14 Vinyl chloride	62		1.902					
15 Bromomethane	94		2.198					
16 Chloroethane	64		2.304					
22 Acetone	43		2.955					
21 1,1-Dichloroethene	61		2.955					
26 Carbon disulfide	76		3.156					
30 Methylene Chloride	49		3.369					9
34 Methyl tert-butyl ether	73		3.547					
33 trans-1,2-Dichloroethene	61		3.559					
36 1,1-Dichloroethane	63		3.902					
42 cis-1,2-Dichloroethene	61		4.375					
41 2-Butanone (MEK)	72		4.375					
47 Chlorobromomethane	49		4.576					
49 Chloroform	83	4.635	4.624	0.011	53	10297	0.3137	
50 1,1,1-Trichloroethane	97		4.801					
53 Carbon tetrachloride	117		4.943					
55 Benzene	78		5.109					
56 1,2-Dichloroethane	62		5.109					2
60 Trichloroethene	130		5.641					
62 1,2-Dichloropropane	63		5.830					
67 Dichlorobromomethane	83		6.055					
70 cis-1,3-Dichloropropene	75		6.434					
71 4-Methyl-2-pentanone (MIBK)	43		6.564					
72 Toluene	91		6.742					

	Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
73	trans-1,3-Dichloropropene	75		6.919					
75	1,1,2-Trichloroethane	97		7.097					
77	Tetrachloroethene	166		7.239					
78	2-Hexanone	43		7.298					
79	Chlorodibromomethane	129		7.463					
123	Ethylene Dibromide	107		7.570					
82	Chlorobenzene	112		8.020					
84	Ethylbenzene	106		8.114					
10	m-Xylene & p-Xylene	106		8.221					
85	o-Xylene	106		8.599					
86	Styrene	104		8.611					
87	Bromoform	173		8.801					
90	1,1,2,2-Tetrachloroethane	83		9.227					
S 11	1,2-Dichloroethene, Total	96		1.140					
S 114	Xylenes, Total	106		16.530					

QC Flag Legend

Processing Flags
2 - Failed Coelution Test
9 - Failed A Reference Spectral Test

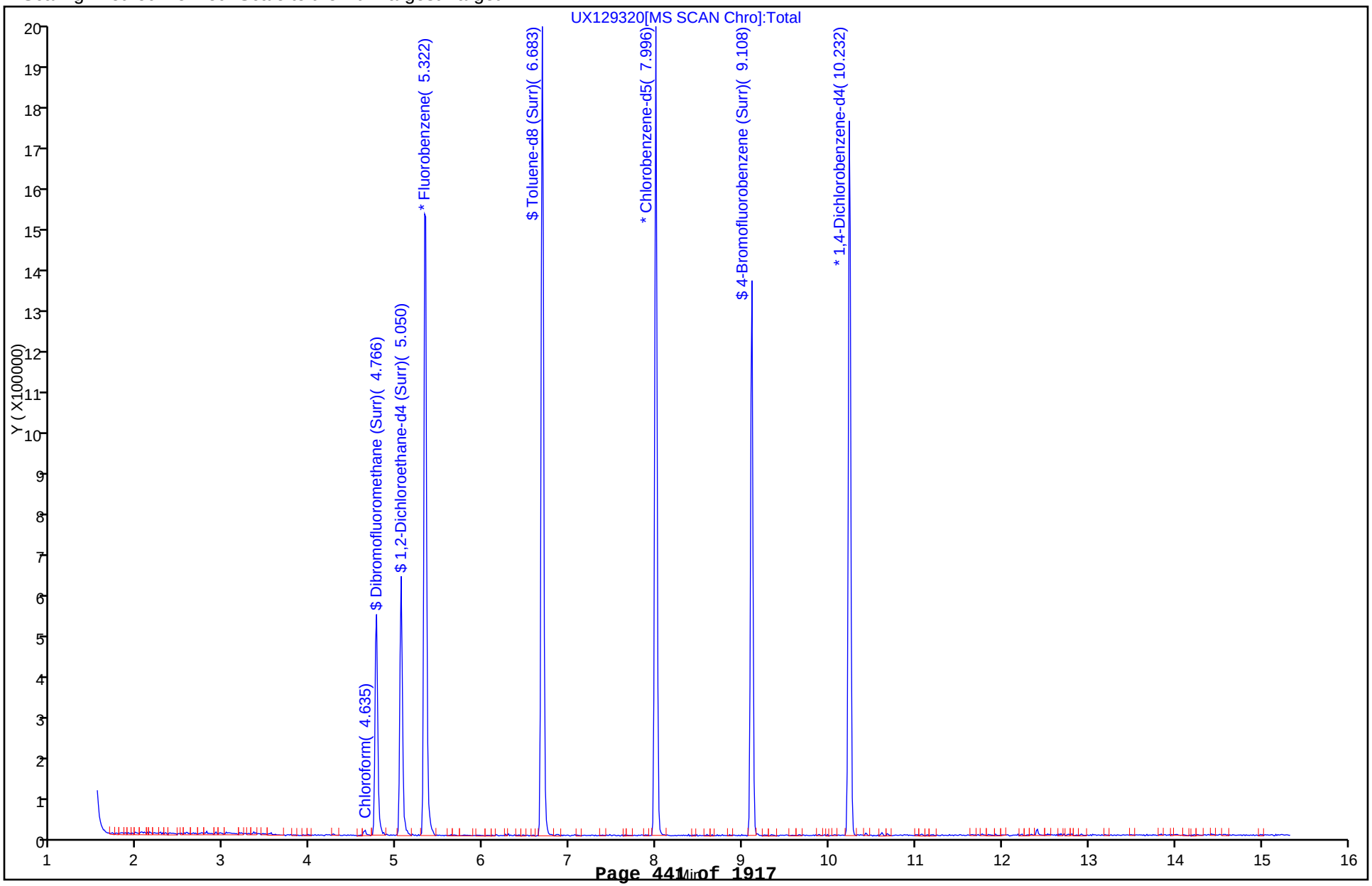
Report Date: 29-Mar-2013 09:09:29 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129320.D

Injection Date:	28-Mar-2013 11:47:30	Limit Group:	MSV 8260DOD ICAL
Client ID:	079-0008-0001-TB TRIP BLANK	Instrument ID:	A3UX12
Lims Batch ID:	79725	Lims Sample ID:	8
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



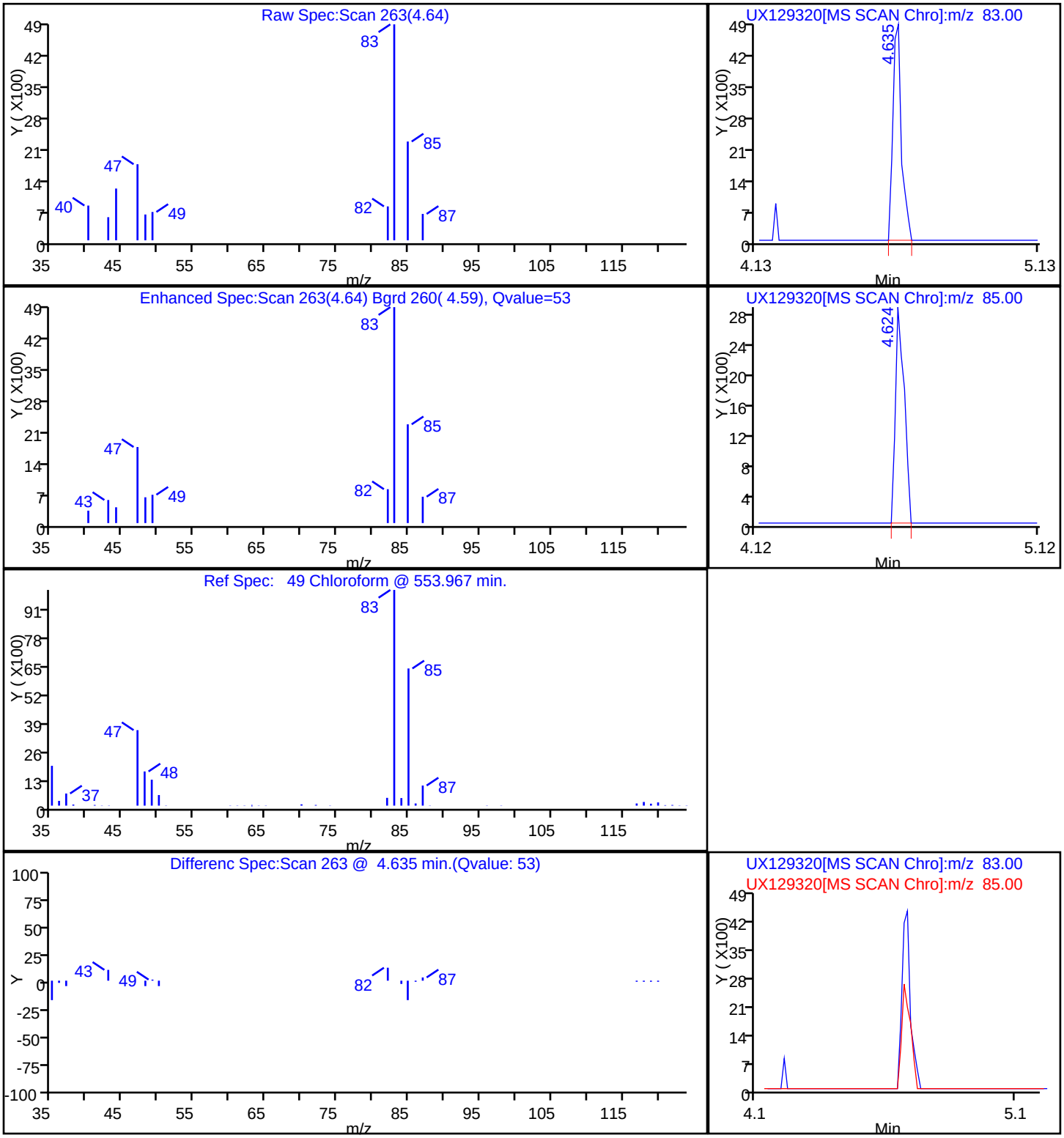
Report Date: 29-Mar-2013 09:09:29 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129320.D

Injection Date:	28-Mar-2013 11:47:30	Limit Group:	MSV 8260DOD ICAL
Client ID:	079-0008-0001-TB TRIP BLANK	Instrument ID:	A3UX12
Lims Batch ID:	79725	Lims Sample ID:	8
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

49 Chloroform



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 78761

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2013 18:52 Calibration End Date: 03/19/2013 21:04 Calibration ID: 14180

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-78761/3	UX129104.D
Level 2	STD8260 240-78761/4	UX129105.D
Level 3	STD8260 240-78761/5	UX129106.D
Level 4	STD8260 240-78761/6	UX129107.D
Level 5	STD8260 240-78761/7	UX129108.D
Level 6	STD8260 240-78761/8	UX129109.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	0.2427 0.3044	0.2717	0.3024	0.3108	0.3046	Ave		0.2894			0.1000	9.2		15.0			
Chloromethane	0.3763 0.3604	0.3739	0.3866	0.3801	0.3784	Ave		0.3759			0.1000	2.3		15.0			
Vinyl chloride	0.3947 0.3877	0.3086	0.4001	0.3973	0.4021	Ave		0.3817			0.1000	9.5		15.0			
Bromomethane	0.2433 0.2426	0.2145	0.2235	0.2306	0.2478	Ave		0.2337			0.0500	5.6		15.0			
Chloroethane	0.2453 0.2662	0.2414	0.2689	0.2739	0.2744	Ave		0.2617				5.6		15.0			
Trichlorofluoromethane	0.2450 0.3671	0.2173	0.3463	0.3696	0.3727	Lin1	-0.095	0.3699			0.1000				1.0000		0.9950
Acrolein	0.0308 0.0406	0.0417	0.0391	0.0405	0.0439	Ave		0.0394				11.0		15.0			
1,1-Dichloroethene	0.4422 0.4794	0.4265	0.4659	0.4788	0.4912	Ave		0.4640			0.1000	5.3		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2426 0.2363	0.2680	0.2235	0.2350	0.2486	Ave		0.2423			0.0500	6.2		15.0			
Acetone	0.0548	0.0957	0.0615	0.0637	0.0676	Lin1	0.0838	0.0587			0.0500				0.9910	*	0.9950
Iodomethane	0.4333 0.4389	0.4636	0.4243	0.4249	0.4399	Ave		0.4375				3.3		15.0			
Carbon disulfide	0.8089 0.9639	0.9101	0.9474	0.9494	0.9786	Ave		0.9264			0.1000	6.7		15.0			
Acetonitrile	0.0333 0.0270	0.0244	0.0291	0.0296	0.0303	Ave		0.0290				10.0		15.0			
Methyl acetate	0.1552	0.1971	0.1710	0.1698	0.1765	Ave		0.1739			0.1000	8.7		15.0			
Methylene Chloride	0.3663	0.5571	0.4035	0.3793	0.3826	Lin1	0.2041	0.3693			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.: 240-21987-1 Analy Batch No.: 78761

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2013 18:52 Calibration End Date: 03/19/2013 21:04 Calibration ID: 14180

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	0.0140 0.0165	0.0180	0.0147	0.0208	0.0218	Qua	-0.679	0.0259	0						0.9940		0.9900
Acrylonitrile	0.0742 0.0922	0.1032	0.0875	0.0976	0.0980	Ave		0.0921				11.0		15.0			
Methyl tert-butyl ether	0.6959 0.7009	0.7236	0.6890	0.6908	0.7311	Ave		0.7052			0.1000	2.5		15.0			
trans-1,2-Dichloroethene	0.3926 0.3609	0.3276	0.3459	0.3498	0.3550	Ave		0.3553			0.1000	6.0		15.0			
Hexane	0.2063 0.2069	0.1897	0.1948	0.1939	0.2143	Ave		0.2010				4.7		15.0			
1,1-Dichloroethane	0.4189 0.4168	0.3932	0.4152	0.4097	0.4237	Ave		0.4129			0.1000	2.6		15.0			
Vinyl acetate	 0.0523	0.0342	0.0444	0.0488	0.0528	Lin1	-0.024	0.0521							0.9990		0.9950
cis-1,2-Dichloroethene	0.3090 0.3290	0.3473	0.3453	0.3313	0.3335	Ave		0.3326			0.1000	4.2		15.0			
2,2-Dichloropropane	0.1248 0.1421	0.1336	0.1382	0.1304	0.1421	Ave		0.1352				5.1		15.0			
2-Butanone (MEK)	0.0212 0.0251	0.0310	0.0241	0.0258	0.0273	Lin	0.0183	0.0254		*	0.0500				0.9980		0.9950
Bromochloromethane	0.1285 0.1889	0.1788	0.1949	0.1902	0.1947	Ave		0.1793				14.0		15.0			
Tetrahydrofuran	 0.0584	0.1148	0.0645	0.0634	0.0662	Lin1	0.0565	0.0601							0.9970		0.9950
Chloroform	0.4563 0.3752	0.3719	0.3859	0.3667	0.3869	Ave		0.3905				8.5		15.0			
1,1,1-Trichloroethane	0.2071 0.2442	0.2227	0.2399	0.2247	0.2457	Ave		0.2307			0.1000	6.6		15.0			
Cyclohexane	0.3158 0.3431	0.2713	0.3222	0.3162	0.3442	Ave		0.3188			0.1000	8.3		15.0			
1,1-Dichloropropene	0.2336 0.3090	0.2796	0.3008	0.2977	0.3140	Ave		0.2891				10.0		15.0			
Carbon tetrachloride	0.1382 0.1727	0.1425	0.1593	0.1506	0.1704	Ave		0.1556			0.1000	9.2		15.0			
Benzene	0.9974 0.9730	0.9649	0.9810	0.9524	0.9811	Ave		0.9750			0.5000	1.6		15.0			
1,2-Dichloroethane	0.2441 0.2824	0.2699	0.2845	0.2901	0.2969	Ave		0.2780			0.1000	6.8		15.0			
Trichloroethene	0.2307 0.2300	0.2316	0.2262	0.2259	0.2336	Ave		0.2297			0.2000	1.3		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.: 240-21987-1 Analy Batch No.: 78761

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2013 18:52 Calibration End Date: 03/19/2013 21:04 Calibration ID: 14180

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	0.2025 0.2100	0.1882	0.2076	0.1965	0.2032	Ave		0.2013			0.1000	3.9		15.0			
1,2-Dichloropropane	0.2300 0.2327	0.2387	0.2444	0.2237	0.2356	Ave		0.2342			0.1000	3.1		15.0			
1,4-Dioxane	0.0026 0.0028	0.0022	0.0024	0.0028	0.0030	Ave		0.0026				11.0		15.0			
Dibromomethane	0.1171 0.1345	0.1214	0.1330	0.1364	0.1381	Ave		0.1301				6.7		15.0			
Bromodichloromethane	0.2897 0.2771	0.2380	0.2519	0.2628	0.2756	Ave		0.2659			0.1000	7.1		15.0			
2-Chloroethyl vinyl ether	0.1347 0.1511	0.1645	0.1395	0.1526	0.1542	Ave		0.1494				7.2		15.0			
cis-1,3-Dichloropropene	0.2914 0.3826	0.3945	0.3437	0.3504	0.3747	Ave		0.3562			0.1500	10.0		15.0			
4-Methyl-2-pentanone (MIBK)	0.2166 0.1795	0.2166	0.1732	0.1887	0.2028	Ave		0.1962			0.0500	9.5		15.0			
Toluene	1.1913 1.3112	1.2932	1.3203	1.2745	1.3074	Ave		1.2830			0.4000	3.7		15.0			
trans-1,3-Dichloropropene	0.3387 0.4123	0.3611	0.3752	0.3756	0.3975	Ave		0.3767			0.1000	6.9		15.0			
Ethyl methacrylate	0.3720 0.3946	0.3612	0.3445	0.3675	0.4042	Ave		0.3740				5.9		15.0			
1,1,2-Trichloroethane	0.3347 0.2590	0.3118	0.2684	0.2600	0.2753	Ave		0.2849			0.1000	11.0		15.0			
Tetrachloroethene	0.1838 0.2372	0.2246	0.2369	0.2287	0.2394	Ave		0.2251			0.2000	9.3		15.0			
1,3-Dichloropropane	0.5619 0.5000	0.5216	0.5098	0.4997	0.5309	Ave		0.5207				4.5		15.0			
2-Hexanone	0.1408 0.1583	0.1867	0.1537	0.1707	0.1808	Ave		0.1652			0.0500	11.0		15.0			
Dibromochloromethane	0.2538 0.2539	0.2146	0.2302	0.2313	0.2529	Ave		0.2395				6.9		15.0			
1,2-Dibromoethane	0.2906 0.2660	0.2548	0.2637	0.2631	0.2756	Ave		0.2690				4.7		15.0			
Chlorobenzene	0.8416 0.8529	0.8964	0.8639	0.8310	0.8515	Ave		0.8562			0.3000	2.6		15.0			
1,1,1,2-Tetrachloroethane	0.2040 0.2485	0.1847	0.2298	0.2201	0.2405	Ave		0.2213				11.0		15.0			
Ethylbenzene	0.4291 0.4192	0.4048	0.4138	0.3994	0.4226	Ave		0.4148				2.7		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.: 240-21987-1 Analy Batch No.: 78761

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2013 18:52 Calibration End Date: 03/19/2013 21:04 Calibration ID: 14180

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	0.5619 0.5375	0.4719	0.5230	0.4980	0.5263	Ave		0.5198				6.0		15.0			
o-Xylene	0.6085 0.5349	0.5353	0.5201	0.5087	0.5305	Ave		0.5397				6.5		15.0			
Styrene	0.8366 0.9765	0.8182	0.9628	0.9331	0.9724	Ave		0.9166			0.3000	7.7		15.0			
Bromoform	0.1542	0.1139	0.1252	0.1371	0.1478	Ave		0.1356			0.1000	12.0		15.0			
Isopropylbenzene	1.0941 1.2197	0.9823	1.1760	1.1169	1.2005	Ave		1.1316			0.1000	7.7		15.0			
1,1,2,2-Tetrachloroethane	0.7350 0.8016	0.9398	0.8209	0.8513	0.8812	Ave		0.8383			0.3000	8.4		15.0			
Bromobenzene	0.8160 0.6883	0.6894	0.6756	0.6768	0.6966	Ave		0.7071				7.6		15.0			
trans-1,4-Dichloro-2-butene	0.1884	0.1670	0.1778	0.1854	0.2124	Ave		0.1862				9.0		15.0			
1,2,3-Trichloropropane	0.2281 0.2529	0.3141	0.2592	0.2798	0.2858	Ave		0.2700				11.0		15.0			
N-Propylbenzene	0.5735 0.6574	0.7094	0.6491	0.6061	0.6702	Ave		0.6443				7.5		15.0			
2-Chlorotoluene	0.5365 0.6079	0.6254	0.6092	0.5904	0.6118	Ave		0.5969				5.3		15.0			
1,3,5-Trimethylbenzene	1.9806 2.1044	1.9904	2.0551	1.9562	2.1257	Ave		2.0354				3.4		15.0			
4-Chlorotoluene	0.5746 0.6596	0.6367	0.6505	0.6407	0.6746	Ave		0.6394				5.4		15.0			
tert-Butylbenzene	1.3617 1.8588	1.8495	1.8222	1.7037	1.8341	Ave		1.7383				11.0		15.0			
1,2,4-Trimethylbenzene	2.1927 2.2076	1.8420	2.1505	2.0558	2.2102	Ave		2.1098				6.8		15.0			
sec-Butylbenzene	2.3939 2.6934	2.2982	2.5137	2.4083	2.6603	Ave		2.4946				6.3		15.0			
1,3-Dichlorobenzene	1.4062 1.2412	1.1967	1.2511	1.2384	1.2697	Ave		1.2672			0.6000	5.7		15.0			
4-Isopropyltoluene	2.0313 2.2628	2.1290	2.0924	2.0552	2.2044	Ave		2.1292				4.2		15.0			
1,4-Dichlorobenzene	1.2369 1.3091	1.3145	1.3336	1.2870	1.3269	Ave		1.3013			0.5000	2.7		15.0			
n-Butylbenzene	1.8423 2.0102	1.8708	1.9021	1.8503	2.0248	Ave		1.9168				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 CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 78761

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2013 18:52 Calibration End Date: 03/19/2013 21:04 Calibration ID: 14180

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	1.4633 1.2400	1.3914	1.2487	1.2194	1.2648	Ave		1.3046			0.4000	7.6		15.0			
1,2-Dibromo-3-Chloropropane	0.1362 0.1446	0.1127	0.1136	0.1401	0.1573	Ave		0.1341			0.0500	13.0		15.0			
1,3,5-Trichlorobenzene	0.7853 0.8144	0.8278	0.8024	0.7990	0.8389	Ave		0.8113				2.4		15.0			
1,2,4-Trichlorobenzene	0.8302 0.7669	0.6585	0.7330	0.7079	0.7806	Ave		0.7462			0.2000	8.0		15.0			
Hexachlorobutadiene	0.3893 0.3084	0.3799	0.3083	0.2813	0.3105	Ave		0.3296				13.0		15.0			
Naphthalene	2.2297 2.1588	2.2697	2.1029	2.1897	2.3971	Ave		2.2247				4.6		15.0			
1,2,3-Trichlorobenzene	0.7131 0.6638	0.7993	0.6618	0.6710	0.7109	Ave		0.7033				7.4		15.0			
Dibromofluoromethane (Surr)	 0.2213	0.2027	0.2093	0.2323	0.2230	Ave		0.2177				5.4		15.0			
1,2-Dichloroethane-d4 (Surr)	 0.2607	0.2420	0.2426	0.2868	0.2764	Ave		0.2617				7.6		15.0			
Toluene-d8 (Surr)	 1.2109	1.0950	1.1536	1.3111	1.2153	Ave		1.1972				6.7		15.0			
4-Bromofluorobenzene (Surr)	 0.4462	0.4168	0.4169	0.4599	0.4409	Ave		0.4361				4.3		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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 78761

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2013 18:52 Calibration End Date: 03/19/2013 21:04 Calibration ID: 14180

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-78761/3	UX129104.D
Level 2	STD8260 240-78761/4	UX129105.D
Level 3	STD8260 240-78761/5	UX129106.D
Level 4	STD8260 240-78761/6	UX129107.D
Level 5	STD8260 240-78761/7	UX129108.D
Level 6	STD8260 240-78761/8	UX129109.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	9671 2042244	22749	248036	505120	1001880	0.500 80.0	1.00	10.0	20.0	40.0
Chloromethane	FB	Ave	14995 2418063	31302	317105	617687	1244642	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl chloride	FB	Ave	15729 2601241	25833	328171	645700	1322579	0.500 80.0	1.00	10.0	20.0	40.0
Bromomethane	FB	Ave	9694 1627622	17954	183377	374737	814969	0.500 80.0	1.00	10.0	20.0	40.0
Chloroethane	FB	Ave	9774 1786236	20207	220599	445174	902700	0.500 80.0	1.00	10.0	20.0	40.0
Trichlorofluoromethane	FB	Lin1	9761 2463254	18192	284068	600584	1225992	0.500 80.0	1.00	10.0	20.0	40.0
Acrolein	FB	Ave	12279 2722298	34910	320928	658956	1444338	5.00 800	10.0	100	200	400
1,1-Dichloroethene	FB	Ave	17619 3216276	35704	382138	778149	1615640	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	9666 1585748	22432	183369	381875	817795	0.500 80.0	1.00	10.0	20.0	40.0
Acetone	FB	Lin1	 735840	16027	100840	207028	444789	 160	2.00	20.0	40.0	80.0
Iodomethane	FB	Ave	17264 2944528	38809	348031	690554	1447106	0.500 80.0	1.00	10.0	20.0	40.0
Carbon disulfide	FB	Ave	32230 6467027	76190	777172	1542877	3218798	0.500 80.0	1.00	10.0	20.0	40.0
Acetonitrile	FB	Ave	13249 1811620	20437	238492	481410	998231	5.00 800	10.0	100	200	400
Methyl acetate	FB	Ave	 2083167	32994	280609	551949	1161082	 160	2.00	20.0	40.0	80.0
Methylene Chloride	FB	Lin1	 2457393	46636	330992	616462	1258486	 80.0	1.00	10.0	20.0	40.0
2-Methyl-2-propanol	FB	Qua	11180 2217730	30184	241508	674443	1431053	10.0 1600	20.0	200	400	800

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 78761

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2013 18:52 Calibration End Date: 03/19/2013 21:04 Calibration ID: 14180

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	5914 1237197	17271	143583	317128	644659	1.00 160	2.00	20.0	40.0	80.0
Methyl tert-butyl ether	FB	Ave	27728 4702821	60579	565152	1122695	2404725	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,2-Dichloroethene	FB	Ave	15643 2421334	27422	283754	568533	1167773	0.500 80.0	1.00	10.0	20.0	40.0
Hexane	FB	Ave	8222 1388277	15882	159824	315190	704809	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	16691 2796750	32920	340627	665790	1393539	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl acetate	FB	Lin1	 350832	2860	36401	79312	173792	 80.0	1.00	10.0	20.0	40.0
cis-1,2-Dichloroethene	FB	Ave	12311 2207377	29077	283269	538477	1097152	0.500 80.0	1.00	10.0	20.0	40.0
2,2-Dichloropropane	FB	Ave	4974 953465	11185	113337	211849	467566	0.500 80.0	1.00	10.0	20.0	40.0
2-Butanone (MEK)	FB	Lin	1686 336925	5196	39511	83964	179702	1.00 160	2.00	20.0	40.0	80.0
Bromochloromethane	FB	Ave	5122 1267482	14969	159853	309023	640323	0.500 80.0	1.00	10.0	20.0	40.0
Tetrahydrofuran	FB	Lin1	 392170	9614	52926	102971	217829	 80.0	1.00	10.0	20.0	40.0
Chloroform	FB	Ave	18180 2517744	31130	316586	596008	1272490	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	8252 1638237	18639	196778	365128	808294	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexane	FB	Ave	12585 2301860	22714	264329	513784	1132202	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	9307 2073524	23409	246716	483738	1032865	0.500 80.0	1.00	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	5505 1158658	11928	130711	244679	560595	0.500 80.0	1.00	10.0	20.0	40.0
Benzene	FB	Ave	39742 6528217	80777	804699	1547755	3227235	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	9728 1895003	22592	233403	471468	976630	0.500 80.0	1.00	10.0	20.0	40.0
Trichloroethene	FB	Ave	9192 1543057	19385	185564	367098	768376	0.500 80.0	1.00	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	8068 1408722	15753	170311	319338	668496	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloropropane	FB	Ave	9165 1561437	19985	200445	363549	775052	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 78761

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2013 18:52 Calibration End Date: 03/19/2013 21:04 Calibration ID: 14180

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
1,4-Dioxane	FB	Ave	5199 937401	9362	99055	223645	501020	25.0 4000	50.0	500	1000	2000
Dibromomethane	FB	Ave	4665 902341	10164	109106	221611	454247	0.500 80.0	1.00	10.0	20.0	40.0
Bromodichloromethane	FB	Ave	11543 1859020	19922	206674	427099	906675	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	10733 2027747	27544	228923	496005	1014204	1.00 160	2.00	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	11611 2566825	33026	281957	569454	1232646	0.500 80.0	1.00	10.0	20.0	40.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	17264 2409166	36263	284160	613165	1334476	1.00 160	2.00	20.0	40.0	80.0
Toluene	CBZ	Ave	36381 7006841	82917	819415	1596098	3393768	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,3-Dichloropropene	CBZ	Ave	10342 2203130	23154	232863	470372	1031754	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl methacrylate	CBZ	Ave	11361 2108711	23157	213813	460204	1049290	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloroethane	CBZ	Ave	10222 1384310	19993	166553	325670	714501	0.500 80.0	1.00	10.0	20.0	40.0
Tetrachloroethene	CBZ	Ave	5612 1267609	14403	147047	286365	621389	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	17160 2672010	33444	316392	625825	1378096	0.500 80.0	1.00	10.0	20.0	40.0
2-Hexanone	CBZ	Ave	8597 1691832	23946	190745	427558	938572	1.00 160	2.00	20.0	40.0	80.0
Dibromochloromethane	CBZ	Ave	7750 1357059	13763	142861	289717	656532	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dibromoethane	CBZ	Ave	8875 1421340	16339	163656	329556	715337	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobenzene	CBZ	Ave	25700 4557847	57474	536154	1040695	2210281	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	6230 1328126	11844	142643	275638	624266	0.500 80.0	1.00	10.0	20.0	40.0
Ethylbenzene	CBZ	Ave	13105 2240172	25953	256832	500199	1096892	0.500 80.0	1.00	10.0	20.0	40.0
m-Xylene & p-Xylene	CBZ	Ave	34319 5744532	60512	649183	1247365	2732140	1.00 160	2.00	20.0	40.0	80.0
o-Xylene	CBZ	Ave	18582 2858387	34321	322792	637145	1377129	0.500 80.0	1.00	10.0	20.0	40.0
Styrene	CBZ	Ave	25549 5218328	52461	597527	1168617	2524223	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 78761

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2013 18:52 Calibration End Date: 03/19/2013 21:04 Calibration ID: 14180

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Bromoform	CBZ	Ave	823905	7300	77729	171677	383768	80.0	1.00	10.0	20.0	40.0
Isopropylbenzene	CBZ	Ave	33412 6517923	62983	729831	1398784	3116156	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCB	Ave	10487 2052408	26677	240427	499113	1075056	0.500 80.0	1.00	10.0	20.0	40.0
Bromobenzene	DCB	Ave	11643 1762163	19570	197866	396819	849815	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,4-Dichloro-2-butene	DCB	Ave	482358	4740	52080	108731	259078	80.0	1.00	10.0	20.0	40.0
1,2,3-Trichloropropane	DCB	Ave	3255 647401	8915	75922	164028	348623	0.500 80.0	1.00	10.0	20.0	40.0
N-Propylbenzene	DCB	Ave	8182 1683275	20136	190106	355379	817651	0.500 80.0	1.00	10.0	20.0	40.0
2-Chlorotoluene	DCB	Ave	7655 1556308	17754	178418	346176	746407	0.500 80.0	1.00	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCB	Ave	28259 5387955	56499	601905	1146960	2593264	0.500 80.0	1.00	10.0	20.0	40.0
4-Chlorotoluene	DCB	Ave	8198 1688677	18074	190511	375675	822981	0.500 80.0	1.00	10.0	20.0	40.0
tert-Butylbenzene	DCB	Ave	19428 4759139	52501	533688	998899	2237544	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCB	Ave	31285 5652131	52288	629847	1205373	2696373	0.500 80.0	1.00	10.0	20.0	40.0
sec-Butylbenzene	DCB	Ave	34156 6896058	65237	736216	1412051	3245480	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichlorobenzene	DCB	Ave	20063 3177853	33969	366421	726107	1549044	0.500 80.0	1.00	10.0	20.0	40.0
4-Isopropyltoluene	DCB	Ave	28983 5793560	60435	612829	1205026	2689323	0.500 80.0	1.00	10.0	20.0	40.0
1,4-Dichlorobenzene	DCB	Ave	17648 3351686	37313	390581	754614	1618784	0.500 80.0	1.00	10.0	20.0	40.0
n-Butylbenzene	DCB	Ave	26286 5146665	53105	557094	1084886	2470251	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichlorobenzene	DCB	Ave	20878 3174832	39497	365711	714948	1543015	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	1944 370224	3199	33259	82138	191932	0.500 80.0	1.00	10.0	20.0	40.0
1,3,5-Trichlorobenzene	DCB	Ave	11204 2085046	23498	234998	468467	1023427	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCB	Ave	11845 1963402	18691	214688	415050	952334	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 78761

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2013 18:52 Calibration End Date: 03/19/2013 21:04 Calibration ID: 14180

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	Ave	5555 789707	10784	90289	164960	378833	0.500 80.0	1.00	10.0	20.0	40.0
Naphthalene	DCB	Ave	31814 5527180	64429	615889	1283880	2924409	0.500 80.0	1.00	10.0	20.0	40.0
1,2,3-Trichlorobenzene	DCB	Ave	10175 1699416	22690	193828	393407	867269	0.500 80.0	1.00	10.0	20.0	40.0
Dibromofluoromethane (Surr)	FB	Ave	 1484562	16971	171682	377447	733447	 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	 1749169	20258	198966	466072	909095	 80.0	1.00	10.0	20.0	40.0
Toluene-d8 (Surr)	CBZ	Ave	 6471049	70207	715911	1642014	3154534	 80.0	1.00	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	 2384265	26722	258728	576024	1144505	 80.0	1.00	10.0	20.0	40.0

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\A3UX12\20130319-18085.b\UX129104.D		
Lims ID:	std8260 L1	Client ID:	
Inject. Date:	19-Mar-2013 18:52:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	240-0018085-003		
Misc. Info.:			
Operator:	1904	Instrument ID:	A3UX12
Purge Vol:	5.000 mL	ALS Bottle#:	3
Lims Batch ID:	78761	Lims Sample ID:	3
Sublist:	chrom-8260_12*sub7		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\8260_12.m		
Last Update:	19-Mar-2013 22:02:39	Calib Date:	19-Mar-2013 21:04:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D		
Limit Group:	MSV 8260DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624	Column Dia:	0.18 mm
Process Host:	XAWRK010		
First Level Reviewer: laveyt		Date:	19-Mar-2013 19:32:38

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.333	5.333	0.0	99	1593831	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	86	1221510	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.244	10.244	0.0	94	570719	20.0	
$ 5 Dibromofluoromethane (Surr)	113		4.765					
$ 6 1,2-Dichloroethane-d4 (Surr)	65		5.049					
$ 7 Toluene-d8 (Surr)	98		6.682					
$ 131 4-Bromofluorobenzene (Surr)	95		9.108					
12 Dichlorodifluoromethane	85	1.653	1.641	0.012	46	9671	0.4193	
13 Chloromethane	50	1.783	1.783	0.0	62	14995	0.5005	
14 Vinyl chloride	62	1.902	1.890	0.012	43	15729	0.5170	
15 Bromomethane	94	2.198	2.198	0.0	14	9694	0.5205	
16 Chloroethane	64	2.304	2.304	0.0	49	9774	0.4687	
18 Trichlorofluoromethane	101	2.517	2.505	0.012	17	9761	0.5868	
20 Acrolein	56	2.837	2.837	0.0	66	12279	3.91	
22 Acetone	43		2.955					
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.943	2.955	-0.012	4	9666	0.5005	
21 1,1-Dichloroethene	61	2.943	2.955	-0.012	69	17619	0.4765	
24 Iodomethane	142	3.097	3.109	-0.012	72	17264	0.4952	
26 Carbon disulfide	76	3.144	3.144	0.0	93	32230	0.4366	
27 Acetonitrile	41	3.192	3.192	0.0	87	13249	5.74	
28 Methyl acetate	43		3.227					
30 Methylene Chloride	49		3.369					
31 2-Methyl-2-propanol	59	3.416	3.393	0.023	56	11180	31.9	
32 Acrylonitrile	53	3.511	3.523	-0.012	71	5914	0.8057	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	80	27728	0.4934	
33 trans-1,2-Dichloroethene	61	3.547	3.547	0.0	31	15643	0.5525	
35 Hexane	57	3.771	3.771	0.0	59	8222	0.5133	
36 1,1-Dichloroethane	63	3.890	3.902	-0.012	63	16691	0.5072	
37 Vinyl acetate	86		3.925					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
42 cis-1,2-Dichloroethene	61	4.363	4.375	-0.012	29	12311	0.4645	
43 2,2-Dichloropropane	77	4.375	4.375	0.0	19	4974	0.4616	
41 2-Butanone (MEK)	72	4.387	4.387	0.0	64	1686	0.1138	
47 Chlorobromomethane	49	4.576	4.576	0.0	50	5122	0.3584	
48 Tetrahydrofuran	42		4.612					
49 Chloroform	83	4.635	4.623	0.012	36	18180	0.5842	
50 1,1,1-Trichloroethane	97	4.789	4.801	-0.012	39	8252	0.4488	
51 Cyclohexane	56	4.860	4.860	0.0	50	12585	0.4954	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	49	9307	0.4040	
53 Carbon tetrachloride	117	4.943	4.943	0.0	41	5505	0.4439	
55 Benzene	78	5.097	5.108	-0.011	86	39742	0.5115	
56 1,2-Dichloroethane	62	5.109	5.108	0.001	26	9728	0.4391	
60 Trichloroethene	130	5.641	5.641	0.0	51	9192	0.5023	
63 Methylcyclohexane	55	5.795	5.807	-0.012	46	8068	0.5029	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	47	9165	0.4911	
66 1,4-Dioxane	88	5.925	5.937	-0.012	22	5199	24.7	
65 Dibromomethane	174	5.937	5.937	0.0	49	4665	0.4500	
67 Dichlorobromomethane	83	6.055	6.055	0.0	52	11543	0.5448	
69 2-Chloroethyl vinyl ether	63	6.304	6.292	0.012	49	10733	0.9013	
70 cis-1,3-Dichloropropene	75	6.434	6.434	0.0	39	11611	0.4090	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	86	17264	1.10	
72 Toluene	91	6.741	6.741	0.0	83	36381	0.4643	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	64	10342	0.4495	
74 Ethyl methacrylate	69	6.978	6.990	-0.012	39	11361	0.4974	
75 1,1,2-Trichloroethane	97	7.096	7.096	0.0	35	10222	0.5875	
77 Tetrachloroethene	166	7.238	7.238	0.0	37	5612	0.4082	
76 1,3-Dichloropropane	76	7.238	7.250	-0.012	59	17160	0.5396	
78 2-Hexanone	43	7.309	7.309	0.0	62	8597	0.8523	
79 Chlorodibromomethane	129	7.451	7.463	-0.012	1	7750	0.5299	
123 Ethylene Dibromide	107	7.570	7.582	-0.012	40	8875	0.5402	
82 Chlorobenzene	112	8.031	8.019	0.012	73	25700	0.4915	
83 1,1,1,2-Tetrachloroethane	131	8.090	8.090	0.0	29	6230	0.4610	
84 Ethylbenzene	106	8.114	8.114	0.0	72	13105	0.5173	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	88	34319	1.08	
85 o-Xylene	106	8.599	8.599	0.0	65	18582	0.5638	
86 Styrene	104	8.611	8.611	0.0	65	25549	0.4564	
87 Bromoform	173		8.800					
88 Isopropylbenzene	105	8.954	8.954	0.0	60	33412	0.4835	
90 1,1,2,2-Tetrachloroethane	83	9.226	9.226	0.0	23	10487	0.4384	
91 Bromobenzene	156	9.262	9.262	0.0	73	11643	0.5770	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	27	3255	0.4225	
93 trans-1,4-Dichloro-2-butene	53		9.286					
94 N-Propylbenzene	120	9.345	9.357	-0.011	74	8182	0.4450	
95 2-Chlorotoluene	126	9.439	9.439	0.0	52	7655	0.4494	
96 1,3,5-Trimethylbenzene	105	9.522	9.522	0.0	71	28259	0.4865	
104 4-Chlorotoluene	126	9.546	9.546	0.0	55	8198	0.4493	
97 tert-Butylbenzene	119	9.842	9.842	0.0	49	19428	0.3917	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	43	31285	0.5196	
99 sec-Butylbenzene	105	10.055	10.055	0.0	51	34156	0.4798	
100 1,3-Dichlorobenzene	146	10.185	10.173	0.012	46	20063	0.5548	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	35	28983	0.4770	
102 1,4-Dichlorobenzene	146	10.256	10.268	-0.012	28	17648	0.4752	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
105 n-Butylbenzene	91	10.599	10.599	0.0	63	26286	0.4806	
106 1,2-Dichlorobenzene	146	10.635	10.634	0.0	56	20878	0.5608	
107 1,2-Dibromo-3-Chloropropane	157	11.415	11.404	0.011	1	1944	0.5081	
108 1,3,5-Trichlorobenzene	180	11.617	11.617	0.0	51	11204	0.4840	
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	28	11845	0.5563	
110 Hexachlorobutadiene	225	12.409	12.409	0.0	18	5555	0.5905	
111 Naphthalene	128	12.492	12.492	0.0	54	31814	0.5011	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	30	10175	0.5070	
S 145 Trihalomethanes, Total	1				0		1.66	
S 11 1,2-Dichloroethene, Total	96				0		1.02	
S 9 1,3-Dichloropropene, Total	75				0		0.8585	
S 114 Xylenes, Total	106				0		1.64	

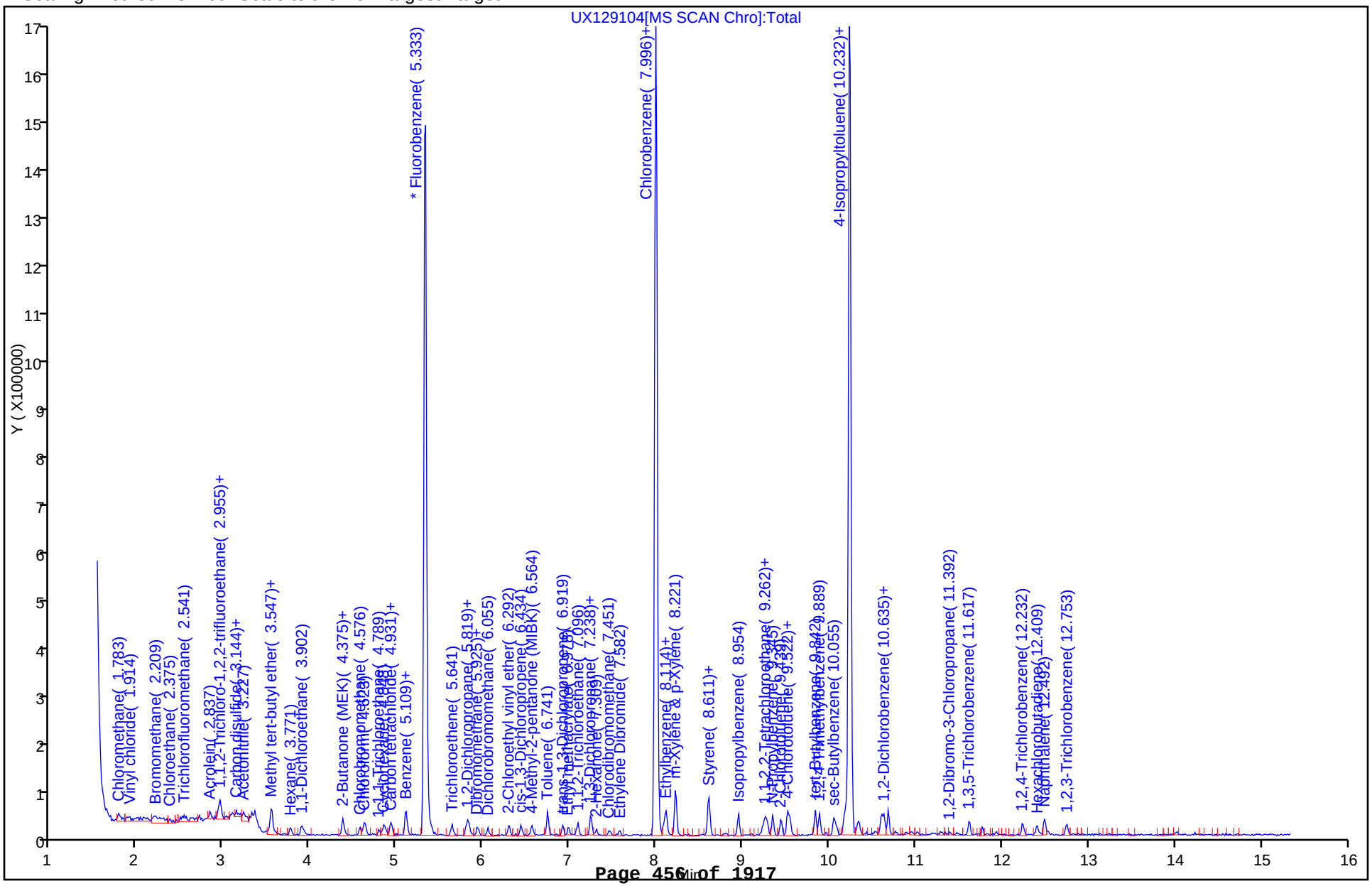
Report Date: 19-Mar-2013 22:02:40 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129104.D

Injection Date:	19-Mar-2013 18:52:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	78761	Lims Sample ID:	3
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 19-Mar-2013 22:02:41 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129105.D
Lims ID: std8260 L2 Client ID:
Inject. Date: 19-Mar-2013 19:19:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0018085-004
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 4
Lims Batch ID: 78761 Lims Sample ID: 4
Sublist: chrom-8260_12*sub7
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\8260_12.m
Last Update: 19-Mar-2013 22:02:41 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK010

First Level Reviewer: laveyt Date: 19-Mar-2013 20:49:42

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.333	5.333	0.0	99	1674268	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	84	1282376	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.244	10.244	0.0	94	567725	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.765	4.765	0.0	43	16971	0.9312	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.049	5.049	0.0	65	20258	0.9248	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	73	70207	0.9146	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	63	26722	0.9556	
12 Dichlorodifluoromethane	85	1.642	1.641	0.001	46	22749	0.9389	
13 Chloromethane	50	1.784	1.783	0.001	77	31302	0.99	
14 Vinyl chloride	62	1.902	1.890	0.012	42	25833	0.8084	
15 Bromomethane	94	2.209	2.198	0.011	69	17954	0.9177	
16 Chloroethane	64	2.304	2.304	0.0	53	20207	0.9224	
18 Trichlorofluoromethane	101	2.517	2.505	0.012	68	18192	0.8431	
20 Acrolein	56	2.837	2.837	0.0	82	34910	10.6	
22 Acetone	43	2.967	2.955	0.012	36	16027	1.83	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.955	2.955	0.0	31	22432	1.11	
21 1,1-Dichloroethene	61	2.943	2.955	-0.012	85	35704	0.9192	
24 Iodomethane	142	3.097	3.109	-0.012	83	38809	1.06	
26 Carbon disulfide	76	3.156	3.144	0.012	89	76190	0.9825	
27 Acetonitrile	41	3.192	3.192	0.0	93	20437	8.43	
28 Methyl acetate	43	3.239	3.227	0.012	88	32994	2.27	
30 Methylene Chloride	49	3.357	3.369	-0.012	81	46636	0.9559	
31 2-Methyl-2-propanol	59	3.405	3.393	0.012	82	30184	40.5	
32 Acrylonitrile	53	3.523	3.523	0.0	89	17271	2.24	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	83	60579	1.03	
33 trans-1,2-Dichloroethene	61	3.547	3.547	0.0	50	27422	0.9219	
35 Hexane	57	3.771	3.771	0.0	87	15882	0.9438	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	89	32920	0.9523	
37 Vinyl acetate	86	3.925	3.925	0.0	96	2860	1.11	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	59	29077	1.04	
43 2,2-Dichloropropane	77	4.375	4.375	0.0	30	11185	0.9882	
41 2-Butanone (MEK)	72	4.375	4.387	-0.012	64	5196	1.73	
47 Chlorobromomethane	49	4.564	4.576	-0.012	78	14969	1.00	
48 Tetrahydrofuran	42	4.623	4.612	0.011	42	9614	0.9716	
49 Chloroform	83	4.635	4.623	0.012	52	31130	0.9523	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	65	18639	0.9651	
51 Cyclohexane	56	4.860	4.860	0.0	48	22714	0.8511	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	77	23409	0.9672	
53 Carbon tetrachloride	117	4.931	4.943	-0.012	41	11928	0.9157	
55 Benzene	78	5.109	5.108	0.001	89	80777	0.9897	
56 1,2-Dichloroethane	62	5.109	5.108	0.001	33	22592	0.9708	
60 Trichloroethene	130	5.629	5.641	-0.012	74	19385	1.01	
63 Methylcyclohexane	55	5.807	5.807	0.0	73	15753	0.9347	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	75	19985	1.02	
66 1,4-Dioxane	88	5.937	5.937	0.0	46	9362	42.3	
65 Dibromomethane	174	5.937	5.937	0.0	73	10164	0.9334	
67 Dichlorobromomethane	83	6.055	6.055	0.0	84	19922	0.8951	
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	66	27544	2.20	
70 cis-1,3-Dichloropropene	75	6.434	6.434	0.0	56	33026	1.11	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	83	36263	2.21	
72 Toluene	91	6.742	6.741	0.001	89	82917	1.01	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	54	23154	0.9586	
74 Ethyl methacrylate	69	6.990	6.990	0.0	57	23157	0.9657	
75 1,1,2-Trichloroethane	97	7.085	7.096	-0.011	62	19993	1.09	
77 Tetrachloroethene	166	7.238	7.238	0.0	70	14403	1.00	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	79	33444	1.00	
78 2-Hexanone	43	7.309	7.309	0.0	87	23946	2.26	
79 Chlorodibromomethane	129	7.463	7.463	0.0	41	13763	0.8963	
123 Ethylene Dibromide	107	7.582	7.582	0.0	53	16339	0.9474	
82 Chlorobenzene	112	8.019	8.019	0.0	72	57474	1.05	
83 1,1,1,2-Tetrachloroethane	131	8.090	8.090	0.0	65	11844	0.8348	
84 Ethylbenzene	106	8.114	8.114	0.0	90	25953	0.9758	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	94	60512	1.82	
85 o-Xylene	106	8.599	8.599	0.0	85	34321	0.99	
86 Styrene	104	8.611	8.611	0.0	80	52461	0.8926	
87 Bromoform	173	8.812	8.800	0.012	55	7300	0.8394	
88 Isopropylbenzene	105	8.954	8.954	0.0	81	62983	0.8681	
90 1,1,2,2-Tetrachloroethane	83	9.226	9.226	0.0	75	26677	1.12	
91 Bromobenzene	156	9.262	9.262	0.0	88	19570	0.9750	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	44	8915	1.16	
93 trans-1,4-Dichloro-2-butene	53	9.274	9.286	-0.012	43	4740	0.8968	
94 N-Propylbenzene	120	9.345	9.357	-0.011	85	20136	1.10	
95 2-Chlorotoluene	126	9.439	9.439	0.0	88	17754	1.05	
96 1,3,5-Trimethylbenzene	105	9.522	9.522	0.0	73	56499	0.9779	
104 4-Chlorotoluene	126	9.546	9.546	0.0	86	18074	1.00	
97 tert-Butylbenzene	119	9.842	9.842	0.0	79	52501	1.06	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	56	52288	0.8731	
99 sec-Butylbenzene	105	10.055	10.055	0.0	71	65237	0.9213	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	77	33969	0.9443	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	32	60435	1.00	
102 1,4-Dichlorobenzene	146	10.256	10.268	-0.012	61	37313	1.01	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
105 n-Butylbenzene	91	10.599	10.599	0.0	81	53105	0.9760	
106 1,2-Dichlorobenzene	146	10.635	10.634	0.001	82	39497	1.07	
107 1,2-Dibromo-3-Chloropropane	157	11.416	11.404	0.012	9	3199	0.8405	
108 1,3,5-Trichlorobenzene	180	11.617	11.617	0.0	69	23498	1.02	
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	53	18691	0.8824	
110 Hexachlorobutadiene	225	12.409	12.409	0.0	56	10784	1.15	
111 Naphthalene	128	12.492	12.492	0.0	78	64429	1.02	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	64	22690	1.14	
S 145 Trihalomethanes, Total	1				0		3.58	
S 11 1,2-Dichloroethene, Total	96				0		1.97	
S 9 1,3-Dichloropropene, Total	75				0		2.07	
S 114 Xylenes, Total	106				0		2.81	

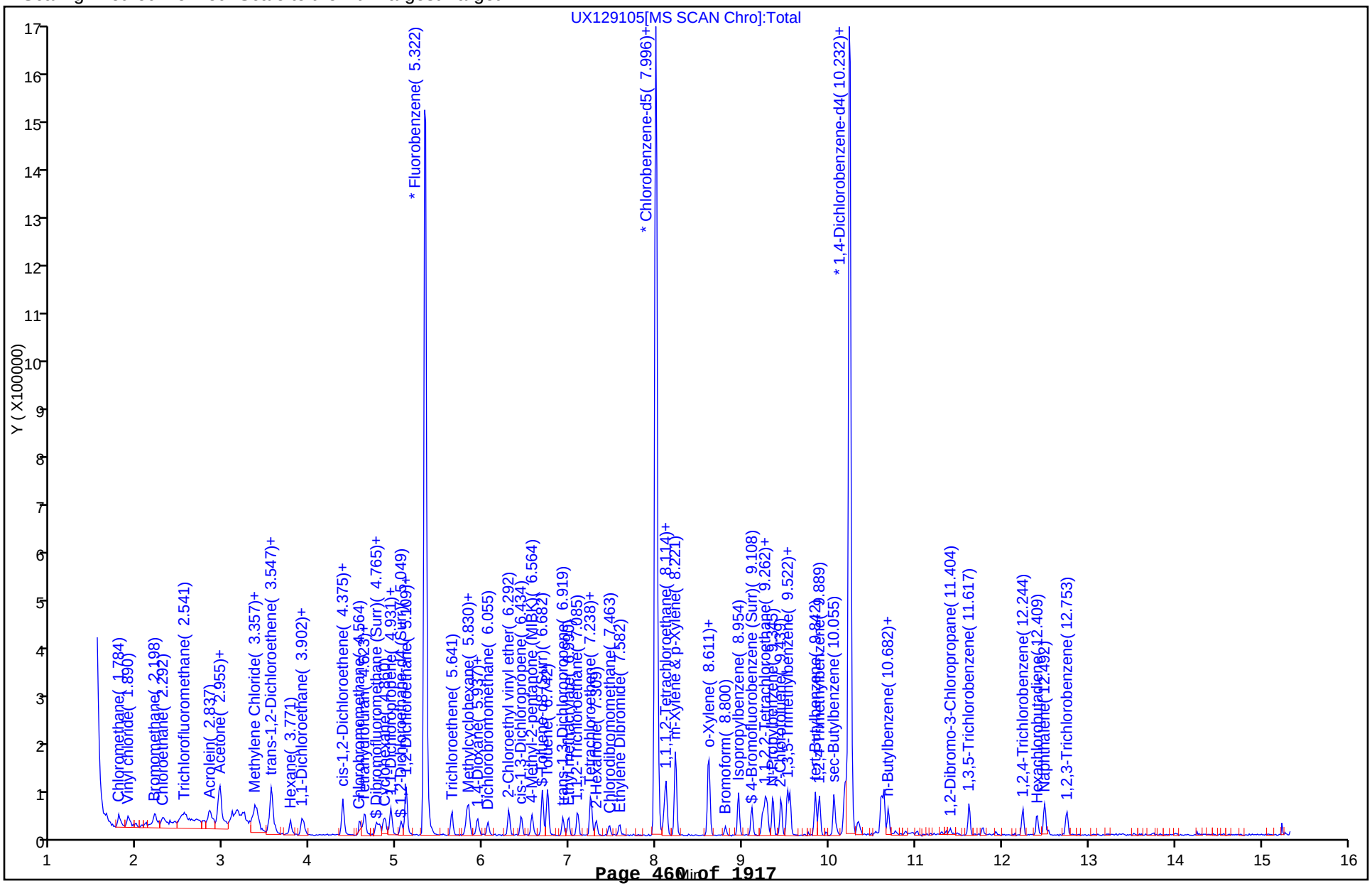
Report Date: 19-Mar-2013 22:02:41 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129105.D

Injection Date:	19-Mar-2013 19:19:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	78761	Lims Sample ID:	4
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129106.D		
Lims ID:	std8260 L3	Client ID:	
Inject. Date:	19-Mar-2013 19:45:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	240-0018085-005		
Misc. Info.:			
Operator:	1904	Instrument ID:	A3UX12
Purge Vol:	5.000 mL	ALS Bottle#:	5
Lims Batch ID:	78761	Lims Sample ID:	5
Sublist:	chrom-8260_12*sub7		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\8260_12.m		
Last Update:	19-Mar-2013 22:02:41	Calib Date:	19-Mar-2013 21:04:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D		
Limit Group:	MSV 8260DOD ICAL		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:	DB-624	Column Dia:	0.18 mm
Process Host:	XAWRK010		
First Level Reviewer: laveyt		Date:	19-Mar-2013 20:51:08

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.333	5.333	0.0	100	1640601	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	85	1241223	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.244	10.244	0.0	92	585762	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.765	4.765	0.0	55	171682	9.61	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.049	5.049	0.0	87	198966	9.27	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	92	715911	9.64	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	84	258728	9.56	
12 Dichlorodifluoromethane	85	1.642	1.641	0.001	97	248036	10.4	
13 Chloromethane	50	1.784	1.783	0.001	89	317105	10.3	
14 Vinyl chloride	62	1.902	1.890	0.012	82	328171	10.5	
15 Bromomethane	94	2.198	2.198	0.0	89	183377	9.57	
16 Chloroethane	64	2.292	2.304	-0.012	93	220599	10.3	
18 Trichlorofluoromethane	101	2.505	2.505	0.0	91	284068	9.62	
20 Acrolein	56	2.837	2.837	0.0	91	320928	99.2	
22 Acetone	43	2.967	2.955	0.012	42	100840	19.5	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.955	2.955	0.0	56	183369	9.22	
21 1,1-Dichloroethene	61	2.955	2.955	0.0	89	382138	10.0	
24 Iodomethane	142	3.097	3.109	-0.012	95	348031	9.70	
26 Carbon disulfide	76	3.156	3.144	0.012	100	777172	10.2	
27 Acetonitrile	41	3.192	3.192	0.0	100	238492	100.4	
28 Methyl acetate	43	3.227	3.227	0.0	96	280609	19.7	
30 Methylene Chloride	49	3.357	3.369	-0.012	79	330992	10.4	
31 2-Methyl-2-propanol	59	3.393	3.393	0.0	96	241508	144.5	
32 Acrylonitrile	53	3.523	3.523	0.0	98	143583	19.0	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	88	565152	9.77	
33 trans-1,2-Dichloroethene	61	3.558	3.547	0.011	91	283754	9.74	
35 Hexane	57	3.771	3.771	0.0	89	159824	9.69	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	100	340627	10.1	
37 Vinyl acetate	86	3.925	3.925	0.0	97	36401	8.97	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	70	283269	10.4	
43 2,2-Dichloropropane	77	4.375	4.375	0.0	47	113337	10.2	
41 2-Butanone (MEK)	72	4.375	4.387	-0.012	57	39511	18.3	
47 Chlorobromomethane	49	4.576	4.576	0.0	79	159853	10.9	
48 Tetrahydrofuran	42	4.612	4.612	0.0	53	52926	9.80	
49 Chloroform	83	4.623	4.623	0.0	70	316586	9.88	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	88	196778	10.4	
51 Cyclohexane	56	4.860	4.860	0.0	84	264329	10.1	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	94	246716	10.4	
53 Carbon tetrachloride	117	4.931	4.943	-0.012	57	130711	10.2	
55 Benzene	78	5.109	5.108	0.001	94	804699	10.1	
56 1,2-Dichloroethane	62	5.109	5.108	0.001	85	233403	10.2	
60 Trichloroethene	130	5.641	5.641	0.0	91	185564	9.85	
63 Methylcyclohexane	55	5.807	5.807	0.0	90	170311	10.3	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	94	200445	10.4	
66 1,4-Dioxane	88	5.937	5.937	0.0	62	99055	457.0	
65 Dibromomethane	174	5.937	5.937	0.0	91	109106	10.2	
67 Dichlorobromomethane	83	6.055	6.055	0.0	97	206674	9.48	
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	92	228923	18.7	
70 cis-1,3-Dichloropropene	75	6.434	6.434	0.0	87	281957	9.65	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	93	284160	17.7	
72 Toluene	91	6.742	6.741	0.001	91	819415	10.3	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	87	232863	9.96	
74 Ethyl methacrylate	69	6.990	6.990	0.0	86	213813	9.21	
75 1,1,2-Trichloroethane	97	7.097	7.096	0.001	89	166553	9.42	
77 Tetrachloroethene	166	7.239	7.238	0.001	89	147047	10.5	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	87	316392	9.79	
78 2-Hexanone	43	7.310	7.309	0.001	92	190745	18.6	
79 Chlorodibromomethane	129	7.463	7.463	0.0	84	142861	9.61	
123 Ethylene Dibromide	107	7.570	7.582	-0.012	95	163656	9.80	
82 Chlorobenzene	112	8.019	8.019	0.0	91	536154	10.1	
83 1,1,1,2-Tetrachloroethane	131	8.090	8.090	0.0	77	142643	10.4	
84 Ethylbenzene	106	8.114	8.114	0.0	98	256832	9.98	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	97	649183	20.1	
85 o-Xylene	106	8.611	8.599	0.012	92	322792	9.64	
86 Styrene	104	8.611	8.611	0.0	93	597527	10.5	
87 Bromoform	173	8.800	8.800	0.0	87	77729	9.23	
88 Isopropylbenzene	105	8.954	8.954	0.0	94	729831	10.4	
90 1,1,2,2-Tetrachloroethane	83	9.226	9.226	0.0	99	240427	9.79	
91 Bromobenzene	156	9.262	9.262	0.0	94	197866	9.55	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	70	75922	9.60	
93 trans-1,4-Dichloro-2-butene	53	9.286	9.286	0.0	60	52080	9.55	
94 N-Propylbenzene	120	9.357	9.357	0.001	96	190106	10.1	
95 2-Chlorotoluene	126	9.439	9.439	0.0	96	178418	10.2	
96 1,3,5-Trimethylbenzene	105	9.522	9.522	0.0	93	601905	10.1	
104 4-Chlorotoluene	126	9.546	9.546	0.0	97	190511	10.2	
97 tert-Butylbenzene	119	9.842	9.842	0.0	87	533688	10.5	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	85	629847	10.2	
99 sec-Butylbenzene	105	10.055	10.055	0.0	92	736216	10.1	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	97	366421	9.87	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	93	612829	9.83	
102 1,4-Dichlorobenzene	146	10.268	10.268	0.0	91	390581	10.2	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
105 n-Butylbenzene	91	10.599	10.599	0.0	93	557094	9.92	
106 1,2-Dichlorobenzene	146	10.635	10.634	0.001	96	365711	9.57	
107 1,2-Dibromo-3-Chloropropane	157	11.416	11.404	0.012	65	33259	8.47	
108 1,3,5-Trichlorobenzene	180	11.629	11.617	0.012	95	234998	9.89	
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	92	214688	9.82	
110 Hexachlorobutadiene	225	12.410	12.409	0.001	89	90289	9.35	
111 Naphthalene	128	12.492	12.492	0.0	96	615889	9.45	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	92	193828	9.41	
S 145 Trihalomethanes, Total	1				0		38.2	
S 11 1,2-Dichloroethene, Total	96				0		20.1	
S 9 1,3-Dichloropropene, Total	75				0		19.6	
S 114 Xylenes, Total	106				0		29.8	

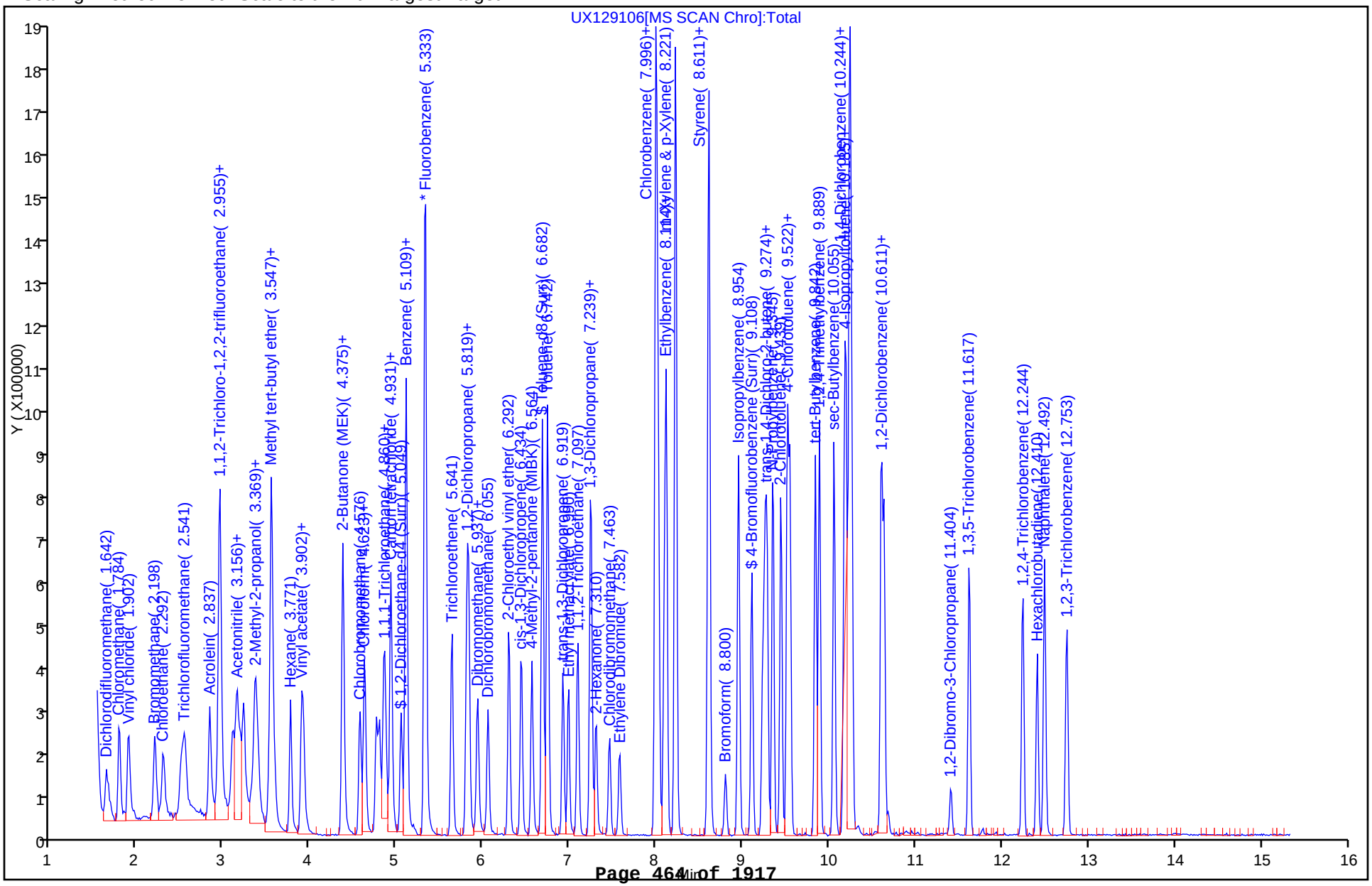
Report Date: 19-Mar-2013 22:02:42 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129106.D

Injection Date:	19-Mar-2013 19:45:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	78761	Lims Sample ID:	5
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129107.D
Lims ID: std8260 L4 Client ID:
Inject. Date: 19-Mar-2013 20:12:30 Dil. Factor: 1.0000
Sample Type: ICIS Calib Level: 4
Sample ID: 240-0018085-006
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 6
Lims Batch ID: 78761 Lims Sample ID: 6
Sublist: chrom-8260_12*sub7
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\8260_12.m
Last Update: 19-Mar-2013 22:02:43 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK010

First Level Reviewer: laveyt Date: 19-Mar-2013 20:52:57

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.333	5.333	0.0	99	1625112	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	83	1252380	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.244	10.244	0.0	89	586319	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.765	4.765	0.0	54	377447	21.3	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.049	5.049	0.0	89	466072	21.9	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	93	1642014	21.9	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	87	576024	21.1	
12 Dichlorodifluoromethane	85	1.641	1.641	0.0	87	505120	21.5	
13 Chloromethane	50	1.783	1.783	0.0	89	617687	20.2	
14 Vinyl chloride	62	1.890	1.890	0.0	96	645700	20.8	
15 Bromomethane	94	2.198	2.198	0.0	90	374737	19.7	
16 Chloroethane	64	2.304	2.304	0.0	98	445174	20.9	
18 Trichlorofluoromethane	101	2.505	2.505	0.0	86	600584	20.2	
20 Acrolein	56	2.837	2.837	0.0	95	658956	205.6	
22 Acetone	43	2.955	2.955	0.0	26	207028	42.0	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.955	2.955	0.0	54	381875	19.4	
21 1,1-Dichloroethene	61	2.955	2.955	0.0	89	778149	20.6	
24 Iodomethane	142	3.109	3.109	0.0	96	690554	19.4	
26 Carbon disulfide	76	3.144	3.144	0.0	98	1542877	20.5	
27 Acetonitrile	41	3.192	3.192	0.0	94	481410	204.6	
28 Methyl acetate	43	3.227	3.227	0.0	96	551949	39.1	
30 Methylene Chloride	49	3.369	3.369	0.0	78	616462	20.0	
31 2-Methyl-2-propanol	59	3.393	3.393	0.0	97	674443	377.4	
32 Acrylonitrile	53	3.523	3.523	0.0	99	317128	42.4	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	88	1122695	19.6	
33 trans-1,2-Dichloroethene	61	3.547	3.547	0.0	91	568533	19.7	
35 Hexane	57	3.771	3.771	0.0	88	315190	19.3	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	100	665790	19.8	
37 Vinyl acetate	86	3.925	3.925	0.0	96	79312	19.2	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	69	538477	19.9	
43 2,2-Dichloropropane	77	4.375	4.375	0.0	62	211849	19.3	
41 2-Butanone (MEK)	72	4.387	4.387	0.0	70	83964	40.0	
47 Chlorobromomethane	49	4.576	4.576	0.0	77	309023	21.2	
48 Tetrahydrofuran	42	4.612	4.612	0.0	87	102971	20.2	
49 Chloroform	83	4.623	4.623	0.0	81	596008	18.8	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	89	365128	19.5	
51 Cyclohexane	56	4.860	4.860	0.0	87	513784	19.8	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	97	483738	20.6	
53 Carbon tetrachloride	117	4.943	4.943	0.0	76	244679	19.4	
55 Benzene	78	5.108	5.108	0.0	94	1547755	19.5	
56 1,2-Dichloroethane	62	5.108	5.108	0.0	89	471468	20.9	
60 Trichloroethene	130	5.641	5.641	0.0	90	367098	19.7	
63 Methylcyclohexane	55	5.807	5.807	0.0	89	319338	19.5	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	89	363549	19.1	
66 1,4-Dioxane	88	5.937	5.937	0.0	58	223645	1041.6	
65 Dibromomethane	174	5.937	5.937	0.0	91	221611	21.0	
67 Dichlorobromomethane	83	6.055	6.055	0.0	99	427099	19.8	
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	92	496005	40.8	
70 cis-1,3-Dichloropropene	75	6.434	6.434	0.0	91	569454	19.7	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	94	613165	38.5	
72 Toluene	91	6.741	6.741	0.0	96	1596098	19.9	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	88	470372	19.9	
74 Ethyl methacrylate	69	6.990	6.990	0.0	87	460204	19.7	
75 1,1,2-Trichloroethane	97	7.096	7.096	0.0	85	325670	18.3	
77 Tetrachloroethene	166	7.238	7.238	0.0	92	286365	20.3	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	87	625825	19.2	
78 2-Hexanone	43	7.309	7.309	0.0	92	427558	41.3	
79 Chlorodibromomethane	129	7.463	7.463	0.0	87	289717	19.3	
123 Ethylene Dibromide	107	7.582	7.582	0.0	97	329556	19.6	
82 Chlorobenzene	112	8.019	8.019	0.0	93	1040695	19.4	
83 1,1,1,2-Tetrachloroethane	131	8.090	8.090	0.0	84	275638	19.9	
84 Ethylbenzene	106	8.114	8.114	0.0	98	500199	19.3	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	97	1247365	38.3	
85 o-Xylene	106	8.599	8.599	0.0	92	637145	18.9	
86 Styrene	104	8.611	8.611	0.0	92	1168617	20.4	
87 Bromoform	173	8.800	8.800	0.0	95	171677	20.2	
88 Isopropylbenzene	105	8.954	8.954	0.0	95	1398784	19.7	
90 1,1,2,2-Tetrachloroethane	83	9.226	9.226	0.0	99	499113	20.3	
91 Bromobenzene	156	9.262	9.262	0.0	91	396819	19.1	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	71	164028	20.7	
93 trans-1,4-Dichloro-2-butene	53	9.286	9.286	0.0	63	108731	19.9	
94 N-Propylbenzene	120	9.357	9.357	0.0	97	355379	18.8	
95 2-Chlorotoluene	126	9.439	9.439	0.0	96	346176	19.8	
96 1,3,5-Trimethylbenzene	105	9.522	9.522	0.0	91	1146960	19.2	
104 4-Chlorotoluene	126	9.546	9.546	0.0	97	375675	20.0	
97 tert-Butylbenzene	119	9.842	9.842	0.0	87	998899	19.6	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	85	1205373	19.5	
99 sec-Butylbenzene	105	10.055	10.055	0.0	92	1412051	19.3	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	96	726107	19.5	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	95	1205026	19.3	
102 1,4-Dichlorobenzene	146	10.268	10.268	0.0	95	754614	19.8	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
105 n-Butylbenzene	91	10.599	10.599	0.0	93	1084886	19.3	
106 1,2-Dichlorobenzene	146	10.634	10.634	0.0	97	714948	18.7	
107 1,2-Dibromo-3-Chloropropane	157	11.404	11.404	0.0	75	82138	20.9	
108 1,3,5-Trichlorobenzene	180	11.617	11.617	0.0	96	468467	19.7	
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	93	415050	19.0	
110 Hexachlorobutadiene	225	12.409	12.409	0.0	92	164960	17.1	
111 Naphthalene	128	12.492	12.492	0.0	97	1283880	19.7	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	94	393407	19.1	
S 145 Trihalomethanes, Total	1				0		78.1	
S 11 1,2-Dichloroethene, Total	96				0		39.6	
S 9 1,3-Dichloropropene, Total	75				0		39.6	
S 114 Xylenes, Total	106				0		57.2	

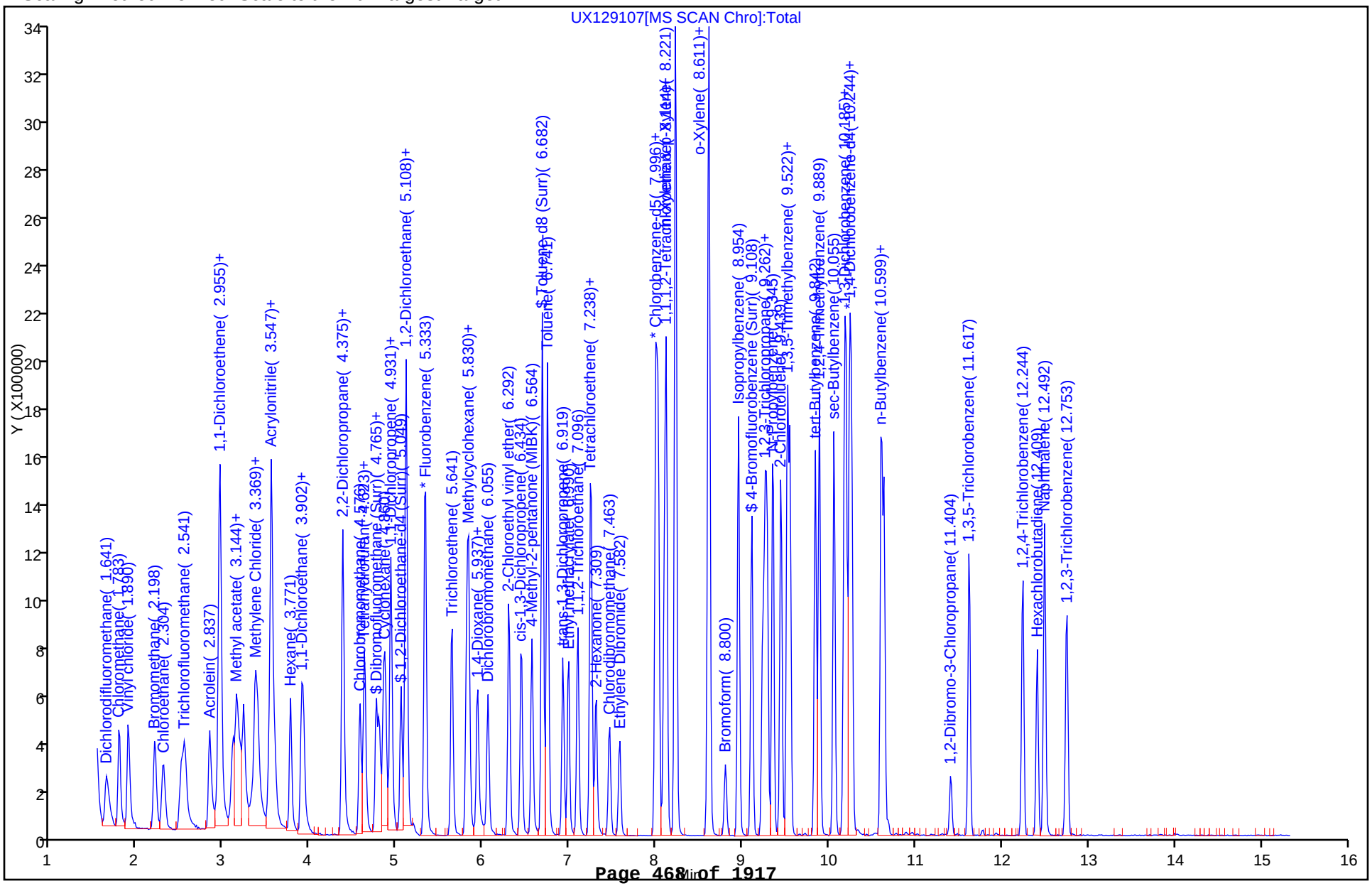
Report Date: 19-Mar-2013 22:02:43 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129107.D

Injection Date:	19-Mar-2013 20:12:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	78761	Lims Sample ID:	6
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129108.D
Lims ID: std8260 L5 Client ID:
Inject. Date: 19-Mar-2013 20:38:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0018085-007
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 7
Lims Batch ID: 78761 Lims Sample ID: 7
Sublist: chrom-8260_12*sub7
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\8260_12.m
Last Update: 19-Mar-2013 22:02:44 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK010

First Level Reviewer: laveyt Date: 19-Mar-2013 20:57:36

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.334	5.333	0.001	99	1644671	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	83	1297882	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.244	10.244	0.0	87	609984	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.766	4.765	0.001	57	733447	41.0	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.050	5.049	0.001	90	909095	42.2	
$ 7 Toluene-d8 (Surr)	98	6.683	6.682	0.0	83	3154534	40.6	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	88	1144505	40.4	
12 Dichlorodifluoromethane	85	1.642	1.641	0.001	86	1001880	42.1	
13 Chloromethane	50	1.784	1.783	0.001	89	1244642	40.3	
14 Vinyl chloride	62	1.890	1.890	0.0	82	1322579	42.1	
15 Bromomethane	94	2.198	2.198	0.0	90	814969	42.4	
16 Chloroethane	64	2.293	2.304	-0.012	94	902700	41.9	
18 Trichlorofluoromethane	101	2.505	2.505	0.0	86	1225992	40.6	
20 Acrolein	56	2.837	2.837	0.0	95	1444338	445.3	
22 Acetone	43	2.955	2.955	0.0	96	444789	90.7	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.943	2.955	-0.012	55	817795	41.0	
21 1,1-Dichloroethene	61	2.943	2.955	-0.012	89	1615640	42.3	
24 Iodomethane	142	3.097	3.109	-0.012	96	1447106	40.2	
26 Carbon disulfide	76	3.144	3.144	0.0	98	3218798	42.3	
27 Acetonitrile	41	3.192	3.192	0.0	99	998231	419.3	
28 Methyl acetate	43	3.227	3.227	0.0	96	1161082	81.2	
30 Methylene Chloride	49	3.357	3.369	-0.012	80	1258486	40.9	
31 2-Methyl-2-propanol	59	3.405	3.393	0.012	99	1431053	854.2	
32 Acrylonitrile	53	3.523	3.523	0.0	97	644659	85.1	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	88	2404725	41.5	
33 trans-1,2-Dichloroethene	61	3.547	3.547	0.0	92	1167773	40.0	
35 Hexane	57	3.772	3.771	0.001	87	704809	42.6	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	100	1393539	41.0	
37 Vinyl acetate	86	3.925	3.925	0.0	97	173792	41.0	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	68	1097152	40.1	
43 2,2-Dichloropropane	77	4.375	4.375	0.0	65	467566	42.1	
41 2-Butanone (MEK)	72	4.375	4.387	-0.012	97	179702	85.4	
47 Chlorobromomethane	49	4.576	4.576	0.0	76	640323	43.4	
48 Tetrahydrofuran	42	4.612	4.612	0.0	83	217829	43.2	
49 Chloroform	83	4.624	4.623	0.001	80	1272490	39.6	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	87	808294	42.6	
51 Cyclohexane	56	4.860	4.860	0.0	85	1132202	43.2	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	97	1032865	43.4	
53 Carbon tetrachloride	117	4.943	4.943	0.0	65	560595	43.8	
55 Benzene	78	5.109	5.108	0.001	94	3227235	40.3	
56 1,2-Dichloroethane	62	5.109	5.108	0.001	94	976630	42.7	
60 Trichloroethene	130	5.641	5.641	0.0	93	768376	40.7	
63 Methylcyclohexane	55	5.807	5.807	0.0	86	668496	40.4	
62 1,2-Dichloropropane	63	5.831	5.830	0.001	95	775052	40.2	
66 1,4-Dioxane	88	5.937	5.937	0.0	62	501020	2305.7	
65 Dibromomethane	174	5.937	5.937	0.0	90	454247	42.5	
67 Dichlorobromomethane	83	6.055	6.055	0.0	96	906675	41.5	
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	91	1014204	82.5	
70 cis-1,3-Dichloropropene	75	6.434	6.434	0.0	91	1232646	42.1	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	95	1334476	82.7	
72 Toluene	91	6.742	6.741	0.001	90	3393768	40.8	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	88	1031754	42.2	
74 Ethyl methacrylate	69	6.990	6.990	0.0	87	1049290	43.2	
75 1,1,2-Trichloroethane	97	7.097	7.096	0.001	84	714501	38.6	
77 Tetrachloroethene	166	7.239	7.238	0.001	92	621389	42.5	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	86	1378096	40.8	
78 2-Hexanone	43	7.310	7.309	0.001	91	938572	87.6	
79 Chlorodibromomethane	129	7.463	7.463	0.0	87	656532	42.2	
123 Ethylene Dibromide	107	7.582	7.582	0.0	97	715337	41.0	
82 Chlorobenzene	112	8.020	8.019	0.001	94	2210281	39.8	
83 1,1,1,2-Tetrachloroethane	131	8.091	8.090	0.001	85	624266	43.5	
84 Ethylbenzene	106	8.114	8.114	0.0	97	1096892	40.7	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	96	2732140	81.0	
85 o-Xylene	106	8.599	8.599	0.0	92	1377129	39.3	
86 Styrene	104	8.611	8.611	0.0	93	2524223	42.4	
87 Bromoform	173	8.801	8.800	0.001	94	383768	43.6	
88 Isopropylbenzene	105	8.954	8.954	0.0	94	3116156	42.4	
90 1,1,2,2-Tetrachloroethane	83	9.227	9.226	0.001	99	1075056	42.0	
91 Bromobenzene	156	9.262	9.262	0.0	92	849815	39.4	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	77	348623	42.3	
93 trans-1,4-Dichloro-2-butene	53	9.286	9.286	0.0	64	259078	45.6	
94 N-Propylbenzene	120	9.345	9.357	-0.011	97	817651	41.6	
95 2-Chlorotoluene	126	9.440	9.439	0.001	97	746407	41.0	
96 1,3,5-Trimethylbenzene	105	9.522	9.522	0.0	94	2593264	41.8	
104 4-Chlorotoluene	126	9.546	9.546	0.0	97	822981	42.2	
97 tert-Butylbenzene	119	9.842	9.842	0.0	87	2237544	42.2	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	85	2696373	41.9	
99 sec-Butylbenzene	105	10.055	10.055	0.0	93	3245480	42.7	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	99	1549044	40.1	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	95	2689323	41.4	
102 1,4-Dichlorobenzene	146	10.268	10.268	0.0	96	1618784	40.8	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
105 n-Butylbenzene	91	10.599	10.599	0.0	94	2470251	42.3	
106 1,2-Dichlorobenzene	146	10.635	10.634	0.001	97	1543015	38.8	
107 1,2-Dibromo-3-Chloropropane	157	11.416	11.404	0.012	88	191932	46.9	
108 1,3,5-Trichlorobenzene	180	11.617	11.617	0.0	96	1023427	41.4	
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	89	952334	41.8	
110 Hexachlorobutadiene	225	12.410	12.409	0.001	95	378833	37.7	
111 Naphthalene	128	12.492	12.492	0.0	97	2924409	43.1	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	94	867269	40.4	
S 145 Trihalomethanes, Total	1				0		166.9	
S 11 1,2-Dichloroethene, Total	96				0		80.1	
S 9 1,3-Dichloropropene, Total	75				0		84.3	
S 114 Xylenes, Total	106				0		120.3	

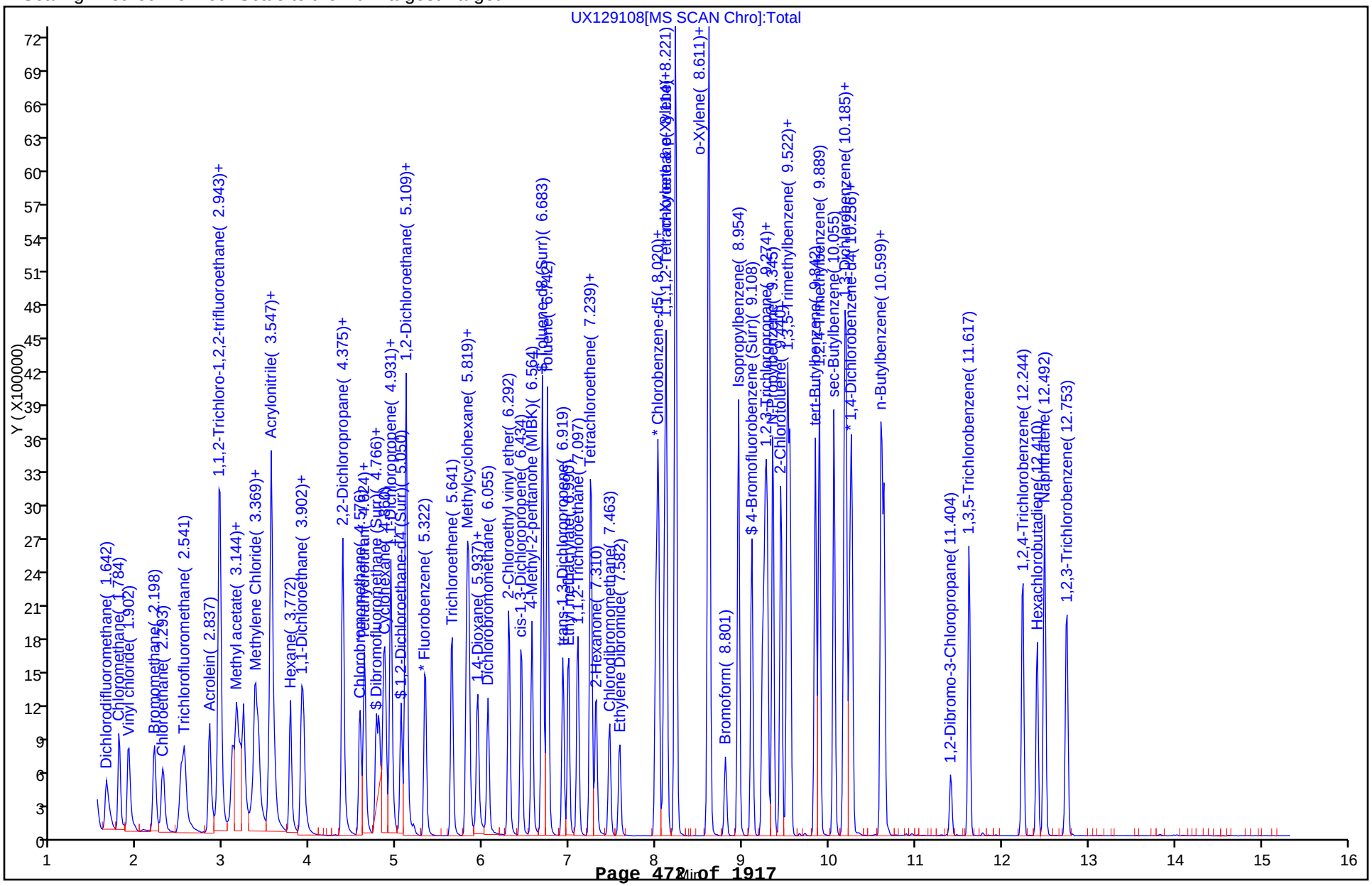
Report Date: 19-Mar-2013 22:02:44 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129108.D

Injection Date:	19-Mar-2013 20:38:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	78761	Lims Sample ID:	7
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D		
Lims ID:	std8260 L6	Client ID:	
Inject. Date:	19-Mar-2013 21:04:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	240-0018085-008		
Misc. Info.:			
Operator:	1904	Instrument ID:	A3UX12
Purge Vol:	5.000 mL	ALS Bottle#:	8
Lims Batch ID:	78761	Lims Sample ID:	8
Sublist:	chrom-8260_12*sub7		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\8260_12.m		
Last Update:	19-Mar-2013 22:02:45	Calib Date:	19-Mar-2013 21:04:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D		
Limit Group:	MSV 8260DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624	Column Dia:	0.18 mm
Process Host:	XAWRK010		
First Level Reviewer: laveyt		Date:	19-Mar-2013 21:23:38

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.322	5.333	-0.011	99	1677387	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	85	1335994	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.244	10.244	0.0	77	640081	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.765	4.765	0.0	56	1484562	81.3	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.049	5.049	0.0	89	1749169	79.7	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	83	6471049	80.9	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	87	2384265	81.8	
12 Dichlorodifluoromethane	85	1.642	1.641	0.001	88	2042244	84.1	
13 Chloromethane	50	1.784	1.783	0.001	89	2418063	76.7	
14 Vinyl chloride	62	1.902	1.890	0.012	82	2601241	81.2	
15 Bromomethane	94	2.186	2.198	-0.012	89	1627622	83.0	
16 Chloroethane	64	2.292	2.304	-0.012	93	1786236	81.4	
18 Trichlorofluoromethane	101	2.505	2.505	0.0	85	2463254	79.7	
20 Acrolein	56	2.837	2.837	0.0	90	2722298	822.9	
22 Acetone	43	2.955	2.955	0.0	97	735840	148.0	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.943	2.955	-0.012	54	1585748	78.0	
21 1,1-Dichloroethene	61	2.943	2.955	-0.012	89	3216276	82.7	
24 Iodomethane	142	3.097	3.109	-0.012	95	2944528	80.3	
26 Carbon disulfide	76	3.144	3.144	0.0	98	6467027	83.2	
27 Acetonitrile	41	3.192	3.192	0.0	100	1811620	746.1	
28 Methyl acetate	43	3.227	3.227	0.0	90	2083167	142.8	
30 Methylene Chloride	49	3.357	3.369	-0.012	79	2457393	78.8	
31 2-Methyl-2-propanol	59	3.405	3.393	0.012	98	2217730	1579.0	
32 Acrylonitrile	53	3.523	3.523	0.0	100	1237197	160.2	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	92	4702821	79.5	
33 trans-1,2-Dichloroethene	61	3.547	3.547	0.0	90	2421334	81.3	
35 Hexane	57	3.760	3.771	-0.011	89	1388277	82.4	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	99	2796750	80.8	
37 Vinyl acetate	86	3.925	3.925	0.0	96	350832	80.7	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	67	2207377	79.1	
43 2,2-Dichloropropane	77	4.375	4.375	0.0	65	953465	84.1	
41 2-Butanone (MEK)	72	4.375	4.387	-0.012	97	336925	157.5	
47 Chlorobromomethane	49	4.564	4.576	-0.012	90	1267482	84.3	
48 Tetrahydrofuran	42	4.612	4.612	0.0	85	392170	76.9	
49 Chloroform	83	4.623	4.623	0.0	70	2517744	76.9	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	92	1638237	84.7	
51 Cyclohexane	56	4.860	4.860	0.0	86	2301860	86.1	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	95	2073524	85.5	
53 Carbon tetrachloride	117	4.931	4.943	-0.012	70	1158658	88.8	
55 Benzene	78	5.109	5.108	0.001	94	6528217	79.8	
56 1,2-Dichloroethane	62	5.109	5.108	0.001	89	1895003	81.3	
60 Trichloroethene	130	5.641	5.641	0.0	93	1543057	80.1	
63 Methylcyclohexane	55	5.807	5.807	0.0	89	1408722	83.4	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	95	1561437	79.5	
66 1,4-Dioxane	88	5.937	5.937	0.0	90	937401	4229.9	
65 Dibromomethane	174	5.937	5.937	0.0	91	902341	82.7	
67 Dichlorobromomethane	83	6.055	6.055	0.0	99	1859020	83.4	
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	90	2027747	161.8	
70 cis-1,3-Dichloropropene	75	6.434	6.434	0.0	92	2566825	85.9	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	93	2409166	146.4	
72 Toluene	91	6.742	6.741	0.001	94	7006841	81.8	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	87	2203130	87.5	
74 Ethyl methacrylate	69	6.990	6.990	0.0	87	2108711	84.4	
75 1,1,2-Trichloroethane	97	7.097	7.096	0.001	85	1384310	72.7	
77 Tetrachloroethene	166	7.239	7.238	0.0	91	1267609	84.3	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	87	2672010	76.8	
78 2-Hexanone	43	7.310	7.309	0.001	92	1691832	153.3	
79 Chlorodibromomethane	129	7.463	7.463	0.0	87	1357059	84.8	
123 Ethylene Dibromide	107	7.582	7.582	0.0	98	1421340	79.1	
82 Chlorobenzene	112	8.019	8.019	0.0	94	4557847	79.7	
83 1,1,1,2-Tetrachloroethane	131	8.090	8.090	0.0	85	1328126	89.9	
84 Ethylbenzene	106	8.114	8.114	0.0	97	2240172	80.8	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	96	5744532	165.5	
85 o-Xylene	106	8.599	8.599	0.0	93	2858387	79.3	
86 Styrene	104	8.611	8.611	0.0	92	5218328	85.2	
87 Bromoform	173	8.800	8.800	0.0	94	823905	90.9	
88 Isopropylbenzene	105	8.954	8.954	0.0	94	6517923	86.2	
90 1,1,2,2-Tetrachloroethane	83	9.226	9.226	0.0	99	2052408	76.5	
91 Bromobenzene	156	9.262	9.262	0.0	93	1762163	77.9	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	72	647401	74.9	
93 trans-1,4-Dichloro-2-butene	53	9.286	9.286	0.0	62	482358	80.9	
94 N-Propylbenzene	120	9.357	9.357	0.001	96	1683275	81.6	
95 2-Chlorotoluene	126	9.451	9.439	0.012	96	1556308	81.5	
96 1,3,5-Trimethylbenzene	105	9.522	9.522	0.0	91	5387955	82.7	
104 4-Chlorotoluene	126	9.546	9.546	0.0	98	1688677	82.5	
97 tert-Butylbenzene	119	9.842	9.842	0.0	87	4759139	85.5	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	76	5652131	83.7	
99 sec-Butylbenzene	105	10.055	10.055	0.0	93	6896058	86.4	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	99	3177853	78.4	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	95	5793560	85.0	
102 1,4-Dichlorobenzene	146	10.268	10.268	0.0	95	3351686	80.5	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
105 n-Butylbenzene	91	10.599	10.599	0.0	95	5146665	83.9	
106 1,2-Dichlorobenzene	146	10.635	10.634	0.001	96	3174832	76.0	
107 1,2-Dibromo-3-Chloropropane	157	11.416	11.404	0.012	89	370224	86.3	
108 1,3,5-Trichlorobenzene	180	11.617	11.617	0.0	93	2085046	80.3	
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	92	1963402	82.2	
110 Hexachlorobutadiene	225	12.409	12.409	0.0	94	789707	74.9	
111 Naphthalene	128	12.492	12.492	0.0	97	5527180	77.6	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	94	1699416	75.5	
S 145 Trihalomethanes, Total	1				0		336.0	
S 11 1,2-Dichloroethene, Total	96				0		160.4	
S 9 1,3-Dichloropropene, Total	75				0		173.5	
S 114 Xylenes, Total	106				0		244.7	

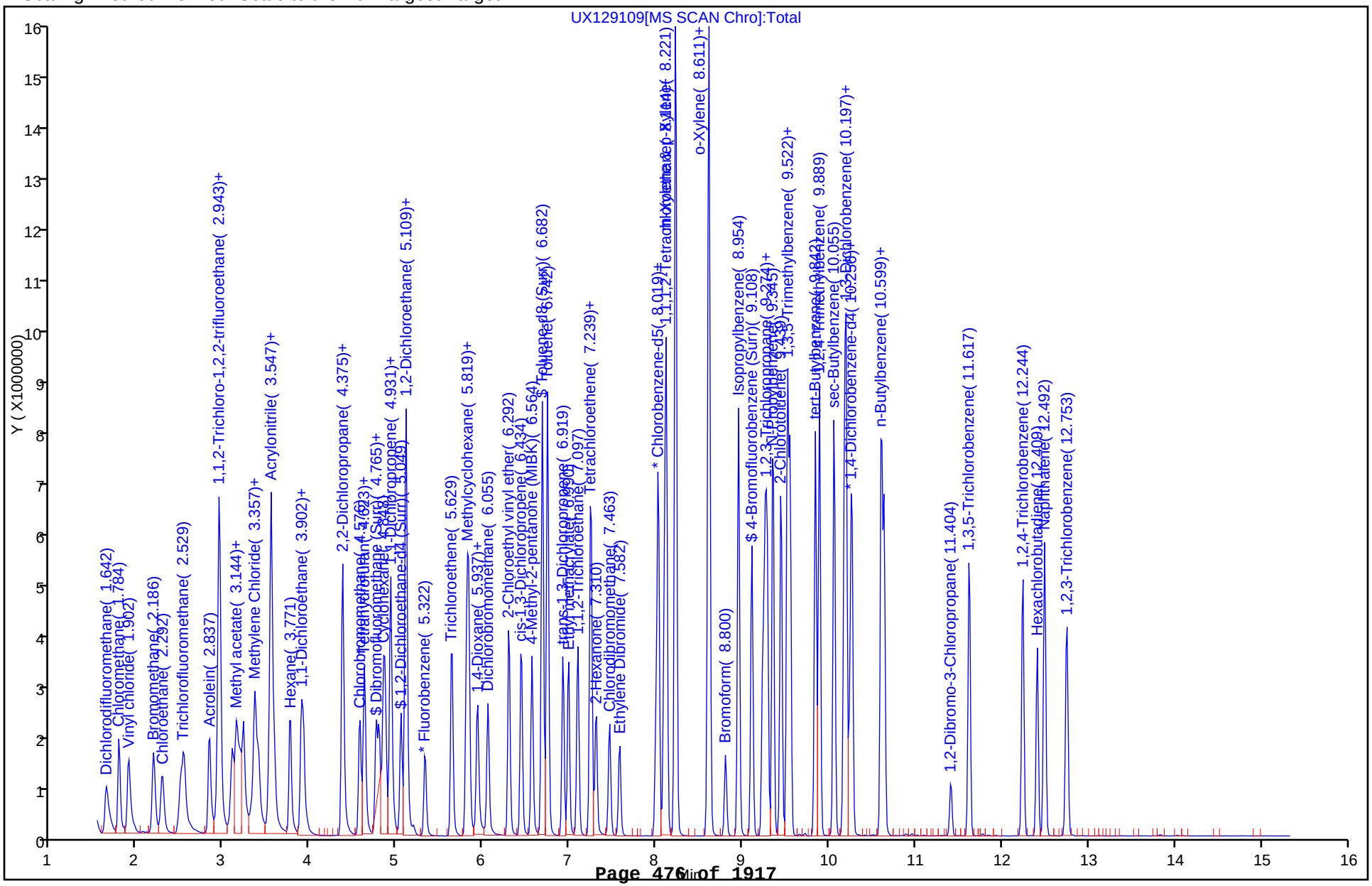
Report Date: 19-Mar-2013 22:02:45 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D

Injection Date:	19-Mar-2013 21:04:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	78761	Lims Sample ID:	8
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-78761/9 Calibration Date: 03/19/2013 21:32

Instrument ID: A3UX12 Calib Start Date: 12/17/2012 23:44

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 12/18/2012 01:30

Lab File ID: UX129110.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	Ave	0.0068	0.0057		0.841	1.00	-15.9	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129110.D
Lims ID: ICV Client ID:
Inject. Date: 19-Mar-2013 21:32:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018085-009
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 9
Lims Batch ID: 78761 Lims Sample ID: 9
Sublist:
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\8260_12.m
Last Update: 19-Mar-2013 22:02:45 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK010

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.333	5.333	0.0	100	1642021	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	86	1253876	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.244	10.244	0.0	83	594297	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.765	4.765	0.0	56	383633	21.5	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.049	5.049	0.0	90	456928	21.3	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	82	1669952	22.2	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	84	607498	22.2	
12 Dichlorodifluoromethane	85	1.642	1.641	0.001	87	442774	18.6	
13 Chloromethane	50	1.784	1.783	0.001	99	562777	18.2	
14 Vinyl chloride	62	1.902	1.890	0.012	96	608507	19.4	
15 Bromomethane	94	2.210	2.198	0.012	90	317401	16.5	
16 Chloroethane	64	2.304	2.304	0.0	92	415794	19.4	
18 Trichlorofluoromethane	101	2.505	2.505	0.0	84	597175	19.9	
19 Ethyl ether	59	2.718	2.718	0.0	87	351096	25.4	
20 Acrolein	56	2.837	2.837	0.0	88	245541	75.8	
22 Acetone	43	2.967	2.955	0.012	40	167585	33.3	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.955	2.955	0.0	56	436363	21.9	
21 1,1-Dichloroethene	61	2.955	2.955	0.0	89	829815	21.8	
24 Iodomethane	142	3.109	3.109	0.0	96	755462	21.0	
26 Carbon disulfide	76	3.156	3.144	0.012	98	1639079	21.6	
27 Acetonitrile	41	3.203	3.192	0.011	93	139423	58.7	
28 Methyl acetate	43	3.227	3.227	0.0	97	258939	18.1	
30 Methylene Chloride	49	3.369	3.369	0.0	82	645315	20.7	
31 2-Methyl-2-propanol	59	3.393	3.393	0.0	96	581648	322.2	
32 Acrylonitrile	53	3.523	3.523	0.0	99	440397	58.2	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	88	1128290	19.5	
33 trans-1,2-Dichloroethene	61	3.558	3.547	0.011	90	592939	20.3	
35 Hexane	57	3.771	3.771	0.0	88	386606	23.4	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	99	707631	20.9	
37 Vinyl acetate	86	3.925	3.925	0.0	96	99244	23.7	
38 Isopropyl ether	87	3.937	3.937	0.0	87	364139	23.5	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	68	555099	20.3	
43 2,2-Dichloropropane	77	4.387	4.375	0.012	55	237097	21.4	
41 2-Butanone (MEK)	72	4.375	4.387	-0.012	59	82507	38.9	
47 Chlorobromomethane	49	4.576	4.576	0.0	78	318676	21.6	
48 Tetrahydrofuran	42	4.612	4.612	0.0	83	97445	18.8	
49 Chloroform	83	4.623	4.623	0.0	81	623529	19.4	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	93	395873	20.9	
51 Cyclohexane	56	4.860	4.860	0.0	85	528299	20.2	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	94	508796	21.4	
53 Carbon tetrachloride	117	4.943	4.943	0.0	58	271475	21.2	
54 Isobutyl alcohol	41	4.978	4.978	0.0	93	359638	840.7	
55 Benzene	78	5.109	5.108	0.001	94	1645081	20.6	
56 1,2-Dichloroethane	62	5.109	5.108	0.001	87	474380	20.8	
60 Trichloroethene	130	5.641	5.641	0.0	91	393770	20.9	
63 Methylcyclohexane	55	5.807	5.807	0.0	85	349724	21.2	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	92	388351	20.2	
65 Dibromomethane	174	5.937	5.937	0.0	83	224499	21.0	
67 Dichlorobromomethane	83	6.055	6.055	0.0	97	463460	21.2	
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	92	236553	19.3	
70 cis-1,3-Dichloropropene	75	6.446	6.434	0.012	90	603497	20.6	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	94	573735	35.6	
72 Toluene	91	6.742	6.741	0.001	90	1670929	20.8	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	88	528674	22.4	
75 1,1,2-Trichloroethane	97	7.097	7.096	0.0	86	335758	18.8	
77 Tetrachloroethene	166	7.238	7.238	0.0	91	307304	21.8	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	88	654881	20.1	
78 2-Hexanone	43	7.298	7.309	-0.011	92	406643	39.3	
79 Chlorodibromomethane	129	7.463	7.463	0.0	87	308044	20.5	
123 Ethylene Dibromide	107	7.582	7.582	0.0	99	341858	20.3	
82 Chlorobenzene	112	8.019	8.019	0.0	96	1112315	20.7	
83 1,1,1,2-Tetrachloroethane	131	8.090	8.090	0.0	83	306688	22.1	
84 Ethylbenzene	106	8.114	8.114	0.0	97	538441	20.7	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	97	1311792	40.3	
85 o-Xylene	106	8.599	8.599	0.0	91	688817	20.4	
86 Styrene	104	8.611	8.611	0.0	92	1237312	21.5	
87 Bromoform	173	8.800	8.800	0.0	95	177773	20.9	
88 Isopropylbenzene	105	8.954	8.954	0.0	93	1501061	21.2	
89 Cyclohexanone	55	9.061	9.049	0.012	87	280572	189.7	
90 1,1,2,2-Tetrachloroethane	83	9.226	9.226	0.0	98	493734	19.8	
91 Bromobenzene	156	9.262	9.262	0.0	93	423001	20.1	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	69	156891	19.6	
93 trans-1,4-Dichloro-2-butene	53	9.286	9.286	0.0	66	225797	40.8	
94 N-Propylbenzene	120	9.345	9.357	-0.011	97	404131	21.1	
95 2-Chlorotoluene	126	9.439	9.439	0.0	96	369326	20.8	
96 1,3,5-Trimethylbenzene	105	9.522	9.522	0.0	95	1253392	20.7	
104 4-Chlorotoluene	126	9.546	9.546	0.0	98	408618	21.5	
97 tert-Butylbenzene	119	9.842	9.842	0.0	89	1097536	21.2	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	70	1350572	21.5	
99 sec-Butylbenzene	105	10.055	10.055	0.0	93	1647294	22.2	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	99	766536	20.4	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	94	1464611	23.1	
102 1,4-Dichlorobenzene	146	10.268	10.268	0.0	94	793696	20.5	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
103 1,2,3-Trimethylbenzene	105	10.303	10.303	0.0	89	1391850	19.8	
105 n-Butylbenzene	91	10.599	10.599	0.0	94	1345064	23.6	
106 1,2-Dichlorobenzene	146	10.635	10.634	0.001	97	777193	20.0	
107 1,2-Dibromo-3-Chloropropane	157	11.404	11.404	0.0	75	86295	21.7	
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	91	513799	23.2	
110 Hexachlorobutadiene	225	12.409	12.409	0.0	96	207764	21.2	
111 Naphthalene	128	12.492	12.492	0.0	97	1336286	20.2	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	93	481520	23.0	
S 145 Trihalomethanes, Total	1				0		82.1	
S 11 1,2-Dichloroethene, Total	96				0		40.7	
S 114 Xylenes, Total	106				0		60.6	

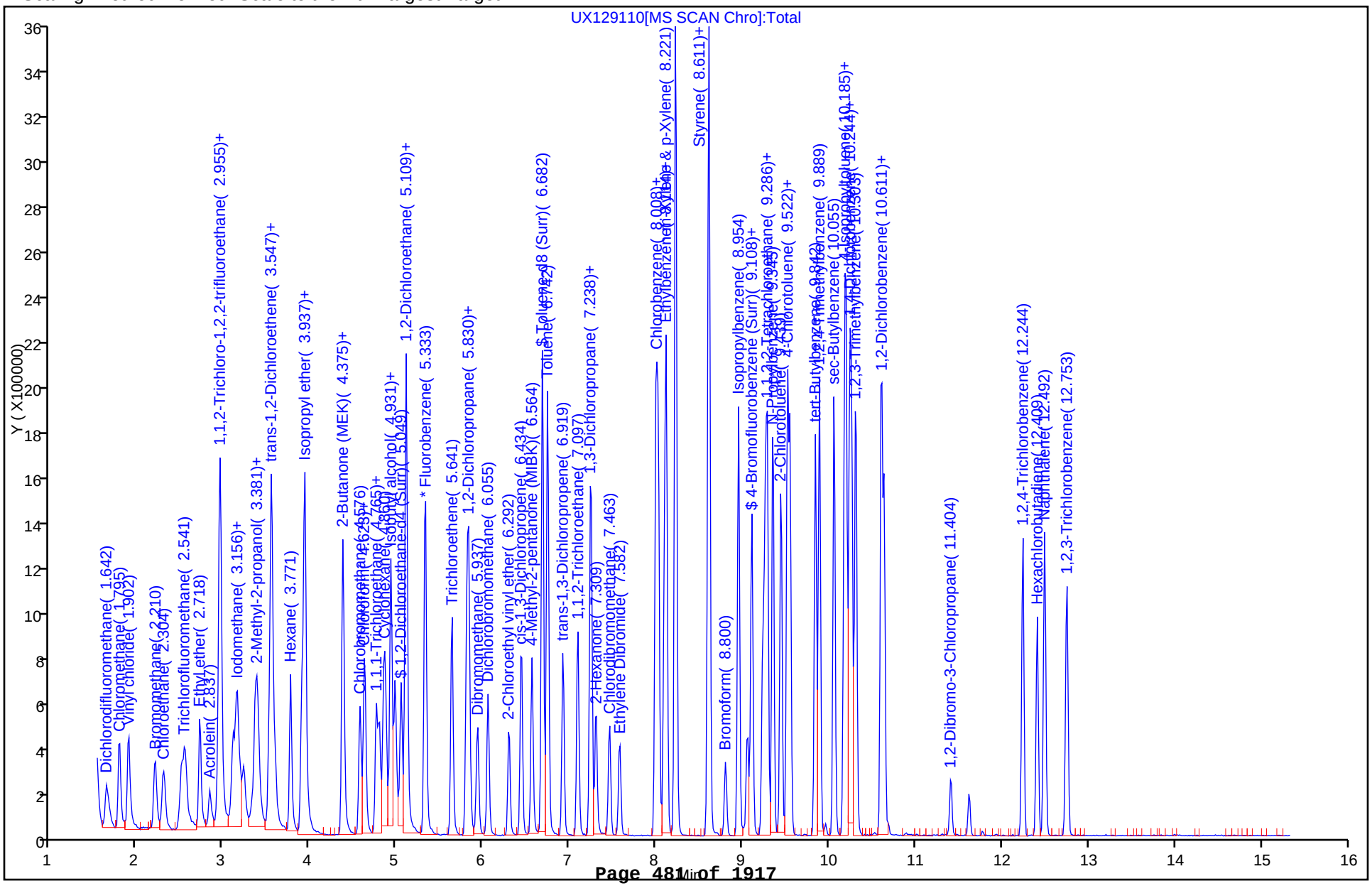
Report Date: 19-Mar-2013 22:02:46 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129110.D

Injection Date:	19-Mar-2013 21:32:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	78761	Lims Sample ID:	9
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-78761/9 Calibration Date: 03/19/2013 21:32

Instrument ID: A3UX12 Calib Start Date: 03/19/2013 18:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/19/2013 21:04

Lab File ID: UX129110.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	0.2894	0.2697	0.1000	0.0186	0.0200	-6.8	20.0
Chloromethane	Ave	0.3759	0.3427	0.1000	0.0182	0.0200	-8.8	20.0
Vinyl chloride	Ave	0.3817	0.3706	0.1000	0.0194	0.0200	-2.9	20.0
Bromomethane	Ave	0.2337	0.1933	0.0500	0.0165	0.0200	-17.3	20.0
Chloroethane	Ave	0.2617	0.2532	0.0500	0.0194	0.0200	-3.2	20.0
Trichlorofluoromethane	Lin1		0.3637	0.1000	0.0199	0.0200	-0.4	20.0
Acrolein	Ave	0.0394	0.0499		0.0758	0.0600	26.4*	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2423	0.2658	0.0500	0.0219	0.0200	9.7	20.0
1,1-Dichloroethene	Ave	0.4640	0.5054	0.1000	0.0218	0.0200	8.9	20.0
Acetone	Lin1		0.0510	0.0500	0.0333	0.0400	-16.7	20.0
Iodomethane	Ave	0.4375	0.4601		0.0210	0.0200	5.2	20.0
Carbon disulfide	Ave	0.9264	0.998	0.1000	0.0216	0.0200	7.8	20.0
Acetonitrile	Ave	0.0290	0.0283		0.0587	0.0600	-2.2	20.0
Methyl acetate	Ave	0.1739	0.1577	0.1000	0.0181	0.0200	-9.3	20.0
Methylene Chloride	Lin1		0.3930	0.1000	0.0207	0.0200	3.7	20.0
2-Methyl-2-propanol	Qua		0.0177		0.322	0.400	-19.5	20.0
Acrylonitrile	Ave	0.0921	0.0894		0.0582	0.0600	-2.9	20.0
Methyl tert-butyl ether	Ave	0.7052	0.6871	0.1000	0.0195	0.0200	-2.6	20.0
trans-1,2-Dichloroethene	Ave	0.3553	0.3611	0.1000	0.0203	0.0200	1.6	20.0
1,1-Dichloroethane	Ave	0.4129	0.4310	0.1000	0.0209	0.0200	4.4	20.0
Vinyl acetate	Lin1		0.0604		0.0237	0.0200	18.3	20.0
2-Butanone (MEK)	Lin		0.0251*	0.0500	0.0389	0.0400	-2.8	20.0
cis-1,2-Dichloroethene	Ave	0.3326	0.3381	0.1000	0.0203	0.0200	1.6	20.0
2,2-Dichloropropane	Ave	0.1352	0.1444		0.0214	0.0200	6.8	20.0
Bromochloromethane	Ave	0.1793	0.1941		0.0216	0.0200	8.2	20.0
Chloroform	Ave	0.3905	0.3797	0.2000	0.0194	0.0200	-2.8	20.0
1,1,1-Trichloroethane	Ave	0.2307	0.2411	0.1000	0.0209	0.0200	4.5	20.0
Cyclohexane	Ave	0.3188	0.3217	0.1000	0.0202	0.0200	0.9	20.0
1,1-Dichloropropene	Ave	0.2891	0.3099		0.0214	0.0200	7.2	20.0
Carbon tetrachloride	Ave	0.1556	0.1653	0.1000	0.0212	0.0200	6.2	20.0
1,2-Dichloroethane	Ave	0.2780	0.2889	0.1000	0.0208	0.0200	3.9	20.0
Benzene	Ave	0.9750	1.002	0.5000	0.0206	0.0200	2.8	20.0
Trichloroethene	Ave	0.2297	0.2398	0.2000	0.0209	0.0200	4.4	20.0
Methylcyclohexane	Ave	0.2013	0.2130	0.1000	0.0212	0.0200	5.8	20.0
1,2-Dichloropropane	Ave	0.2342	0.2365	0.1000	0.0202	0.0200	1.0	20.0
Dibromomethane	Ave	0.1301	0.1367		0.0210	0.0200	5.1	20.0
Bromodichloromethane	Ave	0.2659	0.2823	0.1000	0.0212	0.0200	6.2	20.0
cis-1,3-Dichloropropene	Ave	0.3562	0.3675	0.1500	0.0206	0.0200	3.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1962	0.1747	0.0500	0.0356	0.0400	-11.0	20.0
Toluene	Ave	1.283	1.333	0.4000	0.0208	0.0200	3.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-78761/9 Calibration Date: 03/19/2013 21:32

Instrument ID: A3UX12 Calib Start Date: 03/19/2013 18:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/19/2013 21:04

Lab File ID: UX129110.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	Ave	0.3767	0.4216	0.1000	0.0224	0.0200	11.9	20.0
1,1,2-Trichloroethane	Ave	0.2849	0.2678	0.1000	0.0188	0.0200	-6.0	20.0
Tetrachloroethene	Ave	0.2251	0.2451	0.2000	0.0218	0.0200	8.9	20.0
1,3-Dichloropropane	Ave	0.5207	0.5223		0.0201	0.0200	0.3	20.0
2-Hexanone	Ave	0.1652	0.1622	0.0500	0.0393	0.0400	-1.8	20.0
Dibromochloromethane	Ave	0.2395	0.2457		0.0205	0.0200	2.6	20.0
1,2-Dibromoethane	Ave	0.2690	0.2726		0.0203	0.0200	1.4	20.0
Chlorobenzene	Ave	0.8562	0.8871	0.3000	0.0207	0.0200	3.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2213	0.2446		0.0221	0.0200	10.5	20.0
Ethylbenzene	Ave	0.4148	0.4294		0.0207	0.0200	3.5	20.0
m-Xylene & p-Xylene	Ave	0.5198	0.5231		0.0403	0.0400	0.6	20.0
o-Xylene	Ave	0.5397	0.5494		0.0204	0.0200	1.8	20.0
Styrene	Ave	0.9166	0.9868	0.3000	0.0215	0.0200	7.7	20.0
Bromoform	Ave	0.1356	0.1418	0.1000	0.0209	0.0200	4.5	20.0
Isopropylbenzene	Ave	1.132	1.197	0.1000	0.0212	0.0200	5.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8383	0.8308	0.3000	0.0198	0.0200	-0.9	20.0
Bromobenzene	Ave	0.7071	0.7118		0.0201	0.0200	0.7	20.0
1,2,3-Trichloropropane	Ave	0.2700	0.2640		0.0196	0.0200	-2.2	20.0
N-Propylbenzene	Ave	0.6443	0.6800		0.0211	0.0200	5.5	20.0
2-Chlorotoluene	Ave	0.5969	0.6215		0.0208	0.0200	4.1	20.0
1,3,5-Trimethylbenzene	Ave	2.035	2.109		0.0207	0.0200	3.6	20.0
4-Chlorotoluene	Ave	0.6394	0.6876		0.0215	0.0200	7.5	20.0
tert-Butylbenzene	Ave	1.738	1.847		0.0212	0.0200	6.2	20.0
1,2,4-Trimethylbenzene	Ave	2.110	2.273		0.0215	0.0200	7.7	20.0
sec-Butylbenzene	Ave	2.495	2.772		0.0222	0.0200	11.1	20.0
1,3-Dichlorobenzene	Ave	1.267	1.290	0.6000	0.0204	0.0200	1.8	20.0
4-Isopropyltoluene	Ave	2.129	2.464		0.0231	0.0200	15.7	20.0
1,4-Dichlorobenzene	Ave	1.301	1.336	0.5000	0.0205	0.0200	2.6	20.0
n-Butylbenzene	Ave	1.917	2.263		0.0236	0.0200	18.1	20.0
1,2-Dichlorobenzene	Ave	1.305	1.308	0.4000	0.0200	0.0200	0.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1341	0.1452	0.0500	0.0217	0.0200	8.3	20.0
1,2,4-Trichlorobenzene	Ave	0.7462	0.8646	0.2000	0.0232	0.0200	15.9	20.0
Hexachlorobutadiene	Ave	0.3296	0.3496		0.0212	0.0200	6.1	20.0
Naphthalene	Ave	2.225	2.249		0.0202	0.0200	1.1	20.0
1,2,3-Trichlorobenzene	Ave	0.7033	0.8102		0.0230	0.0200	15.2	20.0
Dibromofluoromethane (Surr)	Ave	0.2177	0.2336		0.0215	0.0200	7.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2617	0.2783		0.0213	0.0200	6.3	20.0
Toluene-d8 (Surr)	Ave	1.197	1.332		0.0222	0.0200	11.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4361	0.4845		0.0222	0.0200	11.1	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129110.D
Lims ID: ICV Client ID:
Inject. Date: 19-Mar-2013 21:32:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018085-009
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 9
Lims Batch ID: 78761 Lims Sample ID: 9
Sublist:
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\8260_12.m
Last Update: 19-Mar-2013 22:02:45 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK010

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.333	5.333	0.0	100	1642021	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	86	1253876	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.244	10.244	0.0	83	594297	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.765	4.765	0.0	56	383633	21.5	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.049	5.049	0.0	90	456928	21.3	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	82	1669952	22.2	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	84	607498	22.2	
12 Dichlorodifluoromethane	85	1.642	1.641	0.001	87	442774	18.6	
13 Chloromethane	50	1.784	1.783	0.001	99	562777	18.2	
14 Vinyl chloride	62	1.902	1.890	0.012	96	608507	19.4	
15 Bromomethane	94	2.210	2.198	0.012	90	317401	16.5	
16 Chloroethane	64	2.304	2.304	0.0	92	415794	19.4	
18 Trichlorofluoromethane	101	2.505	2.505	0.0	84	597175	19.9	
19 Ethyl ether	59	2.718	2.718	0.0	87	351096	25.4	
20 Acrolein	56	2.837	2.837	0.0	88	245541	75.8	
22 Acetone	43	2.967	2.955	0.012	40	167585	33.3	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.955	2.955	0.0	56	436363	21.9	
21 1,1-Dichloroethene	61	2.955	2.955	0.0	89	829815	21.8	
24 Iodomethane	142	3.109	3.109	0.0	96	755462	21.0	
26 Carbon disulfide	76	3.156	3.144	0.012	98	1639079	21.6	
27 Acetonitrile	41	3.203	3.192	0.011	93	139423	58.7	
28 Methyl acetate	43	3.227	3.227	0.0	97	258939	18.1	
30 Methylene Chloride	49	3.369	3.369	0.0	82	645315	20.7	
31 2-Methyl-2-propanol	59	3.393	3.393	0.0	96	581648	322.2	
32 Acrylonitrile	53	3.523	3.523	0.0	99	440397	58.2	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	88	1128290	19.5	
33 trans-1,2-Dichloroethene	61	3.558	3.547	0.011	90	592939	20.3	
35 Hexane	57	3.771	3.771	0.0	88	386606	23.4	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	99	707631	20.9	
37 Vinyl acetate	86	3.925	3.925	0.0	96	99244	23.7	
38 Isopropyl ether	87	3.937	3.937	0.0	87	364139	23.5	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	68	555099	20.3	
43 2,2-Dichloropropane	77	4.387	4.375	0.012	55	237097	21.4	
41 2-Butanone (MEK)	72	4.375	4.387	-0.012	59	82507	38.9	
47 Chlorobromomethane	49	4.576	4.576	0.0	78	318676	21.6	
48 Tetrahydrofuran	42	4.612	4.612	0.0	83	97445	18.8	
49 Chloroform	83	4.623	4.623	0.0	81	623529	19.4	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	93	395873	20.9	
51 Cyclohexane	56	4.860	4.860	0.0	85	528299	20.2	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	94	508796	21.4	
53 Carbon tetrachloride	117	4.943	4.943	0.0	58	271475	21.2	
54 Isobutyl alcohol	41	4.978	4.978	0.0	93	359638	840.7	
55 Benzene	78	5.109	5.108	0.001	94	1645081	20.6	
56 1,2-Dichloroethane	62	5.109	5.108	0.001	87	474380	20.8	
60 Trichloroethene	130	5.641	5.641	0.0	91	393770	20.9	
63 Methylcyclohexane	55	5.807	5.807	0.0	85	349724	21.2	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	92	388351	20.2	
65 Dibromomethane	174	5.937	5.937	0.0	83	224499	21.0	
67 Dichlorobromomethane	83	6.055	6.055	0.0	97	463460	21.2	
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	92	236553	19.3	
70 cis-1,3-Dichloropropene	75	6.446	6.434	0.012	90	603497	20.6	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	94	573735	35.6	
72 Toluene	91	6.742	6.741	0.001	90	1670929	20.8	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	88	528674	22.4	
75 1,1,2-Trichloroethane	97	7.097	7.096	0.0	86	335758	18.8	
77 Tetrachloroethene	166	7.238	7.238	0.0	91	307304	21.8	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	88	654881	20.1	
78 2-Hexanone	43	7.298	7.309	-0.011	92	406643	39.3	
79 Chlorodibromomethane	129	7.463	7.463	0.0	87	308044	20.5	
123 Ethylene Dibromide	107	7.582	7.582	0.0	99	341858	20.3	
82 Chlorobenzene	112	8.019	8.019	0.0	96	1112315	20.7	
83 1,1,1,2-Tetrachloroethane	131	8.090	8.090	0.0	83	306688	22.1	
84 Ethylbenzene	106	8.114	8.114	0.0	97	538441	20.7	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	97	1311792	40.3	
85 o-Xylene	106	8.599	8.599	0.0	91	688817	20.4	
86 Styrene	104	8.611	8.611	0.0	92	1237312	21.5	
87 Bromoform	173	8.800	8.800	0.0	95	177773	20.9	
88 Isopropylbenzene	105	8.954	8.954	0.0	93	1501061	21.2	
89 Cyclohexanone	55	9.061	9.049	0.012	87	280572	189.7	
90 1,1,2,2-Tetrachloroethane	83	9.226	9.226	0.0	98	493734	19.8	
91 Bromobenzene	156	9.262	9.262	0.0	93	423001	20.1	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	69	156891	19.6	
93 trans-1,4-Dichloro-2-butene	53	9.286	9.286	0.0	66	225797	40.8	
94 N-Propylbenzene	120	9.345	9.357	-0.011	97	404131	21.1	
95 2-Chlorotoluene	126	9.439	9.439	0.0	96	369326	20.8	
96 1,3,5-Trimethylbenzene	105	9.522	9.522	0.0	95	1253392	20.7	
104 4-Chlorotoluene	126	9.546	9.546	0.0	98	408618	21.5	
97 tert-Butylbenzene	119	9.842	9.842	0.0	89	1097536	21.2	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	70	1350572	21.5	
99 sec-Butylbenzene	105	10.055	10.055	0.0	93	1647294	22.2	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	99	766536	20.4	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	94	1464611	23.1	
102 1,4-Dichlorobenzene	146	10.268	10.268	0.0	94	793696	20.5	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
103 1,2,3-Trimethylbenzene	105	10.303	10.303	0.0	89	1391850	19.8	
105 n-Butylbenzene	91	10.599	10.599	0.0	94	1345064	23.6	
106 1,2-Dichlorobenzene	146	10.635	10.634	0.001	97	777193	20.0	
107 1,2-Dibromo-3-Chloropropane	157	11.404	11.404	0.0	75	86295	21.7	
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	91	513799	23.2	
110 Hexachlorobutadiene	225	12.409	12.409	0.0	96	207764	21.2	
111 Naphthalene	128	12.492	12.492	0.0	97	1336286	20.2	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	93	481520	23.0	
S 145 Trihalomethanes, Total	1				0		82.1	
S 11 1,2-Dichloroethene, Total	96				0		40.7	
S 114 Xylenes, Total	106				0		60.6	

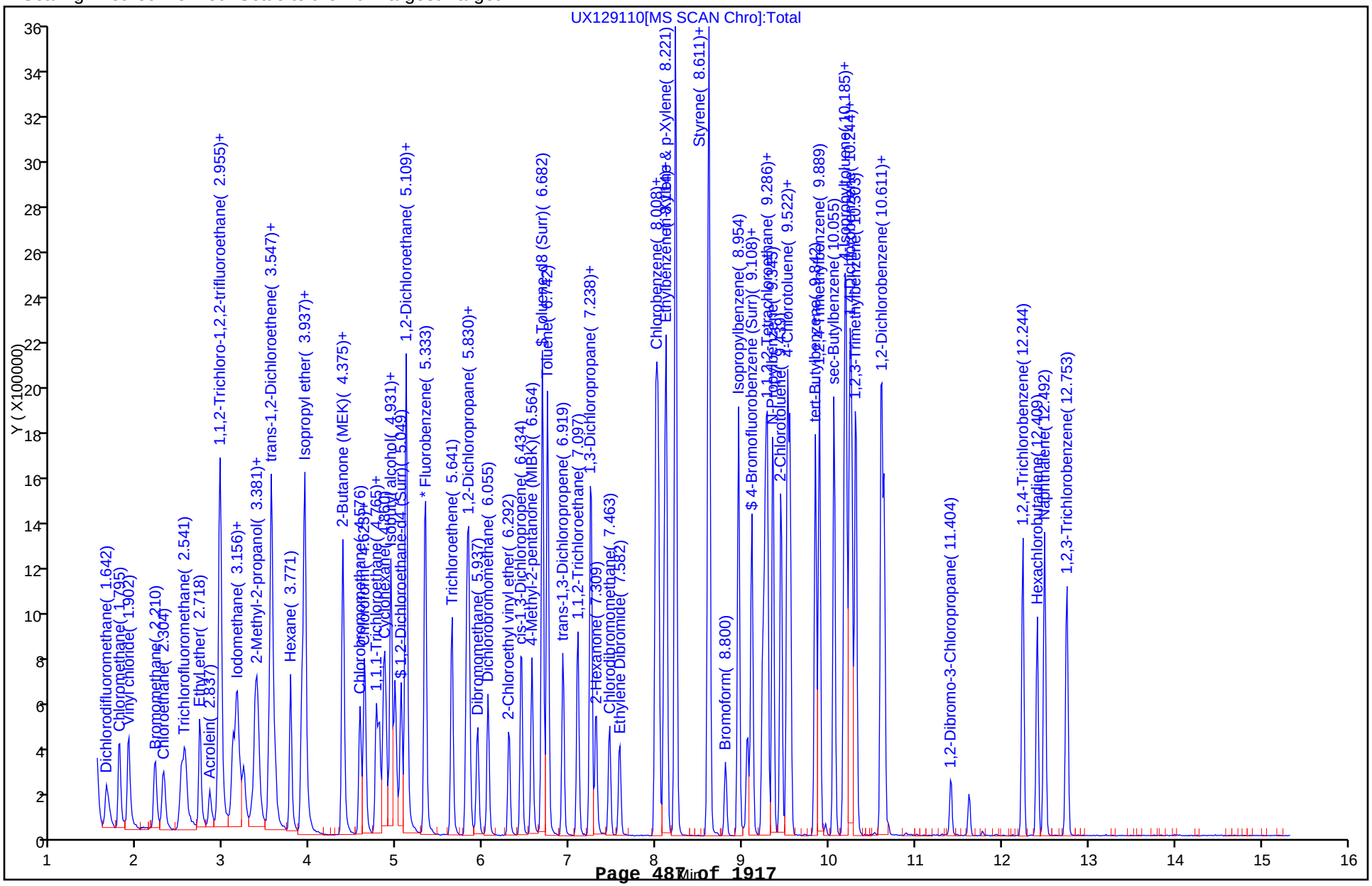
Report Date: 19-Mar-2013 22:02:46 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129110.D

Injection Date:	19-Mar-2013 21:32:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	78761	Lims Sample ID:	9
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79725/2 Calibration Date: 03/28/2013 09:36

Instrument ID: A3UX12 Calib Start Date: 03/19/2013 18:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/19/2013 21:04

Lab File ID: UX129315.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	0.2894	0.3199	0.1000	0.0221	0.0200	10.5	20.0
Chloromethane	Ave	0.3759	0.3662	0.1000	0.0195	0.0200	-2.6	20.0
Vinyl chloride	Ave	0.3817	0.3717	0.1000	0.0195	0.0200	-2.6	20.0
Bromomethane	Ave	0.2337	0.2219	0.0500	0.0190	0.0200	-5.1	20.0
Chloroethane	Ave	0.2617	0.2516	0.0500	0.0192	0.0200	-3.9	20.0
Trichlorofluoromethane	Lin1		0.3592	0.1000	0.0197	0.0200	-1.6	20.0
Acrolein	Ave	0.0394	0.0346		0.175	0.200	-12.3	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2423	0.2252	0.0500	0.0186	0.0200	-7.1	20.0
1,1-Dichloroethene	Ave	0.4640	0.4289	0.1000	0.0185	0.0200	-7.6	20.0
Acetone	Lin1		0.0562	0.0500	0.0368	0.0400	-7.9	20.0
Iodomethane	Ave	0.4375	0.4067		0.0186	0.0200	-7.0	20.0
Carbon disulfide	Ave	0.9264	0.8577	0.1000	0.0185	0.0200	-7.4	20.0
Acetonitrile	Ave	0.0290	0.0274		0.189	0.200	-5.5	20.0
Methyl acetate	Ave	0.1739	0.1487	0.1000	0.0342	0.0400	-14.5	20.0
Methylene Chloride	Lin1		0.3622	0.1000	0.0191	0.0200	-4.7	20.0
2-Methyl-2-propanol	Qua		0.0143		0.262	0.400	-34.6*	20.0
Acrylonitrile	Ave	0.0921	0.0864		0.0375	0.0400	-6.2	20.0
Methyl tert-butyl ether	Ave	0.7052	0.6295	0.1000	0.0179	0.0200	-10.7	20.0
trans-1,2-Dichloroethene	Ave	0.3553	0.3397	0.1000	0.0191	0.0200	-4.4	20.0
1,1-Dichloroethane	Ave	0.4129	0.4054	0.1000	0.0196	0.0200	-1.8	20.0
Vinyl acetate	Lin1		0.0455		0.0179	0.0200	-10.5	20.0
2,2-Dichloropropane	Ave	0.1352	0.1479		0.0219	0.0200	9.4	20.0
2-Butanone (MEK)	Lin		0.0251*	0.0500	0.0388	0.0400	-3.1	20.0
cis-1,2-Dichloroethene	Ave	0.3326	0.3283	0.1000	0.0197	0.0200	-1.3	20.0
Bromochloromethane	Ave	0.1793	0.1853		0.0207	0.0200	3.3	20.0
Chloroform	Ave	0.3905	0.3700	0.2000	0.0190	0.0200	-5.2	20.0
1,1,1-Trichloroethane	Ave	0.2307	0.2595	0.1000	0.0225	0.0200	12.5	20.0
Cyclohexane	Ave	0.3188	0.3022	0.1000	0.0190	0.0200	-5.2	20.0
1,1-Dichloropropene	Ave	0.2891	0.2939		0.0203	0.0200	1.6	20.0
Carbon tetrachloride	Ave	0.1556	0.1935	0.1000	0.0249	0.0200	24.4*	20.0
1,2-Dichloroethane	Ave	0.2780	0.2795	0.1000	0.0201	0.0200	0.5	20.0
Benzene	Ave	0.9750	0.9420	0.5000	0.0193	0.0200	-3.4	20.0
Trichloroethene	Ave	0.2297	0.2153	0.2000	0.0188	0.0200	-6.2	20.0
Methylcyclohexane	Ave	0.2013	0.1956	0.1000	0.0194	0.0200	-2.9	20.0
1,2-Dichloropropane	Ave	0.2342	0.2221	0.1000	0.0190	0.0200	-5.2	20.0
Dibromomethane	Ave	0.1301	0.1248		0.0192	0.0200	-4.0	20.0
Bromodichloromethane	Ave	0.2659	0.2660	0.1000	0.0200	0.0200	0.0	20.0
cis-1,3-Dichloropropene	Ave	0.3562	0.3412	0.1500	0.0192	0.0200	-4.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1962	0.1731	0.0500	0.0353	0.0400	-11.8	20.0
Toluene	Ave	1.283	1.301	0.4000	0.0203	0.0200	1.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79725/2 Calibration Date: 03/28/2013 09:36

Instrument ID: A3UX12 Calib Start Date: 03/19/2013 18:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/19/2013 21:04

Lab File ID: UX129315.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	Ave	0.3767	0.3897	0.1000	0.0207	0.0200	3.5	20.0
1,1,2-Trichloroethane	Ave	0.2849	0.2578	0.1000	0.0181	0.0200	-9.5	20.0
Tetrachloroethene	Ave	0.2251	0.2392	0.2000	0.0212	0.0200	6.2	20.0
1,3-Dichloropropane	Ave	0.5207	0.5208		0.0200	0.0200	0.0	20.0
2-Hexanone	Ave	0.1652	0.1663	0.0500	0.0403	0.0400	0.7	20.0
Dibromochloromethane	Ave	0.2395	0.2431		0.0203	0.0200	1.5	20.0
1,2-Dibromoethane	Ave	0.2690	0.2581		0.0192	0.0200	-4.0	20.0
Chlorobenzene	Ave	0.8562	0.8513	0.3000	0.0199	0.0200	-0.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2213	0.2422		0.0219	0.0200	9.4	20.0
Ethylbenzene	Ave	0.4148	0.4145		0.0200	0.0200	-0.0	20.0
m-Xylene & p-Xylene	Ave	0.5198	0.5157		0.0397	0.0400	-0.8	20.0
o-Xylene	Ave	0.5397	0.5286		0.0196	0.0200	-2.0	20.0
Styrene	Ave	0.9166	0.9701	0.3000	0.0212	0.0200	5.8	20.0
Bromoform	Ave	0.1356	0.1327	0.1000	0.0196	0.0200	-2.1	20.0
Isopropylbenzene	Ave	1.132	1.186	0.1000	0.0210	0.0200	4.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8383	0.7662	0.3000	0.0183	0.0200	-8.6	20.0
Bromobenzene	Ave	0.7071	0.6620		0.0187	0.0200	-6.4	20.0
1,2,3-Trichloropropane	Ave	0.2700	0.2443		0.0181	0.0200	-9.5	20.0
N-Propylbenzene	Ave	0.6443	0.6245		0.0194	0.0200	-3.1	20.0
2-Chlorotoluene	Ave	0.5969	0.5955		0.0200	0.0200	-0.2	20.0
1,3,5-Trimethylbenzene	Ave	2.035	2.001		0.0197	0.0200	-1.7	20.0
4-Chlorotoluene	Ave	0.6394	0.6373		0.0199	0.0200	-0.3	20.0
tert-Butylbenzene	Ave	1.738	1.822		0.0210	0.0200	4.8	20.0
1,2,4-Trimethylbenzene	Ave	2.110	2.143		0.0203	0.0200	1.6	20.0
sec-Butylbenzene	Ave	2.495	2.472		0.0198	0.0200	-0.9	20.0
1,3-Dichlorobenzene	Ave	1.267	1.220	0.6000	0.0193	0.0200	-3.7	20.0
4-Isopropyltoluene	Ave	2.129	2.128		0.0200	0.0200	-0.0	20.0
1,4-Dichlorobenzene	Ave	1.301	1.276	0.5000	0.0196	0.0200	-2.0	20.0
n-Butylbenzene	Ave	1.917	1.856		0.0194	0.0200	-3.1	20.0
1,2-Dichlorobenzene	Ave	1.305	1.216	0.4000	0.0186	0.0200	-6.8	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1341	0.1144	0.0500	0.0171	0.0200	-14.7	20.0
1,2,4-Trichlorobenzene	Ave	0.7462	0.6919	0.2000	0.0185	0.0200	-7.3	20.0
Hexachlorobutadiene	Ave	0.3296	0.2943		0.0179	0.0200	-10.7	20.0
Naphthalene	Ave	2.225	1.916		0.0172	0.0200	-13.9	20.0
1,2,3-Trichlorobenzene	Ave	0.7033	0.6050		0.0172	0.0200	-14.0	20.0
Dibromofluoromethane (Surr)	Ave	0.2177	0.2294		0.0211	0.0200	5.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2617	0.2786		0.0213	0.0200	6.5	20.0
Toluene-d8 (Surr)	Ave	1.197	1.302		0.0217	0.0200	8.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4361	0.4661		0.0214	0.0200	6.9	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129315.D
Lims ID: CCVIS L4 8260 Client ID:
Inject. Date: 28-Mar-2013 09:36:30 Dil. Factor: 1.0000
Sample Type: CCVIS
Sample ID: 240-0018335-002
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 3
Lims Batch ID: 79725 Lims Sample ID: 2
Sublist: chrom-8260_12*sub7
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\8260_12.m
Last Update: 29-Mar-2013 09:09:25 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK001

First Level Reviewer: quayler Date: 28-Mar-2013 09:56:12

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.322	5.322	0.0	98	1705438	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	83	1258697	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.232	10.232	0.0	92	612869	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.766	4.766	0.0	54	391193	21.1	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.050	5.050	0.0	89	475117	21.3	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	93	1638511	21.7	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	88	586687	21.4	
12 Dichlorodifluoromethane	85	1.642	1.642	0.0	86	545639	22.1	
13 Chloromethane	50	1.795	1.795	0.0	89	624521	19.5	
14 Vinyl chloride	62	1.902	1.902	0.0	82	633928	19.5	
15 Bromomethane	94	2.198	2.198	0.0	89	378392	19.0	
16 Chloroethane	64	2.304	2.304	0.0	99	429013	19.2	
18 Trichlorofluoromethane	101	2.517	2.517	0.0	86	612522	19.7	
20 Acrolein	56	2.837	2.837	0.0	94	589653	175.3	
22 Acetone	43	2.955	2.955	0.0	41	191641	36.8	
21 1,1-Dichloroethene	61	2.955	2.955	0.0	89	731471	18.5	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.955	2.955	0.0	55	384127	18.6	
24 Iodomethane	142	3.109	3.109	0.0	95	693615	18.6	
26 Carbon disulfide	76	3.156	3.156	0.0	98	1462811	18.5	
27 Acetonitrile	41	3.192	3.192	0.0	98	466708	189.0	
28 Methyl acetate	43	3.227	3.227	0.0	94	507208	34.2	
30 Methylene Chloride	49	3.369	3.369	0.0	80	617625	19.1	
31 2-Methyl-2-propanol	59	3.393	3.393	0.0	94	486890	261.5	
32 Acrylonitrile	53	3.523	3.523	0.0	99	294634	37.5	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	93	1073540	17.9	
33 trans-1,2-Dichloroethene	61	3.559	3.559	0.0	90	579245	19.1	
35 Hexane	57	3.772	3.772	0.0	87	319530	18.6	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	100	691440	19.6	
37 Vinyl acetate	86	3.925	3.925	0.0	96	77541	17.9	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
43 2,2-Dichloropropane	77	4.375	4.375	0.0	49	252170	21.9	
41 2-Butanone (MEK)	72	4.375	4.375	0.0	63	85490	38.8	
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	69	559844	19.7	
47 Chlorobromomethane	49	4.576	4.576	0.0	75	316068	20.7	
48 Tetrahydrofuran	42	4.612	4.612	0.0	54	92854	17.2	
49 Chloroform	83	4.624	4.624	0.0	70	631059	19.0	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	89	442468	22.5	
51 Cyclohexane	56	4.860	4.860	0.0	84	515343	19.0	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	97	501149	20.3	
53 Carbon tetrachloride	117	4.943	4.943	0.0	67	330025	24.9	
55 Benzene	78	5.109	5.109	0.0	94	1606543	19.3	
56 1,2-Dichloroethane	62	5.109	5.109	0.0	86	476654	20.1	
60 Trichloroethene	130	5.641	5.641	0.0	90	367188	18.8	
63 Methylcyclohexane	55	5.807	5.807	0.0	88	333496	19.4	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	95	378684	19.0	
66 1,4-Dioxane	88	5.937	5.937	0.0	71	186071	825.8	
65 Dibromomethane	174	5.937	5.937	0.0	92	212853	19.2	
67 Dichlorobromomethane	83	6.055	6.055	0.0	97	453557	20.0	
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	90	508098	39.9	
70 cis-1,3-Dichloropropene	75	6.434	6.434	0.0	91	581876	19.2	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	93	590415	35.3	
72 Toluene	91	6.742	6.742	0.0	91	1636961	20.3	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	87	490552	20.7	
74 Ethyl methacrylate	69	6.978	6.978	0.0	89	437716	18.6	
75 1,1,2-Trichloroethane	97	7.097	7.097	0.0	85	324475	18.1	
77 Tetrachloroethene	166	7.239	7.239	0.0	91	301036	21.2	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	87	655471	20.0	
78 2-Hexanone	43	7.298	7.298	0.0	91	418592	40.3	
79 Chlorodibromomethane	129	7.463	7.463	0.0	85	306001	20.3	
123 Ethylene Dibromide	107	7.570	7.570	0.0	96	324915	19.2	
82 Chlorobenzene	112	8.020	8.020	0.0	94	1071545	19.9	
83 1,1,1,2-Tetrachloroethane	131	8.091	8.091	0.0	81	304842	21.9	
84 Ethylbenzene	106	8.114	8.114	0.0	98	521770	20.0	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	96	1298282	39.7	
85 o-Xylene	106	8.599	8.599	0.0	90	665365	19.6	
86 Styrene	104	8.611	8.611	0.0	93	1221074	21.2	
87 Bromoform	173	8.801	8.801	0.0	92	167075	19.6	
88 Isopropylbenzene	105	8.954	8.954	0.0	95	1492339	21.0	
90 1,1,2,2-Tetrachloroethane	83	9.227	9.227	0.0	91	469552	18.3	
91 Bromobenzene	156	9.262	9.262	0.0	89	405697	18.7	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	69	149699	18.1	
93 trans-1,4-Dichloro-2-butene	53	9.286	9.286	0.0	58	96192	16.9	
94 N-Propylbenzene	120	9.345	9.345	0.0	97	382732	19.4	
95 2-Chlorotoluene	126	9.440	9.440	0.0	96	364954	20.0	
96 1,3,5-Trimethylbenzene	105	9.511	9.511	0.0	74	1226375	19.7	
104 4-Chlorotoluene	126	9.546	9.546	0.0	97	390604	19.9	
97 tert-Butylbenzene	119	9.842	9.842	0.0	82	1116889	21.0	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	95	1313479	20.3	
99 sec-Butylbenzene	105	10.055	10.055	0.0	93	1514822	19.8	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	99	747571	19.3	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	95	1303936	20.0	
102 1,4-Dichlorobenzene	146	10.256	10.256	0.0	89	781772	19.6	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
105 n-Butylbenzene	91	10.599	10.599	0.0	94	1137742	19.4	
106 1,2-Dichlorobenzene	146	10.635	10.635	0.0	98	745469	18.6	
107 1,2-Dibromo-3-Chloropropane	157	11.404	11.404	0.0	70	70108	17.1	
108 1,3,5-Trichlorobenzene	180	11.617	11.617	0.0	96	480294	19.3	
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	92	424047	18.5	
110 Hexachlorobutadiene	225	12.410	12.410	0.0	94	180363	17.9	
111 Naphthalene	128	12.492	12.492	0.0	97	1174213	17.2	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	94	370787	17.2	
S 145 Trihalomethanes, Total	1				0		78.8	
S 11 1,2-Dichloroethene, Total	96				0		38.9	
S 9 1,3-Dichloropropene, Total	75				0		39.8	
S 114 Xylenes, Total	106				0		59.3	

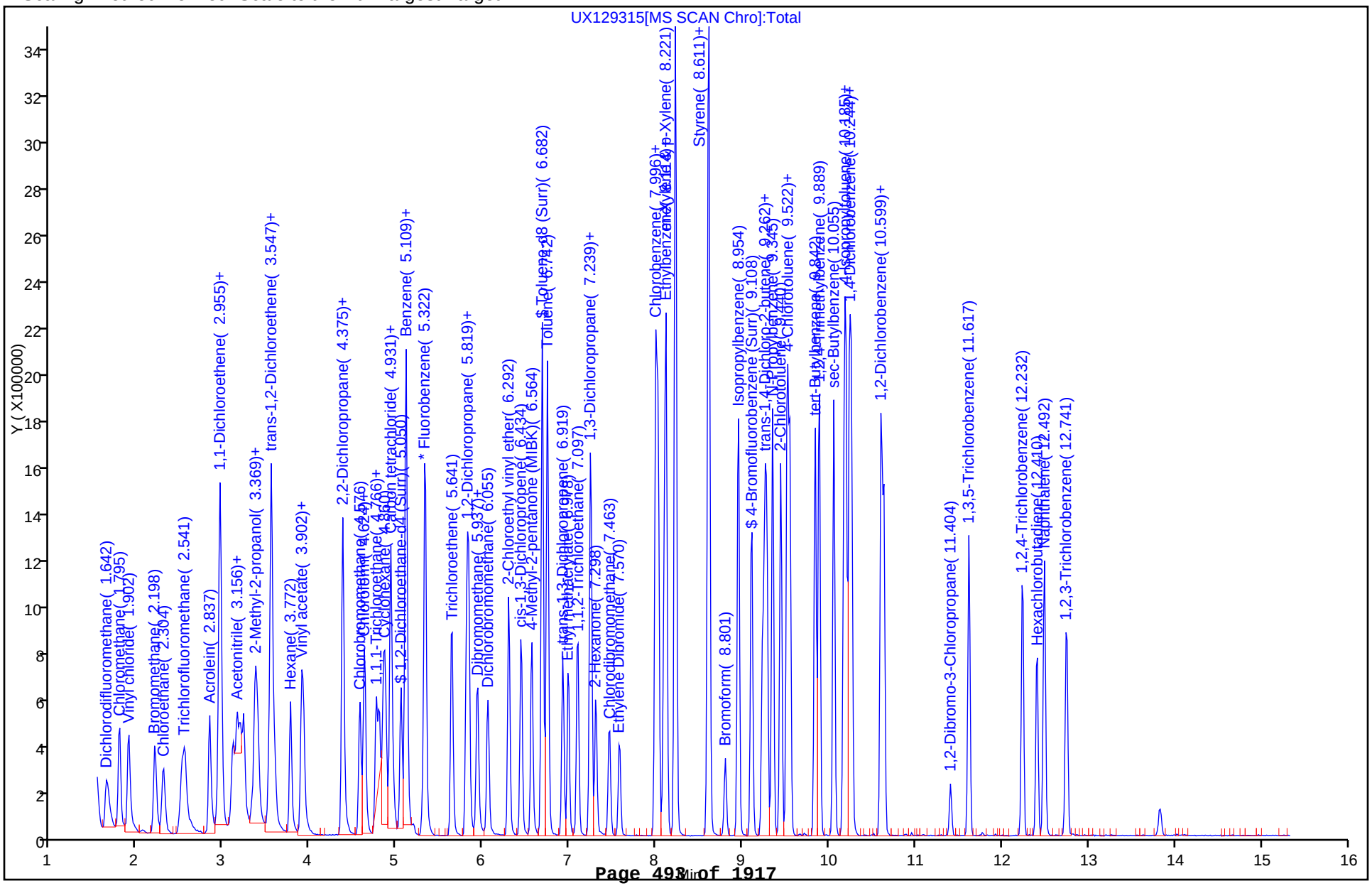
Report Date: 29-Mar-2013 09:09:25 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129315.D

Injection Date:	28-Mar-2013 09:36:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	79725	Lims Sample ID:	2
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: LODV 240-79725/16 Calibration Date: 03/28/2013 15:19

Instrument ID: A3UX12 Calib Start Date: 03/19/2013 18:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/19/2013 21:04

Lab File ID: UX129328.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	0.2894			0.000623	0.000500		
Chloromethane	Ave	0.3759			0.000504	0.000500		
Vinyl chloride	Ave	0.3817			0.000574	0.000500		
Bromomethane	Ave	0.2337			0.000573	0.000500		
Chloroethane	Ave	0.2617			0.000554	0.000500		
Trichlorofluoromethane	Lin1				0.000846	0.000500		
Acrolein	Ave	0.0394			0.00367	0.00500		
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2423			0.000762	0.000500		
1,1-Dichloroethene	Ave	0.4640			0.000897	0.000500		
Acetone	Lin1				0.00327	0.00500		
Iodomethane	Ave	0.4375			0.000828	0.000500		
Carbon disulfide	Ave	0.9264			0.000838	0.000500		
Acetonitrile	Ave	0.0290			0.00490	0.00500		
Methyl acetate	Ave	0.1739			0.00121	0.00100		
Methylene Chloride	Lin1				0.00152	0.000500		
2-Methyl-2-propanol	Qua				0.0360	0.0100		
Methyl tert-butyl ether	Ave	0.7052			0.000778	0.000500		
trans-1,2-Dichloroethene	Ave	0.3553			0.000852	0.000500		
Hexane	Ave	0.2010				0.000500		
1,1-Dichloroethane	Ave	0.4129			0.000926	0.000500		
Vinyl acetate	Lin1				0.000998	0.000500		
2,2-Dichloropropane	Ave	0.1352			0.00101	0.000500		
2-Butanone (MEK)	Lin				0.00300	0.00500		
cis-1,2-Dichloroethene	Ave	0.3326			0.000810	0.000500		
Bromochloromethane	Ave	0.1793			0.00115	0.000500		
Chloroform	Ave	0.3905			0.000826	0.000500		
1,1,1-Trichloroethane	Ave	0.2307			0.00109	0.000500		
Cyclohexane	Ave	0.3188			0.000754	0.000500		
1,1-Dichloropropene	Ave	0.2891			0.000950	0.000500		
Carbon tetrachloride	Ave	0.1556			0.000914	0.000500		

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: LODV 240-79725/16 Calibration Date: 03/28/2013 15:19

Instrument ID: A3UX12 Calib Start Date: 03/19/2013 18:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/19/2013 21:04

Lab File ID: UX129328.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
Benzene	Ave	0.9750			0.000856	0.000500		
1,2-Dichloroethane	Ave	0.2780			0.000953	0.000500		
Trichloroethene	Ave	0.2297			0.00104	0.000500		
Methylcyclohexane	Ave	0.2013			0.000788	0.000500		
1,2-Dichloropropane	Ave	0.2342			0.000871	0.000500		
1,4-Dioxane	Ave	0.0026				0.0250		
Dibromomethane	Ave	0.1301			0.000829	0.000500		
Bromodichloromethane	Ave	0.2659			0.000828	0.000500		
2-Chloroethyl vinyl ether	Ave	0.1494				0.00100		
cis-1,3-Dichloropropene	Ave	0.3562			0.000713	0.000500		
4-Methyl-2-pentanone (MIBK)	Ave	0.1962			0.00384	0.00500		
Toluene	Ave	1.283			0.000944	0.000500		
trans-1,3-Dichloropropene	Ave	0.3767			0.000919	0.000500		
Ethyl methacrylate	Ave	0.3740				0.000500		
1,1,2-Trichloroethane	Ave	0.2849			0.000940	0.000500		
Tetrachloroethene	Ave	0.2251			0.00106	0.000500		
1,3-Dichloropropane	Ave	0.5207			0.000955	0.000500		
2-Hexanone	Ave	0.1652			0.00436	0.00500		
Dibromochloromethane	Ave	0.2395			0.000755	0.000500		
1,2-Dibromoethane	Ave	0.2690			0.000857	0.000500		
Chlorobenzene	Ave	0.8562			0.000872	0.000500		
1,1,1,2-Tetrachloroethane	Ave	0.2213			0.000748	0.000500		
Ethylbenzene	Ave	0.4148			0.00100	0.000500		
m-Xylene & p-Xylene	Ave	0.5198			0.00176	0.00100		
o-Xylene	Ave	0.5397			0.000901	0.000500		
Styrene	Ave	0.9166			0.000843	0.000500		
Bromoform	Ave	0.1356			0.000737	0.000500		
Isopropylbenzene	Ave	1.132			0.000870	0.000500		
1,1,2,2-Tetrachloroethane	Ave	0.8383			0.000873	0.000500		
Bromobenzene	Ave	0.7071			0.000950	0.000500		

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: LODV 240-79725/16 Calibration Date: 03/28/2013 15:19

Instrument ID: A3UX12 Calib Start Date: 03/19/2013 18:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/19/2013 21:04

Lab File ID: UX129328.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-1,4-Dichloro-2-butene	Ave	0.1862				0.000500		
1,2,3-Trichloropropane	Ave	0.2700			0.000695	0.000500		
N-Propylbenzene	Ave	0.6443			0.000789	0.000500		
2-Chlorotoluene	Ave	0.5969			0.000834	0.000500		
1,3,5-Trimethylbenzene	Ave	2.035			0.000912	0.000500		
4-Chlorotoluene	Ave	0.6394			0.000873	0.000500		
tert-Butylbenzene	Ave	1.738			0.00105	0.000500		
1,2,4-Trimethylbenzene	Ave	2.110			0.000891	0.000500		
sec-Butylbenzene	Ave	2.495			0.000959	0.000500		
1,3-Dichlorobenzene	Ave	1.267			0.000807	0.000500		
4-Isopropyltoluene	Ave	2.129			0.000858	0.000500		
1,4-Dichlorobenzene	Ave	1.301			0.000990	0.000500		
n-Butylbenzene	Ave	1.917			0.000916	0.000500		
1,2-Dichlorobenzene	Ave	1.305			0.000862	0.000500		
1,2-Dibromo-3-Chloropropane	Ave	0.1341			0.000750	0.000500		
1,3,5-Trichlorobenzene	Ave	0.8113				0.000500		
1,2,4-Trichlorobenzene	Ave	0.7462			0.000850	0.000500		
Hexachlorobutadiene	Ave	0.3296			0.00126	0.000500		
Naphthalene	Ave	2.225			0.000793	0.000500		
1,2,3-Trichlorobenzene	Ave	0.7033			0.00105	0.000500		
Acrylonitrile	Ave	0.0921			0.00200	0.00100		
Tetrahydrofuran	Lin1					0.000500		
Dibromofluoromethane (Surr)	Ave	0.2177			0.0214	0.0200	107	85-115
1,2-Dichloroethane-d4 (Surr)	Ave	0.2617			0.0205	0.0200	103	70-120
Toluene-d8 (Surr)	Ave	1.197			0.0222	0.0200	111	85-120
4-Bromofluorobenzene (Surr)	Ave	0.4361			0.0219	0.0200	109	75-120

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129328.D
Lims ID: LODV Client ID:
Inject. Date: 28-Mar-2013 15:19:30 Dil. Factor: 1.0000
Sample Type: LODV
Sample ID: 240-0018335-016
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 16
Lims Batch ID: 79725 Lims Sample ID: 16
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\8260_12.m
Last Update: 29-Mar-2013 09:09:26 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK001

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.333	5.334	-0.001	99	1622902	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	84	1181923	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.232	10.232	0.0	96	547964	20.0	
$ 4 BFB	95	4.375	3.805	0.570	0	870	0	
$ 5 Dibromofluoromethane (Surr)	113	4.765	4.766	-0.001	58	377733	21.4	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.049	5.050	-0.001	89	435501	20.5	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	83	1572282	22.2	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	86	563904	21.9	
137 Benzyl chloride	126		0.000					
149 1,3-Diethylbenzene TIC	1		0.000					
143 1,4-Dichlorobutane	1		0.000					
147 C6-C12	1		0.000					
146 Butyl Methacrylate TIC	1		0.000					
148 C6-C10	1		0.000					
142 Chlorodifluoromethane TIC	1		0.000					
12 Dichlorodifluoromethane	85	1.630	1.642	-0.012	26	14641	0.6234	
13 Chloromethane	50	1.795	1.795	0.0	67	15377	0.5041	
14 Vinyl chloride	62	1.890	1.902	-0.012	48	17791	0.5743	
15 Bromomethane	94	2.210	2.198	0.012	39	10867	0.5730	
16 Chloroethane	64	2.316	2.304	0.012	25	11767	0.5541	
17 Dichlorofluoromethane	67		2.458					
18 Trichlorofluoromethane	101	2.517	2.517	0.0	9	17718	0.8459	
19 Ethyl ether	59		2.718					9
20 Acrolein	56	2.837	2.837	0.0	51	11753	3.67	
25 Methylal	45		2.856					
22 Acetone	43	2.955	2.955	0.0	54	22401	3.27	
21 1,1-Dichloroethene	61	2.955	2.955	0.0	73	33781	0.8972	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.943	2.955	-0.012	15	14978	0.7617	
24 Iodomethane	142	3.097	3.109	-0.012	79	29385	0.8278	
26 Carbon disulfide	76	3.156	3.156	0.0	85	62987	0.8379	
27 Acetonitrile	41	3.204	3.192	0.012	75	11501	4.90	
28 Methyl acetate	43	3.227	3.227	0.0	88	17073	1.21	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
29 3-Chloro-1-propene	76		3.227					9
30 Methylene Chloride	49	3.369	3.369	0.0	79	62050	1.52	
31 2-Methyl-2-propanol	59	3.405	3.393	0.012	82	19895	36.0	
32 Acrylonitrile	53		3.523					9
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	78	44494	0.7775	
33 trans-1,2-Dichloroethene	61	3.547	3.559	-0.012	41	24571	0.8522	
35 Hexane	57	3.771	3.772	-0.001	72	12145	0.7446	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	90	31044	0.9265	
37 Vinyl acetate	86	3.925	3.925	0.0	43	2300	1.00	
38 Isopropyl ether	87		3.937					
39 2-Chloro-1,3-butadiene	53		3.973					
40 Tert-butyl ethyl ether	59		4.233					
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	71	21869	0.8103	
43 2,2-Dichloropropane	77	4.375	4.375	0.0	33	11085	1.01	
41 2-Butanone (MEK)	72	4.375	4.375	0.0	86	7656	3.00	
45 Ethyl acetate	43		4.411					9
44 Propionitrile	54		4.434					
46 Methacrylonitrile	41		4.553					9
47 Chlorobromomethane	49	4.564	4.576	-0.012	61	16764	1.15	
48 Tetrahydrofuran	42		4.612					
49 Chloroform	83	4.623	4.624	-0.001	63	26169	0.8259	
50 1,1,1-Trichloroethane	97	4.789	4.801	-0.012	49	20349	1.09	
51 Cyclohexane	56	4.848	4.860	-0.012	41	19509	0.7541	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	75	22285	0.9499	
53 Carbon tetrachloride	117	4.931	4.943	-0.012	27	11540	0.9139	
54 Isobutyl alcohol	41		4.979					9
55 Benzene	78	5.109	5.109	0.0	90	67723	0.8560	
56 1,2-Dichloroethane	62	5.120	5.109	0.011	38	21494	0.9528	
57 Tert-amyl methyl ether	73		5.180					9
58 n-Heptane	100		5.298					
59 n-Butanol	56		5.535					
61 Ethyl acrylate	55		5.605					
60 Trichloroethene	130	5.641	5.641	0.0	63	19294	1.04	
63 Methylcyclohexane	55	5.807	5.807	0.0	60	12878	0.7883	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	71	16561	0.8715	
64 Methyl methacrylate	41	5.819	5.890	-0.071	33	17102	1.20	
66 1,4-Dioxane	88	5.937	5.937	0.0	19	8580	40.0	
65 Dibromomethane	174	5.937	5.937	0.0	68	8751	0.8291	
67 Dichlorobromomethane	83	6.055	6.055	0.0	65	17860	0.8279	
68 2-Nitropropane	41		6.245					
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	36	8995	0.7418	
70 cis-1,3-Dichloropropene	75	6.446	6.434	0.012	55	20618	0.7133	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	87	61079	3.84	
72 Toluene	91	6.742	6.742	0.0	87	71590	0.9442	
73 trans-1,3-Dichloropropene	75	6.931	6.919	0.012	65	20452	0.9187	
74 Ethyl methacrylate	69	6.990	6.978	0.012	73	18343	0.8299	
75 1,1,2-Trichloroethane	97	7.085	7.097	-0.012	56	15822	0.9398	
77 Tetrachloroethene	166	7.239	7.239	0.0	50	14150	1.06	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	64	29383	0.9550	
80 Tetrahydrothiophene	60		7.255					
78 2-Hexanone	43	7.310	7.298	0.012	90	42573	4.36	
136 n-Butyl acetate	43		7.404					9

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
79 Chlorodibromomethane	129	7.463	7.463	0.0	30	10679	0.7546	
123 Ethylene Dibromide	107	7.570	7.570	0.0	56	13622	0.8570	
81 1-Chlorohexane	91		7.996					9
82 Chlorobenzene	112	8.020	8.020	0.0	60	44143	0.8724	
83 1,1,1,2-Tetrachloroethane	131	8.091	8.091	0.0	60	9780	0.7479	
84 Ethylbenzene	106	8.114	8.114	0.0	89	24509	1.00	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	93	54082	1.76	
85 o-Xylene	106	8.599	8.599	0.0	86	28740	0.9011	
86 Styrene	104	8.611	8.611	0.0	83	45664	0.8430	
87 Bromoform	173	8.800	8.801	-0.001	25	5908	0.7370	
88 Isopropylbenzene	105	8.954	8.954	0.0	82	58170	0.8699	
89 Cyclohexanone	55		9.049					
90 1,1,2,2-Tetrachloroethane	83	9.226	9.227	-0.001	77	20045	0.8727	
91 Bromobenzene	156	9.262	9.262	0.0	86	18398	0.9496	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	45	5142	0.6952	
93 trans-1,4-Dichloro-2-butene	53	9.274	9.286	-0.012	1	2725	0.5341	
94 N-Propylbenzene	120	9.357	9.345	0.012	86	13931	0.7892	
95 2-Chlorotoluene	126	9.439	9.440	-0.001	83	13635	0.8338	
96 1,3,5-Trimethylbenzene	105	9.510	9.511	-0.001	62	50882	0.9124	
104 4-Chlorotoluene	126	9.546	9.546	0.0	77	15288	0.8726	
97 tert-Butylbenzene	119	9.842	9.842	0.0	71	49935	1.05	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	55	51509	0.8911	
99 sec-Butylbenzene	105	10.055	10.055	0.0	54	65572	0.9594	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	72	28029	0.8073	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	68	50043	0.8578	
102 1,4-Dichlorobenzene	146	10.256	10.256	0.0	39	35286	0.9897	
103 1,2,3-Trimethylbenzene	105		10.303					
105 n-Butylbenzene	91	10.599	10.599	0.0	84	48088	0.9157	
106 1,2-Dichlorobenzene	146	10.635	10.635	0.0	76	30805	0.8618	
107 1,2-Dibromo-3-Chloropropane	157	11.404	11.404	0.0	1	2756	0.7502	
108 1,3,5-Trichlorobenzene	180	11.617	11.617	0.0	54	19023	0.8558	
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	57	17377	0.8500	
110 Hexachlorobutadiene	225	12.410	12.410	0.0	57	11422	1.26	
111 Naphthalene	128	12.492	12.492	0.0	80	48312	0.7926	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	56	20165	1.05	
113 2-Methylnaphthalene	142		13.830					
S 145 Trihalomethanes, Total	1				0		3.15	
S 11 1,2-Dichloroethene, Total	96				0		1.66	
S 9 1,3-Dichloropropene, Total	75				0		1.63	
S 114 Xylenes, Total	106				0		2.66	
T 144 Hexachloroethane TIC	166		10.910					1

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

Report Date: 29-Mar-2013 09:30:13 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129328.D

Injection Date:	28-Mar-2013 15:19:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	79725	Lims Sample ID:	16
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\BFB2145.D		
Lims ID:	BFB	Client ID:	
Inject. Date:	19-Mar-2013 17:39:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	240-0018085-001		
Misc. Info.:			
Operator:	1904	Instrument ID:	A3UX12
Purge Vol:	5.000 mL	ALS Bottle#:	3
Lims Batch ID:	78761	Lims Sample ID:	32
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\8260_12.m		
Last Update:	20-Mar-2013 16:33:14	Calib Date:	19-Mar-2013 21:04:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.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: laveyt		Date:	20-Mar-2013 16:33:14

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
$ 4 BFB	95	3.745	3.745	0.0	0	740484	0	8

QC Flag Legend

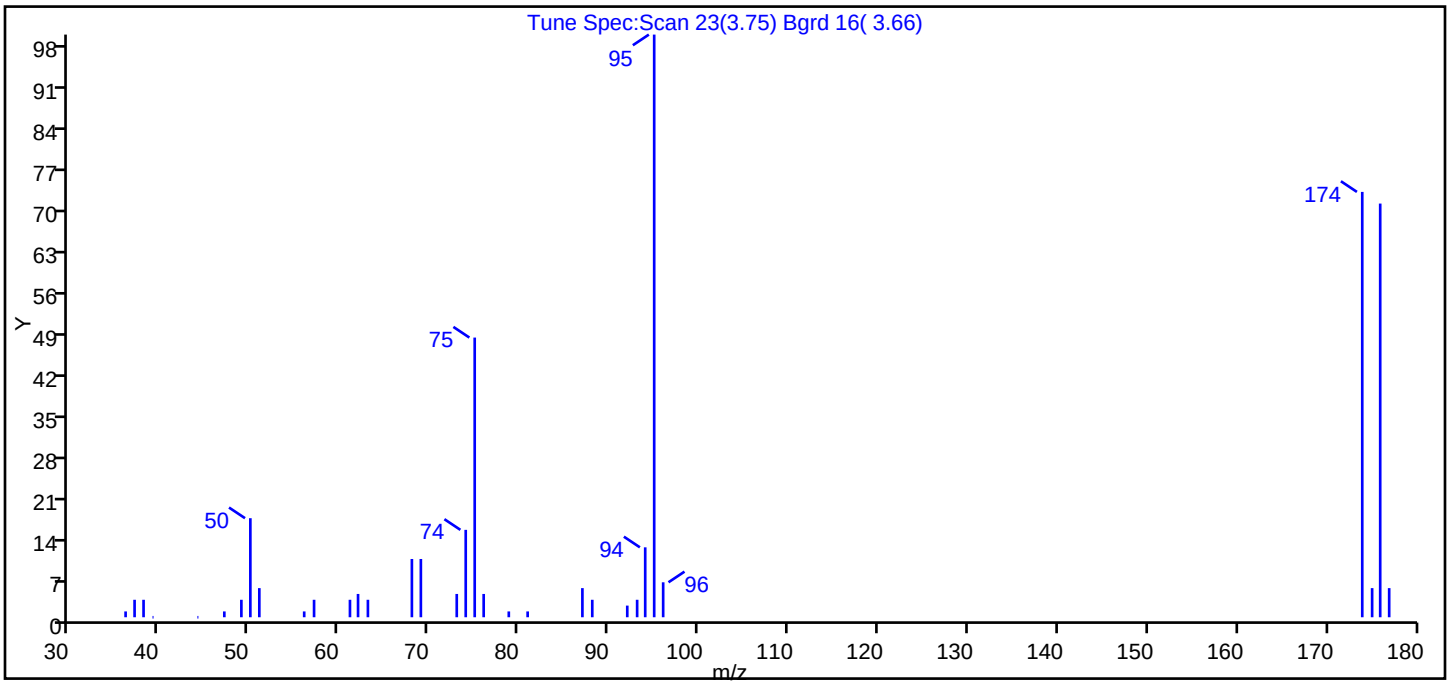
Processing Flags
8 - Failed MS Tune Ratio Test

MS Tune Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\BFB2145.D		
Injection Date:	19-Mar-2013 17:39:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	78761	Lims Sample ID:	32
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	17.00
75	30.00 - 60.00% of mass 95	48.00
96	5.00 - 9.00% of mass 95	6.00
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	73.00
175	5.00 - 9.00% of mass 174	5.00 (6.85)
176	95.00 - 101.00% of mass 174	71.00 (97.26)
177	5.00 - 9.00% of mass 176	5.00 (7.04)

Data File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\BFB2145.D\8260_12.rslt\spectra.d
Injection Date: 19-Mar-2013 17:39:30
Spectrum: Tune Spec:Scan 23(3.75) Bgrd 16(3.66)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 33

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	1	56.00	1	75.00	48	95.00	100
37.10	3	57.10	3	76.00	4	96.00	6
38.10	3	61.10	3	78.80	1	173.90	73
39.10	0	62.00	4	80.90	1	175.00	5
44.10	0	63.10	3	87.00	5	175.90	71
47.10	1	68.00	10	88.10	3	176.90	5
49.00	3	69.00	10	92.00	2		
50.00	17	73.00	4	93.10	3		
51.00	5	74.00	15	94.00	12		

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A3UX12\20130328-18335.b\BFB2151.D		
Lims ID:	BFB	Client ID:	
Inject. Date:	28-Mar-2013 08:11:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	240-0018335-001		
Misc. Info.:			
Operator:	1904	Instrument ID:	A3UX12
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	79725	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A3UX12\20130328-18335.b\8260_12.m		
Last Update:	29-Mar-2013 09:09:24	Calib Date:	19-Mar-2013 21:04:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D		
Limit Group:	MSV 8260DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624	Column Dia:	0.18 mm
Process Host:	XAWRK001		
First Level Reviewer: quayler		Date:	28-Mar-2013 08:41:33

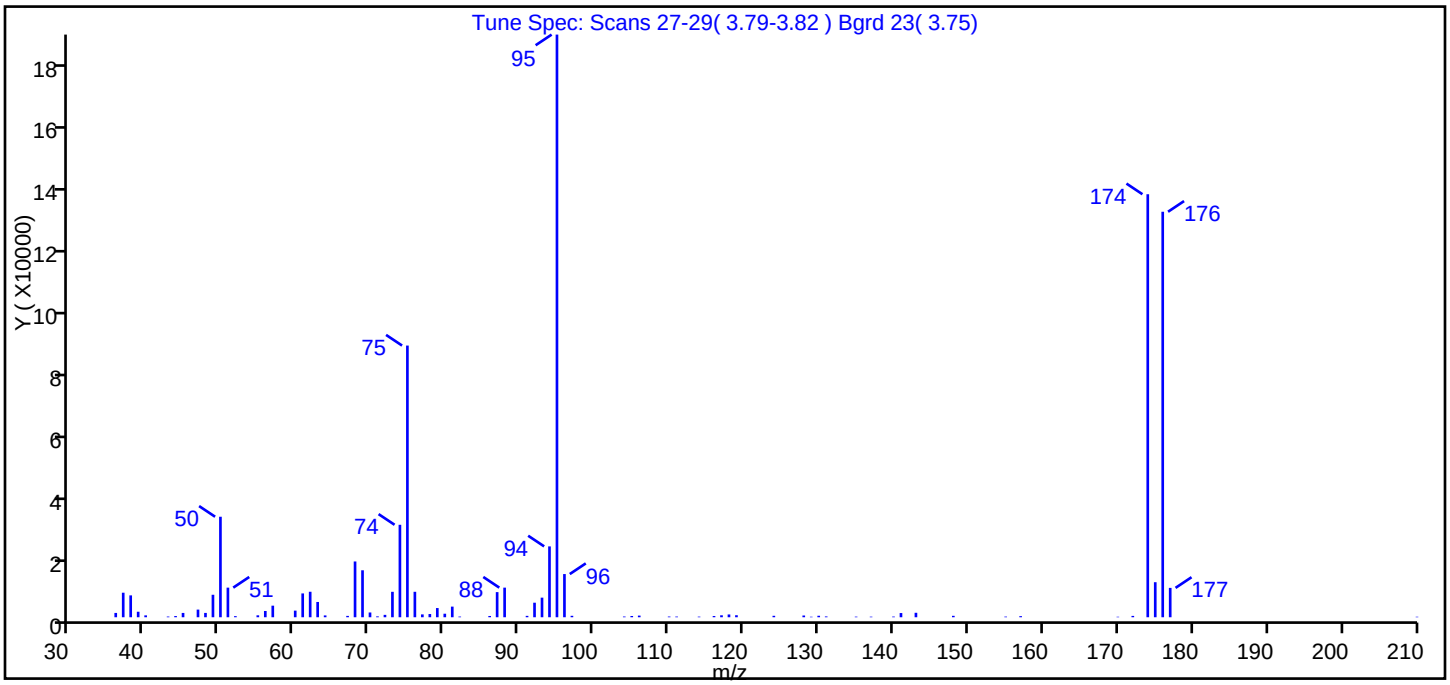
Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
$ 4 BFB	95	3.805	3.805	0.0	0	495474	0	

MS Tune Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A3UX12\20130328-18335.b\BFB2151.D		
Injection Date:	28-Mar-2013 08:11:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	79725	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	17.25
75	30.00 - 60.00% of mass 95	46.63
96	5.00 - 9.00% of mass 95	7.41
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	72.60
175	5.00 - 9.00% of mass 174	6.02 (8.29)
176	95.00 - 101.00% of mass 174	69.59 (95.86)
177	5.00 - 9.00% of mass 176	5.04 (7.24)

Report Date: 29-Mar-2013 09:09:24 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\BFB2151.D\8260_12.rslt\spectra.d
Injection Date: 28-Mar-2013 08:11:30
Spectrum: Tune Spec: Scans 27-29(3.79-3.82) Bgrd 23(3.75)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 78

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1406	63.00	4969	88.00	9629	129.00	172
37.00	7980	64.00	596	91.00	453	130.00	487
38.00	7112	67.00	444	92.00	4731	131.00	268
39.00	1794	68.00	18136	93.00	6375	135.00	205
40.00	614	69.00	15272	94.00	23040	137.00	194
43.00	234	70.00	1553	95.00	189440	140.00	228
44.00	393	71.00	286	96.00	14044	141.00	1369
45.00	1404	72.00	777	97.00	473	143.00	1453
47.00	2488	73.00	8273	104.00	239	148.00	465
48.00	1412	74.00	30064	105.00	411	155.00	216
49.00	7313	75.00	88336	106.00	540	157.00	358
50.00	32680	76.00	8280	110.00	238	170.00	166
51.00	9628	77.00	930	111.00	228	172.00	440
52.00	359	78.00	1049	114.00	207	174.00	137536
55.00	633	79.00	2993	116.00	397	175.00	11395
56.00	2037	80.00	1151	117.00	640	176.00	131840
57.00	3766	81.00	3459	118.00	908	177.00	9551
60.00	2153	82.00	225	119.00	659	210.00	169
61.00	7748	86.00	414	124.00	473		
62.00	8291	87.00	8173	128.00	568		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-79725/6

Matrix: Water | Lab File ID: UX129318.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/28/2013 10:55

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.: 79725 | 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	0.344	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.: 240-21987-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-79725/6

Matrix: Water Lab File ID: UX129318.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/28/2013 10:55

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.: 79725 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	109		85-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-120
460-00-4	4-Bromofluorobenzene (Surr)	105		75-120
1868-53-7	Dibromofluoromethane (Surr)	101		85-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129318.D
Lims ID: MB Client ID:
Inject. Date: 28-Mar-2013 10:55:30 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: 240-0018335-006
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 6
Lims Batch ID: 79725 Lims Sample ID: 6
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\8260_12.m
Last Update: 29-Mar-2013 09:09:26 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK001

First Level Reviewer: quayler Date: 28-Mar-2013 11:23:00

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.322	5.334	-0.012	99	1681282	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	84	1222361	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.232	10.232	0.0	96	567766	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.766	4.766	0.0	55	370610	20.3	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.050	5.050	0.0	90	452662	20.6	
$ 7 Toluene-d8 (Surr)	98	6.683	6.682	0.001	92	1597912	21.8	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	90	559959	21.0	
137 Benzyl chloride	126		0.000					
149 1,3-Diethylbenzene TIC	1		0.000					
143 1,4-Dichlorobutane	1		0.000					
147 C6-C12	1		0.000					
146 Butyl Methacrylate TIC	1		0.000					
148 C6-C10	1		0.000					
142 Chlorodifluoromethane TIC	1		0.000					
12 Dichlorodifluoromethane	85		1.642					
13 Chloromethane	50		1.795					
14 Vinyl chloride	62		1.902					
15 Bromomethane	94		2.198					
16 Chloroethane	64		2.304					
17 Dichlorofluoromethane	67		2.458					
18 Trichlorofluoromethane	101		2.517					
19 Ethyl ether	59		2.718					
20 Acrolein	56		2.837					
25 Methylal	45		2.856					
22 Acetone	43		2.955					
21 1,1-Dichloroethene	61		2.955					
23 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.955					
24 Iodomethane	142		3.109					
26 Carbon disulfide	76		3.156					
27 Acetonitrile	41		3.192					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
28 Methyl acetate	43		3.227					
29 3-Chloro-1-propene	76		3.227					
30 Methylene Chloride	49	3.357	3.369	-0.012	71	27828	0.3438	
31 2-Methyl-2-propanol	59		3.393					
32 Acrylonitrile	53		3.523					
34 Methyl tert-butyl ether	73		3.547					
33 trans-1,2-Dichloroethene	61		3.559					
35 Hexane	57		3.772					9
36 1,1-Dichloroethane	63		3.902					
37 Vinyl acetate	86		3.925					
38 Isopropyl ether	87		3.937					
39 2-Chloro-1,3-butadiene	53		3.973					
40 Tert-butyl ethyl ether	59		4.233					
42 cis-1,2-Dichloroethene	61		4.375					
43 2,2-Dichloropropane	77		4.375					
41 2-Butanone (MEK)	72		4.375					
45 Ethyl acetate	43		4.411					
44 Propionitrile	54		4.434					
46 Methacrylonitrile	41		4.553					
47 Chlorobromomethane	49		4.576					
48 Tetrahydrofuran	42		4.612					
49 Chloroform	83		4.624					
50 1,1,1-Trichloroethane	97		4.801					
51 Cyclohexane	56		4.860					
52 1,1-Dichloropropene	75		4.931					
53 Carbon tetrachloride	117		4.943					
54 Isobutyl alcohol	41		4.979					
55 Benzene	78		5.109					
56 1,2-Dichloroethane	62		5.109					
57 Tert-amyl methyl ether	73		5.180					
58 n-Heptane	100		5.298					
59 n-Butanol	56		5.535					
61 Ethyl acrylate	55		5.605					
60 Trichloroethene	130		5.641					
63 Methylcyclohexane	55		5.807					9
62 1,2-Dichloropropane	63		5.830					
64 Methyl methacrylate	41		5.890					
66 1,4-Dioxane	88		5.937					
65 Dibromomethane	174		5.937					
67 Dichlorobromomethane	83		6.055					
68 2-Nitropropane	41		6.245					
69 2-Chloroethyl vinyl ether	63		6.292					
70 cis-1,3-Dichloropropene	75		6.434					
71 4-Methyl-2-pentanone (MIBK)	43		6.564					
72 Toluene	91		6.742					
73 trans-1,3-Dichloropropene	75		6.919					
74 Ethyl methacrylate	69		6.978					
75 1,1,2-Trichloroethane	97		7.097					
77 Tetrachloroethene	166		7.239					
76 1,3-Dichloropropane	76		7.250					
80 Tetrahydrothiophene	60		7.255					
78 2-Hexanone	43		7.298					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
136 n-Butyl acetate	43		7.404					
79 Chlorodibromomethane	129		7.463					
123 Ethylene Dibromide	107		7.570					
81 1-Chlorohexane	91		7.996					9
82 Chlorobenzene	112		8.020					
83 1,1,1,2-Tetrachloroethane	131		8.091					
84 Ethylbenzene	106		8.114					
10 m-Xylene & p-Xylene	106		8.221					9
85 o-Xylene	106		8.599					
86 Styrene	104		8.611					
87 Bromoform	173		8.801					
88 Isopropylbenzene	105		8.954					9
89 Cyclohexanone	55		9.049					9
90 1,1,2,2-Tetrachloroethane	83		9.227					
91 Bromobenzene	156		9.262					
92 1,2,3-Trichloropropane	110		9.286					
93 trans-1,4-Dichloro-2-butene	53		9.286					
94 N-Propylbenzene	120		9.345					
95 2-Chlorotoluene	126		9.440					
96 1,3,5-Trimethylbenzene	105		9.511					9
104 4-Chlorotoluene	126		9.546					
97 tert-Butylbenzene	119		9.842					9
98 1,2,4-Trimethylbenzene	105		9.889					9
99 sec-Butylbenzene	105		10.055					9
100 1,3-Dichlorobenzene	146		10.173					9
101 4-Isopropyltoluene	119		10.197					9
102 1,4-Dichlorobenzene	146		10.256					9
103 1,2,3-Trimethylbenzene	105		10.303					
105 n-Butylbenzene	91	10.599	10.599	0.0	44	12233	0.2248	
106 1,2-Dichlorobenzene	146		10.635					
107 1,2-Dibromo-3-Chloropropane	157		11.404					
108 1,3,5-Trichlorobenzene	180		11.617					9
109 1,2,4-Trichlorobenzene	180		12.244					9
110 Hexachlorobutadiene	225	12.410	12.410	0.0	26	6413	0.6853	
111 Naphthalene	128		12.492					9
112 1,2,3-Trichlorobenzene	180	12.741	12.753	-0.012	8	3374	0.1690	
113 2-Methylnaphthalene	142		13.830					9
S 145 Trihalomethanes, Total	1		0.000					
S 11 1,2-Dichloroethene, Total	96		1.140					
S 9 1,3-Dichloropropene, Total	75		6.760					
S 114 Xylenes, Total	106		16.530					
T 144 Hexachloroethane TIC	166		10.910					1

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

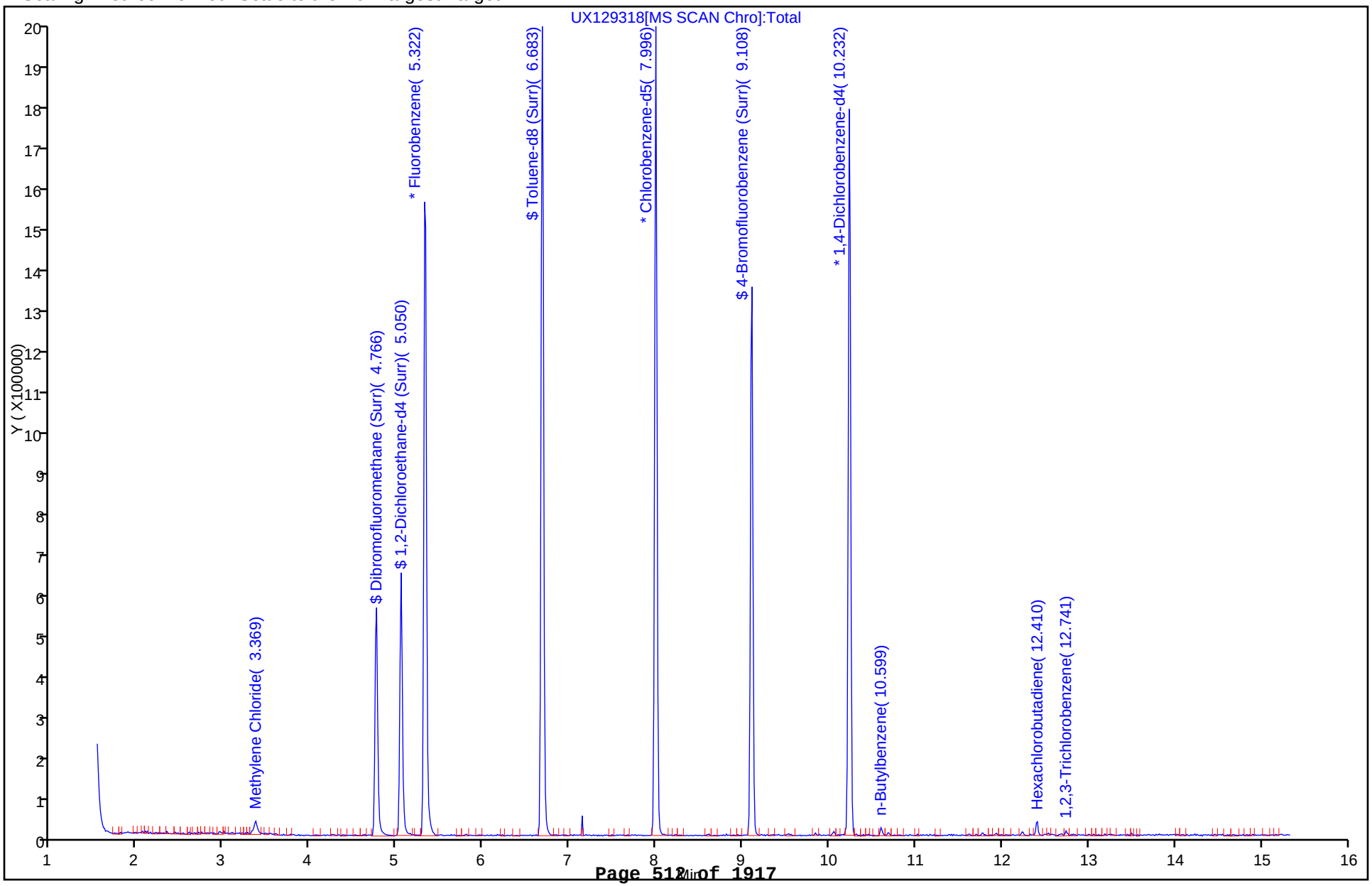
Report Date: 29-Mar-2013 09:09:28 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129318.D

Injection Date:	28-Mar-2013 10:55:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	79725	Lims Sample ID:	6
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



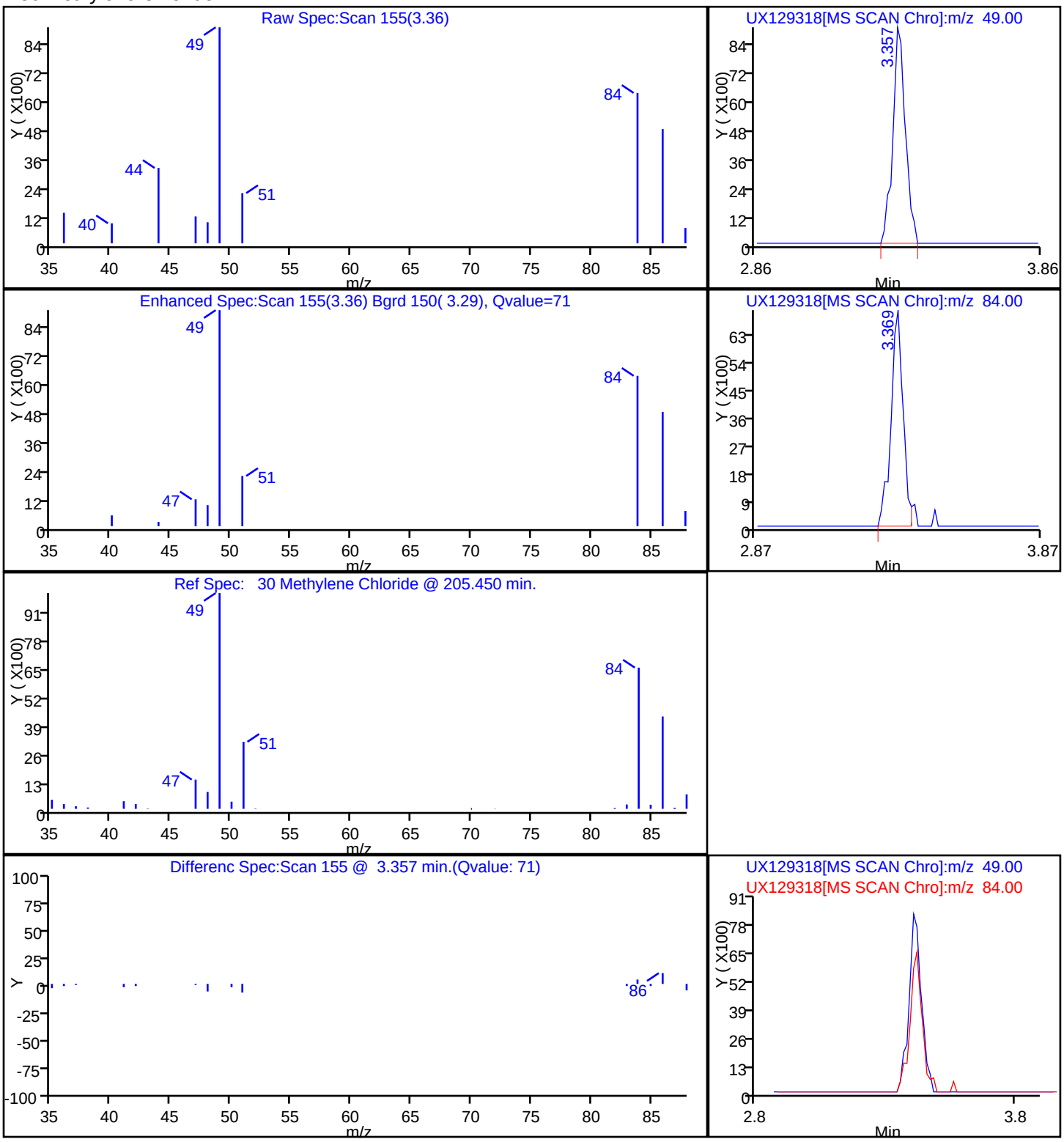
Report Date: 29-Mar-2013 09:09:28 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129318.D

Injection Date:	28-Mar-2013 10:55:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	79725	Lims Sample ID:	6
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

30 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-79725/4

Matrix: Water | Lab File ID: UX129316.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/28/2013 10:02

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.: 79725 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	22.7		1.0	0.25	0.22
79-34-5	1,1,2,2-Tetrachloroethane	18.1		1.0	0.25	0.18
79-00-5	1,1,2-Trichloroethane	18.2		1.0	0.50	0.27
75-34-3	1,1-Dichloroethane	19.3		1.0	0.25	0.15
75-35-4	1,1-Dichloroethene	19.1		1.0	0.25	0.19
107-06-2	1,2-Dichloroethane	20.2		1.0	0.25	0.22
540-59-0	1,2-Dichloroethene, Total	37.6		2.0	0.50	0.34
78-87-5	1,2-Dichloropropane	19.0		1.0	0.25	0.18
78-93-3	2-Butanone (MEK)	34.7		10	0.57	0.57
591-78-6	2-Hexanone	34.6		10	0.50	0.41
108-10-1	4-Methyl-2-pentanone (MIBK)	32.1		10	0.50	0.32
67-64-1	Acetone	33.8		10	1.1	1.1
71-43-2	Benzene	19.0		1.0	0.25	0.13
75-25-2	Bromoform	19.2		1.0	0.64	0.64
74-83-9	Bromomethane	15.2		1.0	0.50	0.41
75-15-0	Carbon disulfide	19.5		1.0	0.25	0.13
56-23-5	Carbon tetrachloride	25.6		1.0	0.25	0.13
108-90-7	Chlorobenzene	19.5		1.0	0.25	0.15
74-87-3	Chloromethane	17.5		1.0	0.50	0.30
10061-01-5	cis-1,3-Dichloropropene	18.8		1.0	0.25	0.14
124-48-1	Dibromochloromethane	19.4		1.0	0.25	0.18
75-27-4	Bromodichloromethane	20.2		1.0	0.25	0.15
100-41-4	Ethylbenzene	19.6		1.0	0.25	0.17
1634-04-4	Methyl tert-butyl ether	17.8		1.0	0.25	0.17
75-09-2	Methylene Chloride	19.7		1.0	0.50	0.33
100-42-5	Styrene	21.2		1.0	0.25	0.11
127-18-4	Tetrachloroethene	20.3		1.0	0.50	0.29
108-88-3	Toluene	20.4		1.0	0.25	0.13
10061-02-6	trans-1,3-Dichloropropene	20.4		1.0	0.25	0.19
79-01-6	Trichloroethene	19.6		1.0	0.25	0.17
75-01-4	Vinyl chloride	17.7		1.0	0.25	0.22
1330-20-7	Xylenes, Total	59.3		2.0	0.75	0.28
67-66-3	Chloroform	18.9		1.0	0.25	0.16
74-97-5	Bromochloromethane	20.5		1.0	0.50	0.29
106-93-4	1,2-Dibromoethane	19.4		1.0	0.25	0.24
75-00-3	Chloroethane	17.8		1.0	0.50	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-79725/4

Matrix: Water Lab File ID: UX129316.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/28/2013 10:02

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.: 79725 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	110		85-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-120
460-00-4	4-Bromofluorobenzene (Surr)	103		75-120
1868-53-7	Dibromofluoromethane (Surr)	109		85-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129316.D
Lims ID: LCS Client ID:
Inject. Date: 28-Mar-2013 10:02:30 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0018335-004
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 4
Lims Batch ID: 79725 Lims Sample ID: 4
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\8260_12.m
Last Update: 29-Mar-2013 09:09:26 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK001

First Level Reviewer: quayler Date: 28-Mar-2013 10:25:37

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.333	5.334	-0.001	99	1659289	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	84	1231555	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.232	10.232	0.0	91	591377	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.765	4.766	-0.001	57	392146	21.7	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.049	5.050	-0.001	88	445145	20.5	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	83	1617344	21.9	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	90	553850	20.6	
12 Dichlorodifluoromethane	85	1.641	1.642	-0.001	98	378938	15.8	
13 Chloromethane	50	1.795	1.795	0.0	89	545208	17.5	
14 Vinyl chloride	62	1.902	1.902	0.0	97	561495	17.7	
15 Bromomethane	94	2.209	2.198	0.011	89	293821	15.2	
16 Chloroethane	64	2.304	2.304	0.0	94	386356	17.8	
18 Trichlorofluoromethane	101	2.517	2.517	0.0	86	584161	19.3	
19 Ethyl ether	59	2.718	2.718	0.0	87	311221	22.3	
20 Acrolein	56	2.837	2.837	0.0	89	200968	61.4	
22 Acetone	43	2.955	2.955	0.0	35	171726	33.8	
21 1,1-Dichloroethene	61	2.955	2.955	0.0	90	734631	19.1	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.955	2.955	0.0	57	408654	20.3	
24 Iodomethane	142	3.109	3.109	0.0	97	718465	19.8	
26 Carbon disulfide	76	3.156	3.156	0.0	98	1498904	19.5	
27 Acetonitrile	41	3.192	3.192	0.0	94	112105	46.7	
28 Methyl acetate	43	3.227	3.227	0.0	94	261412	18.1	
30 Methylene Chloride	49	3.357	3.369	-0.012	82	620434	19.7	
31 2-Methyl-2-propanol	59	3.393	3.393	0.0	98	437956	242.8	
32 Acrylonitrile	53	3.523	3.523	0.0	99	375458	49.1	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	88	1039751	17.8	
33 trans-1,2-Dichloroethene	61	3.558	3.559	-0.001	89	543592	18.4	
35 Hexane	57	3.771	3.772	-0.001	89	342907	20.6	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	99	660337	19.3	
37 Vinyl acetate	86	3.925	3.925	0.0	95	63749	15.2	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
38 Isopropyl ether	87	3.937	3.937	0.0	87	345031	22.0	
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	69	529243	19.2	
43 2,2-Dichloropropane	77	4.375	4.375	0.0	66	253715	22.6	
41 2-Butanone (MEK)	72	4.375	4.375	0.0	73	74593	34.7	
47 Chlorobromomethane	49	4.576	4.576	0.0	96	304627	20.5	
48 Tetrahydrofuran	42	4.612	4.612	0.0	84	81667	15.4	
49 Chloroform	83	4.623	4.624	-0.001	70	613603	18.9	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	89	434865	22.7	
51 Cyclohexane	56	4.860	4.860	0.0	87	523245	19.8	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	94	498074	20.8	
53 Carbon tetrachloride	117	4.943	4.943	0.0	76	330111	25.6	
54 Isobutyl alcohol	41	4.978	4.979	-0.001	90	260876	620.9	
55 Benzene	78	5.109	5.109	0.0	95	1537803	19.0	
56 1,2-Dichloroethane	62	5.109	5.109	0.0	86	466829	20.2	
60 Trichloroethene	130	5.641	5.641	0.0	94	373907	19.6	
63 Methylcyclohexane	55	5.807	5.807	0.0	91	326081	19.5	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	92	369085	19.0	
65 Dibromomethane	174	5.937	5.937	0.0	86	223934	20.8	
67 Dichlorobromomethane	83	6.055	6.055	0.0	98	446425	20.2	
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	90	223004	18.0	
70 cis-1,3-Dichloropropene	75	6.434	6.434	0.0	91	554173	18.8	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	93	522535	32.1	
72 Toluene	91	6.741	6.742	-0.001	90	1611826	20.4	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	91	473175	20.4	
75 1,1,2-Trichloroethane	97	7.096	7.097	-0.001	86	319866	18.2	
77 Tetrachloroethene	166	7.238	7.239	-0.001	90	281908	20.3	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	87	628539	19.6	
78 2-Hexanone	43	7.298	7.298	0.0	75	352126	34.6	
79 Chlorodibromomethane	129	7.463	7.463	0.0	85	285915	19.4	
123 Ethylene Dibromide	107	7.570	7.570	0.0	95	320857	19.4	
82 Chlorobenzene	112	8.019	8.020	-0.001	93	1025512	19.5	
83 1,1,1,2-Tetrachloroethane	131	8.090	8.091	-0.001	83	293031	21.5	
84 Ethylbenzene	106	8.114	8.114	0.0	98	499556	19.6	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	96	1280835	40.0	
85 o-Xylene	106	8.599	8.599	0.0	90	640813	19.3	
86 Styrene	104	8.611	8.611	0.0	94	1194683	21.2	
87 Bromoform	173	8.800	8.801	-0.001	94	160218	19.2	
88 Isopropylbenzene	105	8.954	8.954	0.0	95	1448431	20.8	
89 Cyclohexanone	55	9.049	9.049	0.0	90	211411	143.6	
90 1,1,2,2-Tetrachloroethane	83	9.226	9.227	-0.001	97	448240	18.1	
91 Bromobenzene	156	9.262	9.262	0.0	92	386874	18.5	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	72	140443	17.6	
93 trans-1,4-Dichloro-2-butene	53	9.286	9.286	0.0	72	184822	33.6	
94 N-Propylbenzene	120	9.345	9.345	0.0	97	383281	20.1	
95 2-Chlorotoluene	126	9.439	9.440	-0.001	96	330837	18.7	
96 1,3,5-Trimethylbenzene	105	9.510	9.511	-0.001	89	1220851	20.3	
104 4-Chlorotoluene	126	9.546	9.546	0.0	98	381206	20.2	
97 tert-Butylbenzene	119	9.842	9.842	0.0	83	1056979	20.6	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	70	1259996	20.2	
99 sec-Butylbenzene	105	10.055	10.055	0.0	94	1526799	20.7	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	98	714199	19.1	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	94	1331736	21.2	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
102 1,4-Dichlorobenzene	146	10.256	10.256	0.0	89	763858	19.9	
103 1,2,3-Trimethylbenzene	105	10.303	10.303	0.0	93	1334848	19.0	
105 n-Butylbenzene	91	10.599	10.599	0.0	94	1183381	20.9	
106 1,2-Dichlorobenzene	146	10.635	10.635	-0.001	96	720122	18.7	
107 1,2-Dibromo-3-Chloropropane	157	11.404	11.404	0.0	77	75566	19.1	
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	93	437939	19.8	
110 Hexachlorobutadiene	225	12.409	12.410	-0.001	94	184544	18.9	
111 Naphthalene	128	12.492	12.492	0.0	97	1161985	17.7	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	96	401431	19.3	
S 145 Trihalomethanes, Total	1				0		77.8	
S 11 1,2-Dichloroethene, Total	96				0		37.6	
S 114 Xylenes, Total	106				0		59.3	

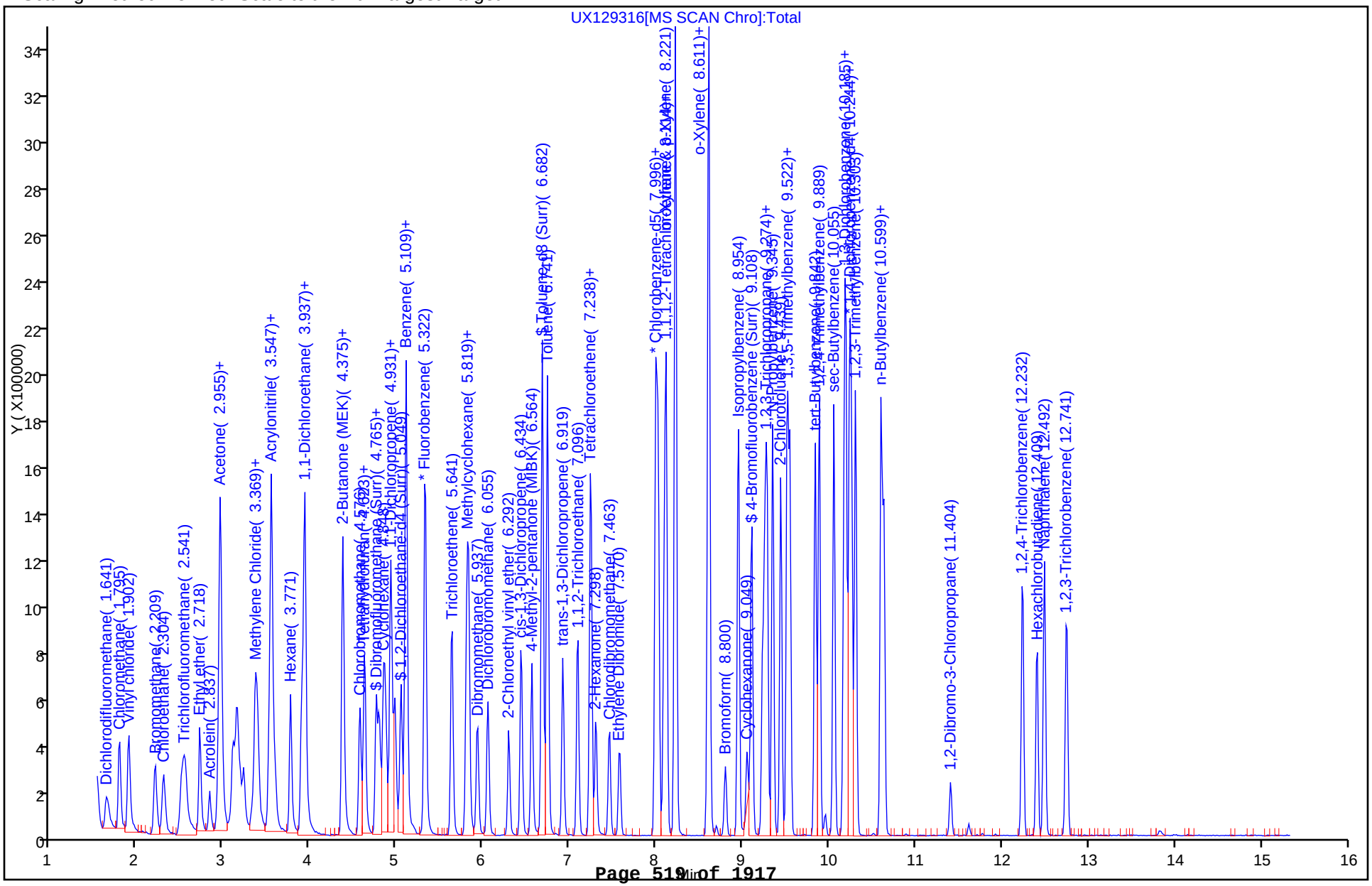
Report Date: 29-Mar-2013 09:09:27 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129316.D

Injection Date:	28-Mar-2013 10:02:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	79725	Lims Sample ID:	4
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-79725/5

Matrix: Water | Lab File ID: UX129317.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/28/2013 10:29

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.: 79725 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.000959	J	0.0010	0.00025	0.00022
79-34-5	1,1,2,2-Tetrachloroethane	0.00109		0.0010	0.00025	0.00018
79-00-5	1,1,2-Trichloroethane	0.000795	J	0.0010	0.00050	0.00027
75-34-3	1,1-Dichloroethane	0.000850	J	0.0010	0.00025	0.00015
75-35-4	1,1-Dichloroethene	0.000973	J	0.0010	0.00025	0.00019
107-06-2	1,2-Dichloroethane	0.00115		0.0010	0.00025	0.00022
540-59-0	1,2-Dichloroethene, Total	0.00198	J	0.0020	0.00050	0.00034
78-87-5	1,2-Dichloropropane	0.000868	J	0.0010	0.00025	0.00018
78-93-3	2-Butanone (MEK)	0.00675	J ^	0.010	0.00050	0.00057
591-78-6	2-Hexanone	0.00867	J	0.010	0.00050	0.00041
108-10-1	4-Methyl-2-pentanone (MIBK)	0.00786	J	0.010	0.00050	0.00032
67-64-1	Acetone	0.00824	J	0.010	0.0010	0.0011
71-43-2	Benzene	0.000966	J	0.0010	0.00025	0.00013
75-25-2	Bromoform	0.000857	J	0.0010	0.00050	0.00064
74-83-9	Bromomethane	0.000956	J	0.0010	0.00050	0.00041
75-15-0	Carbon disulfide	0.000842	J	0.0010	0.00025	0.00013
56-23-5	Carbon tetrachloride	0.00136	^	0.0010	0.00025	0.00013
108-90-7	Chlorobenzene	0.000971	J	0.0010	0.00025	0.00015
74-87-3	Chloromethane	0.000984	J	0.0010	0.00050	0.00030
10061-01-5	cis-1,3-Dichloropropene	0.000862	J	0.0010	0.00025	0.00014
124-48-1	Dibromochloromethane	0.000769	J	0.0010	0.00025	0.00018
75-27-4	Bromodichloromethane	0.000830	J	0.0010	0.00025	0.00015
100-41-4	Ethylbenzene	0.000957	J	0.0010	0.00025	0.00017
1634-04-4	Methyl tert-butyl ether	0.000831	J	0.0010	0.00025	0.00017
75-09-2	Methylene Chloride	0.00138	^	0.0010	0.00050	0.00033
100-42-5	Styrene	0.000958	J	0.0010	0.00025	0.00011
127-18-4	Tetrachloroethene	0.00116		0.0010	0.00050	0.00029
108-88-3	Toluene	0.00113		0.0010	0.00025	0.00013
10061-02-6	trans-1,3-Dichloropropene	0.000805	J	0.0010	0.00025	0.00019
79-01-6	Trichloroethene	0.000931	J	0.0010	0.00025	0.00017
75-01-4	Vinyl chloride	0.000954	J	0.0010	0.00025	0.00022
1330-20-7	Xylenes, Total	0.00310		0.0020	0.00075	0.00028
67-66-3	Chloroform	0.000796	J	0.0010	0.00025	0.00016
74-97-5	Bromochloromethane	0.000968	J	0.0010	0.00050	0.00029
106-93-4	1,2-Dibromoethane	0.000840	J	0.0010	0.00025	0.00024
75-00-3	Chloroethane	0.00101		0.0010	0.00050	0.00029

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-79725/5

Matrix: Water Lab File ID: UX129317.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/28/2013 10:29

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.: 79725 Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	112		50-150
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		50-150
460-00-4	4-Bromofluorobenzene (Surr)	110		50-150
1868-53-7	Dibromofluoromethane (Surr)	107		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129317.D
Lims ID: MRL Client ID:
Inject. Date: 28-Mar-2013 10:29:30 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018335-005
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 5
Lims Batch ID: 79725 Lims Sample ID: 5
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\8260_12.m
Last Update: 29-Mar-2013 09:09:26 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK001

First Level Reviewer: quayler Date: 28-Mar-2013 10:46:18

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.333	5.334	-0.001	99	1624775	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	84	1192131	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.232	10.232	0.0	96	561153	20.0	
$ 4 BFB	95	2.955	3.805	-0.850	0	737	0	
$ 5 Dibromofluoromethane (Surr)	113	4.765	4.766	-0.001	55	378800	21.4	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.049	5.050	-0.001	90	447982	21.1	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	92	1593701	22.3	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	88	572701	22.0	
137 Benzyl chloride	126		0.000					
149 1,3-Diethylbenzene TIC	1		0.000					
143 1,4-Dichlorobutane	1		0.000					
147 C6-C12	1		0.000					
146 Butyl Methacrylate TIC	1		0.000					
148 C6-C10	1		0.000					
142 Chlorodifluoromethane TIC	1		0.000					
12 Dichlorodifluoromethane	85	1.653	1.642	0.011	34	25004	1.06	
13 Chloromethane	50	1.795	1.795	0.0	80	30052	0.9840	
14 Vinyl chloride	62	1.890	1.902	-0.012	87	29597	0.9543	
15 Bromomethane	94	2.198	2.198	0.0	63	18148	0.9559	
16 Chloroethane	64	2.304	2.304	0.0	74	21469	1.01	
17 Dichlorofluoromethane	67		2.458					
18 Trichlorofluoromethane	101	2.505	2.517	-0.012	48	25948	1.12	
19 Ethyl ether	59		2.718					
20 Acrolein	56	2.837	2.837	0.0	70	23690	7.39	
25 Methylal	45		2.856					9
22 Acetone	43	2.955	2.955	0.0	86	46117	8.24	
21 1,1-Dichloroethene	61	2.955	2.955	0.0	73	36660	0.9726	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.955	2.955	0.0	16	18579	0.9437	
24 Iodomethane	142	3.109	3.109	0.0	83	32470	0.9136	
26 Carbon disulfide	76	3.156	3.156	0.0	97	63399	0.8424	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
27 Acetonitrile	41	3.192	3.192	0.0	91	22530	9.58	
28 Methyl acetate	43	3.227	3.227	0.0	84	24670	1.75	
29 3-Chloro-1-propene	76		3.227					9
30 Methylene Chloride	49	3.357	3.369	-0.012	85	57946	1.38	
31 2-Methyl-2-propanol	59	3.393	3.393	0.0	82	22462	37.2	
32 Acrylonitrile	53	3.523	3.523	0.0	77	13106	1.75	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	82	47610	0.8310	
33 trans-1,2-Dichloroethene	61	3.558	3.559	-0.001	67	26656	0.9235	
35 Hexane	57	3.771	3.772	-0.001	84	21911	1.34	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	83	28514	0.8500	
37 Vinyl acetate	86	3.913	3.925	-0.012	79	4665	1.56	
38 Isopropyl ether	87		3.937					
39 2-Chloro-1,3-butadiene	53		3.973					
40 Tert-butyl ethyl ether	59		4.233					
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	46	28600	1.06	
43 2,2-Dichloropropane	77	4.375	4.375	0.0	30	13621	1.24	
41 2-Butanone (MEK)	72	4.375	4.375	0.0	88	15396	6.75	
45 Ethyl acetate	43		4.411					9
44 Propionitrile	54		4.434					
46 Methacrylonitrile	41		4.553					9
47 Chlorobromomethane	49	4.576	4.576	0.0	68	14103	0.9681	
48 Tetrahydrofuran	42	4.612	4.612	0.0	67	6226	0.3355	
49 Chloroform	83	4.623	4.624	-0.001	53	25238	0.7956	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	56	17979	0.9593	
51 Cyclohexane	56	4.848	4.860	-0.012	61	25502	0.9847	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	77	25175	1.07	
53 Carbon tetrachloride	117	4.931	4.943	-0.012	36	17171	1.36	
54 Isobutyl alcohol	41		4.979					
55 Benzene	78	5.109	5.109	-0.001	74	76551	0.9665	
56 1,2-Dichloroethane	62	5.109	5.109	-0.001	27	25918	1.15	
57 Tert-amyl methyl ether	73		5.180					9
58 n-Heptane	100		5.298					
59 n-Butanol	56		5.535					
61 Ethyl acrylate	55		5.605					
60 Trichloroethene	130	5.629	5.641	-0.012	69	17376	0.9313	
63 Methylcyclohexane	55	5.807	5.807	0.0	77	25523	1.56	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	68	16508	0.8677	
64 Methyl methacrylate	41	5.818	5.890	-0.072	21	20289	1.43	
66 1,4-Dioxane	88	5.937	5.937	0.0	35	10291	47.9	
65 Dibromomethane	174	5.937	5.937	0.0	70	9606	0.9090	
67 Dichlorobromomethane	83	6.055	6.055	0.0	71	17937	0.8305	
68 2-Nitropropane	41		6.245					
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	79	21455	1.77	
70 cis-1,3-Dichloropropene	75	6.434	6.434	0.0	57	24939	0.8618	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	87	125263	7.86	
72 Toluene	91	6.741	6.742	-0.001	91	86192	1.13	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	62	18080	0.8052	
74 Ethyl methacrylate	69	6.978	6.978	0.0	63	20772	0.9318	
75 1,1,2-Trichloroethane	97	7.096	7.097	-0.001	50	13501	0.7951	
77 Tetrachloroethene	166	7.238	7.239	-0.001	85	15573	1.16	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	69	32999	1.06	
80 Tetrahydrothiophene	60		7.255					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
78 2-Hexanone	43	7.298	7.298	0.0	92	85309	8.67	
136 n-Butyl acetate	43		7.404					9
79 Chlorodibromomethane	129	7.463	7.463	0.0	35	10975	0.7689	
123 Ethylene Dibromide	107	7.570	7.570	0.0	49	13471	0.8402	
81 1-Chlorohexane	91		7.996					9
82 Chlorobenzene	112	8.019	8.020	-0.001	52	49557	0.9710	
83 1,1,1,2-Tetrachloroethane	131	8.090	8.091	-0.001	61	12654	0.9594	
84 Ethylbenzene	106	8.114	8.114	0.0	89	23671	0.9573	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	94	63287	2.04	
85 o-Xylene	106	8.611	8.599	0.012	76	34104	1.06	
86 Styrene	104	8.611	8.611	0.0	87	52352	0.9582	
87 Bromoform	173	8.800	8.801	-0.001	26	6927	0.8568	
88 Isopropylbenzene	105	8.954	8.954	0.0	72	76432	1.13	
89 Cyclohexanone	55		9.049					9
90 1,1,2,2-Tetrachloroethane	83	9.238	9.227	0.011	65	25726	1.09	
91 Bromobenzene	156	9.262	9.262	0.0	86	20256	1.02	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	23	7730	1.02	
93 trans-1,4-Dichloro-2-butene	53	9.286	9.286	0.0	3	1826	0.3495	
94 N-Propylbenzene	120	9.345	9.345	0.0	84	20331	1.12	
95 2-Chlorotoluene	126	9.439	9.440	-0.001	85	17852	1.07	
96 1,3,5-Trimethylbenzene	105	9.522	9.511	0.011	81	58809	1.03	
104 4-Chlorotoluene	126	9.546	9.546	0.0	81	18655	1.04	
97 tert-Butylbenzene	119	9.842	9.842	0.0	74	69307	1.42	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	73	64623	1.09	
99 sec-Butylbenzene	105	10.055	10.055	0.0	85	110352	1.58	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	77	38584	1.09	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	71	89951	1.51	
102 1,4-Dichlorobenzene	146	10.256	10.256	0.0	61	37722	1.03	
103 1,2,3-Trimethylbenzene	105		10.303					9
105 n-Butylbenzene	91	10.599	10.599	0.0	91	100998	1.88	
106 1,2-Dichlorobenzene	146	10.634	10.635	-0.001	79	38336	1.05	
107 1,2-Dibromo-3-Chloropropane	157	11.404	11.404	0.0	4	1948	0.5178	
108 1,3,5-Trichlorobenzene	180	11.628	11.617	0.011	72	23830	1.05	
109 1,2,4-Trichlorobenzene	180	12.232	12.244	-0.012	73	40203	1.92	
110 Hexachlorobutadiene	225	12.409	12.410	-0.001	62	23381	2.53	
111 Naphthalene	128	12.492	12.492	0.0	80	71329	1.14	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	72	34075	1.73	
113 2-Methylnaphthalene	142		13.830					9
S 145 Trihalomethanes, Total	1				0		3.25	
S 11 1,2-Dichloroethene, Total	96				0		1.98	
S 9 1,3-Dichloropropene, Total	75				0		1.67	
S 114 Xylenes, Total	106				0		3.10	
T 144 Hexachloroethane TIC	166		10.910					1

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

Report Date: 29-Mar-2013 09:09:27 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129317.D

Injection Date:	28-Mar-2013 10:29:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	79725	Lims Sample ID:	5
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-79725/14

Matrix: Water | Lab File ID: UX129326.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/28/2013 14:26

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.: 79725 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.000953	J	0.0010	0.00025	0.00022
79-34-5	1,1,2,2-Tetrachloroethane	0.000888	J	0.0010	0.00025	0.00018
79-00-5	1,1,2-Trichloroethane	0.000755	J	0.0010	0.00050	0.00027
75-34-3	1,1-Dichloroethane	0.000803	J	0.0010	0.00025	0.00015
75-35-4	1,1-Dichloroethene	0.000818	J	0.0010	0.00025	0.00019
107-06-2	1,2-Dichloroethane	0.00100		0.0010	0.00025	0.00022
540-59-0	1,2-Dichloroethene, Total	0.00174	J	0.0020	0.00050	0.00034
78-87-5	1,2-Dichloropropane	0.000871	J	0.0010	0.00025	0.00018
78-93-3	2-Butanone (MEK)	0.00692	J ^	0.010	0.00050	0.00057
591-78-6	2-Hexanone	0.00702	J	0.010	0.00050	0.00041
108-10-1	4-Methyl-2-pentanone (MIBK)	0.00664	J ^	0.010	0.00050	0.00032
67-64-1	Acetone	0.00654	J ^	0.010	0.0010	0.0011
71-43-2	Benzene	0.000907	J	0.0010	0.00025	0.00013
75-25-2	Bromoform	0.000641	J ^	0.0010	0.00050	0.00064
74-83-9	Bromomethane	0.00123		0.0010	0.00050	0.00041
75-15-0	Carbon disulfide	0.000845	J	0.0010	0.00025	0.00013
56-23-5	Carbon tetrachloride	0.000966	J	0.0010	0.00025	0.00013
108-90-7	Chlorobenzene	0.000923	J	0.0010	0.00025	0.00015
74-87-3	Chloromethane	0.00133	^	0.0010	0.00050	0.00030
10061-01-5	cis-1,3-Dichloropropene	0.000817	J	0.0010	0.00025	0.00014
124-48-1	Dibromochloromethane	0.000975	J	0.0010	0.00025	0.00018
75-27-4	Bromodichloromethane	0.000900	J	0.0010	0.00025	0.00015
100-41-4	Ethylbenzene	0.000840	J	0.0010	0.00025	0.00017
1634-04-4	Methyl tert-butyl ether	0.000814	J	0.0010	0.00025	0.00017
75-09-2	Methylene Chloride	0.00150	^	0.0010	0.00050	0.00033
100-42-5	Styrene	0.000848	J	0.0010	0.00025	0.00011
127-18-4	Tetrachloroethene	0.00101		0.0010	0.00050	0.00029
108-88-3	Toluene	0.000966	J	0.0010	0.00025	0.00013
10061-02-6	trans-1,3-Dichloropropene	0.000873	J	0.0010	0.00025	0.00019
79-01-6	Trichloroethene	0.000718	J	0.0010	0.00025	0.00017
75-01-4	Vinyl chloride	0.00133	^	0.0010	0.00025	0.00022
1330-20-7	Xylenes, Total	0.00263		0.0020	0.00075	0.00028
67-66-3	Chloroform	0.000920	J	0.0010	0.00025	0.00016
74-97-5	Bromochloromethane	0.000990	J	0.0010	0.00050	0.00029
106-93-4	1,2-Dibromoethane	0.000890	J	0.0010	0.00025	0.00024
75-00-3	Chloroethane	0.00129		0.0010	0.00050	0.00029

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-79725/14

Matrix: Water Lab File ID: UX129326.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/28/2013 14:26

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.: 79725 Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	106		50-150
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		50-150
460-00-4	4-Bromofluorobenzene (Surr)	102		50-150
1868-53-7	Dibromofluoromethane (Surr)	103		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129326.D
Lims ID: MRL Client ID:
Inject. Date: 28-Mar-2013 14:26:30 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018335-014
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 14
Lims Batch ID: 79725 Lims Sample ID: 14
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\8260_12.m
Last Update: 29-Mar-2013 09:09:26 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK001

First Level Reviewer: quayler Date: 28-Mar-2013 14:49:21

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.333	5.334	-0.001	99	1721180	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	83	1262794	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.244	10.232	0.012	93	582422	20.0	
$ 4 BFB	95	4.576	3.805	0.771	0	2398	0	
$ 5 Dibromofluoromethane (Surr)	113	4.765	4.766	-0.001	56	386293	20.6	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.049	5.050	-0.001	90	450284	20.0	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	93	1604259	21.2	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	89	563195	20.5	
137 Benzyl chloride	126		0.000					
149 1,3-Diethylbenzene TIC	1		0.000					
143 1,4-Dichlorobutane	1		0.000					
147 C6-C12	1		0.000					
146 Butyl Methacrylate TIC	1		0.000					
148 C6-C10	1		0.000					
142 Chlorodifluoromethane TIC	1		0.000					
12 Dichlorodifluoromethane	85	1.653	1.642	0.011	74	40412	1.62	
13 Chloromethane	50	1.783	1.795	-0.012	86	43190	1.33	
14 Vinyl chloride	62	1.902	1.902	0.0	59	43727	1.33	
15 Bromomethane	94	2.198	2.198	0.0	79	24680	1.23	
16 Chloroethane	64	2.304	2.304	0.0	61	29036	1.29	
17 Dichlorofluoromethane	67		2.458					
18 Trichlorofluoromethane	101	2.529	2.517	0.012	55	38435	1.46	
19 Ethyl ether	59		2.718					9
20 Acrolein	56	2.837	2.837	0.0	77	23103	6.81	
25 Methylal	45		2.856					
22 Acetone	43	2.967	2.955	0.012	93	40282	6.54	
21 1,1-Dichloroethene	61	2.955	2.955	0.0	72	32647	0.8176	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.967	2.955	0.012	36	15576	0.7469	
24 Iodomethane	142	3.109	3.109	0.0	88	27913	0.7414	
26 Carbon disulfide	76	3.156	3.156	0.0	96	67385	0.8452	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
27 Acetonitrile	41	3.203	3.192	0.011	96	22868	9.18	
28 Methyl acetate	43	3.227	3.227	0.0	80	20704	1.38	
29 3-Chloro-1-propene	76		3.227					9
30 Methylene Chloride	49	3.369	3.369	0.0	81	65169	1.50	
31 2-Methyl-2-propanol	59	3.393	3.393	0.0	79	18701	34.9	
32 Acrylonitrile	53	3.523	3.523	0.0	82	12819	1.62	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	85	49426	0.8144	
33 trans-1,2-Dichloroethene	61	3.558	3.559	-0.001	55	28477	0.9313	
35 Hexane	57	3.771	3.772	-0.001	78	20895	1.21	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	78	28546	0.8033	
37 Vinyl acetate	86	3.925	3.925	0.0	90	2765	1.07	
38 Isopropyl ether	87		3.937					
39 2-Chloro-1,3-butadiene	53		3.973					
40 Tert-butyl ethyl ether	59		4.233					
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	53	23002	0.8036	
43 2,2-Dichloropropane	77	4.375	4.375	0.0	41	13492	1.16	
41 2-Butanone (MEK)	72	4.387	4.375	0.012	90	16697	6.92	
45 Ethyl acetate	43		4.411					9
44 Propionitrile	54		4.434					
46 Methacrylonitrile	41		4.553					9
47 Chlorobromomethane	49	4.576	4.576	0.0	70	15278	0.9900	
48 Tetrahydrofuran	42	4.612	4.612	0.0	38	5678	0.1580	
49 Chloroform	83	4.635	4.624	0.011	53	30925	0.9203	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	71	18925	0.9532	
51 Cyclohexane	56	4.848	4.860	-0.012	52	25151	0.9167	
52 1,1-Dichloropropene	75	4.919	4.931	-0.012	75	20541	0.8256	
53 Carbon tetrachloride	117	4.931	4.943	-0.012	39	12939	0.9662	
54 Isobutyl alcohol	41		4.979					
55 Benzene	78	5.109	5.109	0.0	91	76067	0.9066	
56 1,2-Dichloroethane	62	5.109	5.109	0.0	46	23938	1.00	
57 Tert-amyl methyl ether	73		5.180					9
58 n-Heptane	100		5.298					
59 n-Butanol	56		5.535					
61 Ethyl acrylate	55		5.605					
60 Trichloroethene	130	5.641	5.641	0.0	56	14188	0.7179	
63 Methylcyclohexane	55	5.807	5.807	0.0	79	24997	1.44	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	76	17551	0.8708	
64 Methyl methacrylate	41	5.819	5.890	-0.071	28	19124	1.27	
66 1,4-Dioxane	88	5.937	5.937	0.0	27	5990	26.3	
65 Dibromomethane	174	5.937	5.937	0.0	69	9187	0.8207	
67 Dichlorobromomethane	83	6.055	6.055	0.0	73	20583	0.8996	
68 2-Nitropropane	41		6.245					
69 2-Chloroethyl vinyl ether	63	6.292	6.292	0.0	70	21977	1.71	
70 cis-1,3-Dichloropropene	75	6.434	6.434	0.0	65	25058	0.8174	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	91	112182	6.64	
72 Toluene	91	6.741	6.742	-0.001	88	78231	0.9657	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	60	20770	0.8732	
74 Ethyl methacrylate	69	6.978	6.978	0.0	65	21217	0.8985	
75 1,1,2-Trichloroethane	97	7.085	7.097	-0.012	61	13574	0.7547	
77 Tetrachloroethene	166	7.238	7.239	-0.001	77	14351	1.01	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	74	25992	0.7907	
80 Tetrahydrothiophene	60		7.255					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
78 2-Hexanone	43	7.309	7.298	0.011	90	73254	7.02	
136 n-Butyl acetate	43		7.404					9
79 Chlorodibromomethane	129	7.463	7.463	0.0	37	14742	0.9750	
123 Ethylene Dibromide	107	7.582	7.570	0.012	39	15122	0.8904	
81 1-Chlorohexane	91		7.996					9
82 Chlorobenzene	112	8.019	8.020	-0.001	64	49882	0.9227	
83 1,1,1,2-Tetrachloroethane	131	8.090	8.091	-0.001	59	14371	1.03	
84 Ethylbenzene	106	8.114	8.114	0.0	91	21998	0.8399	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	94	56279	1.71	
85 o-Xylene	106	8.599	8.599	0.0	77	31223	0.9163	
86 Styrene	104	8.611	8.611	0.0	82	49061	0.8477	
87 Bromoform	173	8.800	8.801	-0.001	63	5490	0.6410	
88 Isopropylbenzene	105	8.954	8.954	0.0	79	67505	0.9448	
89 Cyclohexanone	55		9.049					9
90 1,1,2,2-Tetrachloroethane	83	9.226	9.227	-0.001	73	21673	0.8878	
91 Bromobenzene	156	9.262	9.262	0.0	84	17076	0.8293	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	43	6841	0.8702	
93 trans-1,4-Dichloro-2-butene	53	9.286	9.286	0.0	16	2998	0.5529	
94 N-Propylbenzene	120	9.345	9.345	0.0	89	16397	0.8739	
95 2-Chlorotoluene	126	9.439	9.440	-0.001	78	16565	0.9530	
96 1,3,5-Trimethylbenzene	105	9.510	9.511	-0.001	68	60905	1.03	
104 4-Chlorotoluene	126	9.546	9.546	0.0	81	19246	1.03	
97 tert-Butylbenzene	119	9.842	9.842	0.0	68	57799	1.14	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	45	63662	1.04	
99 sec-Butylbenzene	105	10.055	10.055	0.0	74	108942	1.50	
100 1,3-Dichlorobenzene	146	10.185	10.173	0.012	79	37889	1.03	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	76	86969	1.40	
102 1,4-Dichlorobenzene	146	10.256	10.256	0.0	63	35981	0.9495	
103 1,2,3-Trimethylbenzene	105		10.303					9
105 n-Butylbenzene	91	10.599	10.599	0.0	88	93873	1.68	
106 1,2-Dichlorobenzene	146	10.635	10.635	-0.001	79	34446	0.9067	
107 1,2-Dibromo-3-Chloropropane	157	11.404	11.404	0.0	1	3606	0.9235	
108 1,3,5-Trichlorobenzene	180	11.617	11.617	0.0	72	22299	0.9439	
109 1,2,4-Trichlorobenzene	180	12.232	12.244	-0.012	70	41076	1.89	
110 Hexachlorobutadiene	225	12.409	12.410	-0.001	70	18132	1.89	
111 Naphthalene	128	12.492	12.492	0.0	78	62954	0.9717	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	72	36096	1.76	
113 2-Methylnaphthalene	142		13.830					
S 145 Trihalomethanes, Total	1				0		3.44	
S 11 1,2-Dichloroethene, Total	96				0		1.73	
S 9 1,3-Dichloropropene, Total	75				0		1.69	
S 114 Xylenes, Total	106				0		2.63	
T 144 Hexachloroethane TIC	166		10.910					1

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

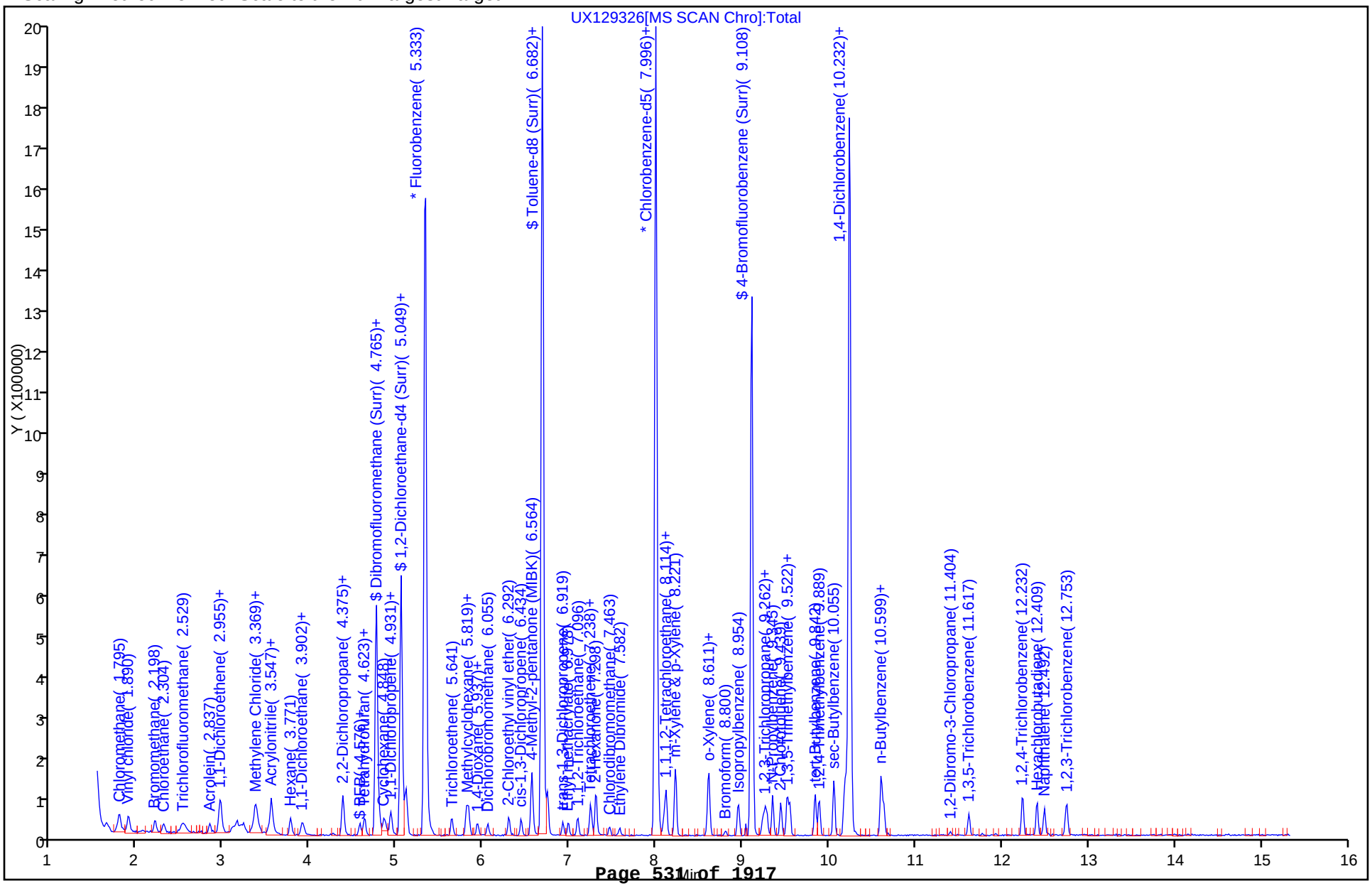
Report Date: 29-Mar-2013 09:09:33 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129326.D

Injection Date:	28-Mar-2013 14:26:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	79725	Lims Sample ID:	14
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: 079-0007-0001-SOURCEWATER | Lab Sample ID: 240-21987-1 MS

Matrix: Water | Lab File ID: UX129324.D

Analysis Method: 8260B/DoD | Date Collected: 03/14/2013 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 03/28/2013 13:33

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.: 79725 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	22.3		1.0	0.25	0.22
79-34-5	1,1,2,2-Tetrachloroethane	18.4		1.0	0.25	0.18
79-00-5	1,1,2-Trichloroethane	18.6		1.0	0.50	0.27
75-34-3	1,1-Dichloroethane	19.9		1.0	0.25	0.15
75-35-4	1,1-Dichloroethene	19.6		1.0	0.25	0.19
107-06-2	1,2-Dichloroethane	20.8		1.0	0.25	0.22
540-59-0	1,2-Dichloroethene, Total	38.5		2.0	0.50	0.34
78-87-5	1,2-Dichloropropane	19.4		1.0	0.25	0.18
78-93-3	2-Butanone (MEK)	39.4		10	0.57	0.57
591-78-6	2-Hexanone	37.1		10	0.50	0.41
108-10-1	4-Methyl-2-pentanone (MIBK)	32.9		10	0.50	0.32
67-64-1	Acetone	32.0		10	1.1	1.1
71-43-2	Benzene	19.5		1.0	0.25	0.13
75-25-2	Bromoform	18.4		1.0	0.64	0.64
74-83-9	Bromomethane	15.7		1.0	0.50	0.41
75-15-0	Carbon disulfide	19.3		1.0	0.25	0.13
56-23-5	Carbon tetrachloride	25.1		1.0	0.25	0.13
108-90-7	Chlorobenzene	19.6		1.0	0.25	0.15
74-87-3	Chloromethane	17.5		1.0	0.50	0.30
10061-01-5	cis-1,3-Dichloropropene	18.5		1.0	0.25	0.14
124-48-1	Dibromochloromethane	19.8		1.0	0.25	0.18
75-27-4	Bromodichloromethane	19.8		1.0	0.25	0.15
100-41-4	Ethylbenzene	19.9		1.0	0.25	0.17
1634-04-4	Methyl tert-butyl ether	18.0		1.0	0.25	0.17
75-09-2	Methylene Chloride	18.7		1.0	0.50	0.33
100-42-5	Styrene	20.5		1.0	0.25	0.11
127-18-4	Tetrachloroethene	21.3		1.0	0.50	0.29
108-88-3	Toluene	20.2		1.0	0.25	0.13
10061-02-6	trans-1,3-Dichloropropene	20.2		1.0	0.25	0.19
79-01-6	Trichloroethene	20.1		1.0	0.25	0.17
75-01-4	Vinyl chloride	18.5		1.0	0.25	0.22
1330-20-7	Xylenes, Total	58.7		2.0	0.75	0.28
67-66-3	Chloroform	19.9		1.0	0.25	0.16
74-97-5	Bromochloromethane	24.1		1.0	0.50	0.29
106-93-4	1,2-Dibromoethane	19.0		1.0	0.25	0.24
75-00-3	Chloroethane	18.0		1.0	0.50	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: 079-0007-0001-SOURCEWATER Lab Sample ID: 240-21987-1 MS

Matrix: Water Lab File ID: UX129324.D

Analysis Method: 8260B/DoD Date Collected: 03/14/2013 12:00

Sample wt/vol: 5(mL) Date Analyzed: 03/28/2013 13:33

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.: 79725 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	110		85-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-120
460-00-4	4-Bromofluorobenzene (Surr)	106		75-120
1868-53-7	Dibromofluoromethane (Surr)	109		85-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129324.D
Lims ID: 240-21987-B-1 MS Client ID:
Inject. Date: 28-Mar-2013 13:33:30 Dil. Factor: 1.0000
Sample Type: MS
Sample ID: 240-0018335-012
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 12
Lims Batch ID: 79725 Lims Sample ID: 12
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\8260_12.m
Last Update: 29-Mar-2013 09:09:26 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK001

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.334	5.334	0.0	99	1627644	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	85	1231680	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.244	10.232	0.012	88	589773	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.766	4.766	0.0	55	385580	21.8	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.050	5.050	0.0	89	449008	21.1	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	83	1618383	22.0	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	87	570742	21.2	
137 Benzyl chloride	126		0.000					
149 1,3-Diethylbenzene TIC	1		0.000					
143 1,4-Dichlorobutane	1		0.000					
147 C6-C12	1		0.000					
146 Butyl Methacrylate TIC	1		0.000					
148 C6-C10	1		0.000					
142 Chlorodifluoromethane TIC	1		0.000					
12 Dichlorodifluoromethane	85	1.642	1.642	0.0	87	375703	16.0	
13 Chloromethane	50	1.795	1.795	0.0	88	536647	17.5	
14 Vinyl chloride	62	1.902	1.902	0.0	96	575681	18.5	
15 Bromomethane	94	2.198	2.198	0.0	90	298383	15.7	
16 Chloroethane	64	2.292	2.304	-0.012	97	384150	18.0	
17 Dichlorofluoromethane	67		2.458					
18 Trichlorofluoromethane	101	2.517	2.517	0.0	85	574889	19.4	
19 Ethyl ether	59	2.718	2.718	0.0	88	330115	24.1	
20 Acrolein	56	2.837	2.837	0.0	92	198441	61.8	
25 Methylal	45		2.856					9
22 Acetone	43	2.955	2.955	0.0	34	159743	32.0	
21 1,1-Dichloroethene	61	2.955	2.955	0.0	90	739370	19.6	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.955	2.955	0.0	58	386519	19.6	
24 Iodomethane	142	3.109	3.109	0.0	96	717694	20.2	
26 Carbon disulfide	76	3.156	3.156	0.0	98	1451547	19.3	
27 Acetonitrile	41	3.192	3.192	0.0	98	124809	53.0	
28 Methyl acetate	43	3.227	3.227	0.0	90	279657	19.8	
29 3-Chloro-1-propene	76		3.227					9

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
30 Methylene Chloride	49	3.357	3.369	-0.012	85	579869	18.7	
31 2-Methyl-2-propanol	59	3.393	3.393	0.0	98	494896	277.7	
32 Acrylonitrile	53	3.523	3.523	0.0	99	393509	52.5	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	87	1035318	18.0	
33 trans-1,2-Dichloroethene	61	3.547	3.559	-0.012	92	533622	18.5	
35 Hexane	57	3.772	3.772	0.0	90	312222	19.1	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	99	668130	19.9	
37 Vinyl acetate	86	3.925	3.925	0.0	95	70220	17.0	
38 Isopropyl ether	87	3.937	3.937	0.0	88	340495	22.1	
39 2-Chloro-1,3-butadiene	53		3.973					
40 Tert-butyl ethyl ether	59		4.233					
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	69	540272	20.0	
43 2,2-Dichloropropane	77	4.387	4.375	0.012	60	254512	23.1	
41 2-Butanone (MEK)	72	4.375	4.375	0.0	59	82815	39.4	
45 Ethyl acetate	43		4.411					9
44 Propionitrile	54		4.434					
46 Methacrylonitrile	41		4.553					9
47 Chlorobromomethane	49	4.576	4.576	0.0	90	351893	24.1	
48 Tetrahydrofuran	42	4.612	4.612	0.0	87	86895	16.8	
49 Chloroform	83	4.635	4.624	0.011	81	631984	19.9	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	90	418929	22.3	
51 Cyclohexane	56	4.848	4.860	-0.012	84	505379	19.5	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	96	498331	21.2	
53 Carbon tetrachloride	117	4.931	4.943	-0.012	37	318288	25.1	
54 Isobutyl alcohol	41	4.979	4.979	0.0	92	278944	663.8	
55 Benzene	78	5.109	5.109	0.0	94	1550355	19.5	
56 1,2-Dichloroethane	62	5.109	5.109	0.0	86	469664	20.8	
57 Tert-amyl methyl ether	73		5.180					9
58 n-Heptane	100		5.298					
59 n-Butanol	56		5.535					
61 Ethyl acrylate	55		5.605					
60 Trichloroethene	130	5.641	5.641	0.0	93	375221	20.1	
63 Methylcyclohexane	55	5.807	5.807	0.0	87	307899	18.8	
62 1,2-Dichloropropane	63	5.831	5.830	0.001	96	370368	19.4	
64 Methyl methacrylate	41	5.819	5.890	-0.071	50	344201	24.2	
66 1,4-Dioxane	88	5.937	5.937	0.0	1	936	4.35	
65 Dibromomethane	174	5.937	5.937	0.0	87	228147	21.6	
67 Dichlorobromomethane	83	6.055	6.055	0.0	97	427486	19.8	
68 2-Nitropropane	41	6.233	6.245	-0.012	10	1428	0.4583	
69 2-Chloroethyl vinyl ether	63		6.292					
70 cis-1,3-Dichloropropene	75	6.434	6.434	0.0	90	536575	18.5	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	93	524721	32.9	
72 Toluene	91	6.742	6.742	0.0	91	1596249	20.2	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	92	469000	20.2	
74 Ethyl methacrylate	69		6.978					
75 1,1,2-Trichloroethane	97	7.097	7.097	0.0	85	325971	18.6	
77 Tetrachloroethene	166	7.239	7.239	0.0	96	295890	21.3	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	87	637741	19.9	
80 Tetrahydrothiophene	60		7.255					9
78 2-Hexanone	43	7.298	7.298	0.0	92	376845	37.1	
136 n-Butyl acetate	43		7.404					9
79 Chlorodibromomethane	129	7.463	7.463	0.0	84	292193	19.8	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
123 Ethylene Dibromide	107	7.570	7.570	0.0	98	314451	19.0	
81 1-Chlorohexane	91		7.996					9
82 Chlorobenzene	112	8.020	8.020	0.0	93	1031613	19.6	
83 1,1,1,2-Tetrachloroethane	131	8.091	8.091	0.0	81	272944	20.0	
84 Ethylbenzene	106	8.114	8.114	0.0	98	509381	19.9	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	97	1281707	40.0	
85 o-Xylene	106	8.599	8.599	0.0	90	621173	18.7	
86 Styrene	104	8.611	8.611	0.0	92	1157301	20.5	
87 Bromoform	173	8.801	8.801	0.0	92	153415	18.4	
88 Isopropylbenzene	105	8.954	8.954	0.0	95	1443821	20.7	
89 Cyclohexanone	55	9.049	9.049	0.0	88	232632	158.5	
90 1,1,2,2-Tetrachloroethane	83	9.227	9.227	0.0	97	455963	18.4	
91 Bromobenzene	156	9.262	9.262	0.0	92	406654	19.5	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	71	152774	19.2	
93 trans-1,4-Dichloro-2-butene	53	9.286	9.286	0.0	67	184114	33.5	
94 N-Propylbenzene	120	9.345	9.345	0.0	96	371278	19.5	
95 2-Chlorotoluene	126	9.440	9.440	0.0	95	344352	19.6	
96 1,3,5-Trimethylbenzene	105	9.522	9.511	0.011	94	1198557	20.0	
104 4-Chlorotoluene	126	9.546	9.546	0.0	97	391731	20.8	
97 tert-Butylbenzene	119	9.842	9.842	0.0	83	1031301	20.1	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	72	1259338	20.2	
99 sec-Butylbenzene	105	10.055	10.055	0.0	93	1444366	19.6	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	99	716222	19.2	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	94	1278454	20.4	
102 1,4-Dichlorobenzene	146	10.256	10.256	0.0	92	750229	19.6	
103 1,2,3-Trimethylbenzene	105	10.303	10.303	0.0	87	1320045	18.9	
105 n-Butylbenzene	91	10.599	10.599	0.0	94	1125151	19.9	
106 1,2-Dichlorobenzene	146	10.635	10.635	0.0	95	715800	18.6	
107 1,2-Dibromo-3-Chloropropane	157	11.416	11.404	0.012	77	70156	17.7	
108 1,3,5-Trichlorobenzene	180		11.617					
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	91	409840	18.6	
110 Hexachlorobutadiene	225	12.410	12.410	0.0	92	161452	16.6	
111 Naphthalene	128	12.492	12.492	0.0	97	1119703	17.1	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	93	370284	17.9	
113 2-Methylnaphthalene	142		13.830					
S 145 Trihalomethanes, Total	1				0		77.8	
S 11 1,2-Dichloroethene, Total	96				0		38.4	
S 9 1,3-Dichloropropene, Total	75				0		38.7	
S 114 Xylenes, Total	106				0		58.7	
T 144 Hexachloroethane TIC	166		10.910					1

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

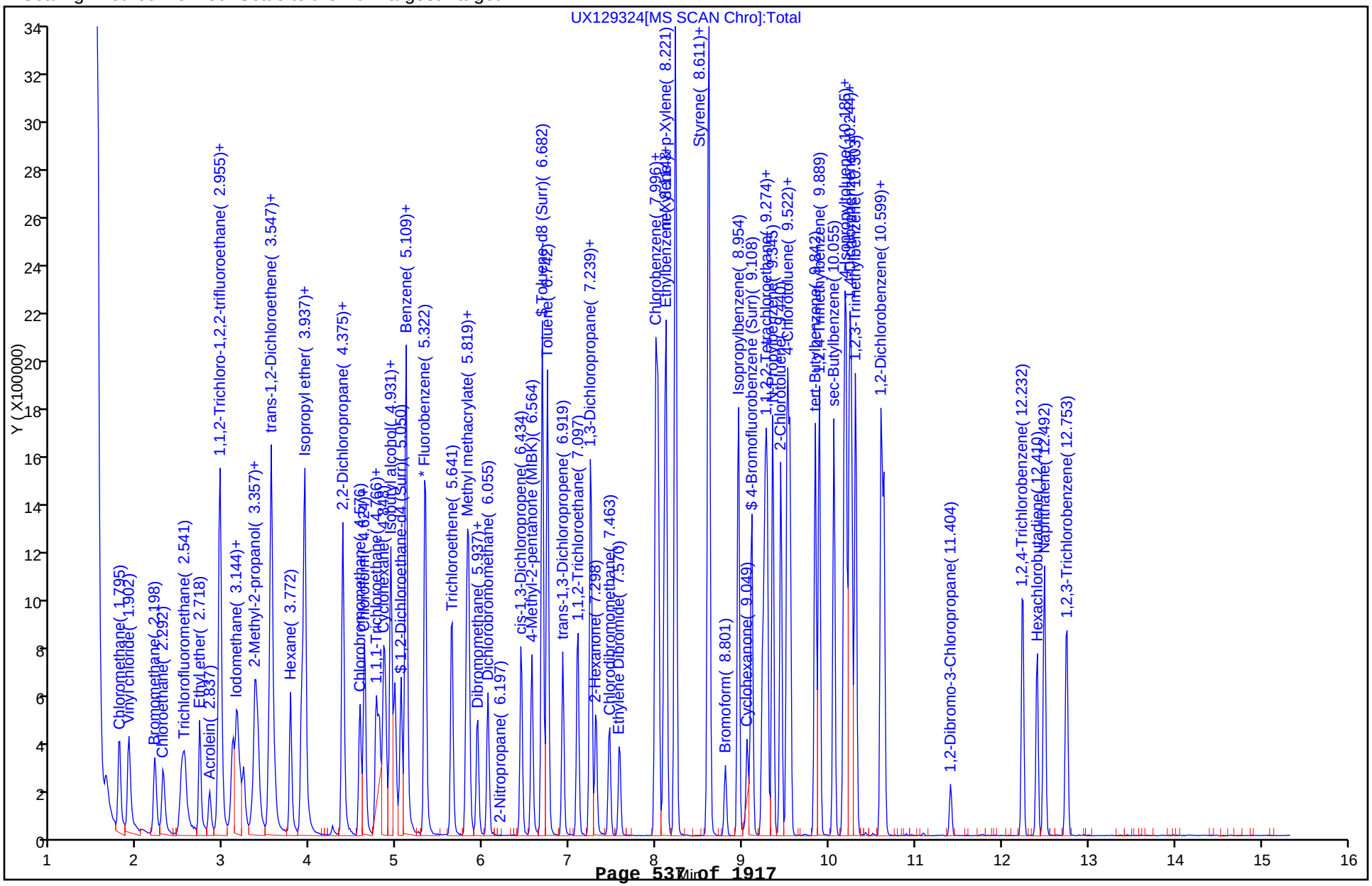
Report Date: 29-Mar-2013 09:09:32 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129324.D

Injection Date:	28-Mar-2013 13:33:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	79725	Lims Sample ID:	12
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: 079-0007-0001-SOURCEWATER | Lab Sample ID: 240-21987-1 MSD

Matrix: Water | Lab File ID: UX129325.D

Analysis Method: 8260B/DoD | Date Collected: 03/14/2013 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 03/28/2013 13:59

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.: 79725 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	22.1		1.0	0.25	0.22
79-34-5	1,1,2,2-Tetrachloroethane	18.7		1.0	0.25	0.18
79-00-5	1,1,2-Trichloroethane	18.6		1.0	0.50	0.27
75-34-3	1,1-Dichloroethane	18.9		1.0	0.25	0.15
75-35-4	1,1-Dichloroethene	18.9		1.0	0.25	0.19
107-06-2	1,2-Dichloroethane	20.1		1.0	0.25	0.22
540-59-0	1,2-Dichloroethene, Total	36.8		2.0	0.50	0.34
78-87-5	1,2-Dichloropropane	18.7		1.0	0.25	0.18
78-93-3	2-Butanone (MEK)	38.1		10	0.57	0.57
591-78-6	2-Hexanone	36.1		10	0.50	0.41
108-10-1	4-Methyl-2-pentanone (MIBK)	33.6		10	0.50	0.32
67-64-1	Acetone	35.0		10	1.1	1.1
71-43-2	Benzene	18.8		1.0	0.25	0.13
75-25-2	Bromoform	19.1		1.0	0.64	0.64
74-83-9	Bromomethane	15.6		1.0	0.50	0.41
75-15-0	Carbon disulfide	18.9		1.0	0.25	0.13
56-23-5	Carbon tetrachloride	25.6		1.0	0.25	0.13
108-90-7	Chlorobenzene	19.2		1.0	0.25	0.15
74-87-3	Chloromethane	17.5		1.0	0.50	0.30
10061-01-5	cis-1,3-Dichloropropene	18.5		1.0	0.25	0.14
124-48-1	Dibromochloromethane	19.4		1.0	0.25	0.18
75-27-4	Bromodichloromethane	19.8		1.0	0.25	0.15
100-41-4	Ethylbenzene	19.6		1.0	0.25	0.17
1634-04-4	Methyl tert-butyl ether	17.9		1.0	0.25	0.17
75-09-2	Methylene Chloride	18.0		1.0	0.50	0.33
100-42-5	Styrene	20.2		1.0	0.25	0.11
127-18-4	Tetrachloroethene	20.1		1.0	0.50	0.29
108-88-3	Toluene	20.2		1.0	0.25	0.13
10061-02-6	trans-1,3-Dichloropropene	20.3		1.0	0.25	0.19
79-01-6	Trichloroethene	19.1		1.0	0.25	0.17
75-01-4	Vinyl chloride	18.2		1.0	0.25	0.22
1330-20-7	Xylenes, Total	58.1		2.0	0.75	0.28
67-66-3	Chloroform	18.5		1.0	0.25	0.16
74-97-5	Bromochloromethane	22.5		1.0	0.50	0.29
106-93-4	1,2-Dibromoethane	19.6		1.0	0.25	0.24
75-00-3	Chloroethane	17.6		1.0	0.50	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: 079-0007-0001-SOURCEWATER Lab Sample ID: 240-21987-1 MSD

Matrix: Water Lab File ID: UX129325.D

Analysis Method: 8260B/DoD Date Collected: 03/14/2013 12:00

Sample wt/vol: 5(mL) Date Analyzed: 03/28/2013 13:59

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.: 79725 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	108		85-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-120
460-00-4	4-Bromofluorobenzene (Surr)	107		75-120
1868-53-7	Dibromofluoromethane (Surr)	107		85-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129325.D
Lims ID: 240-21987-A-1 MSD Client ID:
Inject. Date: 28-Mar-2013 13:59:30 Dil. Factor: 1.0000
Sample Type: MSD
Sample ID: 240-0018335-013
Misc. Info.:
Operator: 1904 Instrument ID: A3UX12
Purge Vol: 5.000 mL ALS Bottle#: 13
Lims Batch ID: 79725 Lims Sample ID: 13
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\8260_12.m
Last Update: 29-Mar-2013 09:09:26 Calib Date: 19-Mar-2013 21:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20130319-18085.b\UX129109.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK001

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.322	5.334	-0.012	99	1691181	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	85	1249220	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.232	10.232	0.0	91	583325	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.765	4.766	-0.001	57	392354	21.3	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.049	5.050	-0.001	83	448823	20.3	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	82	1613179	21.6	
$ 131 4-Bromofluorobenzene (Surr)	95	9.108	9.108	0.0	86	581503	21.3	
137 Benzyl chloride	126		0.000					
149 1,3-Diethylbenzene TIC	1		0.000					
143 1,4-Dichlorobutane	1		0.000					
147 C6-C12	1		0.000					
146 Butyl Methacrylate TIC	1		0.000					
148 C6-C10	1		0.000					
142 Chlorodifluoromethane TIC	1		0.000					
12 Dichlorodifluoromethane	85	1.642	1.642	0.0	94	377215	15.4	
13 Chloromethane	50	1.795	1.795	0.0	99	556519	17.5	
14 Vinyl chloride	62	1.902	1.902	0.0	83	587832	18.2	
15 Bromomethane	94	2.198	2.198	0.0	88	309132	15.6	
16 Chloroethane	64	2.304	2.304	0.0	94	390121	17.6	
17 Dichlorofluoromethane	67		2.458					
18 Trichlorofluoromethane	101	2.517	2.517	0.0	97	591354	19.2	
19 Ethyl ether	59	2.718	2.718	0.0	89	331913	23.3	
20 Acrolein	56	2.837	2.837	0.0	94	206479	61.9	
25 Methylal	45		2.856					9
22 Acetone	43	2.955	2.955	0.0	36	180637	35.0	
21 1,1-Dichloroethene	61	2.955	2.955	0.0	90	741515	18.9	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.955	2.955	0.0	57	407818	19.9	
24 Iodomethane	142	3.109	3.109	0.0	97	715757	19.3	
26 Carbon disulfide	76	3.156	3.156	0.0	98	1479731	18.9	
27 Acetonitrile	41	3.192	3.192	0.0	95	122481	50.0	
28 Methyl acetate	43	3.227	3.227	0.0	90	274615	18.7	
29 3-Chloro-1-propene	76		3.227					9

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
30 Methylene Chloride	49	3.357	3.369	-0.012	87	579184	18.0	
31 2-Methyl-2-propanol	59	3.393	3.393	0.0	97	529991	285.9	
32 Acrylonitrile	53	3.523	3.523	0.0	97	387277	49.7	
34 Methyl tert-butyl ether	73	3.547	3.547	0.0	87	1067963	17.9	
33 trans-1,2-Dichloroethene	61	3.547	3.559	-0.012	86	546211	18.2	
35 Hexane	57	3.771	3.772	-0.001	90	333119	19.6	
36 1,1-Dichloroethane	63	3.902	3.902	0.0	99	660613	18.9	
37 Vinyl acetate	86	3.925	3.925	0.0	95	66356	15.5	
38 Isopropyl ether	87	3.937	3.937	0.0	88	349134	21.8	
39 2-Chloro-1,3-butadiene	53		3.973					
40 Tert-butyl ethyl ether	59		4.233					
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	67	523155	18.6	
43 2,2-Dichloropropane	77	4.375	4.375	0.0	52	259068	22.7	
41 2-Butanone (MEK)	72	4.375	4.375	0.0	60	83218	38.1	
45 Ethyl acetate	43		4.411					9
44 Propionitrile	54		4.434					
46 Methacrylonitrile	41		4.553					9
47 Chlorobromomethane	49	4.576	4.576	0.0	88	341535	22.5	
48 Tetrahydrofuran	42	4.612	4.612	0.0	80	86638	16.1	
49 Chloroform	83	4.623	4.624	-0.001	82	609314	18.5	
50 1,1,1-Trichloroethane	97	4.801	4.801	0.0	87	430315	22.1	
51 Cyclohexane	56	4.848	4.860	-0.012	84	513137	19.0	
52 1,1-Dichloropropene	75	4.931	4.931	0.0	95	485726	19.9	
53 Carbon tetrachloride	117	4.943	4.943	0.0	62	336224	25.6	
54 Isobutyl alcohol	41	4.978	4.979	-0.001	91	328332	770.4	
55 Benzene	78	5.109	5.109	0.0	94	1552081	18.8	
56 1,2-Dichloroethane	62	5.109	5.109	0.0	86	472657	20.1	
57 Tert-amyl methyl ether	73		5.180					9
58 n-Heptane	100		5.298					
59 n-Butanol	56		5.535					
61 Ethyl acrylate	55		5.605					
60 Trichloroethene	130	5.641	5.641	0.0	93	371633	19.1	
63 Methylcyclohexane	55	5.807	5.807	0.0	89	316695	18.6	
62 1,2-Dichloropropane	63	5.830	5.830	0.0	93	370649	18.7	
64 Methyl methacrylate	41	5.830	5.890	-0.060	44	356192	24.1	
66 1,4-Dioxane	88		5.937					
65 Dibromomethane	174	5.937	5.937	0.0	88	214513	19.5	
67 Dichlorobromomethane	83	6.055	6.055	0.0	94	444063	19.8	
68 2-Nitropropane	41	6.233	6.245	-0.012	43	1485	0.4587	
69 2-Chloroethyl vinyl ether	63		6.292					
70 cis-1,3-Dichloropropene	75	6.434	6.434	0.0	90	557222	18.5	
71 4-Methyl-2-pentanone (MIBK)	43	6.564	6.564	0.0	94	556893	33.6	
72 Toluene	91	6.742	6.742	0.0	98	1618501	20.2	
73 trans-1,3-Dichloropropene	75	6.919	6.919	0.0	93	478071	20.3	
74 Ethyl methacrylate	69		6.978					
75 1,1,2-Trichloroethane	97	7.096	7.097	-0.001	84	331219	18.6	
77 Tetrachloroethene	166	7.238	7.239	-0.001	91	282742	20.1	
76 1,3-Dichloropropane	76	7.250	7.250	0.0	87	621992	19.1	
80 Tetrahydrothiophene	60		7.255					9
78 2-Hexanone	43	7.298	7.298	0.0	91	372768	36.1	
136 n-Butyl acetate	43		7.404					9
79 Chlorodibromomethane	129	7.463	7.463	0.0	85	289503	19.4	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
123 Ethylene Dibromide	107	7.570	7.570	0.0	96	329338	19.6	
81 1-Chlorohexane	91		7.996					9
82 Chlorobenzene	112	8.019	8.020	-0.001	91	1027679	19.2	
83 1,1,1,2-Tetrachloroethane	131	8.090	8.091	-0.001	83	288555	20.9	
84 Ethylbenzene	106	8.114	8.114	0.0	98	508781	19.6	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	96	1263711	38.9	
85 o-Xylene	106	8.599	8.599	0.0	91	647369	19.2	
86 Styrene	104	8.611	8.611	0.0	92	1155898	20.2	
87 Bromoform	173	8.800	8.801	-0.001	95	161715	19.1	
88 Isopropylbenzene	105	8.954	8.954	0.0	95	1448913	20.5	
89 Cyclohexanone	55	9.049	9.049	0.0	89	229762	158.3	
90 1,1,2,2-Tetrachloroethane	83	9.226	9.227	-0.001	99	457560	18.7	
91 Bromobenzene	156	9.262	9.262	0.0	92	408805	19.8	
92 1,2,3-Trichloropropane	110	9.286	9.286	0.0	69	151336	19.2	
93 trans-1,4-Dichloro-2-butene	53	9.286	9.286	0.0	69	177695	32.7	
94 N-Propylbenzene	120	9.345	9.345	0.0	97	367625	19.6	
95 2-Chlorotoluene	126	9.439	9.440	-0.001	96	361853	20.8	
96 1,3,5-Trimethylbenzene	105	9.522	9.511	0.011	78	1195477	20.1	
104 4-Chlorotoluene	126	9.546	9.546	0.0	98	383162	20.5	
97 tert-Butylbenzene	119	9.842	9.842	0.0	87	1019704	20.1	
98 1,2,4-Trimethylbenzene	105	9.889	9.889	0.0	70	1277091	20.8	
99 sec-Butylbenzene	105	10.055	10.055	0.0	93	1525228	21.0	
100 1,3-Dichlorobenzene	146	10.173	10.173	0.0	98	739081	20.0	
101 4-Isopropyltoluene	119	10.197	10.197	0.0	91	1356778	21.8	
102 1,4-Dichlorobenzene	146	10.256	10.256	0.0	90	774113	20.4	
103 1,2,3-Trimethylbenzene	105	10.303	10.303	0.0	91	1365085	19.7	
105 n-Butylbenzene	91	10.599	10.599	0.0	95	1167293	20.9	
106 1,2-Dichlorobenzene	146	10.635	10.635	0.0	97	724393	19.0	
107 1,2-Dibromo-3-Chloropropane	157	11.404	11.404	0.0	73	70726	18.1	
108 1,3,5-Trichlorobenzene	180		11.617					
109 1,2,4-Trichlorobenzene	180	12.244	12.244	0.0	92	407836	18.7	
110 Hexachlorobutadiene	225	12.409	12.410	-0.001	93	181359	18.9	
111 Naphthalene	128	12.492	12.492	0.0	97	1162236	17.9	
112 1,2,3-Trichlorobenzene	180	12.753	12.753	0.0	93	374776	18.3	
113 2-Methylnaphthalene	142		13.830					
S 145 Trihalomethanes, Total	1				0		76.6	
S 11 1,2-Dichloroethene, Total	96				0		36.8	
S 9 1,3-Dichloropropene, Total	75				0		38.8	
S 114 Xylenes, Total	106				0		58.1	
T 144 Hexachloroethane TIC	166	10.907	10.910	-0.003	0	921	0	

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

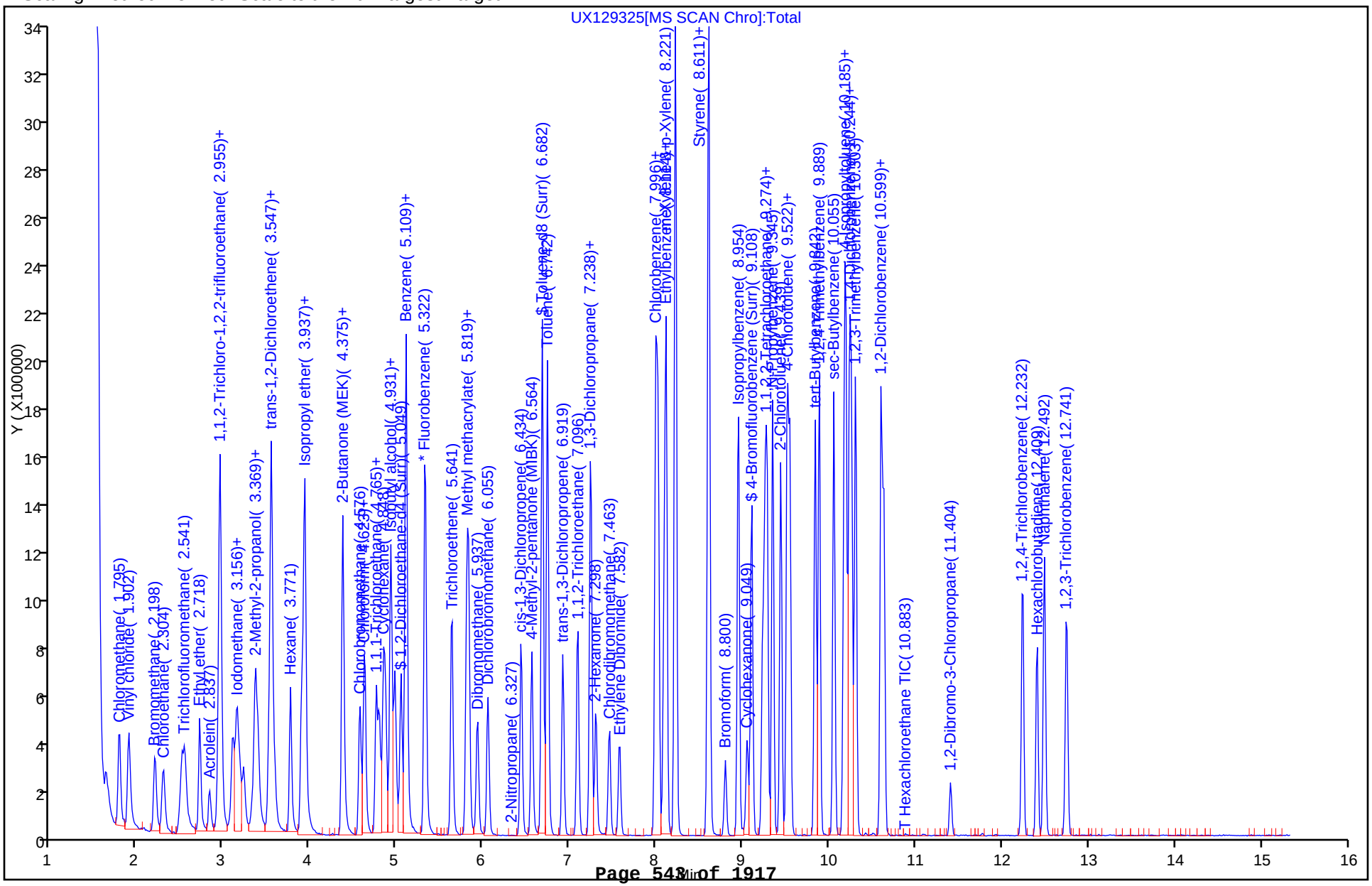
Report Date: 29-Mar-2013 09:09:32 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20130328-18335.b\UX129325.D

Injection Date:	28-Mar-2013 13:59:30	Limit Group:	MSV 8260DOD ICAL
Client ID:		Instrument ID:	A3UX12
Lims Batch ID:	79725	Lims Sample ID:	13
Operator ID:	1904	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: A3UX12 Start Date: 03/19/2013 17:39

Analysis Batch Number: 78761 End Date: 03/19/2013 21:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-78761/32		03/19/2013 17:39	1	BFB2145.D	DB-624 0.18(mm)
STD8260 240-78761/3 IC		03/19/2013 18:52	1	UX129104.D	DB-624 0.18(mm)
STD8260 240-78761/4 IC		03/19/2013 19:19	1	UX129105.D	DB-624 0.18(mm)
STD8260 240-78761/5 IC		03/19/2013 19:45	1	UX129106.D	DB-624 0.18(mm)
STD8260 240-78761/6 ICIS		03/19/2013 20:12	1	UX129107.D	DB-624 0.18(mm)
STD8260 240-78761/7 IC		03/19/2013 20:38	1	UX129108.D	DB-624 0.18(mm)
STD8260 240-78761/8 IC		03/19/2013 21:04	1	UX129109.D	DB-624 0.18(mm)
ICV 240-78761/9		03/19/2013 21:32	1	UX129110.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: A3UX12 Start Date: 03/28/2013 08:11

Analysis Batch Number: 79725 End Date: 03/28/2013 15:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-79725/1		03/28/2013 08:11	1	BFB2151.D	DB-624 0.18(mm)
CCV 240-79725/2		03/28/2013 09:36	1	UX129315.D	DB-624 0.18(mm)
LCS 240-79725/4		03/28/2013 10:02	1	UX129316.D	DB-624 0.18(mm)
MRL 240-79725/5		03/28/2013 10:29	1	UX129317.D	DB-624 0.18(mm)
MB 240-79725/6		03/28/2013 10:55	1	UX129318.D	DB-624 0.18(mm)
240-21987-1	079-0007-0001-SOURCEWATER	03/28/2013 11:21	1	UX129319.D	DB-624 0.18(mm)
240-21987-2	079-0008-0001-TB TRIP BLANK	03/28/2013 11:47	1	UX129320.D	DB-624 0.18(mm)
ZZZZZ		03/28/2013 12:14	1		DB-624 0.18(mm)
ZZZZZ		03/28/2013 12:40	1		DB-624 0.18(mm)
ZZZZZ		03/28/2013 13:07	1		DB-624 0.18(mm)
240-21987-1 MS	079-0007-0001-SOURCEWATER MS	03/28/2013 13:33	1	UX129324.D	DB-624 0.18(mm)
240-21987-1 MSD	079-0007-0001-SOURCEWATER MSD	03/28/2013 13:59	1	UX129325.D	DB-624 0.18(mm)
MRL 240-79725/14		03/28/2013 14:26	1	UX129326.D	DB-624 0.18(mm)
LODV 240-79725/16		03/28/2013 15:19	1	UX129328.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.: 240-21987-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RXI-5SILMS ID: 0.45 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
079-0007-0001-SOUR CEWATER	240-21987-1	55	59	68	64	52	93
	MB 240-78456/17-A	57	59	69	63	50	93
	LCS 240-78456/18-A	67	68	84	74	62	91

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	20-110
PHL = Phenol-d5 (Surr)	10-115
NBZ = Nitrobenzene-d5 (Surr)	40-110
FBP = 2-Fluorobiphenyl (Surr)	50-110
TBP = 2,4,6-Tribromophenol (Surr)	40-125
TPH = Terphenyl-d14 (Surr)	50-135

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.: 240-21987-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RXI-5SILMS ID: 0.45 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
	MRL 240-79745/3	94	96	96	96	99	94
	MRL 240-79745/7	94	97	96	92	91	95

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	50-150
PHL = Phenol-d5 (Surr)	50-150
NBZ = Nitrobenzene-d5 (Surr)	50-150
FBP = 2-Fluorobiphenyl (Surr)	70-130
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.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 30328005.D

Lab ID: LCS 240-78456/18-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	20.0	16.6	83	45-110	
Acenaphthylene	20.0	16.7	84	50-105	
Anthracene	20.0	17.5	87	55-110	
Benzo[a]anthracene	20.0	17.9	89	55-110	
Benzo[a]pyrene	20.0	13.4	67	55-110	
Benzo[b]fluoranthene	20.0	18.4	92	45-120	
Benzo[g,h,i]perylene	20.0	18.8	94	40-125	
Benzoic acid	20.0	13.1 J	66	0-125	
Benzo[k]fluoranthene	20.0	18.3	92	45-125	
Benzyl alcohol	20.0	13.7	69	30-110	
Bis(2-chloroethoxy)methane	20.0	16.2	81	45-105	
Bis(2-chloroethyl)ether	20.0	16.2	81	35-110	
bis (2-chloroisopropyl) ether	20.0	15.5	77	25-130	
Bis(2-ethylhexyl) phthalate	20.0	15.6	78	40-125	
4-Bromophenyl phenyl ether	20.0	15.7	78	50-115	
Butyl benzyl phthalate	20.0	16.9	84	45-115	
Carbazole	20.0	16.9	85	50-115	
4-Chloroaniline	20.0	14.3	71	15-110	
4-Chloro-3-methylphenol	20.0	13.7	68	45-110	
2-Chloronaphthalene	20.0	15.2	76	50-105	
2-Chlorophenol	20.0	13.4	67	35-105	
4-Chlorophenyl phenyl ether	20.0	16.3	81	50-110	
Chrysene	20.0	18.6	93	55-110	
Dibenz(a,h)anthracene	20.0	19.4	97	40-125	
Dibenzofuran	20.0	16.7	84	55-105	
1,2-Dichlorobenzene	20.0	13.8	69	35-100	
1,3-Dichlorobenzene	20.0	13.1	66	30-100	
1,4-Dichlorobenzene	20.0	11.0	55	30-100	
3,3'-Dichlorobenzidine	20.0	7.12	36	20-110	
2,4-Dichlorophenol	20.0	13.7	68	50-105	
Diethyl phthalate	20.0	17.2	86	40-120	
2,4-Dimethylphenol	20.0	8.22	41	30-110	
Dimethyl phthalate	20.0	17.3	87	25-125	
Di-n-butyl phthalate	20.0	17.0	85	55-115	
4,6-Dinitro-2-methylphenol	20.0	12.9	65	40-130	
2,4-Dinitrophenol	20.0	15.7	79	15-140	
2,4-Dinitrotoluene	20.0	15.9	80	50-120	
2,6-Dinitrotoluene	20.0	16.6	83	50-115	
Di-n-octyl phthalate	20.0	17.1	86	35-135	
Fluoranthene	20.0	17.3	87	55-115	
Fluorene	20.0	17.0	85	50-110	
Hexachlorobenzene	20.0	15.7	79	50-110	

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.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 30328005.D

Lab ID: LCS 240-78456/18-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Hexachlorobutadiene	20.0	12.2	61	25-105	
Hexachloroethane	20.0	12.8	64	30-95	
Indeno[1,2,3-cd]pyrene	20.0	17.9	90	45-125	
Isophorone	20.0	17.2	86	50-110	
2-Methylnaphthalene	20.0	16.8	84	45-105	
2-Methylphenol	20.0	13.1	66	40-110	
3 & 4 Methylphenol	40.0	26.8	67	30-110	
Naphthalene	20.0	16.2	81	40-100	
2-Nitroaniline	20.0	14.9	75	50-115	
3-Nitroaniline	20.0	14.8	74	20-125	
4-Nitroaniline	20.0	15.2	76	35-120	
Nitrobenzene	20.0	16.6	83	45-110	
2-Nitrophenol	20.0	12.8	64	40-115	
4-Nitrophenol	20.0	13.0	65	0-125	
N-Nitrosodi-n-propylamine	20.0	14.9	75	35-130	
N-Nitrosodiphenylamine	20.0	14.8	74	50-110	
Pentachlorophenol	20.0	13.8	69	40-115	
Phenanthrene	20.0	16.8	84	50-115	
Phenol	20.0	13.4	67	0-115	
Pyrene	20.0	17.5	87	50-130	
1,2,4-Trichlorobenzene	20.0	13.7	69	35-105	
2,4,5-Trichlorophenol	20.0	13.4	67	50-110	
2,4,6-Trichlorophenol	20.0	13.9	70	50-115	

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.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 30328003.D

Lab ID: MRL 240-79745/3 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Acenaphthene	5.00	4.88	98	70-130	
Acenaphthylene	5.00	5.09	102	70-130	
Anthracene	5.00	5.00	100	70-130	
Benzo[a]anthracene	5.00	4.90	98	70-130	
Benzo[a]pyrene	5.00	4.37	87	70-130	
Benzo[b]fluoranthene	5.00	4.82	96	70-130	
Benzo[g,h,i]perylene	5.00	4.74	95	70-130	
Benzoic acid	10.0	10.2	102	70-130	
Benzo[k]fluoranthene	5.00	4.74	95	70-130	
Benzyl alcohol	5.00	4.82	96	70-130	
Bis(2-chloroethoxy)methane	5.00	4.80	96	70-130	
Bis(2-chloroethyl)ether	5.00	4.76	95	70-130	
bis (2-chloroisopropyl) ether	5.00	4.57	91	70-130	
Bis(2-ethylhexyl) phthalate	5.00	4.59	92	70-130	
4-Bromophenyl phenyl ether	5.00	4.76	95	70-130	
Butyl benzyl phthalate	5.00	4.40	88	70-130	
Carbazole	5.00	4.79	96	70-130	
4-Chloroaniline	5.00	4.76	95	70-130	
4-Chloro-3-methylphenol	5.00	4.97	99	70-130	
2-Chloronaphthalene	5.00	4.85	97	70-130	
2-Chlorophenol	5.00	4.73	95	70-130	
4-Chlorophenyl phenyl ether	5.00	4.88	98	70-130	
Chrysene	5.00	4.72	94	70-130	
Dibenz(a,h)anthracene	5.00	4.88	98	70-130	
Dibenzofuran	5.00	4.87	97	70-130	
1,2-Dichlorobenzene	5.00	4.75	95	70-130	
1,3-Dichlorobenzene	5.00	4.69	94	70-130	
1,4-Dichlorobenzene	5.00	4.67	93	70-130	
3,3'-Dichlorobenzidine	5.00	4.71	94	70-130	
2,4-Dichlorophenol	5.00	4.90	98	70-130	
Diethyl phthalate	5.00	4.85	97	70-130	
2,4-Dimethylphenol	5.00	4.89	98	70-130	
Dimethyl phthalate	5.00	4.97	99	70-130	
Di-n-butyl phthalate	5.00	4.55	91	70-130	
4,6-Dinitro-2-methylphenol	5.00	5.08	102	70-130	
2,4-Dinitrophenol	10.0	11.0	110	70-130	
2,4-Dinitrotoluene	5.00	4.79	96	70-130	
2,6-Dinitrotoluene	5.00	4.63	93	70-130	
Di-n-octyl phthalate	5.00	4.83	97	70-130	
Fluoranthene	5.00	4.85	97	70-130	
Fluorene	5.00	4.86	97	70-130	
Hexachlorobenzene	5.00	4.67	93	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.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 30328003.D

Lab ID: MRL 240-79745/3 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Hexachlorobutadiene	5.00	4.92	98	70-130	
Hexachloroethane	5.00	4.65	93	70-130	
Indeno[1,2,3-cd]pyrene	5.00	4.87	97	70-130	
Isophorone	5.00	4.92	98	70-130	
2-Methylnaphthalene	5.00	4.78	96	70-130	
2-Methylphenol	5.00	4.77	95	70-130	
3 & 4 Methylphenol	5.00	4.77	95	70-130	
Naphthalene	5.00	4.74	95	70-130	
2-Nitroaniline	5.00	4.73	95	70-130	
3-Nitroaniline	5.00	4.90	98	70-130	
4-Nitroaniline	5.00	4.93	99	70-130	
Nitrobenzene	5.00	4.96	99	70-130	
2-Nitrophenol	5.00	4.53	91	70-130	
4-Nitrophenol	5.00	4.87	97	70-130	
N-Nitrosodi-n-propylamine	5.00	5.02	100	70-130	
N-Nitrosodiphenylamine	5.00	5.00	100	70-130	
Pentachlorophenol	10.0	9.30	93	70-130	
Phenanthrene	5.00	4.71	94	70-130	
Phenol	5.00	4.74	95	70-130	
Pyrene	5.00	4.84	97	70-130	
1,2,4-Trichlorobenzene	5.00	4.72	94	70-130	
2,4,5-Trichlorophenol	5.00	4.98	100	70-130	
2,4,6-Trichlorophenol	5.00	5.06	101	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.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 30328007.D

Lab ID: MRL 240-79745/7 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Acenaphthene	5.00	4.70	94	70-130	
Acenaphthylene	5.00	4.85	97	70-130	
Anthracene	5.00	4.91	98	70-130	
Benzo[a]anthracene	5.00	4.83	97	70-130	
Benzo[a]pyrene	5.00	4.27	85	70-130	
Benzo[b]fluoranthene	5.00	4.67	93	70-130	
Benzo[g,h,i]perylene	5.00	4.81	96	70-130	
Benzoic acid	10.0	10.5	105	70-130	
Benzo[k]fluoranthene	5.00	4.92	98	70-130	
Benzyl alcohol	5.00	4.73	95	70-130	
Bis(2-chloroethoxy)methane	5.00	4.85	97	70-130	
Bis(2-chloroethyl)ether	5.00	4.63	93	70-130	
bis (2-chloroisopropyl) ether	5.00	4.55	91	70-130	
Bis(2-ethylhexyl) phthalate	5.00	4.39	88	70-130	
4-Bromophenyl phenyl ether	5.00	4.72	94	70-130	
Butyl benzyl phthalate	5.00	4.28	86	70-130	
Carbazole	5.00	4.64	93	70-130	
4-Chloroaniline	5.00	4.73	95	70-130	
4-Chloro-3-methylphenol	5.00	4.95	99	70-130	
2-Chloronaphthalene	5.00	4.62	92	70-130	
2-Chlorophenol	5.00	4.85	97	70-130	
4-Chlorophenyl phenyl ether	5.00	4.79	96	70-130	
Chrysene	5.00	4.72	94	70-130	
Dibenz(a,h)anthracene	5.00	4.90	98	70-130	
Dibenzofuran	5.00	4.61	92	70-130	
1,2-Dichlorobenzene	5.00	4.76	95	70-130	
1,3-Dichlorobenzene	5.00	4.73	95	70-130	
1,4-Dichlorobenzene	5.00	4.70	94	70-130	
3,3'-Dichlorobenzidine	5.00	4.64	93	70-130	
2,4-Dichlorophenol	5.00	4.90	98	70-130	
Diethyl phthalate	5.00	4.74	95	70-130	
2,4-Dimethylphenol	5.00	5.00	100	70-130	
Dimethyl phthalate	5.00	4.69	94	70-130	
Di-n-butyl phthalate	5.00	4.39	88	70-130	
4,6-Dinitro-2-methylphenol	5.00	5.23	105	70-130	
2,4-Dinitrophenol	10.0	10.2	102	70-130	
2,4-Dinitrotoluene	5.00	4.54	91	70-130	
2,6-Dinitrotoluene	5.00	4.42	88	70-130	
Di-n-octyl phthalate	5.00	4.57	91	70-130	
Fluoranthene	5.00	4.73	95	70-130	
Fluorene	5.00	4.74	95	70-130	
Hexachlorobenzene	5.00	4.70	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.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 30328007.D

Lab ID: MRL 240-79745/7 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Hexachlorobutadiene	5.00	4.77	95	70-130	
Hexachloroethane	5.00	4.83	97	70-130	
Indeno[1,2,3-cd]pyrene	5.00	4.89	98	70-130	
Isophorone	5.00	4.87	97	70-130	
2-Methylnaphthalene	5.00	4.73	95	70-130	
2-Methylphenol	5.00	4.76	95	70-130	
3 & 4 Methylphenol	5.00	4.79	96	70-130	
Naphthalene	5.00	4.73	95	70-130	
2-Nitroaniline	5.00	4.45	89	70-130	
3-Nitroaniline	5.00	4.51	90	70-130	
4-Nitroaniline	5.00	4.89	98	70-130	
Nitrobenzene	5.00	4.86	97	70-130	
2-Nitrophenol	5.00	4.57	91	70-130	
4-Nitrophenol	5.00	4.64	93	70-130	
N-Nitrosodi-n-propylamine	5.00	4.84	97	70-130	
N-Nitrosodiphenylamine	5.00	0.00080 U	0	70-130	^
Pentachlorophenol	10.0	9.12	91	70-130	
Phenanthrene	5.00	4.62	92	70-130	
Phenol	5.00	4.77	95	70-130	
Pyrene	5.00	4.83	97	70-130	
1,2,4-Trichlorobenzene	5.00	4.82	96	70-130	
2,4,5-Trichlorophenol	5.00	4.90	98	70-130	
2,4,6-Trichlorophenol	5.00	4.94	99	70-130	

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.: 240-21987-1

SDG No.:

Lab File ID: 30328004.D Lab Sample ID: MB 240-78456/17-A

Matrix: Water Date Extracted: 03/15/2013 08:45

Instrument ID: A4HP7 Date Analyzed: 03/28/2013 12:06

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-78456/18-A	30328005.D	03/28/2013 12:29
079-0007-0001-SOURCEWATER	240-21987-1	30328006.D	03/28/2013 12:53

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab File ID: 30326001.D DFTPP Injection Date: 03/26/2013

Instrument ID: A4HP7 DFTPP Injection Time: 09:31

Analysis Batch No.: 79445

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	36.9	
68	Less than 2.0% of mass 69	0.6	(1.6)1
69	Mass 69 relative abundance	39.9	
70	Less than 2.0% of mass 69	0.2	(0.5)1
127	25.0 - 75.0% of mass 198	51.6	
197	Less than 1.0% of mass 198	0.7	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.2	
275	10.0- 30.0% of mass 198	22.8	
365	Greater than 0.75% of mass 198	2.6	
441	Present, but less than mass 443	10.0	
442	40.0 - 110.0% of mass 198	70.6	
443	15.0 - 24.0% of mass 442	13.1	(18.6)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 240-79445/2	30326002.D	03/26/2013	09:55
	STD4 240-79445/3	30326003.D	03/26/2013	10:18
	STD3 240-79445/4	30326004.D	03/26/2013	10:42
	STD2 240-79445/5	30326005.D	03/26/2013	11:06
	STD1 240-79445/6	30326006.D	03/26/2013	11:30
	STD9 240-79445/7	30326007.D	03/26/2013	11:53
	STD8 240-79445/8	30326008.D	03/26/2013	12:17
	STD7 240-79445/9	30326009.D	03/26/2013	12:41
	STD6 240-79445/10	30326010.D	03/26/2013	13:05
	ICV 240-79445/12	30326012.D	03/26/2013	13:52

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab File ID: 30328001.D DFTPP Injection Date: 03/28/2013

Instrument ID: A4HP7 DFTPP Injection Time: 10:54

Analysis Batch No.: 79745

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	39.1	
68	Less than 2.0% of mass 69	0.7	(1.8)1
69	Mass 69 relative abundance	39.9	
70	Less than 2.0% of mass 69	0.2	(0.5)1
127	25.0 - 75.0% of mass 198	50.6	
197	Less than 1.0% of mass 198	0.8	
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	23.0	
365	Greater than 0.75% of mass 198	2.2	
441	Present, but less than mass 443	9.5	
442	40.0 - 110.0% of mass 198	65.3	
443	15.0 - 24.0% of mass 442	12.4	(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 240-79745/2	30328002.D	03/28/2013	11:18
	MRL 240-79745/3	30328003.D	03/28/2013	11:42
	MB 240-78456/17-A	30328004.D	03/28/2013	12:06
	LCS 240-78456/18-A	30328005.D	03/28/2013	12:29
079-0007-0001-SOURCEWATER	240-21987-1	30328006.D	03/28/2013	12:53
	MRL 240-79745/7	30328007.D	03/28/2013	13:17

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Sample No.: STD6 240-79445/10 Date Analyzed: 03/26/2013 13:05

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 30326010.D Heated Purge: (Y/N) N

Calibration ID: 14262

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		265483	5.92	1039919	7.04	608045	8.56
UPPER LIMIT		530966	6.42	2079838	7.54	1216090	9.06
LOWER LIMIT		132742	5.42	519960	6.54	304023	8.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-79445/12		222829	5.92	888114	7.04	525531	8.55
CCV 240-79745/2		223513	5.89	871511	7.01	525671	8.51
MRL 240-79745/3		220517	5.89	860585	7.01	499241	8.51
MB 240-78456/17-A		210016	5.89	832658	7.01	497492	8.51
LCS 240-78456/18-A		200884	5.89	795207	7.01	486651	8.51
240-21987-1	079-0007-0001-SOURCEWATER	199915	5.89	798359	7.01	472561	8.51
MRL 240-79745/7		238405	5.89	928853	7.01	561602	8.51

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.: 240-21987-1

SDG No.:

Sample No.: STD6 240-79445/10 Date Analyzed: 03/26/2013 13:05

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 30326010.D Heated Purge: (Y/N) N

Calibration ID: 14262

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		969063	9.83	1099308	12.40	912884	14.49
UPPER LIMIT		1938126	10.33	2198616	12.90	1825768	14.99
LOWER LIMIT		484532	9.33	549654	11.90	456442	13.99
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-79445/12		829262	9.82	941529	12.40	750991	14.50
CCV 240-79745/2		817951	9.78	933395	12.33	761709	14.40
MRL 240-79745/3		815904	9.78	931554	12.33	764764	14.40
MB 240-78456/17-A		794793	9.78	833985	12.33	668501	14.40
LCS 240-78456/18-A		787384	9.78	864005	12.33	673571	14.40
240-21987-1	079-0007-0001-SOURCEWATER	758046	9.78	806921	12.33	612627	14.40
MRL 240-79745/7		900507	9.78	1002557	12.33	823447	14.40

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.: 240-21987-1

SDG No.:

Client Sample ID: 079-0007-0001-SOURCEWATER | Lab Sample ID: 240-21987-1

Matrix: Water | Lab File ID: 30328006.D

Analysis Method: 8270C/DoD | Date Collected: 03/14/2013 12:00

Extract. Method: 3520C | Date Extracted: 03/15/2013 08:45

Sample wt/vol: 990(mL) | Date Analyzed: 03/28/2013 12:53

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.: 79745 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	0.10	U	0.20	0.10	0.10
208-96-8	Acenaphthylene	0.10	U	0.20	0.10	0.10
120-12-7	Anthracene	0.10	U	0.20	0.10	0.10
56-55-3	Benzo[a]anthracene	0.10	U	0.20	0.10	0.10
50-32-8	Benzo[a]pyrene	0.10	U	0.20	0.10	0.10
205-99-2	Benzo[b]fluoranthene	0.10	U	0.20	0.10	0.10
191-24-2	Benzo[g,h,i]perylene	0.10	U	0.20	0.10	0.10
65-85-0	Benzoic acid	10	U	25	10	10
207-08-9	Benzo[k]fluoranthene	0.10	U	0.20	0.10	0.10
100-51-6	Benzyl alcohol	0.81	U	5.1	0.81	0.38
111-91-1	Bis(2-chloroethoxy)methane	0.81	U	1.0	0.81	0.32
111-44-4	Bis(2-chloroethyl)ether	0.10	U	1.0	0.10	0.10
108-60-1	bis (2-chloroisopropyl) ether	0.81	U	1.0	0.81	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	0.91	J	2.0	0.81	0.81
101-55-3	4-Bromophenyl phenyl ether	0.81	U	2.0	0.81	0.81
85-68-7	Butyl benzyl phthalate	0.81	U	1.0	0.81	0.81
86-74-8	Carbazole	0.81	U	1.0	0.81	0.28
106-47-8	4-Chloroaniline	0.81	U	2.0	0.81	0.81
59-50-7	4-Chloro-3-methylphenol	0.81	U	2.0	0.81	0.81
91-58-7	2-Chloronaphthalene	0.10	U	1.0	0.10	0.10
95-57-8	2-Chlorophenol	0.81	U	1.0	0.81	0.29
7005-72-3	4-Chlorophenyl phenyl ether	0.81	U	2.0	0.81	0.30
218-01-9	Chrysene	0.10	U	0.20	0.10	0.10
53-70-3	Dibenz(a,h)anthracene	0.10	U	0.20	0.10	0.10
132-64-9	Dibenzofuran	0.10	U	1.0	0.10	0.10
95-50-1	1,2-Dichlorobenzene	0.81	U	1.0	0.81	0.29
541-73-1	1,3-Dichlorobenzene	0.81	U	1.0	0.81	0.81
106-46-7	1,4-Dichlorobenzene	0.81	U	1.0	0.81	0.34
91-94-1	3,3'-Dichlorobenzidine	0.81	U	5.1	0.81	0.37
120-83-2	2,4-Dichlorophenol	0.81	U	2.0	0.81	0.81
84-66-2	Diethyl phthalate	0.81	U	1.0	0.81	0.61
105-67-9	2,4-Dimethylphenol	0.81	U	2.0	0.81	0.81
131-11-3	Dimethyl phthalate	0.81	U	1.0	0.81	0.29
84-74-2	Di-n-butyl phthalate	0.81	U	1.0	0.81	0.68

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: 079-0007-0001-SOURCEWATER | Lab Sample ID: 240-21987-1

Matrix: Water | Lab File ID: 30328006.D

Analysis Method: 8270C/DoD | Date Collected: 03/14/2013 12:00

Extract. Method: 3520C | Date Extracted: 03/15/2013 08:45

Sample wt/vol: 990(mL) | Date Analyzed: 03/28/2013 12:53

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.: 79745 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	2.4	U	5.1	2.4	2.4
51-28-5	2,4-Dinitrophenol	2.4	U	5.1	2.4	2.4
121-14-2	2,4-Dinitrotoluene	0.81	U	5.1	0.81	0.27
606-20-2	2,6-Dinitrotoluene	0.81	U	5.1	0.81	0.81
117-84-0	Di-n-octyl phthalate	0.81	U	1.0	0.81	0.81
206-44-0	Fluoranthene	0.10	U	0.20	0.10	0.10
86-73-7	Fluorene	0.10	U	0.20	0.10	0.10
118-74-1	Hexachlorobenzene	0.10	U	0.20	0.10	0.10
87-68-3	Hexachlorobutadiene	0.81	U	1.0	0.81	0.27
77-47-4	Hexachlorocyclopentadiene	0.81	U	10	0.81	0.81
67-72-1	Hexachloroethane	0.81	U	1.0	0.81	0.81
193-39-5	Indeno[1,2,3-cd]pyrene	0.10	U	0.20	0.10	0.10
78-59-1	Isophorone	0.81	U	1.0	0.81	0.27
91-57-6	2-Methylnaphthalene	0.10	U	0.20	0.10	0.10
95-48-7	2-Methylphenol	0.81	U	1.0	0.81	0.81
15831-10-4	3 & 4 Methylphenol	0.81	U	2.0	0.81	0.81
91-20-3	Naphthalene	0.10	U	0.20	0.10	0.10
88-74-4	2-Nitroaniline	0.81	U	2.0	0.81	0.81
99-09-2	3-Nitroaniline	0.81	U	2.0	0.81	0.28
100-01-6	4-Nitroaniline	0.81	U	2.0	0.81	0.81
98-95-3	Nitrobenzene	0.10	U	1.0	0.10	0.040
88-75-5	2-Nitrophenol	0.81	U	2.0	0.81	0.28
100-02-7	4-Nitrophenol	2.4	U	5.1	2.4	2.4
621-64-7	N-Nitrosodi-n-propylamine	0.81	U	1.0	0.81	0.81
86-30-6	N-Nitrosodiphenylamine	0.81	U	1.0	0.81	0.31
87-86-5	Pentachlorophenol	2.4	U	5.1	2.4	2.4
85-01-8	Phenanthrene	0.10	U	0.20	0.10	0.10
108-95-2	Phenol	0.81	U	1.0	0.81	0.61
129-00-0	Pyrene	0.10	U	0.20	0.10	0.10
120-82-1	1,2,4-Trichlorobenzene	0.81	U	1.0	0.81	0.28
95-95-4	2,4,5-Trichlorophenol	0.81	U	5.1	0.81	0.30
88-06-2	2,4,6-Trichlorophenol	0.81	U	5.1	0.81	0.81

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: 079-0007-0001-SOURCEWATER | Lab Sample ID: 240-21987-1

Matrix: Water | Lab File ID: 30328006.D

Analysis Method: 8270C/DoD | Date Collected: 03/14/2013 12:00

Extract. Method: 3520C | Date Extracted: 03/15/2013 08:45

Sample wt/vol: 990(mL) | Date Analyzed: 03/28/2013 12:53

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.: 79745 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	64		50-110
367-12-4	2-Fluorophenol (Surr)	55		20-110
4165-60-0	Nitrobenzene-d5 (Surr)	68		40-110
4165-62-2	Phenol-d5 (Surr)	59		10-115
1718-51-0	Terphenyl-d14 (Surr)	93		50-135
118-79-6	2,4,6-Tribromophenol (Surr)	52		40-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP7\20130328-18338.b\30328006.D		
Lims ID:	240-21987-P-1-A	Client ID:	079-0007-0001-SOURCEWATER
Inject. Date:	28-Mar-2013 12:53:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018338-006		
Misc. Info.:	240-21987-P-1-A		
Operator:	001710	Instrument ID:	A4HP7
Injection Vol:	1.0 ul	ALS Bottle#:	6
Lims Batch ID:	79745	Lims Sample ID:	6
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP7\20130328-18338.b\8270_hp7.m		
Last Update:	29-Mar-2013 09:58:57	Calib Date:	26-Mar-2013 17:03:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326020.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK008		

First Level Reviewer: gruberj Date: 28-Mar-2013 13:18:13

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.886	5.886	0.0	97	199915	4.00	
* 2 Naphthalene-d8	136	7.009	7.010	-0.001	99	798359	4.00	
* 3 Acenaphthene-d10	164	8.512	8.512	0.0	90	472561	4.00	
* 4 Phenanthrene-d10	188	9.775	9.775	0.0	97	758046	4.00	
* 5 Chrysene-d12	240	12.326	12.326	0.0	97	806921	4.00	
* 6 Perylene-d12	264	14.401	14.401	0.0	97	612627	4.00	
$ 7 2-Fluorophenol	112	4.608	4.613	-0.005	93	658425	8.30	
$ 8 Phenol-d5	99	5.522	5.523	-0.001	88	923997	8.80	
$ 9 Nitrobenzene-d5	82	6.378	6.378	0.0	88	483096	6.79	
$ 10 2-Fluorobiphenyl (Surr)	172	7.924	7.924	0.0	100	944623	6.40	
$ 11 2,4,6-Tribromophenol	330	9.176	9.176	0.0	91	187379	7.82	
$ 12 Terphenyl-d14	244	11.133	11.133	0.0	98	1247369	9.29	
41 Phenol	94		5.539					9
44 Bis(2-chloroethyl)ether	93		5.640					9
46 2-Chlorophenol	128		5.688					9
47 1,3-Dichlorobenzene	146		5.838					
48 1,4-Dichlorobenzene	146		5.902					
49 Benzyl alcohol	108		5.999					9
50 1,2-Dichlorobenzene	146		6.041					
51 2-Methylphenol	108		6.090					9
52 2,2'-oxybis[1-chloropropane]	45		6.122					9
191 3 & 4 Methylphenol	108		6.218					
56 N-Nitrosodi-n-propylamine	70		6.234					9
60 Hexachloroethane	117		6.346					
61 Nitrobenzene	77		6.394					9
63 Isophorone	82		6.598					9
65 2-Nitrophenol	139		6.673					
64 2,4-Dimethylphenol	107		6.689					
69 Benzoic acid	122		6.753					9
68 Bis(2-chloroethoxy)methane	93		6.780					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
71 2,4-Dichlorophenol	162		6.876					
72 1,2,4-Trichlorobenzene	180		6.956					
73 Naphthalene	128		7.031					9
74 4-Chloroaniline	127		7.063					
77 Hexachlorobutadiene	225		7.127					
84 4-Chloro-3-methylphenol	107		7.459					
85 2-Methylnaphthalene	142		7.619					
88 Hexachlorocyclopentadiene	237		7.753					
90 2,4,6-Trichlorophenol	196		7.849					
91 2,4,5-Trichlorophenol	196		7.881					
98 2-Chloronaphthalene	162		8.036					
100 2-Nitroaniline	65		8.111					
103 Dimethyl phthalate	163		8.256					
105 2,6-Dinitrotoluene	165		8.309					
107 Acenaphthylene	152		8.395					
108 3-Nitroaniline	138		8.454					
110 Acenaphthene	153		8.539					
109 2,4-Dinitrophenol	184		8.545					
111 4-Nitrophenol	109		8.571					9
112 2,4-Dinitrotoluene	165		8.652					
114 Dibenzofuran	168		8.684					
119 Diethyl phthalate	149		8.849					
121 4-Chlorophenyl phenyl ether	204		8.962					
123 4-Nitroaniline	138		8.972					
124 Fluorene	166		8.978					
126 4,6-Dinitro-2-methylphenol	198		8.999					
130 N-Nitrosodiphenylamine	169		9.058					
137 4-Bromophenyl phenyl ether	248		9.379					
139 Hexachlorobenzene	284		9.443					
141 Pentachlorophenol	266		9.598					
146 Phenanthrene	178		9.796					9
147 Anthracene	178		9.839					9
149 Carbazole	167		9.962					9
151 Di-n-butyl phthalate	149		10.224					
157 Fluoranthene	202		10.807					9
160 Pyrene	202		11.016					9
166 Butyl benzyl phthalate	149		11.615					9
173 3,3'-Dichlorobenzidine	252		12.262					
171 Bis(2-ethylhexyl) phthalate	149	12.288	12.294	-0.006	70	12915	0.4504	
175 Benzo[a]anthracene	228		12.315					9
176 Chrysene	228		12.364					9
178 Di-n-octyl phthalate	149		13.203					9
180 Benzo[b]fluoranthene	252		13.818					
181 Benzo[k]fluoranthene	252		13.861					
182 Benzo[a]pyrene	252		14.316					9
186 Indeno[1,2,3-cd]pyrene	276		16.054					
187 Dibenz(a,h)anthracene	278		16.086					
188 Benzo[g,h,i]perylene	276		16.503					

QC Flag Legend

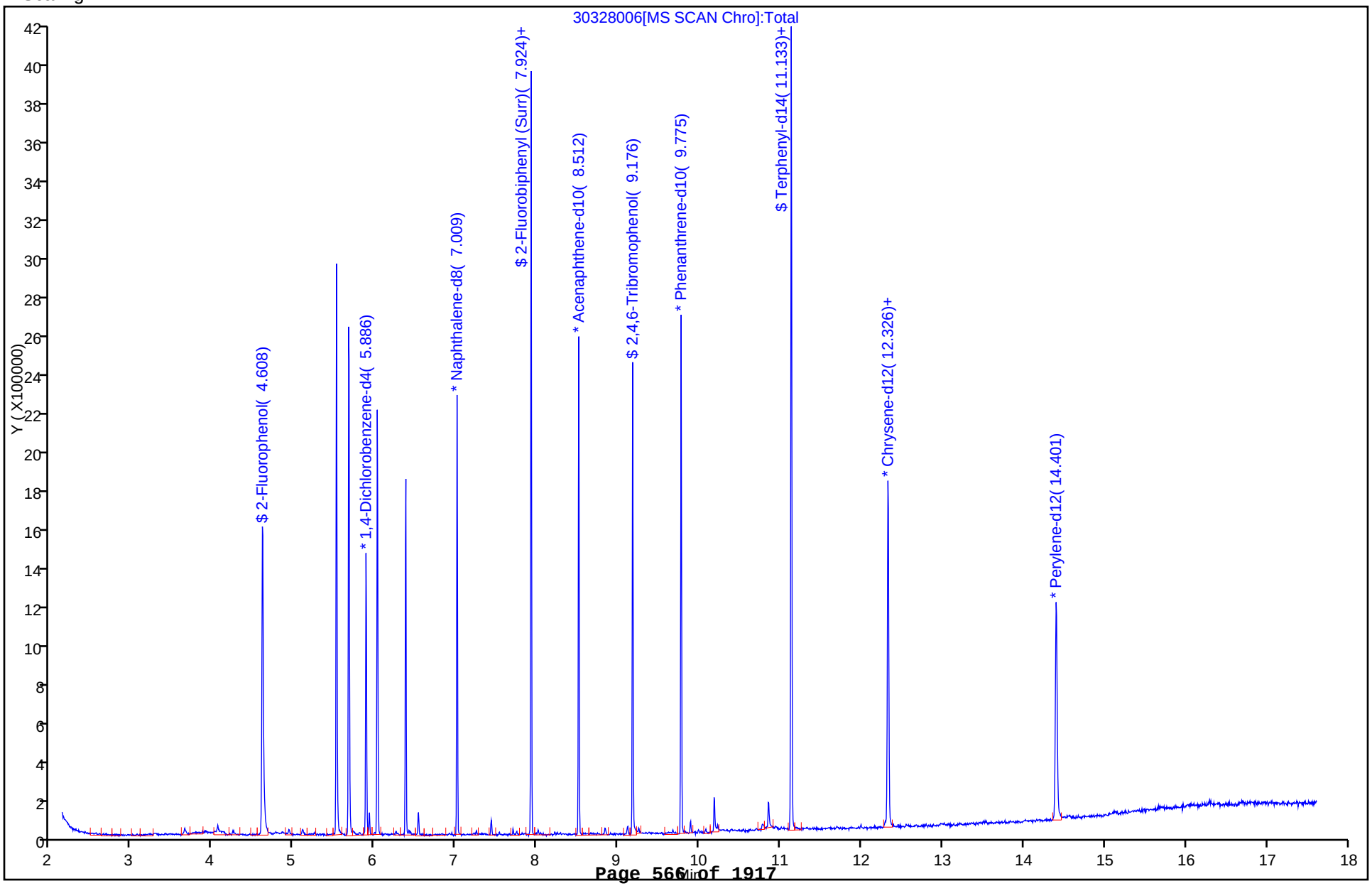
Processing Flags
9 - Failed A Reference Spectral Test

Report Date: 29-Mar-2013 09:59:03 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP7\20130328-18338.b\30328006.D		
Injection Date:	28-Mar-2013 12:53:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	079-0007-0001-SOURCEWATER	Instrument ID:	A4HP7
Lims Batch ID:	79745	Lims Sample ID:	6
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:

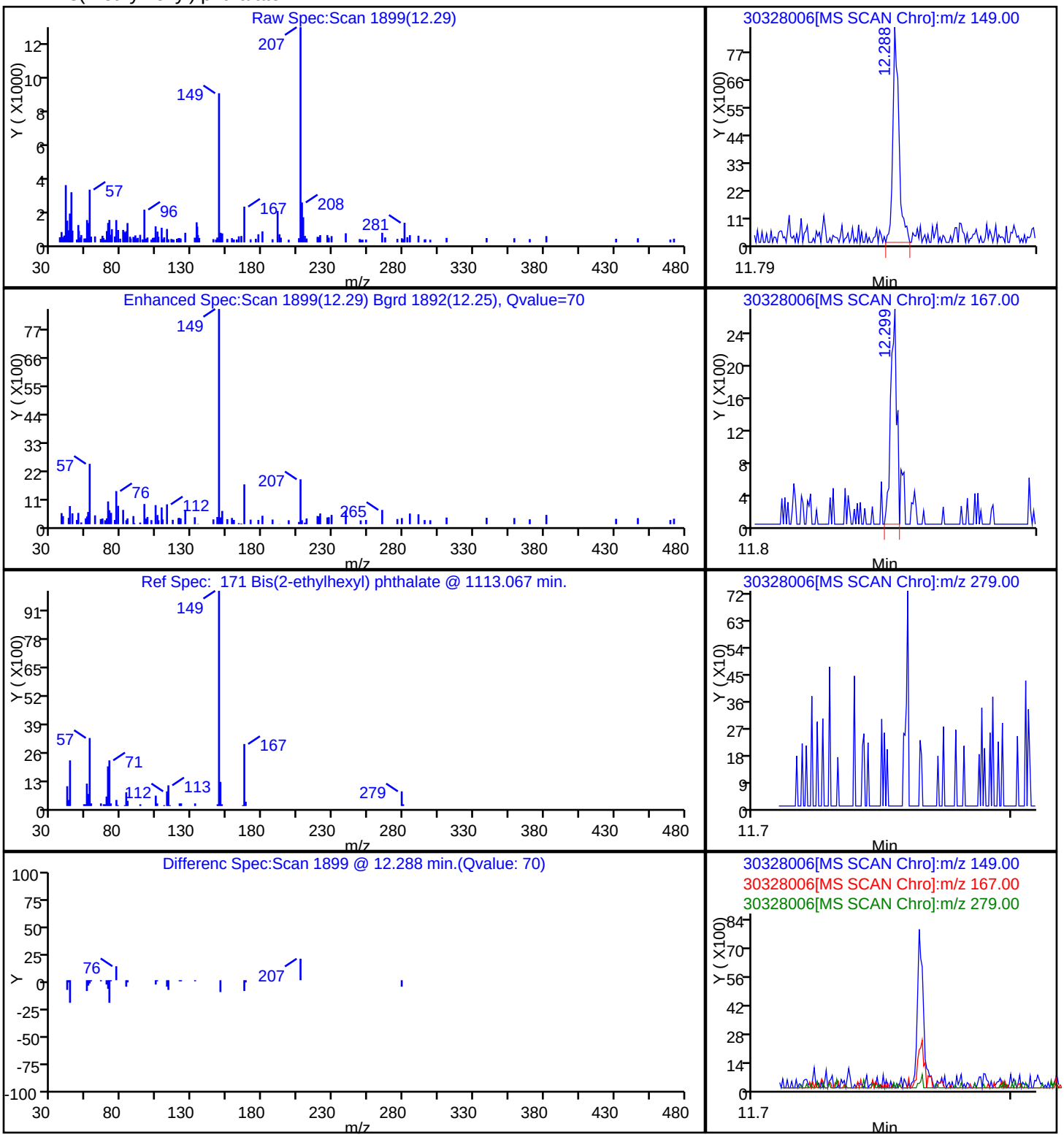


Report Date: 29-Mar-2013 09:59:03 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP7\20130328-18338.b\30328006.D		
Injection Date:	28-Mar-2013 12:53:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:	079-0007-0001-SOURCEWATER	Instrument ID:	A4HP7
Lims Batch ID:	79745	Lims Sample ID:	6
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

171 Bis(2-ethylhexyl) phthalate



FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 79445

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/26/2013 09:55 Calibration End Date: 03/26/2013 13:05 Calibration ID: 14262

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-79445/6	30326006.D
Level 2	STD2 240-79445/5	30326005.D
Level 3	STD3 240-79445/4	30326004.D
Level 4	STD4 240-79445/3	30326003.D
Level 5	STD5 240-79445/2	30326002.D
Level 6	STD6 240-79445/10	30326010.D
Level 7	STD7 240-79445/9	30326009.D
Level 8	STD8 240-79445/8	30326008.D
Level 9	STD9 240-79445/7	30326007.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	0.6330	0.7628 0.6445	0.6326 0.6996	0.6763 0.6979	0.6299	Ave		0.6721			0.0500	7.0		15.0			
N-Nitrosodimethylamine	0.8596	0.7099 0.8489	0.7797 0.9511	0.7779 0.9204	0.8064	Ave		0.8317			0.0500	9.6		15.0			
Pyridine	1.6429	1.3434 1.5993	1.2809 1.7969	1.5945 1.7982	1.5677	Ave		1.5780			0.0500	12.0		15.0			
Ethyl methacrylate	1.0641	0.9031 1.0261	0.9820 1.1677	1.0656 1.1357	1.0038	Ave		1.0435			0.0500	8.1		15.0			
3-Chloropropionitrile	0.7527	0.5672 0.7586	0.6488 0.8441	0.8412 0.8108	0.7185	Ave		0.7427			0.0500	13.0		15.0			
Malononitrile	1.4657	1.0265 1.4811	1.1938 1.6537	1.5627 1.5775	1.3555	Ave		1.4146			0.0500	15.0		15.0			
Benzaldehyde	1.1721 1.0478	1.0766 0.9443	1.0972 0.9034	1.2299 +++++	1.0599	Ave		1.0664			0.0500	10.0		15.0			
Phenol	2.2241	1.9240 2.1775	2.1512 2.4174	2.3641 2.3484	2.1316	Ave		2.2173			0.0500	7.2		15.0			
Aniline	2.5046	2.2349 2.4622	2.3905 2.7463	2.7024 2.6917	2.3912	Ave		2.5155			0.0500	7.2		15.0			
Bis(2-chloroethyl)ether	1.3947	1.2375 1.3858	1.4456 1.5148	1.5463 1.4915	1.3416	Ave		1.4197			0.0500	7.1		15.0			
2-Chlorophenol	1.6946	1.4745 1.6754	1.6929 1.8765	1.8791 1.8350	1.6284	Ave		1.7196			0.0500	8.1		15.0			
1,3-Dichlorobenzene	1.4694	1.4248 1.4325	1.4411 1.6157	1.5958 1.5673	1.4167	Ave		1.4954			0.0500	5.6		15.0			
1,4-Dichlorobenzene	1.7960	1.7093 1.7700	1.8924 1.9872	1.9825 1.9405	1.7623	Ave		1.8550			0.0500	5.9		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.: 240-21987-1 Analy Batch No.: 79445

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/26/2013 09:55 Calibration End Date: 03/26/2013 13:05 Calibration ID: 14262

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								
Benzyl alcohol	1.0851	0.8331 1.1005	0.9686 1.2093	1.1681 1.1808	1.0488	Ave		1.0743			0.0500	12.0		15.0			
1,2-Dichlorobenzene	1.3772	1.3731 1.3823	1.3794 1.5242	1.5293 1.4970	1.3377	Ave		1.4250			0.0500	5.5		15.0			
2-Methylphenol	1.5910	1.3004 1.5889	1.5912 1.7271	1.7062 1.6881	1.5061	Ave		1.5874			0.0500	8.7		15.0			
bis (2-chloroisopropyl) ether	1.4509	1.3571 1.4477	1.4889 1.5867	1.6492 1.5514	1.3704	Ave		1.4878			0.0500	6.9		15.0			
3 & 4 Methylphenol	1.6445	1.3961 1.6417	1.5831 1.8084	1.8551 1.7857	1.5745	Ave		1.6611			0.0500	9.1		15.0			
N-Nitrosodi-n-propylamine	0.9050	0.7751 0.8974	0.8776 0.9783	0.9954 0.9373	0.8843	Ave		0.9063			0.0500	7.5		15.0			
Acetophenone	1.8702	1.7321 1.8137	1.8330 2.0420	2.0288 2.0025	1.7940	Ave		1.8895			0.0500	6.3		15.0			
Hexachloroethane	0.5733	0.5045 0.5644	0.5215 0.6207	0.5864 0.6182	0.5216	Ave		0.5638			0.0500	7.9		15.0			
Nitrobenzene	0.3831	0.3232 0.3759	0.3373 0.4185	0.3908 0.4123	0.3549	Ave		0.3745			0.0500	9.1		15.0			
Isophorone	0.6276	0.5135 0.6323	0.5506 0.6859	0.6360 0.6892	0.5762	Ave		0.6139			0.0500	10.0		15.0			
2-Nitrophenol	0.2162	0.1266 0.2171	0.1472 0.2365	0.1879 0.2348	0.1831	Lin1	-0.075	0.2308			0.0500				0.9970		0.9950
1,3,5-Trichlorobenzene	0.3037	0.2940 0.3044	0.3051 0.3243	0.3433 0.3202	0.2937	Ave		0.3111			0.0500	5.5		15.0			
2,4-Dimethylphenol	0.4349	0.3757 0.4292	0.4292 0.4593	0.4741 0.4522	0.4026	Ave		0.4321			0.0500	7.3		15.0			
Benzoic acid	0.2074	+++++ 0.2276	0.0437 0.2487	0.1027 0.2622	0.1509	Qua	-0.410	0.1956	0.0015		0.0500				1.0000		0.9950
Bis(2-chloroethoxy)methane	0.4219	0.3698 0.4194	0.4238 0.4427	0.4612 0.4512	0.4052	Ave		0.4244			0.0500	6.8		15.0			
2,4-Dichlorophenol	0.3509	0.2681 0.3423	0.3248 0.3765	0.3598 0.3718	0.3186	Ave		0.3391			0.0500	10.0		15.0			
1,2,4-Trichlorobenzene	0.3112	0.2938 0.3096	0.3229 0.3385	0.3266 0.3304	0.2884	Ave		0.3152			0.0500	5.6		15.0			
Naphthalene	1.0415 0.9491	0.9309 0.9590	0.9415 1.0337	1.0305 1.0312	0.8949	Ave		0.9792			0.0500	5.6		15.0			
4-Chloroaniline	0.4621	0.3988 0.4628	0.4234 0.4950	0.4699 0.4976	0.4305	Ave		0.4550			0.0500	7.7		15.0			
Hexachlorobutadiene	0.1667	0.1600 0.1642	0.1678 0.1760	0.1747 0.1746	0.1528	Ave		0.1671			0.0500	4.8		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.: 240-21987-1 Analy Batch No.: 79445

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/26/2013 09:55 Calibration End Date: 03/26/2013 13:05 Calibration ID: 14262

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								
Caprolactam	0.0924	+++++ 0.0894	0.0637 0.0890	0.0877 0.0847	0.0845	Ave		0.0845			0.0500	11.0		15.0			
4-Chloro-3-methylphenol	0.3673	0.2673 0.3751	0.3351 0.4016	0.3752 0.4039	0.3494	Ave		0.3594			0.0500	12.0		15.0			
2-Methylnaphthalene	0.6544 0.6047	0.5424 0.6027	0.6054 0.6457	0.6623 0.6510	0.5654	Ave		0.6149			0.0500	6.8		15.0			
1-Methylnaphthalene	0.6202 0.5870	0.5770 0.5791	0.5754 0.6302	0.6432 0.6285	0.5511	Ave		0.5991			0.0500	5.3		15.0			
1,2,3,5-Tetrachlorobenzene	0.5007	0.4623 0.4926	0.5202 0.5361	0.5476 0.5265	0.4891	Ave		0.5094			0.0500	5.5		15.0			
Hexachlorocyclopentadiene	0.2828	0.1808 0.2882	0.2037 0.3151	0.2534 0.3139	0.2504	Lin1	-0.093	0.3070			0.0500				0.9970		0.9950
2,4,6-Trichlorophenol	0.4282	0.2786 0.4244	0.3498 0.4581	0.4279 0.4633	0.3836	Ave		0.4017			0.0500	15.0		15.0			
2,4,5-Trichlorophenol	0.4589	0.3461 0.4529	0.4039 0.4921	0.4759 0.4994	0.4204	Ave		0.4437			0.0500	12.0		15.0			
2,4-Toluene diamine	0.1140	0.1407 0.1254	0.1897 0.1341	0.1708 0.1410	0.1019	Qua	0.0746	0.0891	0.0020		0.0500				0.9990		0.9950
1,1'-Biphenyl	1.3664 1.2092	1.1896 1.2221	1.2483 1.3017	1.3663 1.3025	1.1846	Ave		1.2656			0.0500	5.6		15.0			
2-Chloronaphthalene	1.1128 1.0780	1.0018 1.0785	1.0826 1.1604	1.1800 1.1641	1.0313	Ave		1.0988			0.0500	5.6		15.0			
2-Nitroaniline	0.3500	0.2022 0.3519	0.2448 0.3811	0.3153 0.3855	0.3063	Lin1	-0.118	0.3757			0.0500				0.9970		0.9950
Dimethyl phthalate	1.0965	0.9426 1.1223	1.0695 1.2281	1.2024 1.2204	1.0746	Ave		1.1196			0.0500	8.6		15.0			
2,6-Dinitrotoluene	0.2529	0.1410 0.2603	0.1808 0.2811	0.2055 0.2843	0.2263	Lin1	-0.097	0.2768			0.0500				0.9970		0.9950
1,2-Dinitrobenzene	0.1239	0.0714 0.1334	0.0925 0.1449	0.1135 0.1425	0.1122	Lin1	-0.047	0.1400			0.0500				0.9960		0.9950
Acenaphthylene	1.2591 1.6027	1.3125 1.6336	1.4446 1.7672	1.6642 1.7803	1.5076	Ave		1.5524			0.0500	12.0		15.0			
3-Nitroaniline	0.3255	0.1639 0.3324	0.2332 0.3644	0.3008 0.3596	0.2955	Lin1	-0.117	0.3548			0.0500				0.9970		0.9950
Acenaphthene	0.9705 0.9469	0.9360 0.9492	0.9645 1.0029	1.0511 1.0054	0.9461	Ave		0.9747			0.0500	3.9		15.0			
2,4-Dinitrophenol	0.1426	+++++ 0.1526	+++++ 0.1648	0.0602 0.1706	0.0965	Lin1	-0.566	0.1763			0.0500				0.9950		0.9950
4-Nitrophenol	0.2248	+++++ 0.2285	0.1460 0.2477	0.1848 0.2523	0.1977	Lin1	-0.130	0.2481			0.0500				0.9970		0.9950

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.: 240-21987-1 Analy Batch No.: 79445

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/26/2013 09:55 Calibration End Date: 03/26/2013 13:05 Calibration ID: 14262

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								
2,4-Dinitrotoluene	0.3463	0.1618 0.3546	0.2236 0.3850	0.3042 0.3896	0.3075	Lin1	-0.143	0.3799			0.0500				0.9970		0.9950
Dibenzofuran	1.5704 1.4271	1.3579 1.4457	1.4559 1.5492	1.5787 1.5620	1.3791	Ave		1.4807			0.0500	5.8		15.0			
2,3,5,6-Tetrachlorophenol	0.3686	0.1693 0.3822	0.2808 0.4058	0.3364 0.4035	0.3386	Lin1	-0.130	0.3999			0.0500				0.9980		0.9950
Diethyl phthalate	1.0540	0.9351 1.0762	1.0209 1.1464	1.1338 1.1647	1.0307	Ave		1.0702			0.0500	7.2		15.0			
4-Chlorophenyl phenyl ether	0.5580	0.5213 0.5746	0.5767 0.6125	0.6172 0.6153	0.5462	Ave		0.5777			0.0500	6.1		15.0			
4-Nitroaniline	0.3212	0.1905 0.3231	0.2057 0.3555	0.2855 0.3497	0.2981	Lin1	-0.111	0.3460			0.0500				0.9980		0.9950
Fluorene	1.1636 1.1770	1.0674 1.1643	1.1710 1.2483	1.2788 1.2366	1.1467	Ave		1.1838			0.0500	5.3		15.0			
4,6-Dinitro-2-methylphenol	0.1397	+++++ 0.1510	0.0472 0.1655	0.0816 0.1657	0.0965	Lin	-0.253	0.1741			0.0500				0.9960		0.9950
N-Nitrosodiphenylamine	0.5861	0.4720 0.6051	0.5462 0.6458	0.6269 0.6485	0.5612	Ave		0.5865			0.0500	10.0		15.0			
1,2-Diphenylhydrazine(as Azobenzene)	0.7969	0.6367 0.8126	0.7342 0.8656	0.8472 0.8752	0.7604	Ave		0.7912			0.0500	10.0		15.0			
Azobenzene	0.7969	0.6374 0.8126	0.7342 0.8656	0.8472 0.8752	0.7604	Ave		0.7912			0.0500	10.0		15.0			
4-Bromophenyl phenyl ether	0.2025	0.1799 0.2106	0.2004 0.2256	0.2212 0.2232	0.1928	Ave		0.2070			0.0500	7.8		15.0			
Hexachlorobenzene	0.2758 0.2063	0.1814 0.2094	0.2051 0.2206	0.2214 0.2223	0.1937	Ave		0.2151			0.0500	12.0		15.0			
Atrazine	0.1364	0.0982 0.1372	0.1202 0.1391	0.1412 0.1294	0.1276	Ave		0.1287			0.0500	11.0		15.0			
Pentachlorophenol	0.1577	0.0729 0.1684	0.1048 0.1801	0.1259 0.1800	0.1445	Lin1	-0.142	0.1769			0.0500				0.9970		0.9950
Phenanthrene	1.1248 1.0132	1.0145 1.0485	1.0871 1.1173	1.1095 1.1350	0.9810	Ave		1.0701			0.0500	5.3		15.0			
Anthracene	0.7863 1.0474	0.8283 1.0706	0.9438 1.1518	1.0744 1.1538	0.9803	Ave		1.0041			0.0500	13.0		15.0			
Carbazole	0.9880	0.8683 1.0206	0.9580 1.1036	1.0351 1.0919	0.9404	Ave		1.0007			0.0500	7.9		15.0			
Di-n-butyl phthalate	1.1133	1.0236 1.1663	1.0479 1.2704	1.1887 1.2610	1.0954	Ave		1.1458			0.0500	8.0		15.0			
Fluoranthene	1.0391 1.1386	0.9481 1.1832	1.0585 1.2698	1.1680 1.2825	1.0896	Ave		1.1308			0.0500	9.6		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.: 240-21987-1 Analy Batch No.: 79445

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/26/2013 09:55 Calibration End Date: 03/26/2013 13:05 Calibration ID: 14262

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								
Benzidine	0.5290	0.1940 0.5598	0.2836 0.5884	0.3942 0.5861	0.4266	Lin1	-0.274	0.5810			0.0500				0.9960		0.9950
Pyrene	0.9901 1.0741	0.9225 1.0970	1.0259 1.1714	1.1304 1.1823	1.0392	Ave		1.0703			0.0500	8.0		15.0			
Butyl benzyl phthalate	0.4177	0.2175 0.4287	0.2768 0.4715	0.3688 0.4717	0.3857	Lin1	-0.164	0.4611			0.0500				0.9970		0.9950
3,3'-Dimethoxybenzidine	0.2344	+++++ 0.2516	0.0853 0.2827	0.1244 0.2819	0.1581	Lin	-0.458	0.2968			0.0500				0.9950		0.9950
3,3'-Dichlorobenzidine	0.4258	0.2420 0.4361	0.3105 0.4629	0.3897 0.4605	0.3808	Lin1	-0.136	0.4557			0.0500				0.9980		0.9950
4,4'-Methylene bis(2-chloroaniline)	0.1954	0.1055 0.1986	0.1293 0.2159	0.1787 0.2113	0.1775	Lin1	-0.068	0.2103			0.0500				0.9980		0.9950
Bis(2-ethylhexyl) phthalate	0.5914	0.3029 0.6160	0.3952 0.6675	0.5283 0.6671	0.5580	Lin1	-0.231	0.6551			0.0500				0.9970		0.9950
Benzo[a]anthracene	0.9020 0.9703	0.8054 1.0009	0.8997 1.0748	1.0092 1.0777	0.9369	Ave		0.9641			0.0500	9.2		15.0			
Chrysene	0.9672 0.8833	0.8130 0.9047	0.8934 0.9559	0.9436 0.9517	0.8401	Ave		0.9059			0.0500	6.0		15.0			
Di-n-octyl phthalate	1.0906	+++++ 1.1838	0.5417 1.3197	0.8467 1.3643	1.0018	Qua	-0.432	0.9920	0.0160		0.0500				0.9990		0.9950
Benzo[b]fluoranthene	0.9494 1.1500	0.9382 1.1653	0.9969 1.2865	1.2193 1.3297	1.0956	Ave		1.1256			0.0500	13.0		15.0			
Benzo[k]fluoranthene	1.0656 1.1999	1.0075 1.2818	1.1485 1.3454	1.2400 1.3536	1.1526	Ave		1.1994			0.0500	9.9		15.0			
Benzo[a]pyrene	0.5219 1.1034	0.7615 1.1541	0.8946 1.2564	1.0675 1.2915	1.0501	Lin1	-0.133	1.2172			0.0500				0.9950		0.9950
Indeno[1,2,3-cd]pyrene	0.9939 1.1722	0.8686 1.2071	1.0038 1.3181	1.2130 1.3328	1.1231	Ave		1.1370			0.0500	14.0		15.0			
Dibenz(a,h)anthracene	0.8261 0.9660	0.7252 0.9906	0.8214 1.0770	0.9965 1.0957	0.9226	Ave		0.9357			0.0500	13.0		15.0			
Benzo[g,h,i]perylene	0.8968 0.9753	0.8553 1.0112	0.9150 1.0807	1.0250 1.1036	0.9263	Ave		0.9766			0.0500	8.7		15.0			
2-Fluorophenol (Surr)	1.5666	1.4081 1.5692	1.4752 1.7616	1.7073 1.7061	1.5086	Ave		1.5878			0.0500	7.9		15.0			
Phenol-d5 (Surr)	2.0872	1.7917 2.0846	2.0235 2.3066	2.2399 2.2565	2.0183	Ave		2.1010			0.0500	7.9		15.0			
Nitrobenzene-d5 (Surr)	0.3383 0.3682	0.2852 0.3764	0.3241 0.4007	0.3738 0.4015	0.3415	Ave		0.3566			0.0500	11.0		15.0			
2-Fluorobiphenyl (Surr)	1.3060 1.2123	1.1896 1.2108	1.2445 1.3012	1.3099 1.3146	1.1628	Ave		1.2502			0.0500	4.7		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 CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 79445

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/26/2013 09:55 Calibration End Date: 03/26/2013 13:05 Calibration ID: 14262

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								
2,4,6-Tribromophenol (Surr)	0.1935	0.0988 0.1993	0.1366 0.2112	0.1839 0.2184	0.1802	Lin1	-0.069	0.2116			0.0500				0.9980		0.9950
Terphenyl-d14 (Surr)	0.6894 0.6465	0.5965 0.6713	0.6521 0.7103	0.6914 0.7047	0.6250	Ave		0.6653			0.0500	5.8		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.: 240-21987-1 Analy Batch No.: 79445

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/26/2013 09:55 Calibration End Date: 03/26/2013 13:05 Calibration ID: 14262

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-79445/6	30326006.D
Level 2	STD2 240-79445/5	30326005.D
Level 3	STD3 240-79445/4	30326004.D
Level 4	STD4 240-79445/3	30326003.D
Level 5	STD5 240-79445/2	30326002.D
Level 6	STD6 240-79445/10	30326010.D
Level 7	STD7 240-79445/9	30326009.D
Level 8	STD8 240-79445/8	30326008.D
Level 9	STD9 240-79445/7	30326007.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	420122	23407 609271	36827 812988	77161 1025483	175291	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
N-Nitrosodimethylamine	DCB	Ave	570504	21784 802499	45391 1105285	88758 1352528	224396	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Pyridine	DCB	Ave	1090395	41224 1511978	74575 2088089	181927 2642441	436263	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Ethyl methacrylate	DCB	Ave	706236	27715 970035	57169 1356979	121581 1668830	279337	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
3-Chloropropionitrile	DCB	Ave	499541	17407 717146	37773 980890	95983 1191423	199938	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Malononitrile	DCB	Ave	972810	31499 1400206	69504 1921737	178303 2318023	377208	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzaldehyde	DCB	Ave	6626 695440	33038 892752	63879 1049842	140327 +++++	294959	0.100 10.0	0.500 15.0	1.00 20.0	2.00 +++++	5.00
Phenol	DCB	Ave	1476159	59043 2058575	125239 2809221	269737 3450828	593175	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Aniline	DCB	Ave	1662335	68584 2327767	139172 3191428	308335 3955352	665435	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Bis(2-chloroethyl)ether	DCB	Ave	925694	37974 1310152	84164 1760270	176434 2191721	373342	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Chlorophenol	DCB	Ave	1124712	45248 1583922	98562 2180665	214405 2696449	453165	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,3-Dichlorobenzene	DCB	Ave	975264	43722 1354279	83901 1877531	182081 2303096	394229	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,4-Dichlorobenzene	DCB	Ave	1192018	52455 1673338	110176 2309298	226202 2851461	490425	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzyl alcohol	DCB	Ave	720165	25565 1040379	56392 1405316	133277 1735148	291870	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.: 240-21987-1 Analy Batch No.: 79445

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/26/2013 09:55 Calibration End Date: 03/26/2013 13:05 Calibration ID: 14262

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-Dichlorobenzene	DCB	Ave	914086	42135 1306787	80310 1771234	174496 2199824	372265	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Methylphenol	DCB	Ave	1055964	39906 1502160	92640 2006976	194676 2480635	419119	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
bis (2-chloroisopropyl) ether	DCB	Ave	962987	41645 1368664	86681 1843818	188170 2279797	381361	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
3 & 4 Methylphenol	DCB	Ave	1091443	42843 1552017	92168 2101430	211669 2624076	438147	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
N-Nitrosodi-n-propylamine	DCB	Ave	600670	23786 848436	51095 1136879	113569 1377355	246099	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Acetophenone	DCB	Ave	1241282	53153 1714679	106715 2372922	231481 2942587	499245	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachloroethane	DCB	Ave	380489	15481 533536	30360 721295	66905 908365	145159	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Nitrobenzene	NPT	Ave	995913	38599 1388013	77754 1936346	177885 2376630	390254	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Isophorone	NPT	Ave	1631728	61335 2334482	126917 3174030	289474 3972850	633525	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Nitrophenol	NPT	Lin1	562114	15126 801642	33937 1094299	85528 1353463	201326	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,3,5-Trichlorobenzene	NPT	Ave	789636	35120 1124000	70332 1500763	156259 1845603	322928	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dimethylphenol	NPT	Ave	1130626	44870 1584480	98916 2125189	215812 2606996	442644	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzoic acid	NPT	Qua	1078161	+++++ 1680861	20122 2301997	93469 3022835	331850	20.0	+++++ 30.0	2.00 40.0	4.00 50.0	10.0
Bis(2-chloroethoxy)methane	NPT	Ave	1096909	44165 1548356	97678 2048320	209910 2601095	445478	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dichlorophenol	NPT	Ave	912308	32019 1263688	74862 1742038	163752 2143316	350330	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2,4-Trichlorobenzene	NPT	Ave	808990	35095 1142932	74414 1566115	148648 1904650	317142	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Naphthalene	NPT	Ave	23248 2467428	111184 3540834	217009 4783268	469037 5944609	983982	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Chloroaniline	NPT	Ave	1201285	47629 1708794	97600 2290659	213873 2868698	473280	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachlorobutadiene	NPT	Ave	433361	19107 606172	38679 814445	79508 1006350	167968	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Caprolactam	NPT	Ave	240111	+++++ 330237	14688 412040	39905 487986	92945	10.0	+++++ 15.0	1.00 20.0	2.00 25.0	5.00
4-Chloro-3-methylphenol	NPT	Ave	954944	31924 1384704	77246 1858379	170804 2328594	384172	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.: 240-21987-1 Analy Batch No.: 79445

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/26/2013 09:55 Calibration End Date: 03/26/2013 13:05 Calibration ID: 14262

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
2-Methylnaphthalene	NPT	Ave	14606 1572040	64788 2225086	139527 2987581	301470 3752455	621660	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1-Methylnaphthalene	NPT	Ave	13844 1526189	68917 2138096	132614 2916102	292773 3623000	605948	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2,3,5-Tetrachlorobenzene	ANT	Ave	 761135	32391 1071060	69397 1464958	144535 1788952	310286	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachlorocyclopentadiene	ANT	Lin1	 429847	12669 626565	27176 861001	66896 1066624	158855	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,6-Trichlorophenol	ANT	Ave	 650890	19518 922597	46661 1251922	112954 1573978	243352	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,5-Trichlorophenol	ANT	Ave	 697628	24247 984580	53888 1344691	125615 1696883	266711	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Toluene diamine	NPT	Qua	 296411	16802 462880	43715 620565	77759 813092	112008	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,1'-Biphenyl	ANT	Ave	17227 1838102	83349 2656934	166539 3556973	360635 4425529	751588	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Chloronaphthalene	ANT	Ave	14030 1638715	70187 2344810	144431 3170980	311456 3955274	654317	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Nitroaniline	ANT	Lin1	 532110	14164 765126	32660 1041411	83232 1309734	194347	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dimethyl phthalate	ANT	Ave	 1666867	66037 2439906	142683 3355999	317373 4146465	681802	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,6-Dinitrotoluene	ANT	Lin1	 384404	9877 565942	24119 768234	54230 965893	143554	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2-Dinitrobenzene	ANT	Lin1	 188370	5001 289965	12340 396083	29949 484090	71186	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Acenaphthylene	ANT	Ave	15874 2436333	91954 3551614	192722 4829028	439256 6048801	956467	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
3-Nitroaniline	ANT	Lin1	 494851	11481 722700	31106 995870	79408 1221769	187468	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Acenaphthene	ANT	Ave	12236 1439434	65578 2063719	128675 2740413	277426 3416017	600263	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dinitrophenol	ANT	Lin1	 433425	+++++ 663498	+++++ 900840	31802 1159074	122402	 20.0	+++++ 30.0	+++++ 40.0	4.00 50.0	10.0
4-Nitrophenol	ANT	Lin1	 341752	+++++ 496792	19475 676834	48766 857104	125414	 10.0	+++++ 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dinitrotoluene	ANT	Lin1	 526384	11336 770957	29834 1052134	80286 1323846	195107	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dibenzofuran	ANT	Ave	19799 2169395	95137 3143157	194227 4233295	416696 5306911	874981	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,3,5,6-Tetrachlorophenol	ANT	Lin1	 560387	11858 830901	37463 1108975	88788 1370811	214800	 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.: 240-21987-1 Analy Batch No.: 79445

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/26/2013 09:55 Calibration End Date: 03/26/2013 13:05 Calibration ID: 14262

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
Diethyl phthalate	ANT	Ave	1602197	65513 2339721	136196 3132662	299274 3957326	653925	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Chlorophenyl phenyl ether	ANT	Ave	848242	36523 1249315	76940 1673826	162909 2090559	346563	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Nitroaniline	ANT	Lin1	488242	13349 702472	27436 971298	75359 1188225	189097	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Fluorene	ANT	Ave	14670 1789234	74781 2531431	156219 3411173	337549 4201488	727496	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4,6-Dinitro-2-methylphenol	PHN	Lin	338424	+++++ 517434	9817 716033	34328 891673	98836	10.0	+++++ 15.0	1.00 20.0	2.00 25.0	5.00
N-Nitrosodiphenylamine	PHN	Ave	1419987	52408 2073080	113712 2793486	263876 3489863	574983	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2-Diphenylhydrazine(as Azobenzene)	PHN	Ave	1930662	70699 2784315	152850 3744096	356569 4710267	779062	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Azobenzene	PHN	Ave	1930662	70776 2784315	152850 3744096	356569 4710267	779062	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Bromophenyl phenyl ether	PHN	Ave	490578	19981 721422	41720 976059	93120 1200984	197505	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachlorobenzene	PHN	Ave	5540 499897	20144 717490	42695 954287	93169 1196313	198445	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Atrazine	PHN	Ave	330377	10909 470189	25026 601659	59435 696323	130707	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Pentachlorophenol	PHN	Lin1	764114	16182 1153973	43647 1558037	105951 1937678	296110	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Phenanthrene	PHN	Ave	22598 2454518	112650 3592541	226309 4832869	467013 6108372	1005160	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Anthracene	PHN	Ave	15798 2537397	91971 3668301	196477 4982079	452219 6209443	1004362	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Carbazole	PHN	Ave	2393500	96410 3496931	199426 4773650	435677 5876009	963476	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Di-n-butyl phthalate	PHN	Ave	2697028	113654 3996191	218142 5495379	500324 6786140	1122340	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Fluoranthene	PHN	Ave	20877 2758426	105270 4053796	220359 5492589	491610 6901778	1116427	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzidine	CRY	Lin1	1453880	23367 2181137	66007 2925689	187472 3656982	486326	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Pyrene	CRY	Ave	21286 2952020	111101 4274201	238740 5824508	537589 7376722	1184856	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Butyl benzyl phthalate	CRY	Lin1	1148070	26196 1670244	64414 2344618	175400 2943091	439794	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
3,3'-Dimethoxybenzidine	CRY	Lin	644291	+++++ 980453	19842 1405745	59170 1758714	180302	10.0	+++++ 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.: 240-21987-1 Analy Batch No.: 79445

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/26/2013 09:55 Calibration End Date: 03/26/2013 13:05 Calibration ID: 14262

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
3,3'-Dichlorobenzidine	CRY	Lin1	1170164	29140 1699140	72252 2301749	185338 2873193	434211	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4,4'-Methylene bis(2-chloroaniline)	CRY	Lin1	536889	12704 773696	30094 1073349	84964 1318451	202318	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Bis(2-ethylhexyl) phthalate	CRY	Lin1	1625244	36483 2400113	91978 3318999	251255 4162273	636213	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[a]anthracene	CRY	Ave	19392 2666598	96994 3899652	209380 5344271	479938 6724075	1068170	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Chrysene	CRY	Ave	20795 2427682	97913 3525022	207916 4752804	448733 5937855	957809	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Di-n-octyl phthalate	PRY	Qua	2488951	+++++ 3846324	102348 5433207	323955 6940428	944629	10.0	+++++ 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[b]fluoranthene	PRY	Ave	16792 2624632	90721 3786238	188361 5296452	466521 6763986	1032987	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[k]fluoranthene	PRY	Ave	18847 2738407	97415 4164952	217006 5538890	474465 6885986	1086750	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[a]pyrene	PRY	Lin1	9232 2518111	73637 3749884	169031 5172766	408458 6569717	990110	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	17580 2675286	83988 3922218	189677 5426465	464115 6780021	1058943	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dibenz(a,h)anthracene	PRY	Ave	14612 2204679	70122 3218513	155208 4434051	381276 5574031	869919	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	15863 2225735	82707 3285630	172894 4449370	392176 5613886	873393	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Fluorophenol (Surr)	DCB	Ave	1039757	43211 1483458	85886 2047130	194803 2507104	419804	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Phenol-d5 (Surr)	DCB	Ave	1385274	54982 1970716	117808 2680473	255567 3315929	561669	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Nitrobenzene-d5 (Surr)	NPT	Ave	7552 957271	34065 1389517	74698 1854040	170163 2314248	375505	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Fluorobiphenyl (Surr)	ANT	Ave	16465 1842894	83345 2632436	166030 3555754	345738 4466491	737748	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,6-Tribromophenol (Surr)	ANT	Lin1	294115	6925 433359	18218 577145	48551 742165	114313	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Terphenyl-d14 (Surr)	CRY	Ave	14821 1776880	71844 2615522	151757 3531872	328823 4396791	712539	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\A4HP7\20130326-18258.b\30326002.D		
Lims ID:	std5 tcl	Client ID:	
Inject. Date:	26-Mar-2013 09:55:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	240-0018258-002		
Misc. Info.:	STD5 TCL		
Operator:	001710	Instrument ID:	A4HP7
Injection Vol:	1.0 ul	ALS Bottle#:	2
Lims Batch ID:	79445	Lims Sample ID:	2
Sublist:	chrom-8270_hp7*sub15		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\8270_hp7.m		
Last Update:	27-Mar-2013 12:57:03	Calib Date:	26-Mar-2013 17:03:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326020.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK014		
First Level Reviewer: gruberj		Date:	26-Mar-2013 10:52:58

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.915	5.915	0.0	96	222626	4.00	
* 2 Naphthalene-d8	136	7.049	7.049	0.0	99	879595	4.00	
* 3 Acenaphthene-d10	164	8.557	8.557	0.0	92	507554	4.00	
* 4 Phenanthrene-d10	188	9.825	9.825	0.0	97	819674	4.00	
* 5 Chrysene-d12	240	12.408	12.408	0.0	96	912099	4.00	
* 6 Perylene-d12	264	14.505	14.505	0.0	97	754313	4.00	
$ 7 2-Fluorophenol	112	4.631	4.631	0.0	93	419804	4.75	
$ 8 Phenol-d5	99	5.546	5.546	0.0	89	561669	4.80	
$ 9 Nitrobenzene-d5	82	6.407	6.407	0.0	89	375505	4.79	
$ 10 2-Fluorobiphenyl (Surr)	172	7.969	7.969	0.0	99	737748	4.65	
$ 11 2,4,6-Tribromophenol	330	9.226	9.226	0.0	90	114313	4.58	
$ 12 Terphenyl-d14	244	11.199	11.199	0.0	98	712539	4.70	
24 1,4-Dioxane	88	2.363	2.363	0.0	90	175291	4.69	M
25 N-Nitrosodimethylamine	74	2.823	2.823	0.0	88	224396	4.85	
26 Pyridine	79	2.877	2.877	0.0	97	436263	4.97	
27 Ethyl methacrylate	69	3.567	3.567	0.0	87	279337	4.81	
28 3-Chloropropionitrile	54	3.957	3.957	0.0	85	199938	4.84	
32 Malononitrile	66	4.310	4.310	0.0	95	377208	4.79	
40 Benzaldehyde	77	5.514	5.514	0.0	93	294959	4.97	
41 Phenol	94	5.562	5.562	0.0	98	593175	4.81	
43 Aniline	93	5.610	5.610	0.0	98	665435	4.75	
44 Bis(2-chloroethyl)ether	93	5.664	5.664	0.0	96	373342	4.72	
46 2-Chlorophenol	128	5.717	5.717	0.0	95	453165	4.74	
47 1,3-Dichlorobenzene	146	5.867	5.867	0.0	97	394229	4.74	
48 1,4-Dichlorobenzene	146	5.931	5.931	0.0	92	490425	4.75	
49 Benzyl alcohol	108	6.027	6.027	0.0	91	291870	4.88	
50 1,2-Dichlorobenzene	146	6.070	6.070	0.0	94	372265	4.69	
51 2-Methylphenol	108	6.118	6.118	0.0	96	419119	4.74	
52 2,2'-oxybis[1-chloropropane]	45	6.150	6.150	0.0	90	381361	4.61	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
191 3 & 4 Methylphenol	108	6.252	6.252	0.0	97	438147	4.74	
56 N-Nitrosodi-n-propylamine	70	6.268	6.268	0.0	76	246099	4.88	
57 Acetophenone	105	6.273	6.273	0.0	91	499245	4.75	
60 Hexachloroethane	117	6.375	6.375	0.0	91	145159	4.63	
61 Nitrobenzene	77	6.423	6.423	0.0	83	390254	4.74	
63 Isophorone	82	6.632	6.632	0.0	99	633525	4.69	
65 2-Nitrophenol	139	6.707	6.707	0.0	97	201326	4.29	
66 1,3,5-Trichlorobenzene	180	6.717	6.717	0.0	95	322928	4.72	
64 2,4-Dimethylphenol	107	6.723	6.723	0.0	94	442644	4.66	
69 Benzoic acid	122	6.765	6.765	0.0	84	331850	9.16	
68 Bis(2-chloroethoxy)methane	93	6.814	6.814	0.0	98	445478	4.77	
71 2,4-Dichlorophenol	162	6.910	6.910	0.0	95	350330	4.70	
72 1,2,4-Trichlorobenzene	180	6.990	6.990	0.0	92	317142	4.58	
73 Naphthalene	128	7.065	7.065	0.0	96	983982	4.57	
74 4-Chloroaniline	127	7.097	7.097	0.0	86	473280	4.73	
77 Hexachlorobutadiene	225	7.167	7.167	0.0	94	167968	4.57	
78 1,2,3-Trichlorobenzene	180	7.188	7.188	0.0	91	298551	0	
83 Caprolactam	113	7.380	7.380	0.0	78	92945	5.00	
84 4-Chloro-3-methylphenol	107	7.498	7.498	0.0	95	384172	4.86	
85 2-Methylnaphthalene	142	7.659	7.659	0.0	91	621660	4.60	
86 1-Methylnaphthalene	142	7.750	7.750	0.0	91	605948	4.60	
88 Hexachlorocyclopentadiene	237	7.792	7.792	0.0	91	158855	4.38	
87 1,2,3,5-Tetrachlorobenzene	216	7.792	7.792	0.0	95	310286	4.80	
90 2,4,6-Trichlorophenol	196	7.889	7.889	0.0	93	243352	4.77	
91 2,4,5-Trichlorophenol	196	7.921	7.921	0.0	94	266711	4.74	
94 2,4-Toluene diamine	121	8.033	8.033	0.0	96	112008	4.44	
96 1,2,3,4 -Tetrachlorobenzene	216	8.049	8.049	0.0	94	302630	0	
95 1,1'-Biphenyl	154	8.054	8.054	0.0	94	751588	4.68	
98 2-Chloronaphthalene	162	8.081	8.081	0.0	96	654317	4.69	
100 2-Nitroaniline	65	8.151	8.151	0.0	83	194347	4.39	
103 Dimethyl phthalate	163	8.295	8.295	0.0	98	681802	4.80	
105 2,6-Dinitrotoluene	165	8.354	8.354	0.0	95	143554	4.44	
106 1,2-Dinitrobenzene	168	8.402	8.402	0.0	86	71186	4.34	
107 Acenaphthylene	152	8.440	8.440	0.0	94	956467	4.86	
108 3-Nitroaniline	138	8.498	8.498	0.0	93	187468	4.49	
110 Acenaphthene	153	8.584	8.584	0.0	94	600263	4.85	
109 2,4-Dinitrophenol	184	8.589	8.589	0.0	68	122402	8.68	
111 4-Nitrophenol	109	8.611	8.611	0.0	91	125414	4.51	
112 2,4-Dinitrotoluene	165	8.696	8.696	0.0	91	195107	4.42	
114 Dibenzofuran	168	8.728	8.728	0.0	90	874981	4.66	
115 2,3,5,6-Tetrachlorophenol	232	8.787	8.787	0.0	92	214800	4.56	
119 Diethyl phthalate	149	8.894	8.894	0.0	98	653925	4.82	
121 4-Chlorophenyl phenyl ether	204	9.012	9.012	0.0	93	346563	4.73	
123 4-Nitroaniline	138	9.017	9.017	0.0	85	189097	4.63	
124 Fluorene	166	9.023	9.023	0.0	84	727496	4.84	
126 4,6-Dinitro-2-methylphenol	198	9.044	9.044	0.0	84	98836	4.22	
130 N-Nitrosodiphenylamine	169	9.108	9.108	0.0	0	574983	4.78	
131 Azobenzene	77	9.146	9.146	0.0	98	779062	4.81	
129 1,2-Diphenylhydrazine	77	9.146	9.146	0.0	0	779062	4.81	
137 4-Bromophenyl phenyl ether	248	9.429	9.429	0.0	65	197505	4.66	
139 Hexachlorobenzene	284	9.493	9.493	0.0	90	198445	4.50	
140 Atrazine	200	9.541	9.541	0.0	89	130707	4.96	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
141 Pentachlorophenol	266	9.648	9.648	0.0	85	296110	8.97	
146 Phenanthrene	178	9.846	9.846	0.0	97	1005160	4.58	
147 Anthracene	178	9.889	9.889	0.0	97	1004362	4.88	
149 Carbazole	167	10.012	10.012	0.0	82	963476	4.70	
151 Di-n-butyl phthalate	149	10.279	10.279	0.0	100	1122340	4.78	
157 Fluoranthene	202	10.862	10.862	0.0	98	1116427	4.82	
158 Benzidine	184	10.964	10.964	0.0	99	486326	4.14	
160 Pyrene	202	11.076	11.076	0.0	97	1184856	4.85	
166 Butyl benzyl phthalate	149	11.686	11.686	0.0	96	439794	4.54	
170 3,3'-Dimethoxybenzidine	244	12.301	12.301	0.0	90	180302	4.21	
172 4,4'-Methylene bis(2-chloroanili	231	12.344	12.344	0.0	72	202318	4.54	
173 3,3'-Dichlorobenzidine	252	12.344	12.344	0.0	68	434211	4.48	
171 Bis(2-ethylhexyl) phthalate	149	12.381	12.381	0.0	89	636213	4.61	
175 Benzo[a]anthracene	228	12.398	12.398	0.0	97	1068170	4.86	
176 Chrysene	228	12.446	12.446	0.0	94	957809	4.64	
178 Di-n-octyl phthalate	149	13.301	13.301	0.0	99	944629	5.07	
180 Benzo[b]fluoranthene	252	13.917	13.917	0.0	94	1032987	4.87	
181 Benzo[k]fluoranthene	252	13.959	13.959	0.0	98	1086750	4.80	
182 Benzo[a]pyrene	252	14.419	14.419	0.0	73	990110	4.42	
186 Indeno[1,2,3-cd]pyrene	276	16.179	16.179	0.0	98	1058943	4.94	
187 Dibenz(a,h)anthracene	278	16.211	16.211	0.0	81	869919	4.93	
188 Benzo[g,h,i]perylene	276	16.634	16.634	0.0	92	873393	4.74	
S 189 Methyl Phenols,Total	100				0		4.74	

QC Flag Legend

Review Flags
M - Manually Integrated

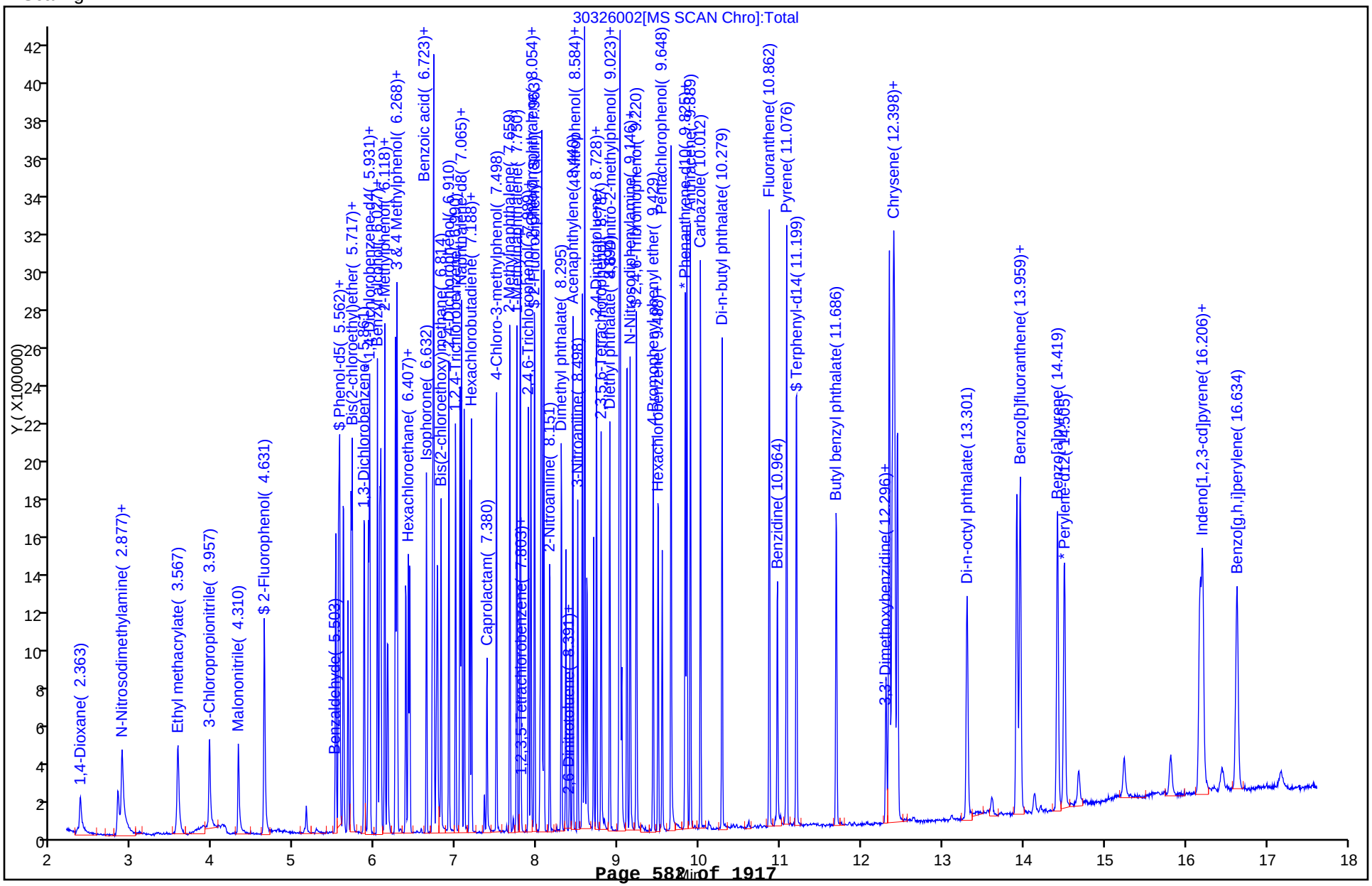
Report Date: 27-Mar-2013 12:57:03 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326002.D

Injection Date:	26-Mar-2013 09:55:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	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

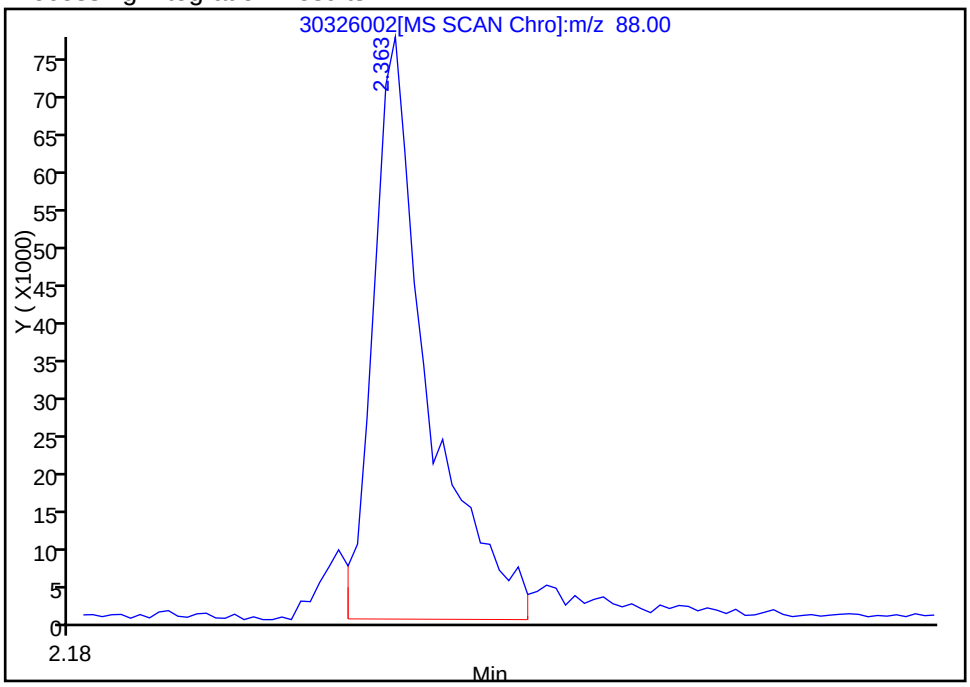
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326002.D		
Injection Date:	26-Mar-2013 09:55:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	Lims Sample ID:	2
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

24 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 2.36

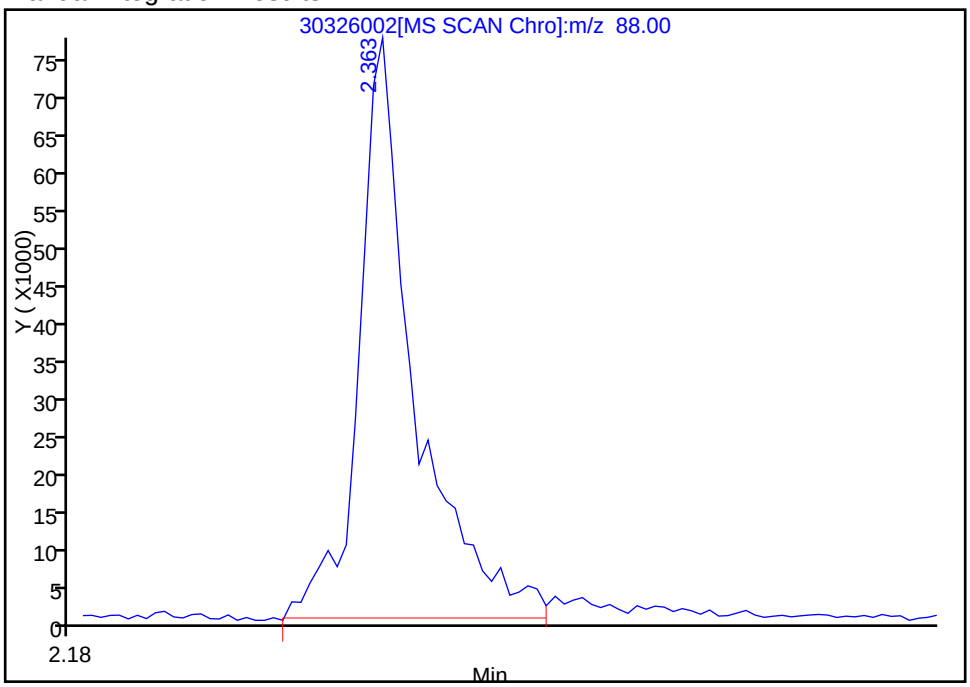
Processing Integration Results

RT: 2.36
Response: 165054
Amount: 4.789645



Manual Integration Results

RT: 2.36
Response: 175291
Amount: 4.686416



Reviewer: gruberj, 26-Mar-2013 10:52:58
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326003.D		
Lims ID:	std4 tcl	Client ID:	
Inject. Date:	26-Mar-2013 10:18:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	240-0018258-003		
Misc. Info.:	STD4 TCL		
Operator:	001710	Instrument ID:	A4HP7
Injection Vol:	1.0 ul	ALS Bottle#:	3
Lims Batch ID:	79445	Lims Sample ID:	3
Sublist:	chrom-8270_hp7*sub15		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\8270_hp7.m		
Last Update:	27-Mar-2013 12:57:05	Calib Date:	26-Mar-2013 17:03:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326020.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK014		
First Level Reviewer: gruberj		Date:	26-Mar-2013 10:54:02

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.915	5.915	0.0	97	228197	4.00	
* 2 Naphthalene-d8	136	7.049	7.049	0.0	99	910352	4.00	
* 3 Acenaphthene-d10	164	8.557	8.557	0.0	93	527902	4.00	
* 4 Phenanthrene-d10	188	9.825	9.825	0.0	98	841807	4.00	
* 5 Chrysene-d12	240	12.408	12.408	0.0	97	951119	4.00	
* 6 Perylene-d12	264	14.505	14.505	0.0	97	765241	4.00	
$ 7 2-Fluorophenol	112	4.631	4.631	0.0	90	194803	2.15	
$ 8 Phenol-d5	99	5.546	5.546	0.0	94	255567	2.13	
$ 9 Nitrobenzene-d5	82	6.407	6.407	0.0	89	170163	2.10	
$ 10 2-Fluorobiphenyl (Surr)	172	7.963	7.969	-0.006	99	345738	2.10	
$ 11 2,4,6-Tribromophenol	330	9.226	9.226	0.0	88	48551	2.06	
$ 12 Terphenyl-d14	244	11.199	11.199	0.0	97	328823	2.08	
24 1,4-Dioxane	88	2.358	2.363	-0.005	87	77161	2.01	M
25 N-Nitrosodimethylamine	74	2.818	2.823	-0.005	92	88758	1.87	
26 Pyridine	79	2.872	2.877	-0.005	97	181927	2.02	
27 Ethyl methacrylate	69	3.562	3.567	-0.005	87	121581	2.04	
28 3-Chloropropionitrile	54	3.952	3.957	-0.005	87	95983	2.27	
32 Malononitrile	66	4.310	4.310	0.0	95	178303	2.21	
40 Benzaldehyde	77	5.514	5.514	0.0	95	140327	2.31	
41 Phenol	94	5.562	5.562	0.0	98	269737	2.13	
43 Aniline	93	5.605	5.610	-0.005	97	308335	2.15	
44 Bis(2-chloroethyl)ether	93	5.664	5.664	0.0	98	176434	2.18	
46 2-Chlorophenol	128	5.717	5.717	0.0	95	214405	2.19	
47 1,3-Dichlorobenzene	146	5.861	5.867	-0.006	96	182081	2.13	
48 1,4-Dichlorobenzene	146	5.931	5.931	0.0	92	226202	2.14	
49 Benzyl alcohol	108	6.027	6.027	0.0	90	133277	2.17	
50 1,2-Dichlorobenzene	146	6.070	6.070	0.0	94	174496	2.15	
51 2-Methylphenol	108	6.118	6.118	0.0	96	194676	2.15	
52 2,2'-oxybis[1-chloropropane]	45	6.150	6.150	0.0	92	188170	2.22	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
191 3 & 4 Methylphenol	108	6.252	6.252	0.0	96	211669	2.23	
56 N-Nitrosodi-n-propylamine	70	6.263	6.268	-0.005	82	113569	2.20	
57 Acetophenone	105	6.268	6.273	-0.005	94	231481	2.15	
60 Hexachloroethane	117	6.375	6.375	0.0	91	66905	2.08	
61 Nitrobenzene	77	6.423	6.423	0.0	85	177885	2.09	
63 Isophorone	82	6.632	6.632	0.0	99	289474	2.07	
65 2-Nitrophenol	139	6.707	6.707	-0.001	96	85528	1.95	
66 1,3,5-Trichlorobenzene	180	6.717	6.717	0.0	95	156259	2.21	
64 2,4-Dimethylphenol	107	6.723	6.723	0.0	85	215812	2.19	
69 Benzoic acid	122	6.755	6.765	-0.010	83	93469	4.07	
68 Bis(2-chloroethoxy)methane	93	6.813	6.814	-0.001	96	209910	2.17	
71 2,4-Dichlorophenol	162	6.910	6.910	0.0	94	163752	2.12	
72 1,2,4-Trichlorobenzene	180	6.990	6.990	0.0	93	148648	2.07	
73 Naphthalene	128	7.065	7.065	0.0	91	469037	2.10	
74 4-Chloroaniline	127	7.097	7.097	0.0	85	213873	2.07	
77 Hexachlorobutadiene	225	7.166	7.167	-0.001	93	79508	2.09	
78 1,2,3-Trichlorobenzene	180	7.188	7.188	0.0	89	139463	0	
83 Caprolactam	113	7.375	7.380	-0.005	82	39905	2.08	
84 4-Chloro-3-methylphenol	107	7.493	7.498	-0.005	94	170804	2.09	
85 2-Methylnaphthalene	142	7.659	7.659	0.0	92	301470	2.15	
86 1-Methylnaphthalene	142	7.749	7.750	-0.001	91	292773	2.15	
88 Hexachlorocyclopentadiene	237	7.792	7.792	0.0	87	66896	1.95	
87 1,2,3,5-Tetrachlorobenzene	216	7.792	7.792	0.0	95	144535	2.15	
90 2,4,6-Trichlorophenol	196	7.894	7.889	0.005	91	112954	2.13	
91 2,4,5-Trichlorophenol	196	7.921	7.921	0.0	92	125615	2.15	
94 2,4-Toluene diamine	121	8.033	8.033	0.0	94	77759	2.82	
96 1,2,3,4 -Tetrachlorobenzene	216	8.049	8.049	0.0	92	142705	0	
95 1,1'-Biphenyl	154	8.054	8.054	0.0	90	360635	2.16	
98 2-Chloronaphthalene	162	8.081	8.081	0.0	95	311456	2.15	
100 2-Nitroaniline	65	8.151	8.151	0.0	75	83232	1.99	
103 Dimethyl phthalate	163	8.295	8.295	0.0	98	317373	2.15	
105 2,6-Dinitrotoluene	165	8.354	8.354	0.0	92	54230	1.83	
106 1,2-Dinitrobenzene	168	8.402	8.402	0.0	86	29949	1.96	
107 Acenaphthylene	152	8.439	8.440	-0.001	90	439256	2.14	
108 3-Nitroaniline	138	8.498	8.498	0.0	92	79408	2.03	
110 Acenaphthene	153	8.584	8.584	0.0	93	277426	2.16	
109 2,4-Dinitrophenol	184	8.589	8.589	0.0	64	31802	4.57	
111 4-Nitrophenol	109	8.616	8.611	0.005	86	48766	2.01	
112 2,4-Dinitrotoluene	165	8.696	8.696	0.0	83	80286	1.98	
114 Dibenzofuran	168	8.728	8.728	0.0	94	416696	2.13	
115 2,3,5,6-Tetrachlorophenol	232	8.787	8.787	0.0	92	88788	2.01	
119 Diethyl phthalate	149	8.894	8.894	0.0	98	299274	2.12	
121 4-Chlorophenyl phenyl ether	204	9.012	9.012	0.0	93	162909	2.14	
123 4-Nitroaniline	138	9.017	9.017	0.0	81	75359	1.97	
124 Fluorene	166	9.022	9.023	-0.001	85	337549	2.16	
126 4,6-Dinitro-2-methylphenol	198	9.044	9.044	0.0	74	34328	2.39	
130 N-Nitrosodiphenylamine	169	9.103	9.108	-0.005	0	263876	2.14	
131 Azobenzene	77	9.145	9.146	-0.001	98	356569	2.14	
129 1,2-Diphenylhydrazine	77	9.145	9.146	-0.001	0	356569	2.14	
137 4-Bromophenyl phenyl ether	248	9.429	9.429	0.0	64	93120	2.14	
139 Hexachlorobenzene	284	9.493	9.493	0.0	88	93169	2.06	
140 Atrazine	200	9.541	9.541	0.0	88	59435	2.19	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
141 Pentachlorophenol	266	9.648	9.648	0.0	85	105951	3.65	
146 Phenanthrene	178	9.846	9.846	0.0	95	467013	2.07	
147 Anthracene	178	9.889	9.889	0.0	98	452219	2.14	
149 Carbazole	167	10.012	10.012	0.0	86	435677	2.07	
151 Di-n-butyl phthalate	149	10.279	10.279	0.0	100	500324	2.07	
157 Fluoranthene	202	10.862	10.862	0.0	98	491610	2.07	
158 Benzidine	184	10.964	10.964	0.0	98	187472	1.83	
160 Pyrene	202	11.076	11.076	0.0	97	537589	2.11	
166 Butyl benzyl phthalate	149	11.686	11.686	0.0	96	175400	1.96	
170 3,3'-Dimethoxybenzidine	244	12.301	12.301	0.0	93	59170	2.38	
172 4,4'-Methylene bis(2-chloroanili	231	12.344	12.344	0.0	73	84964	2.02	
173 3,3'-Dichlorobenzidine	252	12.339	12.344	-0.005	70	185338	2.01	
171 Bis(2-ethylhexyl) phthalate	149	12.381	12.381	0.0	96	251255	1.97	
175 Benzo[a]anthracene	228	12.392	12.398	-0.006	97	479938	2.09	
176 Chrysene	228	12.446	12.446	0.0	94	448733	2.08	
178 Di-n-octyl phthalate	149	13.301	13.301	0.0	98	323955	2.07	
180 Benzo[b]fluoranthene	252	13.916	13.917	-0.001	94	466521	2.17	
181 Benzo[k]fluoranthene	252	13.959	13.959	0.0	90	474465	2.07	
182 Benzo[a]pyrene	252	14.414	14.419	-0.005	74	408458	1.86	
186 Indeno[1,2,3-cd]pyrene	276	16.168	16.179	-0.011	97	464115	2.13	
187 Dibenz(a,h)anthracene	278	16.206	16.211	-0.005	73	381276	2.13	
188 Benzo[g,h,i]perylene	276	16.628	16.634	-0.006	91	392176	2.10	
S 189 Methyl Phenols,Total	100				0		2.15	

QC Flag Legend

Review Flags
M - Manually Integrated

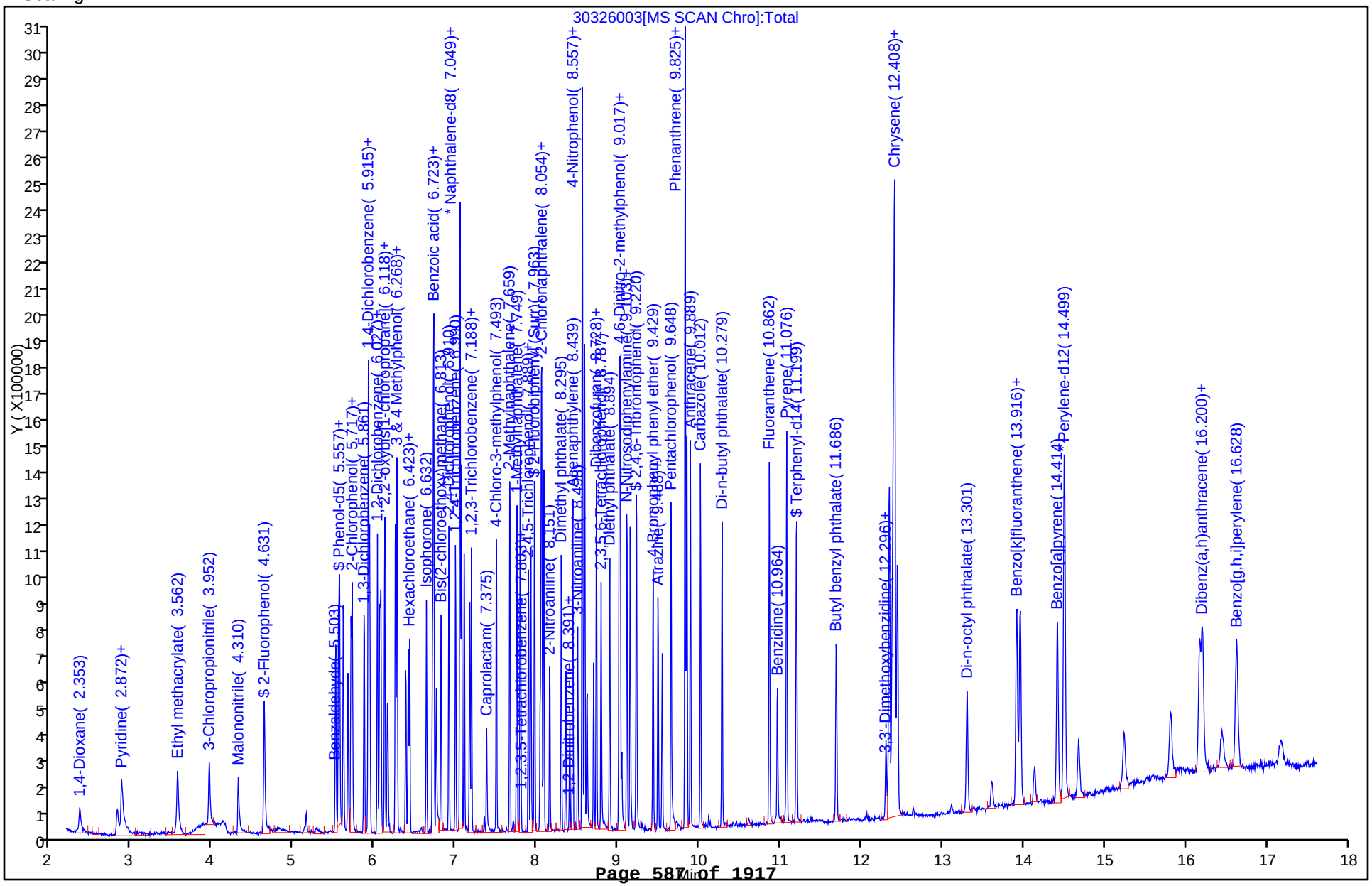
Report Date: 27-Mar-2013 12:57:06 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326003.D

Injection Date:	26-Mar-2013 10:18:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	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

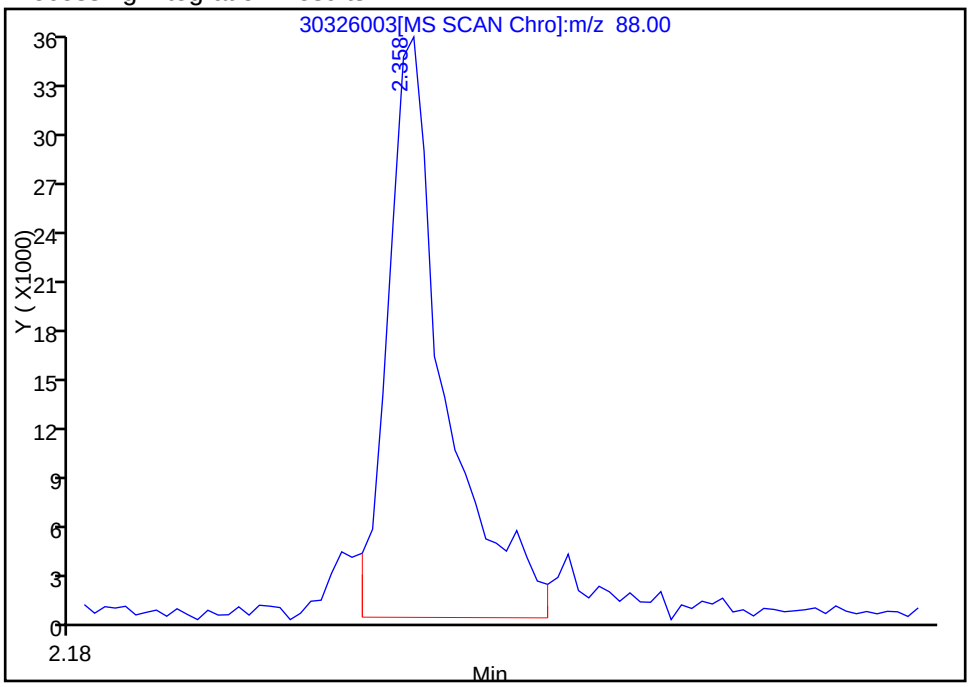
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326003.D		
Injection Date:	26-Mar-2013 10:18:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	Lims Sample ID:	3
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

24 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 2.36

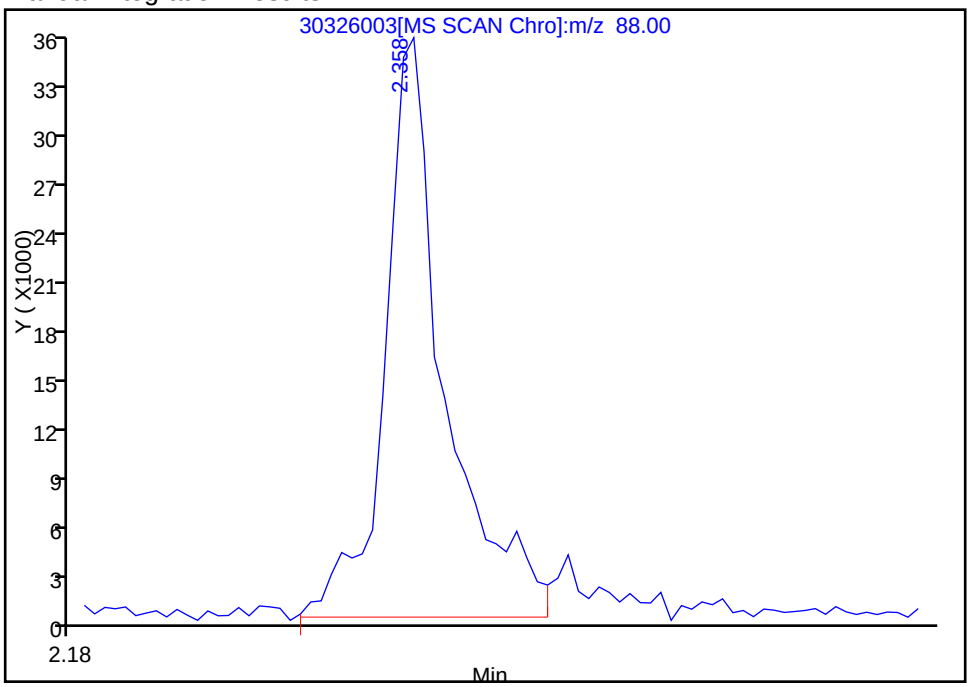
Processing Integration Results

RT: 2.36
Response: 73618
Amount: 2.024016



Manual Integration Results

RT: 2.36
Response: 77161
Amount: 2.012542



Reviewer: gruberj, 26-Mar-2013 10:54:02
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326004.D		
Lims ID:	std3 tcl	Client ID:	
Inject. Date:	26-Mar-2013 10:42:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	240-0018258-004		
Misc. Info.:	STD3 TCL		
Operator:	001710	Instrument ID:	A4HP7
Injection Vol:	1.0 ul	ALS Bottle#:	4
Lims Batch ID:	79445	Lims Sample ID:	4
Sublist:	chrom-8270_hp7*sub15		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\8270_hp7.m		
Last Update:	27-Mar-2013 12:57:07	Calib Date:	26-Mar-2013 17:03:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326020.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK014		
First Level Reviewer: gruberj		Date:	27-Mar-2013 12:56:13

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.915	5.915	0.0	96	232877	4.00	
* 2 Naphthalene-d8	136	7.043	7.049	-0.006	99	921952	4.00	
* 3 Acenaphthene-d10	164	8.557	8.557	0.0	92	533644	4.00	
* 4 Phenanthrene-d10	188	9.825	9.825	0.0	98	832691	4.00	
* 5 Chrysene-d12	240	12.408	12.408	0.0	97	930867	4.00	
* 6 Perylene-d12	264	14.499	14.505	-0.006	97	755801	4.00	
$ 7 2-Fluorophenol	112	4.631	4.631	0.0	88	85886	0.9291	
$ 8 Phenol-d5	99	5.546	5.546	0.0	94	117808	0.9631	
$ 9 Nitrobenzene-d5	82	6.407	6.407	0.0	87	74698	0.9087	
$ 10 2-Fluorobiphenyl (Surr)	172	7.963	7.969	-0.006	99	166030	1.00	
$ 11 2,4,6-Tribromophenol	330	9.226	9.226	0.0	86	18218	0.9690	
$ 12 Terphenyl-d14	244	11.199	11.199	0.0	98	151757	0.9802	
24 1,4-Dioxane	88	2.353	2.363	-0.010	89	36827	0.9412	M
25 N-Nitrosodimethylamine	74	2.818	2.823	-0.005	92	45391	0.9374	
26 Pyridine	79	2.882	2.877	0.005	92	74575	0.8118	
27 Ethyl methacrylate	69	3.561	3.567	-0.006	85	57169	0.9410	
28 3-Chloropropionitrile	54	3.952	3.957	-0.005	85	37773	0.8735	
32 Malononitrile	66	4.310	4.310	0.0	94	69504	0.8440	
40 Benzaldehyde	77	5.508	5.514	-0.006	96	63879	1.03	
41 Phenol	94	5.562	5.562	0.0	97	125239	0.9702	
43 Aniline	93	5.605	5.610	-0.006	98	139172	0.9503	
44 Bis(2-chloroethyl)ether	93	5.663	5.664	-0.001	95	84164	1.02	
46 2-Chlorophenol	128	5.717	5.717	0.0	94	98562	0.9845	
47 1,3-Dichlorobenzene	146	5.861	5.867	-0.006	93	83901	0.9637	
48 1,4-Dichlorobenzene	146	5.931	5.931	0.0	80	110176	1.02	
49 Benzyl alcohol	108	6.027	6.027	0.0	92	56392	0.9016	
50 1,2-Dichlorobenzene	146	6.070	6.070	0.0	92	80310	0.9680	
51 2-Methylphenol	108	6.118	6.118	0.0	94	92640	1.00	
52 2,2'-oxybis[1-chloropropane]	45	6.150	6.150	0.0	89	86681	1.00	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
191 3 & 4 Methylphenol	108	6.246	6.252	-0.006	96	92168	0.9530	
56 N-Nitrosodi-n-propylamine	70	6.262	6.268	-0.006	77	51095	0.9683	
57 Acetophenone	105	6.268	6.273	-0.005	94	106715	0.9701	
60 Hexachloroethane	117	6.375	6.375	0.0	86	30360	0.9249	
61 Nitrobenzene	77	6.423	6.423	0.0	89	77754	0.9008	
63 Isophorone	82	6.631	6.632	-0.001	99	126917	0.8969	
65 2-Nitrophenol	139	6.706	6.707	-0.001	94	33937	0.9633	
66 1,3,5-Trichlorobenzene	180	6.717	6.717	0.0	95	70332	0.9808	
64 2,4-Dimethylphenol	107	6.722	6.723	-0.001	93	98916	0.99	
69 Benzoic acid	122	6.749	6.765	-0.016	80	20122	2.49	
68 Bis(2-chloroethoxy)methane	93	6.813	6.814	-0.001	96	97678	1.00	
71 2,4-Dichlorophenol	162	6.910	6.910	0.0	94	74862	0.9579	
72 1,2,4-Trichlorobenzene	180	6.990	6.990	0.0	89	74414	1.02	
73 Naphthalene	128	7.065	7.065	0.0	97	217009	0.9616	
74 4-Chloroaniline	127	7.097	7.097	0.0	84	97600	0.9306	
77 Hexachlorobutadiene	225	7.166	7.167	-0.001	90	38679	1.00	
78 1,2,3-Trichlorobenzene	180	7.188	7.188	0.0	86	66243	0	
83 Caprolactam	113	7.375	7.380	-0.005	80	14688	0.7542	
84 4-Chloro-3-methylphenol	107	7.493	7.498	-0.005	92	77246	0.9326	
85 2-Methylnaphthalene	142	7.658	7.659	-0.001	90	139527	0.9845	
86 1-Methylnaphthalene	142	7.744	7.750	-0.006	91	132614	0.9604	
88 Hexachlorocyclopentadiene	237	7.792	7.792	0.0	84	27176	0.9661	
87 1,2,3,5-Tetrachlorobenzene	216	7.787	7.792	-0.005	95	69397	1.02	
90 2,4,6-Trichlorophenol	196	7.888	7.889	-0.001	90	46661	0.8706	
91 2,4,5-Trichlorophenol	196	7.920	7.921	-0.001	94	53888	0.9104	
94 2,4-Toluene diamine	121	8.033	8.033	0.0	95	43715	1.26	
96 1,2,3,4 -Tetrachlorobenzene	216	8.043	8.049	-0.006	93	67041	0	
95 1,1'-Biphenyl	154	8.054	8.054	0.0	95	166539	0.9863	
98 2-Chloronaphthalene	162	8.081	8.081	0.0	96	144431	0.9852	
100 2-Nitroaniline	65	8.150	8.151	-0.001	73	32660	0.9668	
103 Dimethyl phthalate	163	8.295	8.295	0.0	97	142683	0.9553	
105 2,6-Dinitrotoluene	165	8.354	8.354	0.0	93	24119	1.00	
106 1,2-Dinitrobenzene	168	8.402	8.402	0.0	85	12340	1.00	
107 Acenaphthylene	152	8.439	8.440	-0.001	93	192722	0.9305	
108 3-Nitroaniline	138	8.498	8.498	0.0	92	31106	0.9870	
110 Acenaphthene	153	8.584	8.584	0.0	94	128675	0.9895	
109 2,4-Dinitrophenol	184		8.589					
111 4-Nitrophenol	109	8.616	8.611	0.005	85	19475	1.11	
112 2,4-Dinitrotoluene	165	8.696	8.696	0.0	86	29834	0.9654	
114 Dibenzofuran	168	8.728	8.728	0.0	88	194227	0.9832	
115 2,3,5,6-Tetrachlorophenol	232	8.787	8.787	0.0	87	37463	1.03	
119 Diethyl phthalate	149	8.894	8.894	0.0	96	136196	0.9539	
121 4-Chlorophenyl phenyl ether	204	9.012	9.012	0.0	91	76940	1.00	
123 4-Nitroaniline	138	9.017	9.017	0.0	78	27436	0.9148	
124 Fluorene	166	9.022	9.023	-0.001	86	156219	0.9892	
126 4,6-Dinitro-2-methylphenol	198	9.044	9.044	0.0	52	9817	1.72	
130 N-Nitrosodiphenylamine	169	9.103	9.108	-0.005	0	113712	0.9314	
131 Azobenzene	77	9.145	9.146	-0.001	98	152850	0.9280	
129 1,2-Diphenylhydrazine	77	9.145	9.146	-0.001	0	152850	0.9280	
137 4-Bromophenyl phenyl ether	248	9.429	9.429	0.0	62	41720	0.9680	
139 Hexachlorobenzene	284	9.493	9.493	0.0	88	42695	0.9535	
140 Atrazine	200	9.541	9.541	0.0	89	25026	0.9343	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
141 Pentachlorophenol	266	9.648	9.648	0.0	81	43647	1.99	
146 Phenanthrene	178	9.846	9.846	0.0	91	226309	1.02	
147 Anthracene	178	9.889	9.889	0.0	98	196477	0.9400	
149 Carbazole	167	10.012	10.012	0.0	81	199426	0.9573	
151 Di-n-butyl phthalate	149	10.279	10.279	0.0	100	218142	0.9145	
157 Fluoranthene	202	10.862	10.862	0.0	98	220359	0.9361	
158 Benzidine	184	10.964	10.964	0.0	96	66007	0.9606	
160 Pyrene	202	11.076	11.076	0.0	95	238740	0.9585	
166 Butyl benzyl phthalate	149	11.686	11.686	0.0	95	64414	0.9568	
170 3,3'-Dimethoxybenzidine	244	12.301	12.301	0.0	85	19842	1.83	
172 4,4'-Methylene bis(2-chloroanili	231	12.344	12.344	0.0	68	30094	0.9396	
173 3,3'-Dichlorobenzidine	252	12.338	12.344	-0.006	69	72252	0.9793	
171 Bis(2-ethylhexyl) phthalate	149	12.381	12.381	0.0	88	91978	0.9560	
175 Benzo[a]anthracene	228	12.392	12.398	-0.006	98	209380	0.9332	
176 Chrysene	228	12.445	12.446	-0.001	91	207916	0.9862	
178 Di-n-octyl phthalate	149	13.301	13.301	0.0	98	102348	0.9669	
180 Benzo[b]fluoranthene	252	13.916	13.917	-0.001	94	188361	0.8856	
181 Benzo[k]fluoranthene	252	13.954	13.959	-0.005	94	217006	0.9575	
182 Benzo[a]pyrene	252	14.414	14.419	-0.005	75	169031	0.8441	
186 Indeno[1,2,3-cd]pyrene	276	16.179	16.179	0.0	97	189677	0.8829	
187 Dibenz(a,h)anthracene	278	16.211	16.211	0.0	74	155208	0.8779	
188 Benzo[g,h,i]perylene	276	16.623	16.634	-0.011	89	172894	0.9370	
S 189 Methyl Phenols,Total	100				0		1.00	

QC Flag Legend

Review Flags
M - Manually Integrated

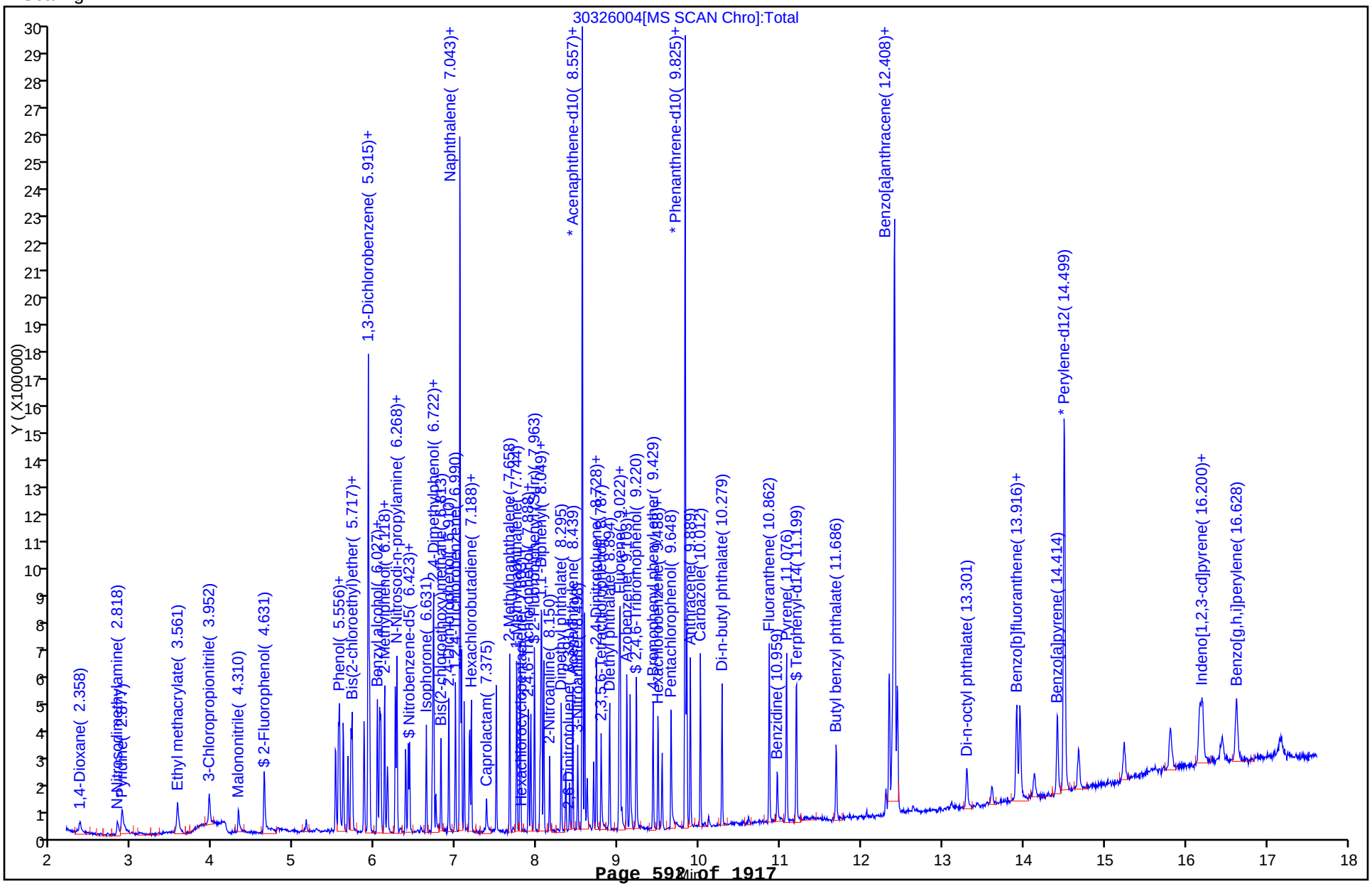
Report Date: 27-Mar-2013 12:57:07 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326004.D

Injection Date:	26-Mar-2013 10:42:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	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

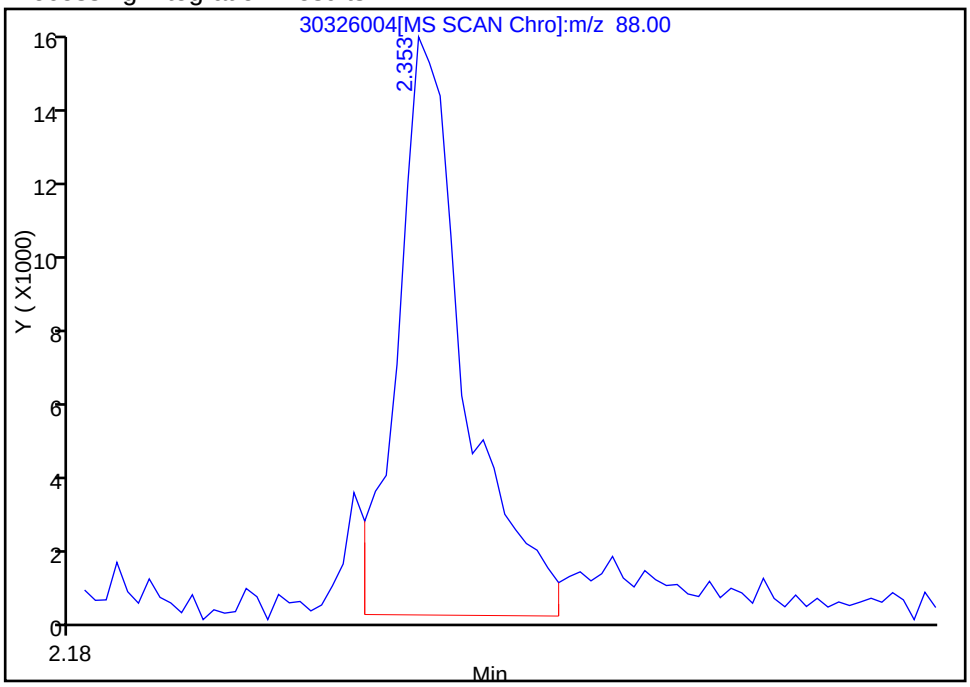
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326004.D		
Injection Date:	26-Mar-2013 10:42:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	Lims Sample ID:	4
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

24 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 2.36

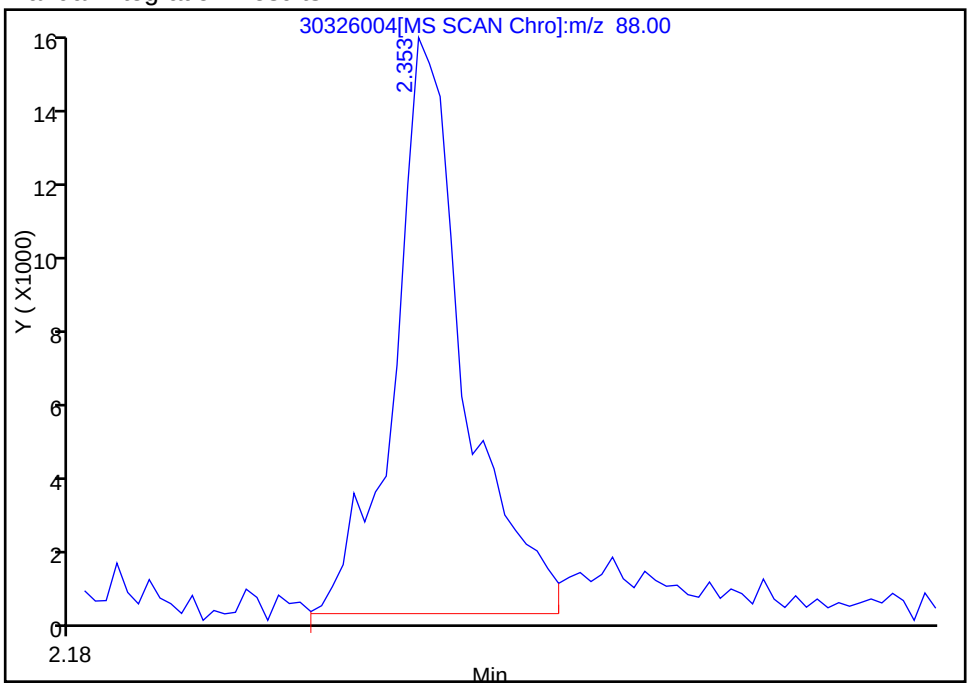
Processing Integration Results

RT: 2.35
Response: 35454
Amount: 0.953935



Manual Integration Results

RT: 2.35
Response: 36827
Amount: 0.941232



Reviewer: gruberj, 26-Mar-2013 11:11:13
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326005.D		
Lims ID:	std2 tcl	Client ID:	
Inject. Date:	26-Mar-2013 11:06:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	240-0018258-005		
Misc. Info.:	STD2 TCL		
Operator:	001710	Instrument ID:	A4HP7
Injection Vol:	1.0 ul	ALS Bottle#:	5
Lims Batch ID:	79445	Lims Sample ID:	5
Sublist:	chrom-8270_hp7*sub15		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\8270_hp7.m		
Last Update:	27-Mar-2013 12:57:47	Calib Date:	26-Mar-2013 17:03:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326020.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK014		
First Level Reviewer: gruberj		Date:	26-Mar-2013 11:29:15

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.915	5.915	0.0	97	245497	4.00	
* 2 Naphthalene-d8	136	7.043	7.043	0.0	100	955541	4.00	
* 3 Acenaphthene-d10	164	8.557	8.557	0.0	91	560495	4.00	
* 4 Phenanthrene-d10	188	9.825	9.825	0.0	98	888300	4.00	
* 5 Chrysene-d12	240	12.408	12.403	0.005	98	963467	4.00	
* 6 Perylene-d12	264	14.499	14.494	0.005	97	773556	4.00	
$ 7 2-Fluorophenol	112	4.631	4.631	0.0	86	43211	0.4434	
$ 8 Phenol-d5	99	5.546	5.546	0.0	92	54982	0.4264	
$ 9 Nitrobenzene-d5	82	6.407	6.407	0.0	87	34065	0.3999	
$ 10 2-Fluorobiphenyl (Surr)	172	7.963	7.963	0.0	98	83345	0.4758	
$ 11 2,4,6-Tribromophenol	330	9.226	9.226	0.0	74	6925	0.5572	
$ 12 Terphenyl-d14	244	11.194	11.194	0.0	96	71844	0.4484	
24 1,4-Dioxane	88	2.363	2.353	0.010	86	23407	0.5675	M
25 N-Nitrosodimethylamine	74	2.829	2.813	0.016	84	21784	0.4267	
26 Pyridine	79	2.882	2.866	0.016	96	41224	0.4257	M
27 Ethyl methacrylate	69	3.561	3.561	0.0	79	27715	0.4327	M
28 3-Chloropropionitrile	54	3.957	3.952	0.005	76	17407	0.3819	
32 Malononitrile	66	4.316	4.310	0.006	96	31499	0.3628	
40 Benzaldehyde	77	5.514	5.508	0.006	91	33038	0.5048	
41 Phenol	94	5.562	5.562	0.0	95	59043	0.4339	
43 Aniline	93	5.605	5.605	0.0	97	68584	0.4442	
44 Bis(2-chloroethyl)ether	93	5.663	5.663	0.0	94	37974	0.4358	
46 2-Chlorophenol	128	5.717	5.717	0.0	92	45248	0.4287	
47 1,3-Dichlorobenzene	146	5.861	5.861	0.0	94	43722	0.4764	
48 1,4-Dichlorobenzene	146	5.931	5.931	0.0	81	52455	0.4607	
49 Benzyl alcohol	108	6.027	6.027	0.0	87	25565	0.3877	
50 1,2-Dichlorobenzene	146	6.070	6.070	0.0	91	42135	0.4818	
51 2-Methylphenol	108	6.118	6.118	0.0	94	39906	0.4096	
52 2,2'-oxybis[1-chloropropane]	45	6.150	6.150	0.0	87	41645	0.4561	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
191 3 & 4 Methylphenol	108	6.246	6.252	-0.006	96	42843	0.4202	
56 N-Nitrosodi-n-propylamine	70	6.263	6.268	-0.005	83	23786	0.4276	
57 Acetophenone	105	6.268	6.268	0.0	91	53153	0.4583	
60 Hexachloroethane	117	6.375	6.375	0.0	88	15481	0.4474	
61 Nitrobenzene	77	6.423	6.423	0.0	87	38599	0.4315	
63 Isophorone	82	6.632	6.632	0.0	98	61335	0.4182	
65 2-Nitrophenol	139	6.706	6.706	0.0	92	15126	0.5998	
66 1,3,5-Trichlorobenzene	180	6.717	6.717	0.0	93	35120	0.4726	
64 2,4-Dimethylphenol	107	6.723	6.722	0.001	91	44870	0.4347	
69 Benzoic acid	122		6.792					
68 Bis(2-chloroethoxy)methane	93	6.813	6.813	0.0	89	44165	0.4356	
71 2,4-Dichlorophenol	162	6.910	6.910	0.0	93	32019	0.3953	
72 1,2,4-Trichlorobenzene	180	6.990	6.990	0.0	89	35095	0.4661	
73 Naphthalene	128	7.065	7.065	0.0	96	111184	0.4753	
74 4-Chloroaniline	127	7.097	7.097	0.0	85	47629	0.4382	
77 Hexachlorobutadiene	225	7.166	7.166	0.0	84	19107	0.4787	
78 1,2,3-Trichlorobenzene	180	7.188	7.188	0.0	87	33452	0	
83 Caprolactam	113		7.386					
84 4-Chloro-3-methylphenol	107	7.493	7.498	-0.005	90	31924	0.3719	
85 2-Methylnaphthalene	142	7.659	7.658	0.001	90	64788	0.4411	
86 1-Methylnaphthalene	142	7.744	7.744	0.0	94	68917	0.4816	
88 Hexachlorocyclopentadiene	237	7.792	7.792	0.0	71	12669	0.5970	
87 1,2,3,5-Tetrachlorobenzene	216	7.787	7.787	0.0	94	32391	0.4538	
90 2,4,6-Trichlorophenol	196	7.889	7.888	0.001	88	19518	0.3467	
91 2,4,5-Trichlorophenol	196	7.921	7.921	0.0	88	24247	0.3900	
94 2,4-Toluene diamine	121	8.033	8.033	0.0	88	16802	-0.0476	
96 1,2,3,4 -Tetrachlorobenzene	216	8.044	8.044	0.0	91	32706	0	
95 1,1'-Biphenyl	154	8.054	8.054	0.0	94	83349	0.4700	
98 2-Chloronaphthalene	162	8.081	8.081	0.0	92	70187	0.4558	
100 2-Nitroaniline	65	8.151	8.151	0.0	70	14164	0.5842	
103 Dimethyl phthalate	163	8.295	8.295	0.0	98	66037	0.4209	
105 2,6-Dinitrotoluene	165	8.354	8.354	0.0	83	9877	0.6038	
106 1,2-Dinitrobenzene	168	8.402	8.402	0.0	82	5001	0.5906	
107 Acenaphthylene	152	8.434	8.434	0.0	91	91954	0.4227	
108 3-Nitroaniline	138	8.498	8.498	0.0	89	11481	0.5607	
110 Acenaphthene	153	8.584	8.584	0.0	92	65578	0.4801	
109 2,4-Dinitrophenol	184		8.589					9
111 4-Nitrophenol	109		8.611					
112 2,4-Dinitrotoluene	165	8.696	8.696	0.0	85	11336	0.5897	
114 Dibenzofuran	168	8.728	8.728	0.0	86	95137	0.4585	
115 2,3,5,6-Tetrachlorophenol	232	8.787	8.787	0.0	89	11858	0.5366	
119 Diethyl phthalate	149	8.889	8.894	-0.005	95	65513	0.4369	
121 4-Chlorophenyl phenyl ether	204	9.006	9.006	0.0	96	36523	0.4511	
123 4-Nitroaniline	138	9.017	9.017	0.0	71	13349	0.5958	
124 Fluorene	166	9.022	9.022	0.0	91	74781	0.4508	
126 4,6-Dinitro-2-methylphenol	198		9.044					9
130 N-Nitrosodiphenylamine	169	9.103	9.103	0.0	0	52408	0.4024	
131 Azobenzene	77	9.145	9.145	0.0	98	70776	0.4028	
129 1,2-Diphenylhydrazine	77	9.145	9.145	0.0	0	70699	0.4024	
137 4-Bromophenyl phenyl ether	248	9.429	9.429	0.0	64	19981	0.4346	
139 Hexachlorobenzene	284	9.488	9.488	0.0	76	20144	0.4217	
140 Atrazine	200	9.541	9.541	0.0	76	10909	0.3818	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
141 Pentachlorophenol	266	9.654	9.648	0.006	78	16182	1.22	
146 Phenanthrene	178	9.846	9.841	0.005	93	112650	0.4740	
147 Anthracene	178	9.889	9.889	0.0	96	91971	0.4125	
149 Carbazole	167	10.012	10.012	0.0	81	96410	0.4338	
151 Di-n-butyl phthalate	149	10.279	10.279	0.0	99	113654	0.4467	
157 Fluoranthene	202	10.862	10.857	0.005	96	105270	0.4192	
158 Benzidine	184	10.959	10.959	0.0	90	23367	0.6394	
160 Pyrene	202	11.071	11.071	0.0	99	111101	0.4309	
166 Butyl benzyl phthalate	149	11.686	11.686	0.0	81	26196	0.5924	
170 3,3'-Dimethoxybenzidine	244		12.296					9
172 4,4'-Methylene bis(2-chloroanili	231	12.339	12.339	0.0	63	12704	0.5754	
173 3,3'-Dichlorobenzidine	252	12.339	12.339	0.0	57	29140	0.5634	
171 Bis(2-ethylhexyl) phthalate	149	12.376	12.376	0.0	85	36483	0.5839	
175 Benzo[a]anthracene	228	12.392	12.392	0.0	91	96994	0.4177	
176 Chrysene	228	12.440	12.440	0.0	83	97913	0.4487	
178 Di-n-octyl phthalate	149		13.296					
180 Benzo[b]fluoranthene	252	13.911	13.911	0.0	92	90721	0.4168	
181 Benzo[k]fluoranthene	252	13.954	13.954	0.0	96	97415	0.4200	
182 Benzo[a]pyrene	252	14.414	14.414	0.0	66	73637	0.4219	
186 Indeno[1,2,3-cd]pyrene	276	16.174	16.168	0.006	88	83988	0.3820	
187 Dibenz(a,h)anthracene	278	16.200	16.200	0.0	73	70122	0.3875	
188 Benzo[g,h,i]perylene	276	16.628	16.623	0.005	91	82707	0.4379	
S 189 Methyl Phenols,Total	100				0		0.4096	

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

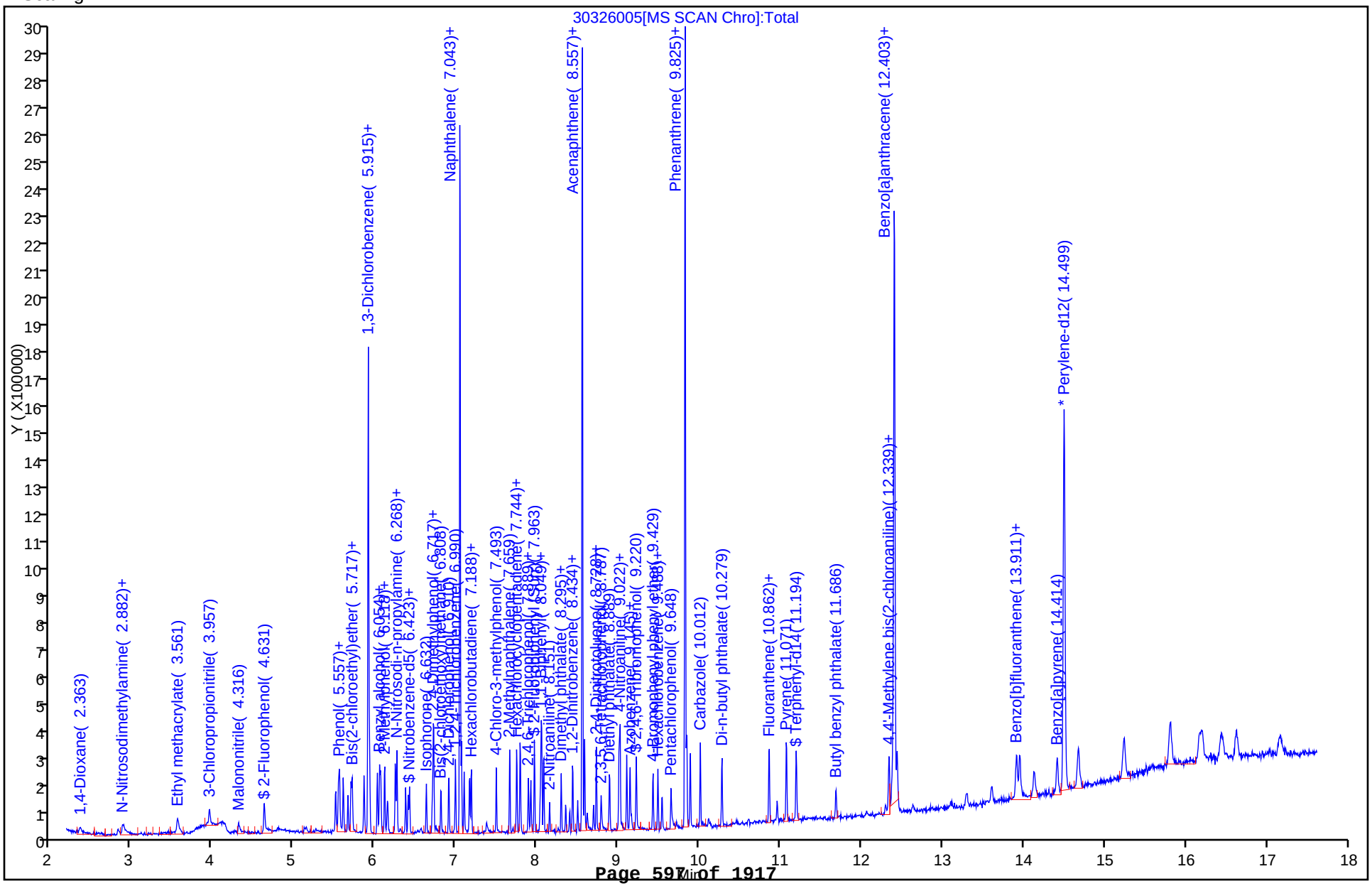
Report Date: 27-Mar-2013 12:57:48 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326005.D

Injection Date:	26-Mar-2013 11:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	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

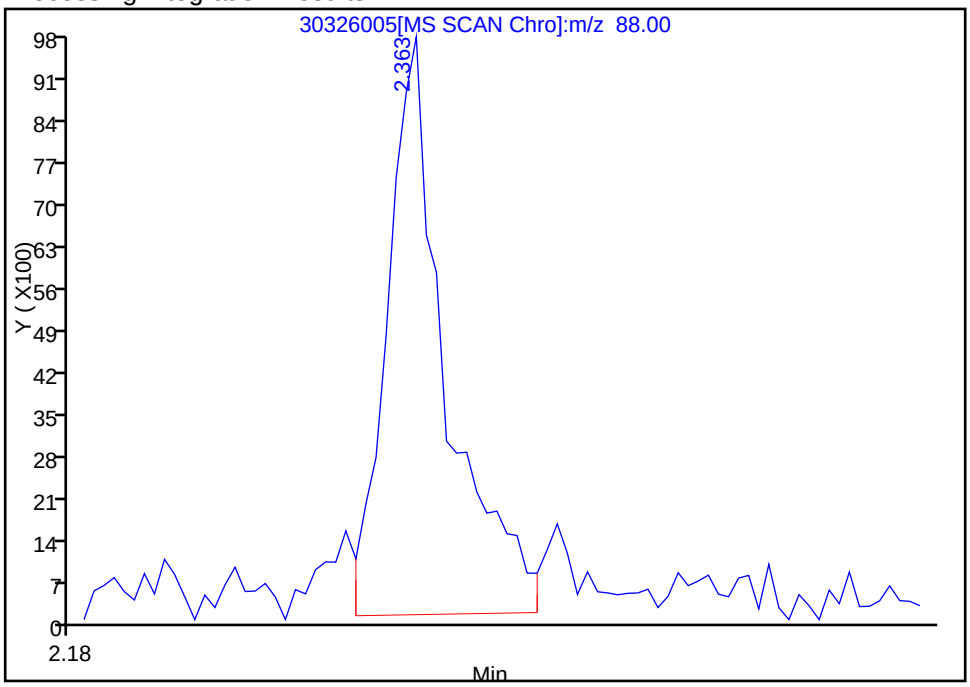
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326005.D		
Injection Date:	26-Mar-2013 11:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	Lims Sample ID:	5
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

24 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 2.35

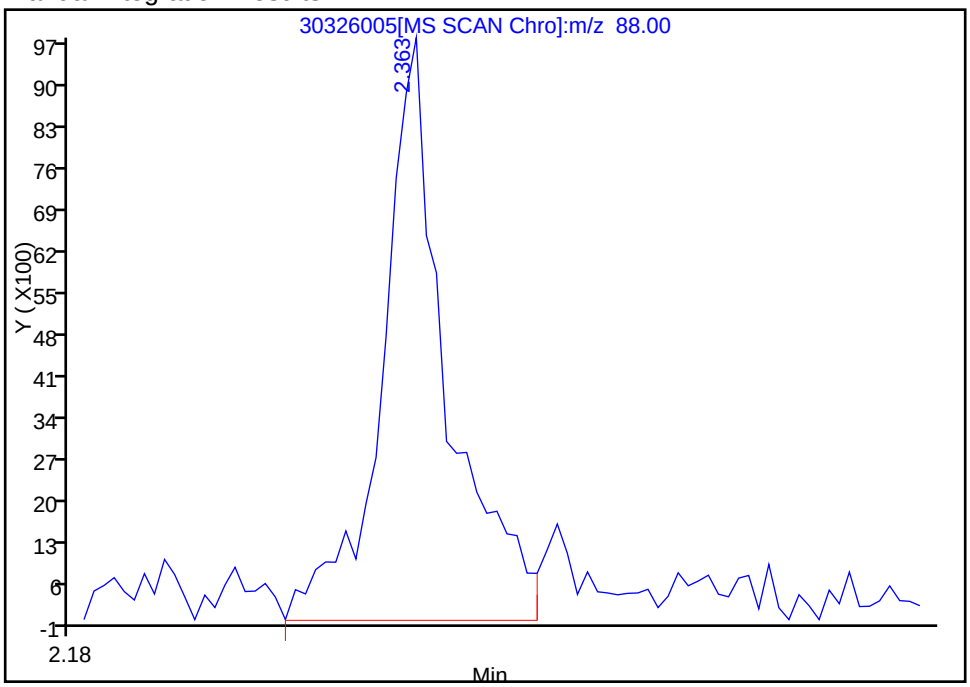
Processing Integration Results

RT: 2.36
Response: 21079
Amount: 0.523228



Manual Integration Results

RT: 2.36
Response: 23407
Amount: 0.567488



Reviewer: gruberj, 26-Mar-2013 11:29:15
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

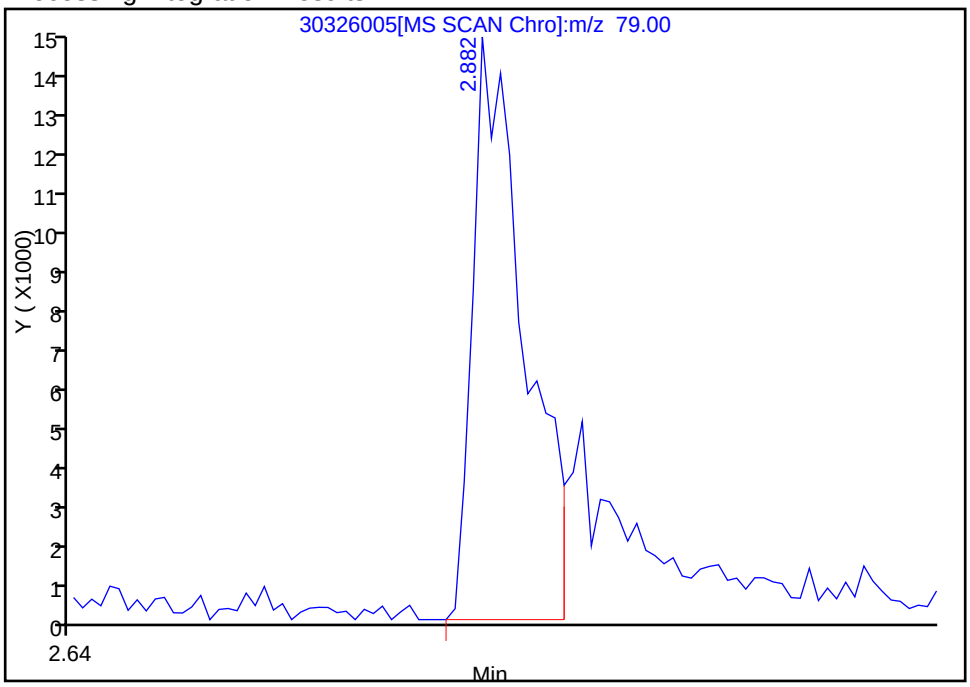
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326005.D		
Injection Date:	26-Mar-2013 11:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	Lims Sample ID:	5
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

26 Pyridine, Signal: 1, m/z: 79.0 Type: quant, RT: 2.87

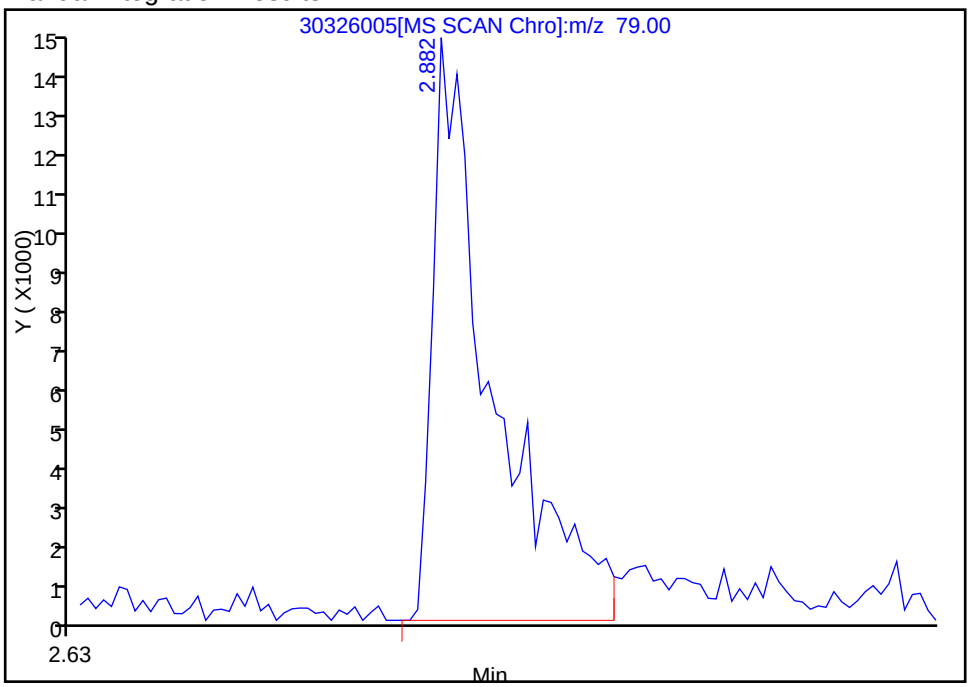
Processing Integration Results

RT: 2.88
Response: 31268
Amount: 0.373095



Manual Integration Results

RT: 2.88
Response: 41224
Amount: 0.425661



Reviewer: gruberj, 26-Mar-2013 11:29:15
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

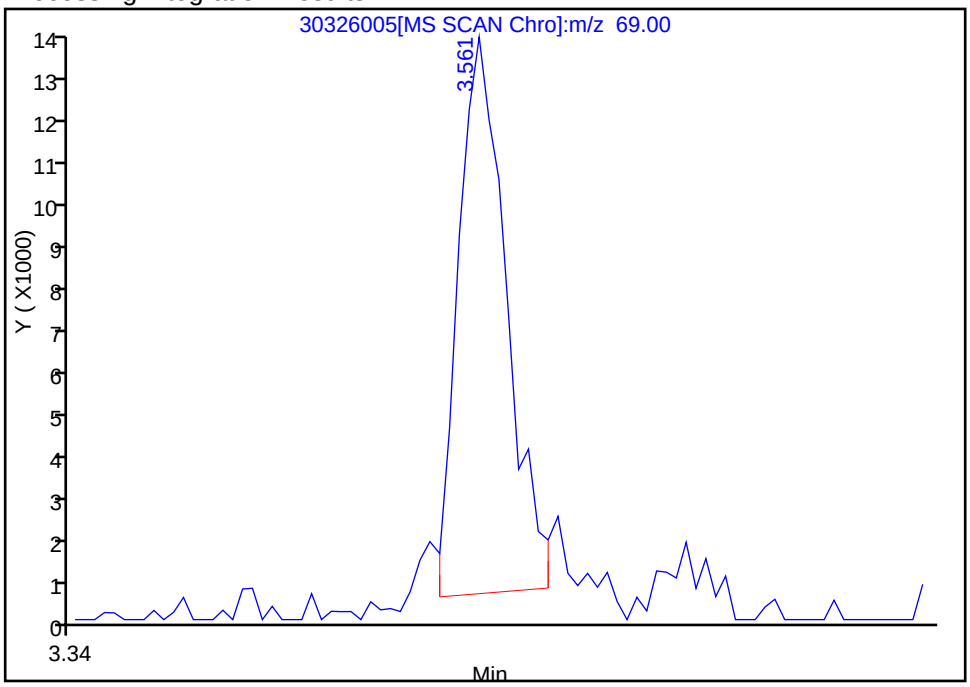
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326005.D		
Injection Date:	26-Mar-2013 11:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	Lims Sample ID:	5
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

27 Ethyl methacrylate, Signal: 1, m/z: 69.0 Type: quant, RT: 3.56

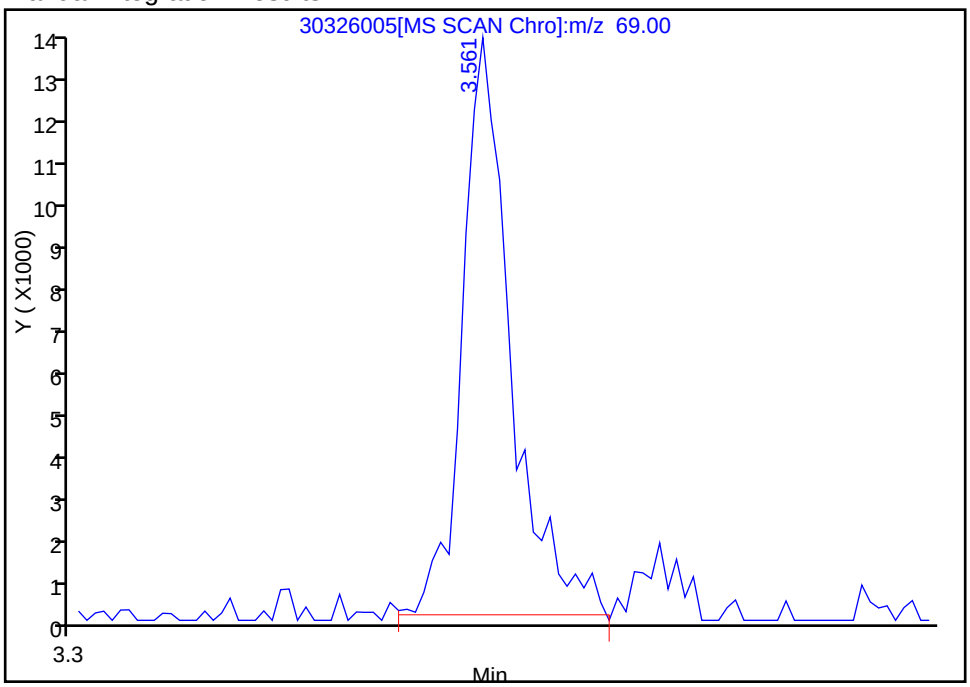
Processing Integration Results

RT: 3.56
Response: 22638
Amount: 0.389389



Manual Integration Results

RT: 3.56
Response: 27715
Amount: 0.432748



Reviewer: gruberj, 26-Mar-2013 11:29:15
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326006.D		
Lims ID:	std1 tcl	Client ID:	
Inject. Date:	26-Mar-2013 11:30:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	240-0018258-006		
Misc. Info.:	STD1 TCL		
Operator:	001710	Instrument ID:	A4HP7
Injection Vol:	1.0 ul	ALS Bottle#:	6
Lims Batch ID:	79445	Lims Sample ID:	6
Sublist:	chrom-8270_hp7*sub15		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\8270_hp7.m		
Last Update:	27-Mar-2013 12:57:11	Calib Date:	26-Mar-2013 17:03:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326020.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK014		
First Level Reviewer: gruberj		Date:	26-Mar-2013 12:47:18

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.915	5.915	0.0	97	226116	4.00	
* 2 Naphthalene-d8	136	7.043	7.049	-0.006	100	892831	4.00	
* 3 Acenaphthene-d10	164	8.557	8.557	0.0	91	504293	4.00	
* 4 Phenanthrene-d10	188	9.825	9.825	0.0	98	803622	4.00	
* 5 Chrysene-d12	240	12.408	12.408	0.0	98	859995	4.00	
* 6 Perylene-d12	264	14.499	14.505	-0.006	93	707503	4.00	
$ 9 Nitrobenzene-d5	82	6.407	6.407	0.0	74	7552	0.0949	
$ 10 2-Fluorobiphenyl (Surr)	172	7.963	7.969	-0.006	92	16465	0.1045	
$ 12 Terphenyl-d14	244	11.194	11.199	-0.005	89	14821	0.1036	
40 Benzaldehyde	77	5.508	5.514	-0.006	82	6626	0.1099	
73 Naphthalene	128	7.065	7.065	0.0	87	23248	0.1064	
85 2-Methylnaphthalene	142	7.658	7.659	-0.001	89	14606	0.1064	
86 1-Methylnaphthalene	142	7.749	7.750	-0.001	78	13844	0.1035	
95 1,1'-Biphenyl	154	8.054	8.054	0.0	87	17227	0.1080	
98 2-Chloronaphthalene	162	8.081	8.081	0.0	80	14030	0.1013	
107 Acenaphthylene	152	8.439	8.440	-0.001	85	15874	0.0811	
110 Acenaphthene	153	8.584	8.584	0.0	80	12236	0.0996	
114 Dibenzofuran	168	8.728	8.728	0.0	79	19799	0.1061	
124 Fluorene	166	9.022	9.023	-0.001	75	14670	0.0983	
139 Hexachlorobenzene	284	9.488	9.493	-0.005	75	5540	0.1282	
146 Phenanthrene	178	9.846	9.846	0.0	18	22598	0.1051	
147 Anthracene	178	9.889	9.889	0.0	89	15798	0.0783	
157 Fluoranthene	202	10.862	10.862	0.0	92	20877	0.0919	
160 Pyrene	202	11.071	11.076	-0.005	93	21286	0.0925	
175 Benzo[a]anthracene	228	12.397	12.398	-0.001	46	19392	0.0936	
176 Chrysene	228	12.440	12.446	-0.006	68	20795	0.1068	
180 Benzo[b]fluoranthene	252	13.911	13.917	-0.006	83	16792	0.0843	
181 Benzo[k]fluoranthene	252	13.959	13.959	0.0	77	18847	0.0888	
182 Benzo[a]pyrene	252	14.419	14.419	0.0	58	9232	0.1520	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
186 Indeno[1,2,3-cd]pyrene	276	16.173	16.179	-0.006	82	17580	0.0874	M
187 Dibenz(a,h)anthracene	278	16.200	16.211	-0.011	13	14612	0.0883	M
188 Benzo[g,h,i]perylene	276	16.628	16.634	-0.006	65	15863	0.0918	M

QC Flag Legend

Review Flags
M - Manually Integrated

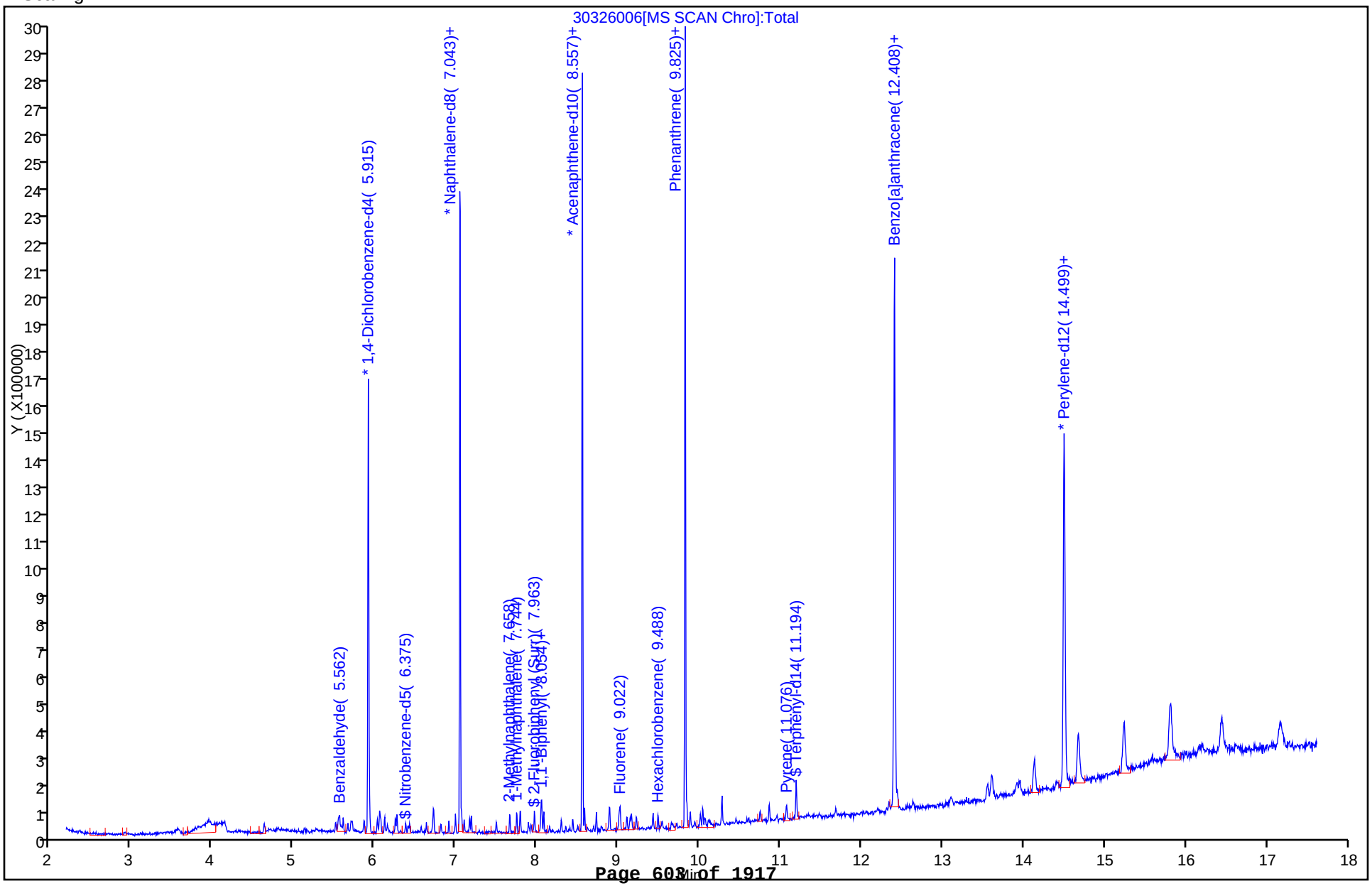
Report Date: 27-Mar-2013 12:57:11 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326006.D

Injection Date:	26-Mar-2013 11:30:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	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

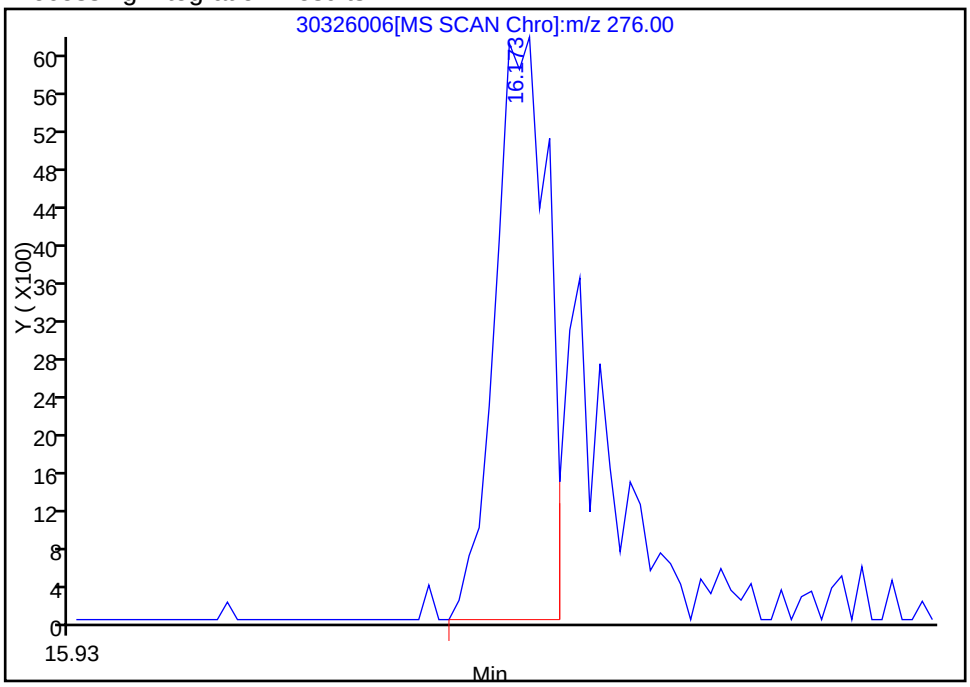
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326006.D		
Injection Date:	26-Mar-2013 11:30:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	Lims Sample ID:	6
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

186 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 16.18

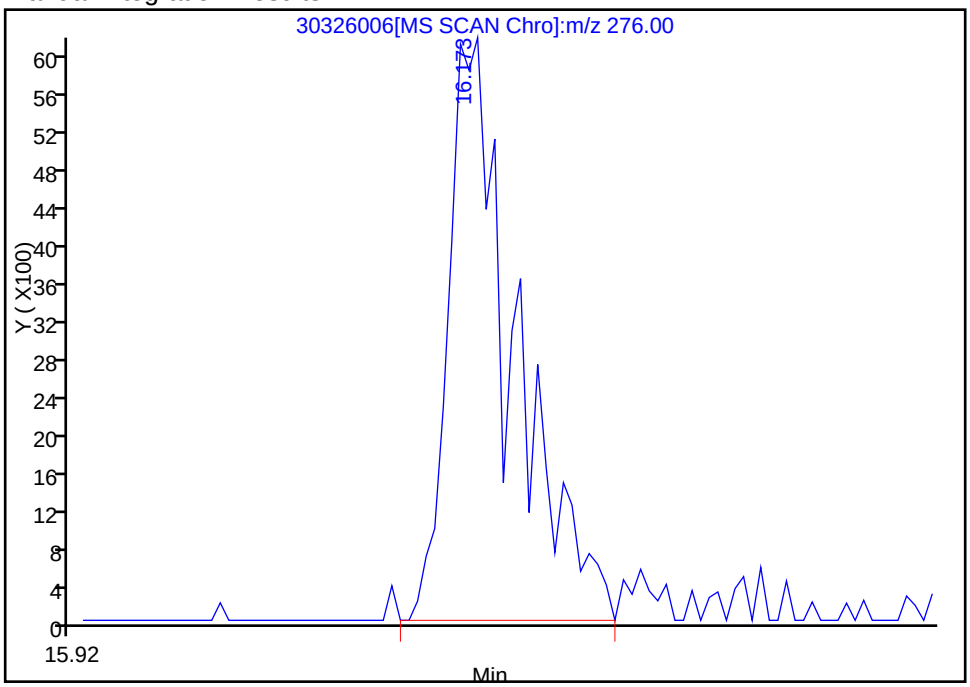
Processing Integration Results

RT: 16.17
Response: 11900
Amount: 0.181510



Manual Integration Results

RT: 16.17
Response: 17580
Amount: 0.087419



Reviewer: gruberj, 26-Mar-2013 12:47:18
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

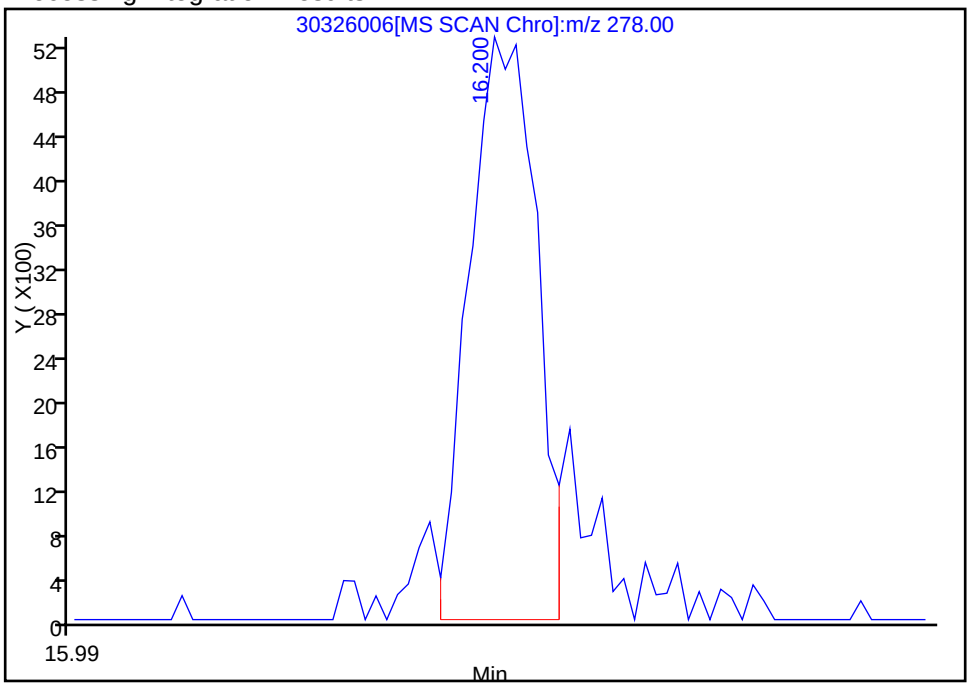
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326006.D		
Injection Date:	26-Mar-2013 11:30:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	Lims Sample ID:	6
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

187 Dibenz(a,h)anthracene, Signal: 1, m/z: 278.0 Type: quant, RT: 16.21

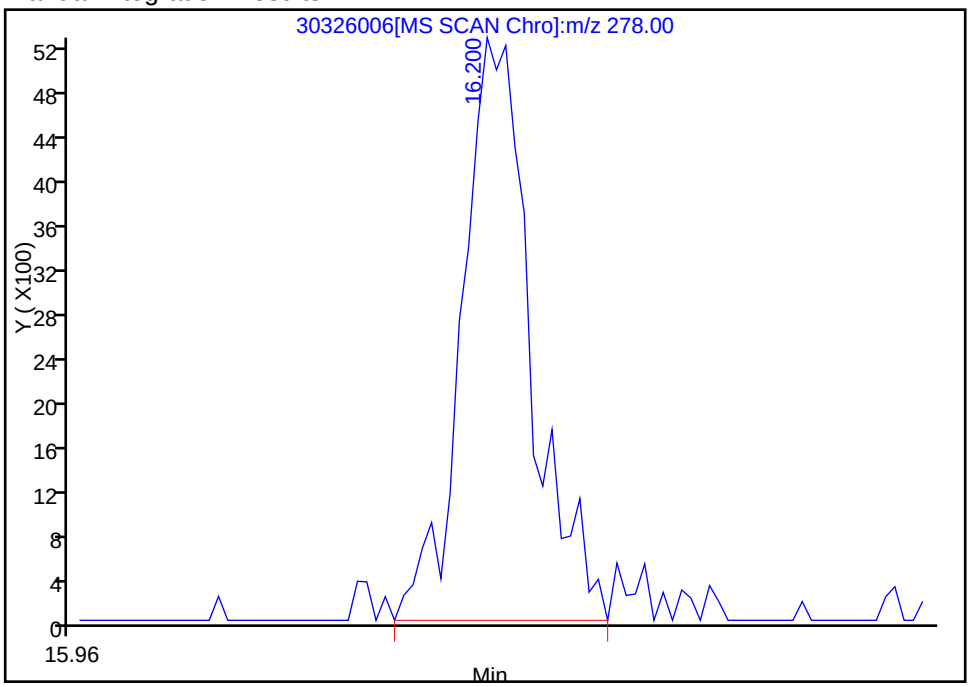
Processing Integration Results

RT: 16.20
Response: 12341
Amount: 0.171438



Manual Integration Results

RT: 16.20
Response: 14612
Amount: 0.088290



Reviewer: gruberj, 26-Mar-2013 12:47:18
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

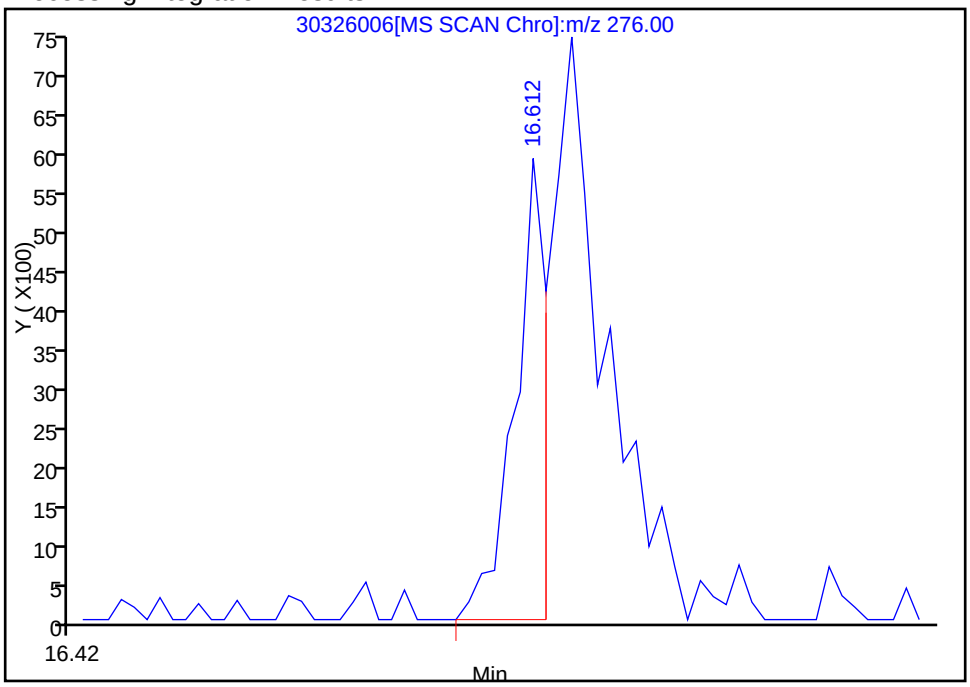
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326006.D		
Injection Date:	26-Mar-2013 11:30:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	Lims Sample ID:	6
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

188 Benzo[g,h,i]perylene, Signal: 1, m/z: 276.0 Type: quant, RT: 16.63

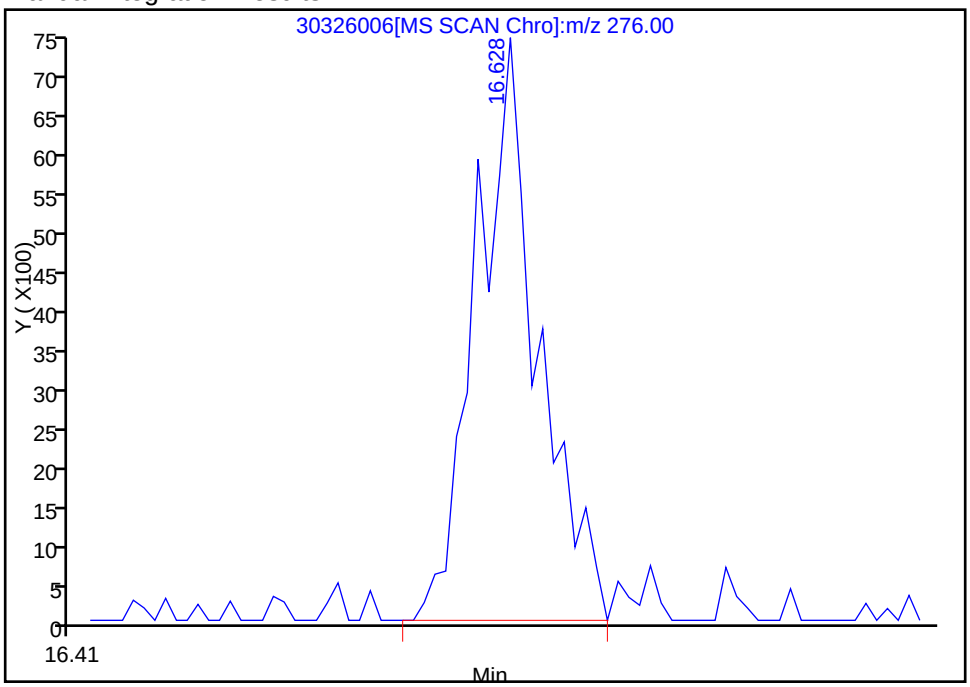
Processing Integration Results

RT: 16.61
Response: 5387
Amount: 0.079762



Manual Integration Results

RT: 16.63
Response: 15863
Amount: 0.091835



Reviewer: gruberj, 26-Mar-2013 12:47:18
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326007.D		
Lims ID:	std9 tcl	Client ID:	
Inject. Date:	26-Mar-2013 11:53:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	9
Sample ID:	240-0018258-007		
Misc. Info.:	STD9 TCL		
Operator:	001710	Instrument ID:	A4HP7
Injection Vol:	1.0 ul	ALS Bottle#:	7
Lims Batch ID:	79445	Lims Sample ID:	7
Sublist:	chrom-8270_hp7*sub15		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\8270_hp7.m		
Last Update:	27-Mar-2013 12:57:13	Calib Date:	26-Mar-2013 17:03:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326020.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK014		
First Level Reviewer: gruberj		Date:	26-Mar-2013 12:49:16

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.915	5.915	0.0	97	235115	4.00	
* 2 Naphthalene-d8	136	7.049	7.049	0.0	99	922333	4.00	
* 3 Acenaphthene-d10	164	8.557	8.557	0.0	93	543616	4.00	
* 4 Phenanthrene-d10	188	9.825	9.825	0.0	97	861063	4.00	
* 5 Chrysene-d12	240	12.413	12.408	0.005	85	998274	4.00	
* 6 Perylene-d12	264	14.505	14.505	0.0	97	813926	4.00	
$ 7 2-Fluorophenol	112	4.631	4.631	0.0	92	2507104	26.9	
$ 8 Phenol-d5	99	5.551	5.546	0.005	88	3315929	26.9	
$ 9 Nitrobenzene-d5	82	6.412	6.407	0.005	87	2314248	28.1	
$ 10 2-Fluorobiphenyl (Surr)	172	7.969	7.969	0.0	99	4466491	26.3	
$ 11 2,4,6-Tribromophenol	330	9.231	9.226	0.005	92	742165	26.1	
$ 12 Terphenyl-d14	244	11.199	11.199	0.0	98	4396791	26.5	
24 1,4-Dioxane	88	2.358	2.363	-0.005	91	1025483	26.0	M
25 N-Nitrosodimethylamine	74	2.823	2.823	0.0	92	1352528	27.7	
26 Pyridine	79	2.871	2.877	-0.006	96	2642441	28.5	
27 Ethyl methacrylate	69	3.567	3.567	0.0	87	1668830	27.2	
28 3-Chloropropionitrile	54	3.957	3.957	0.0	87	1191423	27.3	
32 Malononitrile	66	4.315	4.310	0.005	95	2318023	27.9	
40 Benzaldehyde	77		5.514					
41 Phenol	94	5.567	5.562	0.005	97	3450828	26.5	
43 Aniline	93	5.610	5.610	0.0	99	3955352	26.8	
44 Bis(2-chloroethyl)ether	93	5.669	5.664	0.005	98	2191721	26.3	
46 2-Chlorophenol	128	5.717	5.717	0.0	97	2696449	26.7	
47 1,3-Dichlorobenzene	146	5.867	5.867	0.0	96	2303096	26.2	
48 1,4-Dichlorobenzene	146	5.931	5.931	0.0	92	2851461	26.2	
49 Benzyl alcohol	108	6.032	6.027	0.005	92	1735148	27.5	
50 1,2-Dichlorobenzene	146	6.070	6.070	0.0	93	2199824	26.3	
51 2-Methylphenol	108	6.118	6.118	0.0	95	2480635	26.6	
52 2,2'-oxybis[1-chloropropane]	45	6.155	6.150	0.005	91	2279797	26.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
191 3 & 4 Methylphenol	108	6.257	6.252	0.005	96	2624076	26.9	
56 N-Nitrosodi-n-propylamine	70	6.268	6.268	0.0	80	1377355	25.9	
57 Acetophenone	105	6.273	6.273	0.0	97	2942587	26.5	
60 Hexachloroethane	117	6.380	6.375	0.005	92	908365	27.4	
61 Nitrobenzene	77	6.428	6.423	0.005	83	2376630	27.5	
63 Isophorone	82	6.637	6.632	0.005	99	3972850	28.1	
65 2-Nitrophenol	139	6.706	6.707	-0.001	98	1353463	25.8	
66 1,3,5-Trichlorobenzene	180	6.717	6.717	0.0	95	1845603	25.7	
64 2,4-Dimethylphenol	107	6.728	6.723	0.005	89	2606996	26.2	
69 Benzoic acid	122	6.824	6.765	0.059	84	3022835	49.8	
68 Bis(2-chloroethoxy)methane	93	6.813	6.814	-0.001	97	2601095	26.6	
71 2,4-Dichlorophenol	162	6.910	6.910	0.0	95	2143316	27.4	
72 1,2,4-Trichlorobenzene	180	6.995	6.990	0.005	92	1904650	26.2	
73 Naphthalene	128	7.065	7.065	0.0	97	5944609	26.3	
74 4-Chloroaniline	127	7.102	7.097	0.005	87	2868698	27.3	
77 Hexachlorobutadiene	225	7.166	7.167	-0.001	94	1006350	26.1	
78 1,2,3-Trichlorobenzene	180	7.188	7.188	0.0	92	1782769	0	
83 Caprolactam	113	7.402	7.380	0.022	81	487986	25.0	
84 4-Chloro-3-methylphenol	107	7.498	7.498	0.0	93	2328594	28.1	
85 2-Methylnaphthalene	142	7.664	7.659	0.005	90	3752455	26.5	
86 1-Methylnaphthalene	142	7.749	7.750	-0.001	90	3623000	26.2	
88 Hexachlorocyclopentadiene	237	7.792	7.792	0.0	88	1066624	25.9	
87 1,2,3,5-Tetrachlorobenzene	216	7.792	7.792	0.0	97	1788952	25.8	
90 2,4,6-Trichlorophenol	196	7.894	7.889	0.005	92	1573978	28.8	
91 2,4,5-Trichlorophenol	196	7.926	7.921	0.005	94	1696883	28.1	
94 2,4-Toluene diamine	121	8.038	8.033	0.005	96	813092	24.9	
96 1,2,3,4 -Tetrachlorobenzene	216	8.049	8.049	0.0	95	1756180	0	
95 1,1'-Biphenyl	154	8.060	8.054	0.006	93	4425529	25.7	
98 2-Chloronaphthalene	162	8.081	8.081	0.0	95	3955274	26.5	
100 2-Nitroaniline	65	8.156	8.151	0.005	83	1309734	26.0	
103 Dimethyl phthalate	163	8.300	8.295	0.005	99	4146465	27.3	
105 2,6-Dinitrotoluene	165	8.359	8.354	0.005	95	965893	26.0	
106 1,2-Dinitrobenzene	168	8.407	8.402	0.005	86	484090	25.8	
107 Acenaphthylene	152	8.439	8.440	-0.001	89	6048801	28.7	
108 3-Nitroaniline	138	8.503	8.498	0.005	94	1221769	25.7	
110 Acenaphthene	153	8.584	8.584	0.0	93	3416017	25.8	
109 2,4-Dinitrophenol	184	8.594	8.589	0.005	86	1159074	51.6	
111 4-Nitrophenol	109	8.621	8.611	0.010	91	857104	25.9	
112 2,4-Dinitrotoluene	165	8.701	8.696	0.005	91	1323846	26.0	
114 Dibenzofuran	168	8.733	8.728	0.005	88	5306911	26.4	
115 2,3,5,6-Tetrachlorophenol	232	8.792	8.787	0.005	87	1370811	25.5	
119 Diethyl phthalate	149	8.899	8.894	0.005	98	3957326	27.2	
121 4-Chlorophenyl phenyl ether	204	9.012	9.012	0.0	92	2090559	26.6	
123 4-Nitroaniline	138	9.028	9.017	0.011	73	1188225	25.6	
124 Fluorene	166	9.028	9.023	0.005	91	4201488	26.1	
126 4,6-Dinitro-2-methylphenol	198	9.049	9.044	0.005	85	891673	25.2	
130 N-Nitrosodiphenylamine	169	9.108	9.108	0.0	0	3489863	27.6	
131 Azobenzene	77	9.151	9.146	0.005	98	4710267	27.7	
129 1,2-Diphenylhydrazine	77	9.151	9.146	0.005	0	4710267	27.7	
137 4-Bromophenyl phenyl ether	248	9.429	9.429	0.0	64	1200984	26.9	
139 Hexachlorobenzene	284	9.493	9.493	0.0	90	1196313	25.8	
140 Atrazine	200	9.546	9.541	0.005	91	696323	25.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
141 Pentachlorophenol	266	9.653	9.648	0.005	91	1937678	51.7	
146 Phenanthrene	178	9.846	9.846	0.0	97	6108372	26.5	
147 Anthracene	178	9.894	9.889	0.005	96	6209443	28.7	
149 Carbazole	167	10.017	10.012	0.005	81	5876009	27.3	
151 Di-n-butyl phthalate	149	10.279	10.279	0.0	100	6786140	27.5	
157 Fluoranthene	202	10.862	10.862	0.0	97	6901778	28.4	
158 Benzidine	184	10.964	10.964	0.0	99	3656982	25.7	
160 Pyrene	202	11.076	11.076	0.0	98	7376722	27.6	
166 Butyl benzyl phthalate	149	11.691	11.686	0.005	96	2943091	25.9	
170 3,3'-Dimethoxybenzidine	244	12.306	12.301	0.005	89	1758714	25.3	
172 4,4'-Methylene bis(2-chloroanili	231	12.349	12.344	0.005	80	1318451	25.5	
173 3,3'-Dichlorobenzidine	252	12.349	12.344	0.005	66	2873193	25.6	
171 Bis(2-ethylhexyl) phthalate	149	12.376	12.381	-0.005	96	4162273	25.8	
175 Benzo[a]anthracene	228	12.397	12.398	-0.001	96	6724075	27.9	
176 Chrysene	228	12.445	12.446	-0.001	95	5937855	26.3	
178 Di-n-octyl phthalate	149	13.301	13.301	0.0	98	6940428	24.9	
180 Benzo[b]fluoranthene	252	13.922	13.917	0.005	92	6763986	29.5	
181 Benzo[k]fluoranthene	252	13.964	13.959	0.005	95	6885986	28.2	
182 Benzo[a]pyrene	252	14.424	14.419	0.005	76	6569717	26.6	
186 Indeno[1,2,3-cd]pyrene	276	16.184	16.179	0.005	95	6780021	29.3	
187 Dibenz(a,h)anthracene	278	16.216	16.211	0.005	84	5574031	29.3	
188 Benzo[g,h,i]perylene	276	16.644	16.634	0.010	90	5613886	28.3	
S 189 Methyl Phenols,Total	100				0		26.6	

QC Flag Legend

Review Flags
M - Manually Integrated

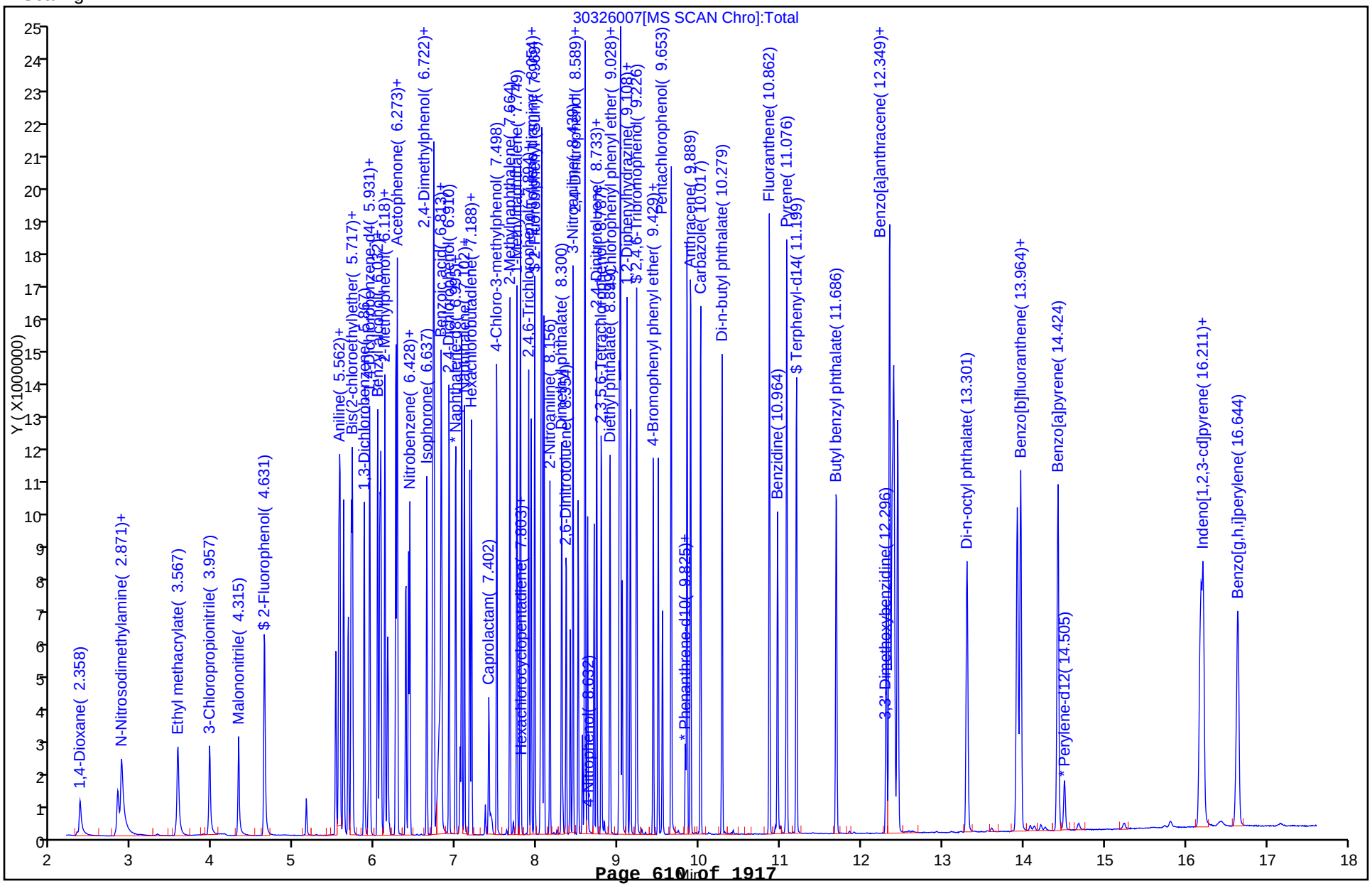
Report Date: 27-Mar-2013 12:57:13 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326007.D

Injection Date:	26-Mar-2013 11:53:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	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

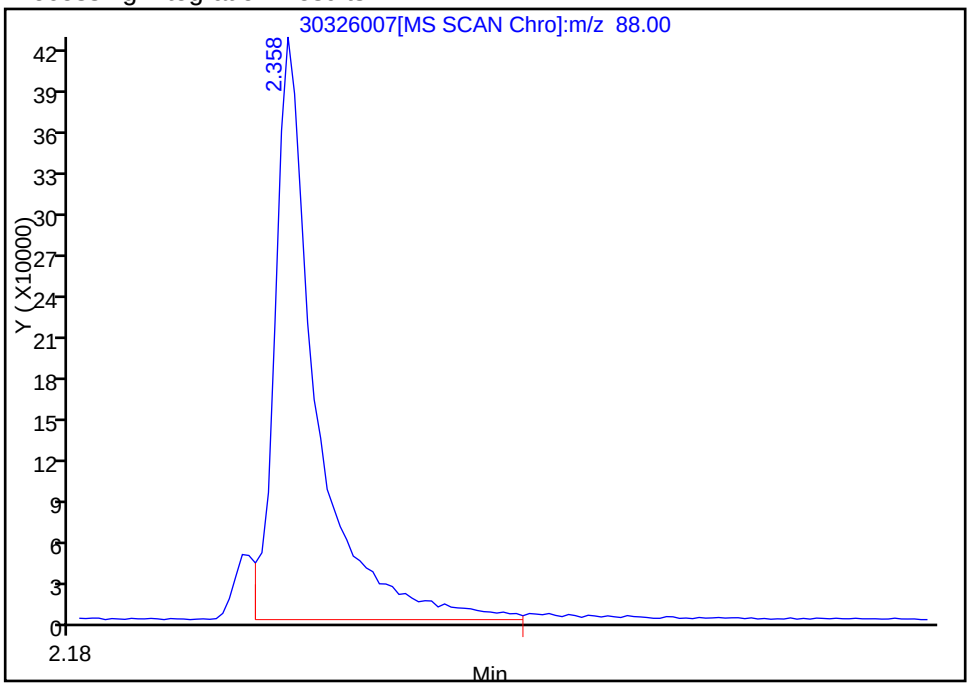
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326007.D		
Injection Date:	26-Mar-2013 11:53:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	Lims Sample ID:	7
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

24 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 2.36

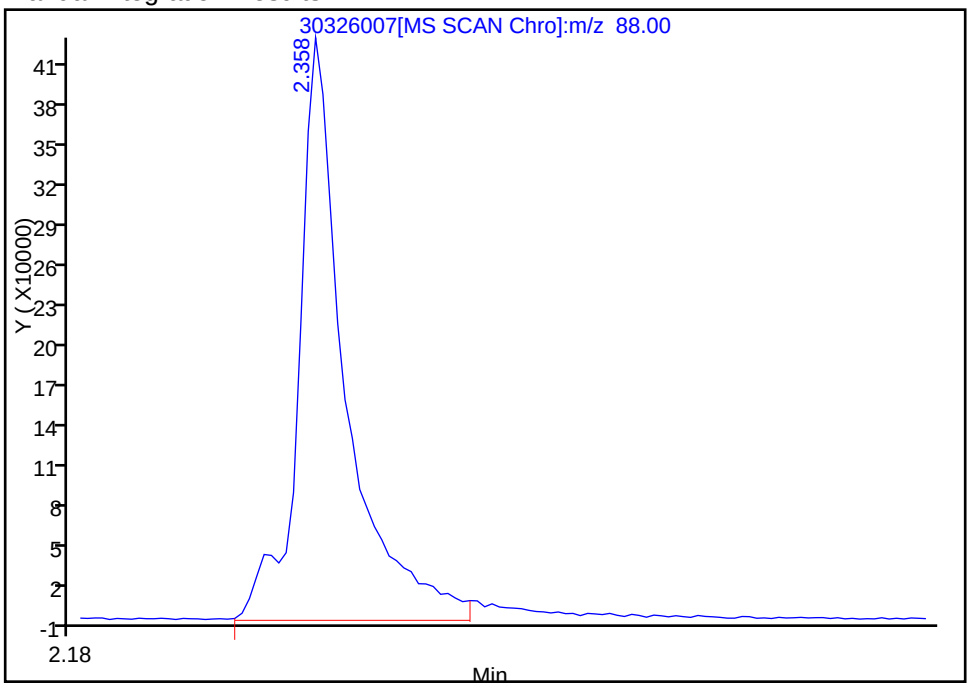
Processing Integration Results

RT: 2.36
Response: 1006444
Amount: 25.144807



Manual Integration Results

RT: 2.36
Response: 1025483
Amount: 25.960033



Reviewer: gruberj, 26-Mar-2013 12:49:16
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326008.D		
Lims ID:	std8 tcl	Client ID:	
Inject. Date:	26-Mar-2013 12:17:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	8
Sample ID:	240-0018258-008		
Misc. Info.:	STD8 TCL		
Operator:	001710	Instrument ID:	A4HP7
Injection Vol:	1.0 ul	ALS Bottle#:	8
Lims Batch ID:	79445	Lims Sample ID:	8
Sublist:	chrom-8270_hp7*sub15		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\8270_hp7.m		
Last Update:	27-Mar-2013 12:57:14	Calib Date:	26-Mar-2013 17:03:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326020.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK014		
First Level Reviewer: gruberj		Date:	26-Mar-2013 12:50:26

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.915	5.915	0.0	97	232413	4.00	
* 2 Naphthalene-d8	136	7.049	7.049	0.0	99	925446	4.00	
* 3 Acenaphthene-d10	164	8.557	8.557	0.0	91	546517	4.00	
* 4 Phenanthrene-d10	188	9.825	9.825	0.0	98	865109	4.00	
* 5 Chrysene-d12	240	12.408	12.408	0.0	84	994457	4.00	
* 6 Perylene-d12	264	14.499	14.505	-0.006	97	823395	4.00	
$ 7 2-Fluorophenol	112	4.631	4.631	0.0	92	2047130	22.2	
$ 8 Phenol-d5	99	5.551	5.546	0.005	88	2680473	22.0	
$ 9 Nitrobenzene-d5	82	6.407	6.407	0.0	89	1854040	22.5	
$ 10 2-Fluorobiphenyl (Surr)	172	7.963	7.969	-0.006	99	3555754	20.8	
$ 11 2,4,6-Tribromophenol	330	9.226	9.226	0.0	92	577145	20.3	
$ 12 Terphenyl-d14	244	11.194	11.199	-0.005	99	3531872	21.4	
24 1,4-Dioxane	88	2.358	2.363	-0.005	92	812988	20.8	M
25 N-Nitrosodimethylamine	74	2.823	2.823	0.0	88	1105285	22.9	
26 Pyridine	79	2.871	2.877	-0.006	96	2088089	22.8	
27 Ethyl methacrylate	69	3.561	3.567	-0.006	87	1356979	22.4	
28 3-Chloropropionitrile	54	3.957	3.957	0.0	87	980890	22.7	
32 Malononitrile	66	4.316	4.310	0.006	94	1921737	23.4	
40 Benzaldehyde	77	5.514	5.514	0.0	95	1049842	16.9	
41 Phenol	94	5.562	5.562	0.0	98	2809221	21.8	
43 Aniline	93	5.610	5.610	0.0	99	3191428	21.8	
44 Bis(2-chloroethyl)ether	93	5.663	5.664	-0.001	97	1760270	21.3	
46 2-Chlorophenol	128	5.717	5.717	0.0	96	2180665	21.8	
47 1,3-Dichlorobenzene	146	5.861	5.867	-0.006	96	1877531	21.6	
48 1,4-Dichlorobenzene	146	5.931	5.931	0.0	93	2309298	21.4	
49 Benzyl alcohol	108	6.027	6.027	0.0	90	1405316	22.5	
50 1,2-Dichlorobenzene	146	6.070	6.070	0.0	94	1771234	21.4	
51 2-Methylphenol	108	6.118	6.118	0.0	95	2006976	21.8	
52 2,2'-oxybis[1-chloropropane]	45	6.150	6.150	0.0	92	1843818	21.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
191 3 & 4 Methylphenol	108	6.252	6.252	0.0	96	2101430	21.8	
56 N-Nitrosodi-n-propylamine	70	6.268	6.268	0.0	79	1136879	21.6	
57 Acetophenone	105	6.273	6.273	0.0	96	2372922	21.6	
60 Hexachloroethane	117	6.375	6.375	0.0	92	721295	22.0	
61 Nitrobenzene	77	6.428	6.423	0.005	81	1936346	22.3	
63 Isophorone	82	6.637	6.632	0.005	99	3174030	22.3	
65 2-Nitrophenol	139	6.706	6.707	-0.001	95	1094299	20.8	
66 1,3,5-Trichlorobenzene	180	6.717	6.717	0.0	95	1500763	20.9	
64 2,4-Dimethylphenol	107	6.723	6.723	-0.001	92	2125189	21.3	
69 Benzoic acid	122	6.813	6.765	0.048	84	2301997	40.3	
68 Bis(2-chloroethoxy)methane	93	6.813	6.814	-0.001	97	2048320	20.9	
71 2,4-Dichlorophenol	162	6.910	6.910	0.0	94	1742038	22.2	
72 1,2,4-Trichlorobenzene	180	6.990	6.990	0.0	92	1566115	21.5	
73 Naphthalene	128	7.065	7.065	0.0	97	4783268	21.1	
74 4-Chloroaniline	127	7.097	7.097	0.0	86	2290659	21.8	
77 Hexachlorobutadiene	225	7.166	7.167	-0.001	94	814445	21.1	
78 1,2,3-Trichlorobenzene	180	7.188	7.188	0.0	90	1432773	0	
83 Caprolactam	113	7.396	7.380	0.016	82	412040	21.1	
84 4-Chloro-3-methylphenol	107	7.498	7.498	0.0	96	1858379	22.4	
85 2-Methylnaphthalene	142	7.659	7.659	0.0	89	2987581	21.0	
86 1-Methylnaphthalene	142	7.749	7.750	-0.001	90	2916102	21.0	
88 Hexachlorocyclopentadiene	237	7.792	7.792	0.0	93	861001	20.8	
87 1,2,3,5-Tetrachlorobenzene	216	7.787	7.792	-0.005	95	1464958	21.0	
90 2,4,6-Trichlorophenol	196	7.889	7.889	0.0	94	1251922	22.8	
91 2,4,5-Trichlorophenol	196	7.921	7.921	0.0	94	1344691	22.2	
94 2,4-Toluene diamine	121	8.038	8.033	0.005	97	620565	20.2	
96 1,2,3,4 -Tetrachlorobenzene	216	8.049	8.049	0.0	89	1422440	0	
95 1,1'-Biphenyl	154	8.054	8.054	0.0	93	3556973	20.6	
98 2-Chloronaphthalene	162	8.081	8.081	0.0	95	3170980	21.1	
100 2-Nitroaniline	65	8.156	8.151	0.005	85	1041411	20.6	
103 Dimethyl phthalate	163	8.300	8.295	0.005	99	3355999	21.9	
105 2,6-Dinitrotoluene	165	8.354	8.354	0.0	95	768234	20.7	
106 1,2-Dinitrobenzene	168	8.402	8.402	0.0	87	396083	21.0	
107 Acenaphthylene	152	8.439	8.440	-0.001	93	4829028	22.8	
108 3-Nitroaniline	138	8.504	8.498	0.006	96	995870	20.9	
110 Acenaphthene	153	8.584	8.584	0.0	90	2740413	20.6	
109 2,4-Dinitrophenol	184	8.589	8.589	0.0	76	900840	40.6	
111 4-Nitrophenol	109	8.616	8.611	0.005	91	676834	20.5	
112 2,4-Dinitrotoluene	165	8.696	8.696	0.0	89	1052134	20.6	
114 Dibenzofuran	168	8.728	8.728	0.0	90	4233295	20.9	
115 2,3,5,6-Tetrachlorophenol	232	8.787	8.787	0.0	90	1108975	20.6	
119 Diethyl phthalate	149	8.894	8.894	0.0	97	3132662	21.4	
121 4-Chlorophenyl phenyl ether	204	9.012	9.012	0.0	91	1673826	21.2	
123 4-Nitroaniline	138	9.022	9.017	0.005	62	971298	20.9	
124 Fluorene	166	9.022	9.023	-0.001	83	3411173	21.1	
126 4,6-Dinitro-2-methylphenol	198	9.044	9.044	0.0	79	716033	20.5	
130 N-Nitrosodiphenylamine	169	9.108	9.108	0.0	0	2793486	22.0	
131 Azobenzene	77	9.145	9.146	-0.001	98	3744096	21.9	
129 1,2-Diphenylhydrazine	77	9.145	9.146	-0.001	0	3744096	21.9	
137 4-Bromophenyl phenyl ether	248	9.429	9.429	0.0	62	976059	21.8	
139 Hexachlorobenzene	284	9.493	9.493	0.0	91	954287	20.5	
140 Atrazine	200	9.541	9.541	0.0	91	601659	21.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
141 Pentachlorophenol	266	9.648	9.648	0.0	87	1558037	41.5	
146 Phenanthrene	178	9.846	9.846	0.0	97	4832869	20.9	
147 Anthracene	178	9.889	9.889	0.0	97	4982079	22.9	
149 Carbazole	167	10.012	10.012	0.0	82	4773650	22.1	
151 Di-n-butyl phthalate	149	10.279	10.279	0.0	99	5495379	22.2	
157 Fluoranthene	202	10.862	10.862	0.0	97	5492589	22.5	
158 Benzidine	184	10.964	10.964	0.0	100	2925689	20.7	
160 Pyrene	202	11.076	11.076	0.0	98	5824508	21.9	
166 Butyl benzyl phthalate	149	11.686	11.686	0.0	96	2344618	20.8	
170 3,3'-Dimethoxybenzidine	244	12.301	12.301	0.0	93	1405745	20.6	
172 4,4'-Methylene bis(2-chloroanili	231	12.344	12.344	0.0	67	1073349	20.9	
173 3,3'-Dichlorobenzidine	252	12.344	12.344	0.0	69	2301749	20.6	
171 Bis(2-ethylhexyl) phthalate	149	12.376	12.381	-0.005	96	3318999	20.7	
175 Benzo[a]anthracene	228	12.397	12.398	-0.001	96	5344271	22.3	
176 Chrysene	228	12.446	12.446	0.0	95	4752804	21.1	
178 Di-n-octyl phthalate	149	13.296	13.301	-0.005	99	5433207	20.4	
180 Benzo[b]fluoranthene	252	13.916	13.917	-0.001	95	5296452	22.9	
181 Benzo[k]fluoranthene	252	13.959	13.959	0.0	95	5538890	22.4	
182 Benzo[a]pyrene	252	14.419	14.419	0.0	76	5172766	20.8	
186 Indeno[1,2,3-cd]pyrene	276	16.179	16.179	0.0	95	5426465	23.2	
187 Dibenz(a,h)anthracene	278	16.211	16.211	0.0	77	4434051	23.0	
188 Benzo[g,h,i]perylene	276	16.634	16.634	0.0	92	4449370	22.1	
S 189 Methyl Phenols,Total	100				0		21.8	

QC Flag Legend

Review Flags
M - Manually Integrated

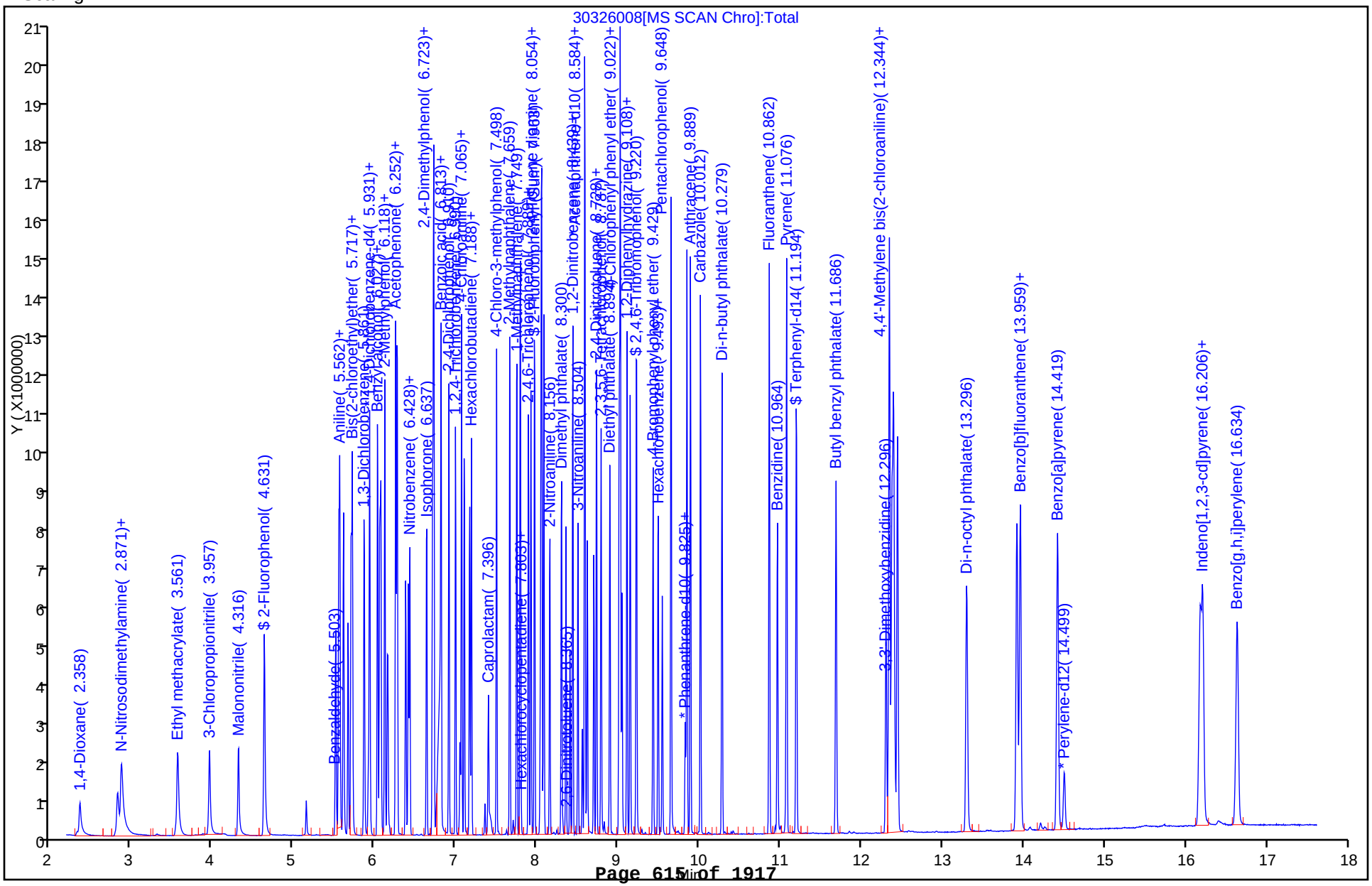
Report Date: 27-Mar-2013 12:57:15 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326008.D

Injection Date:	26-Mar-2013 12:17:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	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

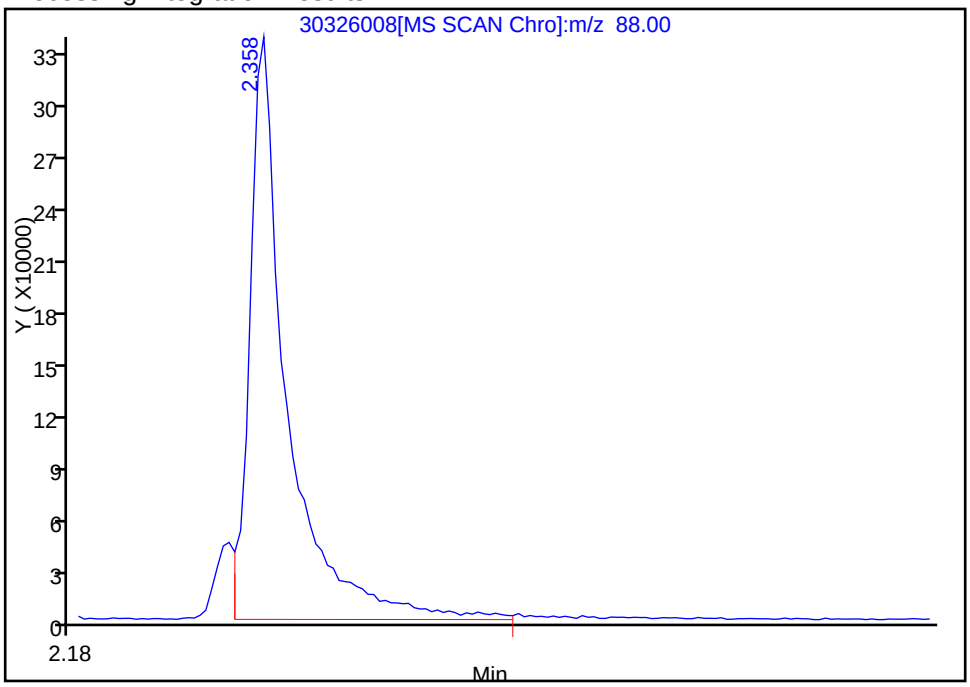
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326008.D		
Injection Date:	26-Mar-2013 12:17:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	Lims Sample ID:	8
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

24 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 2.36

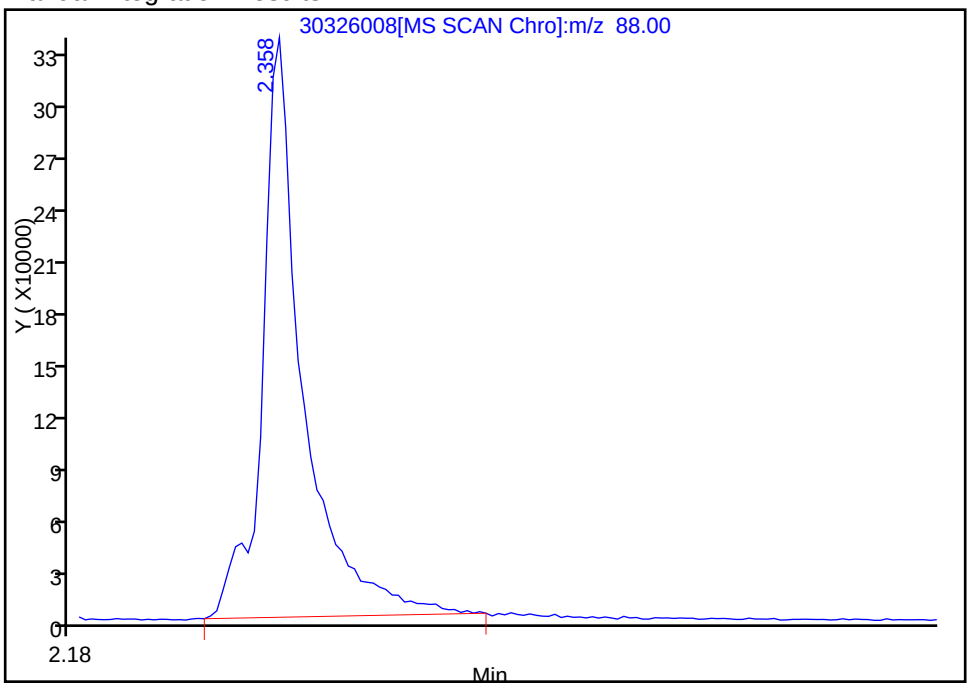
Processing Integration Results

RT: 2.36
Response: 812703
Amount: 20.475545



Manual Integration Results

RT: 2.36
Response: 812988
Amount: 20.820005



Reviewer: gruberj, 26-Mar-2013 12:50:26
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326009.D		
Lims ID:	std7 tcl	Client ID:	
Inject. Date:	26-Mar-2013 12:41:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	240-0018258-009		
Misc. Info.:	STD7 TCL		
Operator:	001710	Instrument ID:	A4HP7
Injection Vol:	1.0 ul	ALS Bottle#:	9
Lims Batch ID:	79445	Lims Sample ID:	9
Sublist:	chrom-8270_hp7*sub15		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\8270_hp7.m		
Last Update:	27-Mar-2013 12:57:16	Calib Date:	26-Mar-2013 17:03:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326020.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK014		
First Level Reviewer: gruberj		Date:	26-Mar-2013 13:14:12

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.915	5.915	0.0	97	252103	4.00	
* 2 Naphthalene-d8	136	7.043	7.049	-0.006	100	984545	4.00	
* 3 Acenaphthene-d10	164	8.552	8.557	-0.005	92	579765	4.00	
* 4 Phenanthrene-d10	188	9.825	9.825	0.0	97	913664	4.00	
* 5 Chrysene-d12	240	12.408	12.408	0.0	94	1038974	4.00	
* 6 Perylene-d12	264	14.499	14.505	-0.006	97	866454	4.00	
$ 7 2-Fluorophenol	112	4.631	4.631	0.0	92	1483458	14.8	
$ 8 Phenol-d5	99	5.551	5.546	0.005	88	1970716	14.9	
$ 9 Nitrobenzene-d5	82	6.407	6.407	0.0	88	1389517	15.8	
$ 10 2-Fluorobiphenyl (Surr)	172	7.963	7.969	-0.006	99	2632436	14.5	
$ 11 2,4,6-Tribromophenol	330	9.226	9.226	0.0	92	433359	14.5	
$ 12 Terphenyl-d14	244	11.194	11.199	-0.005	99	2615522	15.1	
24 1,4-Dioxane	88	2.358	2.363	-0.005	91	609271	14.4	
25 N-Nitrosodimethylamine	74	2.818	2.823	-0.005	93	802499	15.3	
26 Pyridine	79	2.872	2.877	-0.005	97	1511978	15.2	
27 Ethyl methacrylate	69	3.562	3.567	-0.005	87	970035	14.7	
28 3-Chloropropionitrile	54	3.952	3.957	-0.005	85	717146	15.3	
32 Malononitrile	66	4.310	4.310	0.0	95	1400206	15.7	
40 Benzaldehyde	77	5.514	5.514	0.0	91	892752	13.3	
41 Phenol	94	5.562	5.562	0.0	98	2058575	14.7	
43 Aniline	93	5.610	5.610	0.0	98	2327767	14.7	
44 Bis(2-chloroethyl)ether	93	5.664	5.664	0.0	97	1310152	14.6	
46 2-Chlorophenol	128	5.717	5.717	0.0	95	1583922	14.6	
47 1,3-Dichlorobenzene	146	5.861	5.867	-0.006	96	1354279	14.4	
48 1,4-Dichlorobenzene	146	5.931	5.931	0.0	92	1673338	14.3	
49 Benzyl alcohol	108	6.027	6.027	0.0	91	1040379	15.4	
50 1,2-Dichlorobenzene	146	6.070	6.070	0.0	94	1306787	14.5	
51 2-Methylphenol	108	6.118	6.118	0.0	95	1502160	15.0	
52 2,2'-oxybis[1-chloropropane]	45	6.150	6.150	0.0	91	1368664	14.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
191 3 & 4 Methylphenol	108	6.252	6.252	0.0	96	1552017	14.8	
56 N-Nitrosodi-n-propylamine	70	6.268	6.268	0.0	80	848436	14.9	
57 Acetophenone	105	6.273	6.273	0.0	95	1714679	14.4	
60 Hexachloroethane	117	6.375	6.375	0.0	92	533536	15.0	
61 Nitrobenzene	77	6.423	6.423	0.0	82	1388013	15.1	
63 Isophorone	82	6.632	6.632	0.0	99	2334482	15.4	
65 2-Nitrophenol	139	6.707	6.707	0.0	94	801642	14.4	
66 1,3,5-Trichlorobenzene	180	6.717	6.717	0.0	96	1124000	14.7	
64 2,4-Dimethylphenol	107	6.723	6.723	0.0	94	1584480	14.9	
69 Benzoic acid	122	6.803	6.765	0.038	81	1680861	30.0	
68 Bis(2-chloroethoxy)methane	93	6.814	6.814	0.0	91	1548356	14.8	
71 2,4-Dichlorophenol	162	6.910	6.910	0.0	94	1263688	15.1	
72 1,2,4-Trichlorobenzene	180	6.990	6.990	0.0	92	1142932	14.7	
73 Naphthalene	128	7.065	7.065	0.0	97	3540834	14.7	
74 4-Chloroaniline	127	7.097	7.097	0.0	85	1708794	15.3	
77 Hexachlorobutadiene	225	7.167	7.167	-0.001	93	606172	14.7	
78 1,2,3-Trichlorobenzene	180	7.188	7.188	0.0	90	1082729	0	
83 Caprolactam	113	7.391	7.380	0.011	85	330237	15.9	
84 4-Chloro-3-methylphenol	107	7.498	7.498	0.0	96	1384704	15.7	
85 2-Methylnaphthalene	142	7.659	7.659	0.0	89	2225086	14.7	
86 1-Methylnaphthalene	142	7.744	7.750	-0.006	90	2138096	14.5	
88 Hexachlorocyclopentadiene	237	7.792	7.792	0.0	87	626565	14.4	
87 1,2,3,5-Tetrachlorobenzene	216	7.787	7.792	-0.005	95	1071060	14.5	
90 2,4,6-Trichlorophenol	196	7.889	7.889	0.0	93	922597	15.8	
91 2,4,5-Trichlorophenol	196	7.921	7.921	0.0	94	984580	15.3	
94 2,4-Toluene diamine	121	8.033	8.033	0.0	97	462880	15.1	
96 1,2,3,4 -Tetrachlorobenzene	216	8.044	8.049	-0.005	95	1048856	0	
95 1,1'-Biphenyl	154	8.054	8.054	0.0	94	2656934	14.5	
98 2-Chloronaphthalene	162	8.081	8.081	0.0	96	2344810	14.7	
100 2-Nitroaniline	65	8.151	8.151	0.0	84	765126	14.4	
103 Dimethyl phthalate	163	8.295	8.295	0.0	98	2439906	15.0	
105 2,6-Dinitrotoluene	165	8.354	8.354	0.0	96	565942	14.5	
106 1,2-Dinitrobenzene	168	8.402	8.402	0.0	87	289965	14.6	
107 Acenaphthylene	152	8.434	8.440	-0.006	92	3551614	15.8	
108 3-Nitroaniline	138	8.498	8.498	0.0	95	722700	14.4	
110 Acenaphthene	153	8.584	8.584	0.0	90	2063719	14.6	
109 2,4-Dinitrophenol	184	8.589	8.589	0.0	81	663498	29.2	
111 4-Nitrophenol	109	8.616	8.611	0.005	90	496792	14.3	
112 2,4-Dinitrotoluene	165	8.696	8.696	0.0	86	770957	14.4	
114 Dibenzofuran	168	8.728	8.728	0.0	88	3143157	14.6	
115 2,3,5,6-Tetrachlorophenol	232	8.787	8.787	0.0	91	830901	14.7	
119 Diethyl phthalate	149	8.894	8.894	0.0	97	2339721	15.1	
121 4-Chlorophenyl phenyl ether	204	9.006	9.012	-0.006	94	1249315	14.9	
123 4-Nitroaniline	138	9.022	9.017	0.005	62	702472	14.3	
124 Fluorene	166	9.022	9.023	-0.001	91	2531431	14.8	
126 4,6-Dinitro-2-methylphenol	198	9.044	9.044	0.0	85	517434	14.5	
130 N-Nitrosodiphenylamine	169	9.103	9.108	-0.005	0	2073080	15.5	
131 Azobenzene	77	9.146	9.146	0.0	98	2784315	15.4	
129 1,2-Diphenylhydrazine	77	9.146	9.146	0.0	0	2784315	15.4	
137 4-Bromophenyl phenyl ether	248	9.429	9.429	0.0	62	721422	15.3	
139 Hexachlorobenzene	284	9.488	9.493	-0.005	90	717490	14.6	
140 Atrazine	200	9.541	9.541	0.0	91	470189	16.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
141 Pentachlorophenol	266	9.648	9.648	0.0	90	1153973	29.4	
146 Phenanthrene	178	9.846	9.846	0.0	97	3592541	14.7	
147 Anthracene	178	9.889	9.889	0.0	97	3668301	16.0	
149 Carbazole	167	10.012	10.012	0.0	81	3496931	15.3	
151 Di-n-butyl phthalate	149	10.279	10.279	0.0	100	3996191	15.3	
157 Fluoranthene	202	10.862	10.862	0.0	97	4053796	15.7	
158 Benzidine	184	10.959	10.964	-0.005	100	2181137	14.9	
160 Pyrene	202	11.076	11.076	0.0	98	4274201	15.4	
166 Butyl benzyl phthalate	149	11.686	11.686	0.0	96	1670244	14.3	
170 3,3'-Dimethoxybenzidine	244	12.301	12.301	0.0	94	980453	14.3	
172 4,4'-Methylene bis(2-chloroanili	231	12.344	12.344	0.0	77	773696	14.5	
173 3,3'-Dichlorobenzidine	252	12.339	12.344	-0.005	68	1699140	14.7	
171 Bis(2-ethylhexyl) phthalate	149	12.376	12.381	-0.005	96	2400113	14.5	
175 Benzo[a]anthracene	228	12.392	12.398	-0.006	98	3899652	15.6	
176 Chrysene	228	12.440	12.446	-0.006	95	3525022	15.0	
178 Di-n-octyl phthalate	149	13.296	13.301	-0.005	99	3846324	14.8	
180 Benzo[b]fluoranthene	252	13.916	13.917	-0.001	95	3786238	15.5	
181 Benzo[k]fluoranthene	252	13.954	13.959	-0.005	95	4164952	16.0	
182 Benzo[a]pyrene	252	14.414	14.419	-0.005	75	3749884	14.3	
186 Indeno[1,2,3-cd]pyrene	276	16.174	16.179	-0.005	98	3922218	15.9	
187 Dibenz(a,h)anthracene	278	16.200	16.211	-0.011	74	3218513	15.9	
188 Benzo[g,h,i]perylene	276	16.628	16.634	-0.006	93	3285630	15.5	
S 189 Methyl Phenols,Total	100				0		15.0	

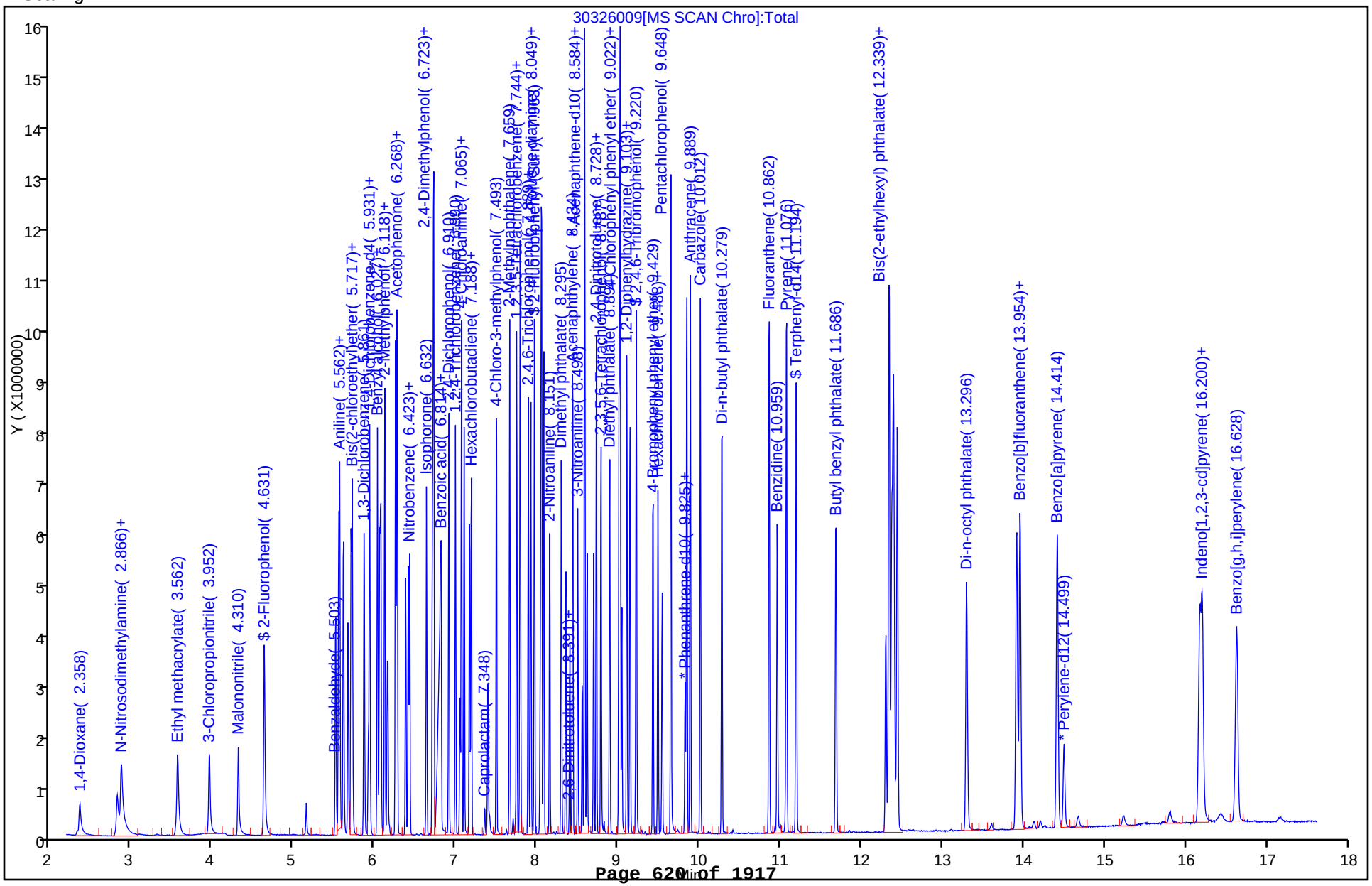
Report Date: 27-Mar-2013 12:57:17 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326009.D

Injection Date:	26-Mar-2013 12:41:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	Lims Sample ID:	9
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326010.D		
Lims ID:	std6 tcl	Client ID:	
Inject. Date:	26-Mar-2013 13:05:30	Dil. Factor:	1.0000
Sample Type:	ICIS	Calib Level:	6
Sample ID:	240-0018258-010		
Misc. Info.:	STD6 TCL		
Operator:	001710	Instrument ID:	A4HP7
Injection Vol:	1.0 ul	ALS Bottle#:	10
Lims Batch ID:	79445	Lims Sample ID:	10
Sublist:	chrom-8270_hp7*sub15		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\8270_hp7.m		
Last Update:	27-Mar-2013 12:57:18	Calib Date:	26-Mar-2013 17:03:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326020.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK014		
First Level Reviewer: gruberj		Date:	26-Mar-2013 13:23:23

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.915	5.915	0.0	97	265483	4.00	
* 2 Naphthalene-d8	136	7.043	7.043	0.0	99	1039919	4.00	
* 3 Acenaphthene-d10	164	8.557	8.557	0.0	91	608045	4.00	
* 4 Phenanthrene-d10	188	9.825	9.825	0.0	98	969063	4.00	
* 5 Chrysene-d12	240	12.403	12.403	0.0	88	1099308	4.00	
* 6 Perylene-d12	264	14.494	14.494	0.0	96	912884	4.00	
$ 7 2-Fluorophenol	112	4.631	4.631	0.0	93	1039757	9.87	
$ 8 Phenol-d5	99	5.546	5.546	0.0	95	1385274	9.93	
$ 9 Nitrobenzene-d5	82	6.407	6.407	0.0	88	957271	10.3	
$ 10 2-Fluorobiphenyl (Surr)	172	7.963	7.963	0.0	99	1842894	9.70	
$ 11 2,4,6-Tribromophenol	330	9.226	9.226	0.0	92	294115	9.47	
$ 12 Terphenyl-d14	244	11.194	11.194	0.0	98	1776880	9.72	
24 1,4-Dioxane	88	2.353	2.353	0.0	92	420122	9.42	
25 N-Nitrosodimethylamine	74	2.813	2.813	0.0	92	570504	10.3	
26 Pyridine	79	2.866	2.866	0.0	96	1090395	10.4	
27 Ethyl methacrylate	69	3.561	3.561	0.0	87	706236	10.2	
28 3-Chloropropionitrile	54	3.952	3.952	0.0	87	499541	10.1	
32 Malononitrile	66	4.310	4.310	0.0	95	972810	10.4	
40 Benzaldehyde	77	5.508	5.508	0.0	96	695440	9.83	
41 Phenol	94	5.562	5.562	0.0	97	1476159	10.0	
43 Aniline	93	5.605	5.605	0.0	98	1662335	9.96	
44 Bis(2-chloroethyl)ether	93	5.663	5.663	0.0	97	925694	9.82	
46 2-Chlorophenol	128	5.717	5.717	0.0	91	1124712	9.85	
47 1,3-Dichlorobenzene	146	5.861	5.861	0.0	95	975264	9.83	
48 1,4-Dichlorobenzene	146	5.931	5.931	0.0	92	1192018	9.68	
49 Benzyl alcohol	108	6.027	6.027	0.0	91	720165	10.1	
50 1,2-Dichlorobenzene	146	6.070	6.070	0.0	94	914086	9.66	
51 2-Methylphenol	108	6.118	6.118	0.0	95	1055964	10.0	
52 2,2'-oxybis[1-chloropropane]	45	6.150	6.150	0.0	91	962987	9.75	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
191 3 & 4 Methylphenol	108	6.252	6.252	0.0	96	1091443	9.90	
56 N-Nitrosodi-n-propylamine	70	6.268	6.268	0.0	81	600670	9.99	
57 Acetophenone	105	6.268	6.268	0.0	94	1241282	9.90	
60 Hexachloroethane	117	6.375	6.375	0.0	92	380489	10.2	
61 Nitrobenzene	77	6.423	6.423	0.0	83	995913	10.2	
63 Isophorone	82	6.632	6.632	0.0	99	1631728	10.2	
65 2-Nitrophenol	139	6.706	6.706	0.0	94	562114	9.69	
66 1,3,5-Trichlorobenzene	180	6.717	6.717	0.0	95	789636	9.76	
64 2,4-Dimethylphenol	107	6.722	6.722	0.0	94	1130626	10.1	
69 Benzoic acid	122	6.792	6.792	0.0	84	1078161	20.1	
68 Bis(2-chloroethoxy)methane	93	6.813	6.813	0.0	93	1096909	9.94	
71 2,4-Dichlorophenol	162	6.910	6.910	0.0	94	912308	10.3	
72 1,2,4-Trichlorobenzene	180	6.990	6.990	0.0	90	808990	9.87	
73 Naphthalene	128	7.065	7.065	0.0	97	2467428	9.69	
74 4-Chloroaniline	127	7.097	7.097	0.0	86	1201285	10.2	
77 Hexachlorobutadiene	225	7.166	7.166	0.0	94	433361	9.98	
78 1,2,3-Trichlorobenzene	180	7.188	7.188	0.0	90	750760	0	
83 Caprolactam	113	7.386	7.386	0.0	80	240111	10.9	
84 4-Chloro-3-methylphenol	107	7.498	7.498	0.0	95	954944	10.2	
85 2-Methylnaphthalene	142	7.658	7.658	0.0	90	1572040	9.83	
86 1-Methylnaphthalene	142	7.744	7.744	0.0	90	1526189	9.80	
88 Hexachlorocyclopentadiene	237	7.792	7.792	0.0	94	429847	9.51	
87 1,2,3,5-Tetrachlorobenzene	216	7.787	7.787	0.0	95	761135	9.83	
90 2,4,6-Trichlorophenol	196	7.888	7.888	0.0	92	650890	10.7	
91 2,4,5-Trichlorophenol	196	7.921	7.921	0.0	94	697628	10.3	
94 2,4-Toluene diamine	121	8.033	8.033	0.0	96	296411	9.81	
96 1,2,3,4 -Tetrachlorobenzene	216	8.044	8.044	0.0	95	742696	0	
95 1,1'-Biphenyl	154	8.054	8.054	0.0	94	1838102	9.55	
98 2-Chloronaphthalene	162	8.081	8.081	0.0	96	1638715	9.81	
100 2-Nitroaniline	65	8.151	8.151	0.0	83	532110	9.63	
103 Dimethyl phthalate	163	8.295	8.295	0.0	98	1666867	9.79	
105 2,6-Dinitrotoluene	165	8.354	8.354	0.0	95	384404	9.48	
106 1,2-Dinitrobenzene	168	8.402	8.402	0.0	86	188370	9.18	
107 Acenaphthylene	152	8.434	8.434	0.0	94	2436333	10.3	
108 3-Nitroaniline	138	8.498	8.498	0.0	94	494851	9.51	
110 Acenaphthene	153	8.584	8.584	0.0	91	1439434	9.71	
109 2,4-Dinitrophenol	184	8.589	8.589	0.0	73	433425	19.4	
111 4-Nitrophenol	109	8.611	8.611	0.0	91	341752	9.59	
112 2,4-Dinitrotoluene	165	8.696	8.696	0.0	93	526384	9.49	
114 Dibenzofuran	168	8.728	8.728	0.0	89	2169395	9.64	
115 2,3,5,6-Tetrachlorophenol	232	8.787	8.787	0.0	89	560387	9.54	
119 Diethyl phthalate	149	8.894	8.894	0.0	97	1602197	9.85	
121 4-Chlorophenyl phenyl ether	204	9.006	9.006	0.0	95	848242	9.66	
123 4-Nitroaniline	138	9.017	9.017	0.0	81	488242	9.60	
124 Fluorene	166	9.022	9.022	0.0	92	1789234	9.94	
126 4,6-Dinitro-2-methylphenol	198	9.044	9.044	0.0	85	338424	9.48	
130 N-Nitrosodiphenylamine	169	9.103	9.103	0.0	0	1419987	10.0	
131 Azobenzene	77	9.145	9.145	0.0	98	1930662	10.1	
129 1,2-Diphenylhydrazine	77	9.145	9.145	0.0	0	1930662	10.1	
137 4-Bromophenyl phenyl ether	248	9.429	9.429	0.0	62	490578	9.78	
139 Hexachlorobenzene	284	9.488	9.488	0.0	89	499897	9.59	
140 Atrazine	200	9.541	9.541	0.0	91	330377	10.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
141 Pentachlorophenol	266	9.648	9.648	0.0	89	764114	18.6	
146 Phenanthrene	178	9.841	9.841	0.0	97	2454518	9.47	
147 Anthracene	178	9.889	9.889	0.0	97	2537397	10.4	
149 Carbazole	167	10.012	10.012	0.0	82	2393500	9.87	
151 Di-n-butyl phthalate	149	10.279	10.279	0.0	100	2697028	9.72	
157 Fluoranthene	202	10.857	10.857	0.0	98	2758426	10.1	
158 Benzidine	184	10.959	10.959	0.0	100	1453880	9.58	
160 Pyrene	202	11.071	11.071	0.0	97	2952020	10.0	
166 Butyl benzyl phthalate	149	11.686	11.686	0.0	97	1148070	9.42	
170 3,3'-Dimethoxybenzidine	244	12.296	12.296	0.0	88	644291	9.44	
172 4,4'-Methylene bis(2-chloroanili	231	12.339	12.339	0.0	68	536889	9.62	
173 3,3'-Dichlorobenzidine	252	12.339	12.339	0.0	71	1170164	9.64	
171 Bis(2-ethylhexyl) phthalate	149	12.376	12.376	0.0	96	1625244	9.38	
175 Benzo[a]anthracene	228	12.392	12.392	0.0	97	2666598	10.1	
176 Chrysene	228	12.440	12.440	0.0	95	2427682	9.75	
178 Di-n-octyl phthalate	149	13.296	13.296	0.0	99	2488951	9.86	
180 Benzo[b]fluoranthene	252	13.911	13.911	0.0	94	2624632	10.2	
181 Benzo[k]fluoranthene	252	13.954	13.954	0.0	99	2738407	10.0	
182 Benzo[a]pyrene	252	14.414	14.414	0.0	73	2518111	9.17	
186 Indeno[1,2,3-cd]pyrene	276	16.168	16.168	0.0	94	2675286	10.3	
187 Dibenz(a,h)anthracene	278	16.200	16.200	0.0	85	2204679	10.3	
188 Benzo[g,h,i]perylene	276	16.623	16.623	0.0	92	2225735	9.99	
S 189 Methyl Phenols,Total	100				0		10.0	

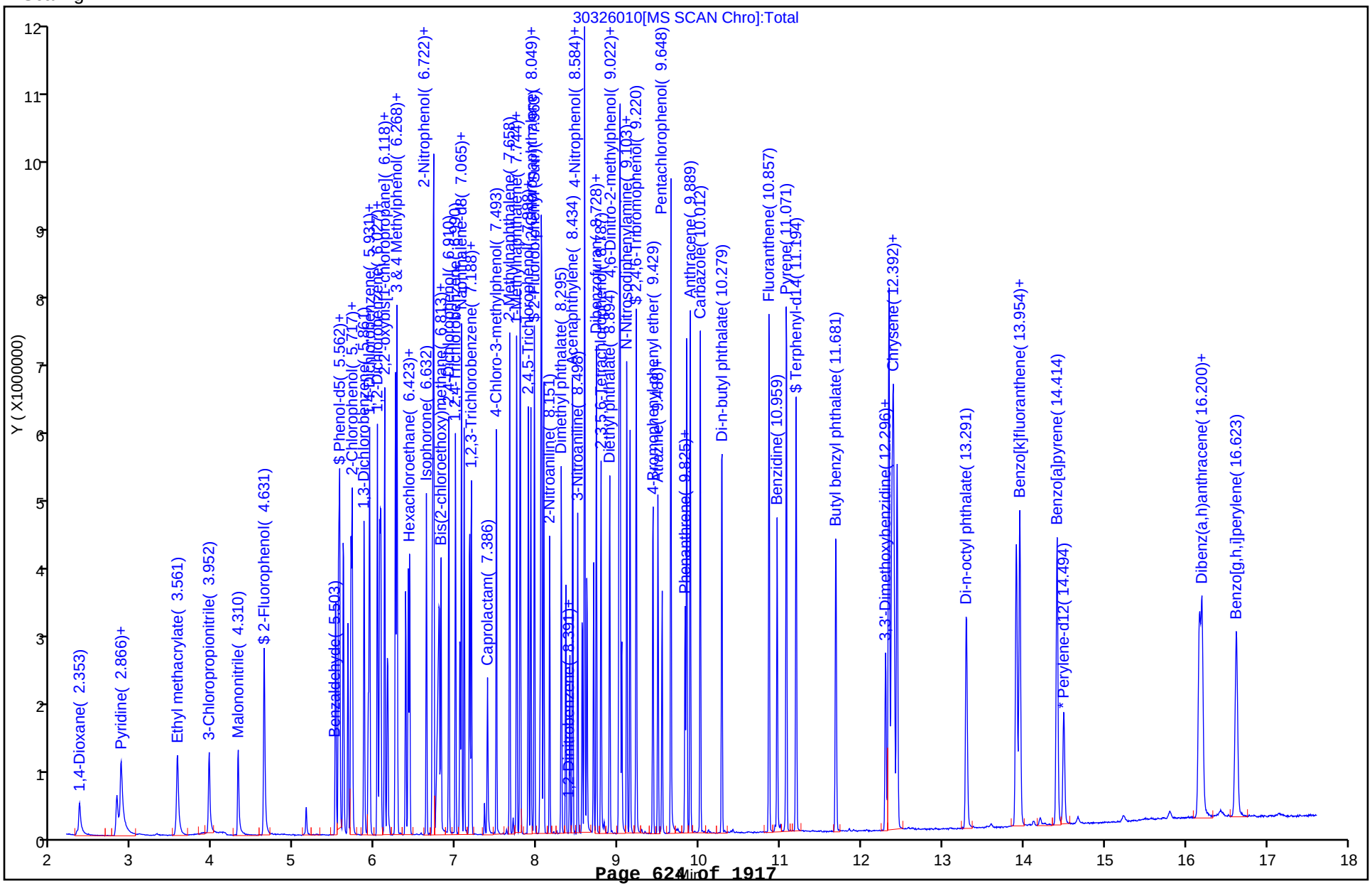
Report Date: 27-Mar-2013 12:57:19 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326010.D

Injection Date:	26-Mar-2013 13:05:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	Lims Sample ID:	10
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-79445/12 Calibration Date: 03/26/2013 13:52

Instrument ID: A4HP7 Calib Start Date: 02/18/2013 18:36

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 02/18/2013 20:45

Lab File ID: 30326012.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4,5-Tetrachlorobenzene	Ave	0.4259		0.0500	0.000550	10.0		20.0
2,6-Dichlorophenol	Ave	0.2266		0.0500	0.0100	10.0		20.0
N-Nitrosopyrrolidine	Ave	0.6641		0.0500	0.00240	10.0		20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326012.D
Lims ID: icv tcli Client ID:
Inject. Date: 26-Mar-2013 13:52:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018258-012
Misc. Info.: ICV TCLI
Operator: 001710 Instrument ID: A4HP7
Injection Vol: 1.0 ul ALS Bottle#: 12
Lims Batch ID: 79445 Lims Sample ID: 12
Sublist:
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\8270_hp7.m
Last Update: 27-Mar-2013 12:57:18 Calib Date: 26-Mar-2013 17:03:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326020.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: 5% phenyl Column Dia: 0.18 mm
Process Host: XAWRK014

First Level Reviewer: gruberj Date: 26-Mar-2013 14:21:52

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.915	5.915	0.0	96	222829	4.00	
* 2 Naphthalene-d8	136	7.044	7.043	0.001	99	888114	4.00	
* 3 Acenaphthene-d10	164	8.552	8.557	-0.005	91	525531	4.00	
* 4 Phenanthrene-d10	188	9.819	9.825	-0.006	97	829262	4.00	
* 5 Chrysene-d12	240	12.403	12.403	0.0	94	941529	4.00	
* 6 Perylene-d12	264	14.500	14.494	0.006	97	750991	4.00	
24 1,4-Dioxane	88	2.358	2.353	0.005	91	304873	8.14	M
25 N-Nitrosodimethylamine	74	2.823	2.813	0.010	93	441569	9.53	
40 Benzaldehyde	77	5.514	5.508	0.006	91	79409	1.34	
41 Phenol	94	5.562	5.562	0.0	98	966230	7.82	
43 Aniline	93	5.605	5.605	0.0	98	1035206	7.39	
44 Bis(2-chloroethyl)ether	93	5.664	5.663	0.001	98	794436	10.0	
46 2-Chlorophenol	128	5.717	5.717	0.0	96	749770	7.83	
47 1,3-Dichlorobenzene	146	5.861	5.861	0.0	95	821699	9.86	
48 1,4-Dichlorobenzene	146	5.931	5.931	0.0	92	833728	8.07	
49 Benzyl alcohol	108	6.027	6.027	0.0	92	497052	8.31	
50 1,2-Dichlorobenzene	146	6.070	6.070	0.0	95	795694	10.0	
51 2-Methylphenol	108	6.118	6.118	0.0	96	647843	7.33	
52 2,2'-oxybis[1-chloropropane]	45	6.150	6.150	0.0	91	815533	9.84	
55 N-Nitrosopyrrolidine	100		6.247					
191 3 & 4 Methylphenol	108	6.252	6.252	0.0	96	715572	7.73	
56 N-Nitrosodi-n-propylamine	70	6.263	6.268	-0.005	66	499978	9.90	
57 Acetophenone	105	6.268	6.268	0.0	94	1067740	10.1	
60 Hexachloroethane	117	6.375	6.375	0.0	92	334841	10.7	
61 Nitrobenzene	77	6.423	6.423	0.0	87	830800	10.0	
63 Isophorone	82	6.632	6.632	0.0	99	1420751	10.4	
65 2-Nitrophenol	139	6.707	6.706	0.001	93	363537	7.42	
64 2,4-Dimethylphenol	107	6.723	6.722	0.001	94	710880	7.41	
69 Benzoic acid	122	6.781	6.792	-0.011	83	795298	17.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
68 Bis(2-chloroethoxy)methane	93	6.814	6.813	0.001	97	933385	9.91	
71 2,4-Dichlorophenol	162	6.910	6.910	0.0	95	610203	8.10	
72 1,2,4-Trichlorobenzene	180	6.990	6.990	0.0	92	656953	9.39	
73 Naphthalene	128	7.065	7.065	0.0	97	2182762	10.0	
74 4-Chloroaniline	127	7.097	7.097	0.0	87	861727	8.53	
75 2,6-Dichlorophenol	162		7.108					
77 Hexachlorobutadiene	225	7.161	7.166	-0.005	95	370501	9.99	
83 Caprolactam	113	7.386	7.386	0.0	84	232802	12.4	
84 4-Chloro-3-methylphenol	107	7.493	7.498	-0.005	96	645334	8.09	
85 2-Methylnaphthalene	142	7.659	7.658	0.001	89	1359095	9.96	
88 Hexachlorocyclopentadiene	237	7.792	7.792	0.0	88	366249	9.38	
89 1,2,4,5-Tetrachlorobenzene	216		7.798					
90 2,4,6-Trichlorophenol	196	7.889	7.888	0.001	92	436765	8.28	
91 2,4,5-Trichlorophenol	196	7.921	7.921	0.0	95	475537	8.16	
95 1,1'-Biphenyl	154	8.054	8.054	0.0	95	1685042	10.1	
98 2-Chloronaphthalene	162	8.076	8.081	-0.005	96	1388728	9.62	
100 2-Nitroaniline	65	8.151	8.151	0.0	82	421354	8.85	
103 Dimethyl phthalate	163	8.295	8.295	0.0	99	1560023	10.6	
105 2,6-Dinitrotoluene	165	8.349	8.354	-0.005	92	326584	9.33	
107 Acenaphthylene	152	8.434	8.434	0.0	92	2128294	10.4	
108 3-Nitroaniline	138	8.498	8.498	0.0	94	372511	8.32	
110 Acenaphthene	153	8.584	8.584	0.0	93	1267912	9.90	
109 2,4-Dinitrophenol	184	8.584	8.589	-0.005	69	275087	15.1	
111 4-Nitrophenol	109	8.611	8.611	0.0	90	229816	7.58	
112 2,4-Dinitrotoluene	165	8.696	8.696	0.0	92	456920	9.53	
114 Dibenzofuran	168	8.728	8.728	0.0	88	1923605	9.89	
117 2,3,4,6-Tetrachlorophenol	232		8.819					
119 Diethyl phthalate	149	8.889	8.894	-0.005	97	1451853	10.3	
121 4-Chlorophenyl phenyl ether	204	9.006	9.006	0.0	94	744638	9.81	
123 4-Nitroaniline	138	9.017	9.017	0.0	80	332804	7.64	
124 Fluorene	166	9.023	9.022	0.0	91	1544177	9.93	
126 4,6-Dinitro-2-methylphenol	198	9.039	9.044	-0.005	68	210112	7.27	
130 N-Nitrosodiphenylamine	169	9.103	9.103	0.0	0	1091306	8.98	
131 Azobenzene	77	9.140	9.145	-0.005	98	1757225	10.7	
137 4-Bromophenyl phenyl ether	248	9.429	9.429	0.0	63	416974	9.72	
139 Hexachlorobenzene	284	9.488	9.488	0.0	88	421696	9.46	
140 Atrazine	200	9.536	9.541	-0.005	90	171471	6.43	
141 Pentachlorophenol	266	9.648	9.648	0.0	89	551367	15.8	
146 Phenanthrene	178	9.841	9.841	0.0	97	2204645	9.94	
147 Anthracene	178	9.884	9.889	-0.005	98	2247204	10.8	
149 Carbazole	167	10.012	10.012	0.0	82	2172546	10.5	
151 Di-n-butyl phthalate	149	10.274	10.279	-0.005	100	2462250	10.4	
157 Fluoranthene	202	10.857	10.857	0.0	98	2457583	10.5	
158 Benzidine	184	10.959	10.959	0.0	66	11346	0.5554	
160 Pyrene	202	11.071	11.071	0.0	97	2516150	9.99	
166 Butyl benzyl phthalate	149	11.681	11.686	-0.005	97	1045312	9.99	
173 3,3'-Dichlorobenzidine	252	12.339	12.339	0.0	70	522681	5.17	
171 Bis(2-ethylhexyl) phthalate	149	12.371	12.376	-0.005	97	1445445	9.73	
175 Benzo[a]anthracene	228	12.392	12.392	0.0	98	2351287	10.4	
176 Chrysene	228	12.440	12.440	0.0	94	2318630	10.9	
178 Di-n-octyl phthalate	149	13.296	13.296	0.0	99	2252641	10.7	
180 Benzo[b]fluoranthene	252	13.911	13.911	0.0	93	2273428	10.8	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
181 Benzo[k]fluoranthene	252	13.954	13.954	0.0	99	2437253	10.8	
182 Benzo[a]pyrene	252	14.414	14.414	0.0	75	1969731	8.73	
186 Indeno[1,2,3-cd]pyrene	276	16.168	16.168	0.0	98	2322059	10.9	
187 Dibenz(a,h)anthracene	278	16.200	16.200	0.0	87	2006234	11.4	
188 Benzo[g,h,i]perylene	276	16.628	16.623	0.005	92	2040120	11.1	

QC Flag Legend

Review Flags
M - Manually Integrated

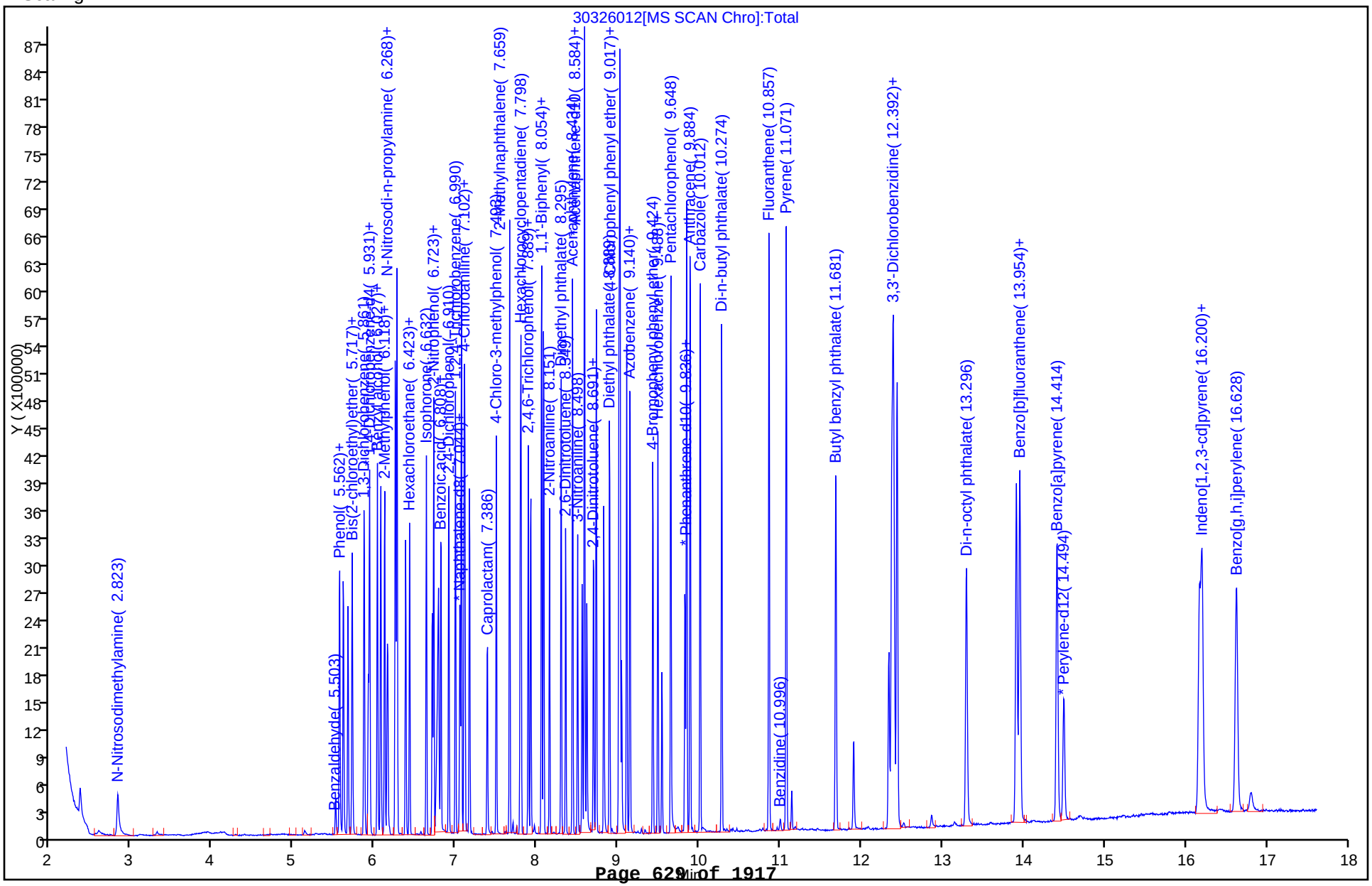
Report Date: 27-Mar-2013 12:57:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326012.D

Injection Date:	26-Mar-2013 13:52:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	Lims Sample ID:	12
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-79445/12 Calibration Date: 03/26/2013 13:52

Instrument ID: A4HP7 Calib Start Date: 03/26/2013 09:55

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 03/26/2013 13:05

Lab File ID: 30326012.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6721	0.5473	0.0500	8.14	10.0	-18.6	20.0
N-Nitrosodimethylamine	Ave	0.8317	0.7927	0.0500	9.53	10.0	-4.7	20.0
Benzaldehyde	Ave	1.066	0.1426	0.0500	1.34	10.0	-86.6*	20.0
Phenol	Ave	2.217	1.734	0.0500	7.82	10.0	-21.8*	20.0
Aniline	Ave	2.515	1.858	0.0500	7.39	10.0	-26.1*	20.0
Bis(2-chloroethyl)ether	Ave	1.420	1.426	0.0500	10.0	10.0	0.4	20.0
2-Chlorophenol	Ave	1.720	1.346	0.0500	7.83	10.0	-21.7*	20.0
1,3-Dichlorobenzene	Ave	1.495	1.475	0.0500	9.86	10.0	-1.4	20.0
1,4-Dichlorobenzene	Ave	1.855	1.497	0.0500	8.07	10.0	-19.3	20.0
Benzyl alcohol	Ave	1.074	0.8923	0.0500	8.31	10.0	-16.9	20.0
1,2-Dichlorobenzene	Ave	1.425	1.428	0.0500	10.0	10.0	0.2	20.0
2-Methylphenol	Ave	1.587	1.163	0.0500	7.33	10.0	-26.7*	20.0
bis (2-chloroisopropyl) ether	Ave	1.488	1.464	0.0500	9.84	10.0	-1.6	20.0
3 & 4 Methylphenol	Ave	1.661	1.285	0.0500	7.73	10.0	-22.7*	20.0
N-Nitrosodi-n-propylamine	Ave	0.9063	0.8975	0.0500	9.90	10.0	-1.0	20.0
Acetophenone	Ave	1.890	1.917	0.0500	10.1	10.0	1.4	20.0
Hexachloroethane	Ave	0.5638	0.6011	0.0500	10.7	10.0	6.6	20.0
Nitrobenzene	Ave	0.3745	0.3742	0.0500	9.99	10.0	-0.0	20.0
Isophorone	Ave	0.6139	0.6399	0.0500	10.4	10.0	4.2	20.0
2-Nitrophenol	Lin1		0.1637	0.0500	7.42	10.0	-25.8*	20.0
2,4-Dimethylphenol	Ave	0.4321	0.3202	0.0500	7.41	10.0	-25.9*	20.0
Benzoic acid	Qua		0.1791	0.0500	17.9	20.0	-10.4	20.0
Bis(2-chloroethoxy)methane	Ave	0.4244	0.4204	0.0500	9.91	10.0	-0.9	20.0
2,4-Dichlorophenol	Ave	0.3391	0.2748	0.0500	8.10	10.0	-19.0	20.0
1,2,4-Trichlorobenzene	Ave	0.3152	0.2959	0.0500	9.39	10.0	-6.1	20.0
Naphthalene	Ave	0.9792	0.9831	0.0500	10.0	10.0	0.4	20.0
4-Chloroaniline	Ave	0.4550	0.3881	0.0500	8.53	10.0	-14.7	20.0
Hexachlorobutadiene	Ave	0.1671	0.1669	0.0500	9.99	10.0	-0.1	20.0
Caprolactam	Ave	0.0845	0.1049	0.0500	12.4	10.0	24.1*	20.0
4-Chloro-3-methylphenol	Ave	0.3594	0.2907	0.0500	8.09	10.0	-19.1	20.0
2-Methylnaphthalene	Ave	0.6149	0.6121	0.0500	9.96	10.0	-0.4	20.0
Hexachlorocyclopentadiene	Lin1		0.2788	0.0500	9.38	10.0	-6.2	20.0
2,4,6-Trichlorophenol	Ave	0.4017	0.3324	0.0500	8.28	10.0	-17.2	20.0
2,4,5-Trichlorophenol	Ave	0.4437	0.3620	0.0500	8.16	10.0	-18.4	20.0
1,1'-Biphenyl	Ave	1.266	1.283	0.0500	10.1	10.0	1.3	20.0
2-Chloronaphthalene	Ave	1.099	1.057	0.0500	9.62	10.0	-3.8	20.0
2-Nitroaniline	Lin1		0.3207	0.0500	8.85	10.0	-11.5	20.0
Dimethyl phthalate	Ave	1.120	1.187	0.0500	10.6	10.0	6.1	20.0
2,6-Dinitrotoluene	Lin1		0.2486	0.0500	9.33	10.0	-6.7	20.0
Acenaphthylene	Ave	1.552	1.620	0.0500	10.4	10.0	4.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-79445/12 Calibration Date: 03/26/2013 13:52

Instrument ID: A4HP7 Calib Start Date: 03/26/2013 09:55

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 03/26/2013 13:05

Lab File ID: 30326012.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3-Nitroaniline	Lin1		0.2835	0.0500	8.32	10.0	-16.8	20.0
2,4-Dinitrophenol	Lin1		0.1047	0.0500	15.1	20.0	-24.6*	20.0
Acenaphthene	Ave	0.9747	0.9651	0.0500	9.90	10.0	-1.0	20.0
4-Nitrophenol	Lin1		0.1749	0.0500	7.58	10.0	-24.2*	20.0
2,4-Dinitrotoluene	Lin1		0.3478	0.0500	9.53	10.0	-4.7	20.0
Dibenzofuran	Ave	1.481	1.464	0.0500	9.89	10.0	-1.1	20.0
Diethyl phthalate	Ave	1.070	1.105	0.0500	10.3	10.0	3.3	20.0
4-Chlorophenyl phenyl ether	Ave	0.5777	0.5668	0.0500	9.81	10.0	-1.9	20.0
4-Nitroaniline	Lin1		0.2533	0.0500	7.64	10.0	-23.6*	20.0
Fluorene	Ave	1.184	1.175	0.0500	9.93	10.0	-0.7	20.0
4,6-Dinitro-2-methylphenol	Lin		0.1014	0.0500	7.27	10.0	-27.3*	20.0
N-Nitrosodiphenylamine	Ave	0.5865	0.5264	0.0500	8.98	10.0	-10.2	20.0
4-Bromophenyl phenyl ether	Ave	0.2070	0.2011	0.0500	9.72	10.0	-2.8	20.0
Hexachlorobenzene	Ave	0.2151	0.2034	0.0500	9.46	10.0	-5.4	20.0
Atrazine	Ave	0.1287	0.0827	0.0500	6.43	10.0	-35.7*	20.0
Pentachlorophenol	Lin1		0.1330	0.0500	15.8	20.0	-20.8*	20.0
Phenanthrene	Ave	1.070	1.063	0.0500	9.94	10.0	-0.6	20.0
Anthracene	Ave	1.004	1.084	0.0500	10.8	10.0	8.0	20.0
Carbazole	Ave	1.001	1.048	0.0500	10.5	10.0	4.7	20.0
Di-n-butyl phthalate	Ave	1.146	1.188	0.0500	10.4	10.0	3.7	20.0
Fluoranthene	Ave	1.131	1.185	0.0500	10.5	10.0	4.8	20.0
Benzidine	Lin1		0.0048*	0.0500	0.555	10.0	-94.4*	20.0
Pyrene	Ave	1.070	1.069	0.0500	9.99	10.0	-0.1	20.0
Butyl benzyl phthalate	Lin1		0.4441	0.0500	9.99	10.0	-0.1	20.0
3,3'-Dichlorobenzidine	Lin1		0.2221	0.0500	5.17	10.0	-48.3*	20.0
Bis(2-ethylhexyl) phthalate	Lin1		0.6141	0.0500	9.73	10.0	-2.7	20.0
Benzo[a]anthracene	Ave	0.9641	0.999	0.0500	10.4	10.0	3.6	20.0
Chrysene	Ave	0.9059	0.9851	0.0500	10.9	10.0	8.7	20.0
Di-n-octyl phthalate	Qua		1.200	0.0500	10.7	10.0	6.9	20.0
Benzo[b]fluoranthene	Ave	1.126	1.211	0.0500	10.8	10.0	7.6	20.0
Benzo[k]fluoranthene	Ave	1.199	1.298	0.0500	10.8	10.0	8.2	20.0
Benzo[a]pyrene	Lin1		1.049	0.0500	8.73	10.0	-12.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.137	1.237	0.0500	10.9	10.0	8.8	20.0
Dibenz(a,h)anthracene	Ave	0.9357	1.069	0.0500	11.4	10.0	14.2	20.0
Benzo[g,h,i]perylene	Ave	0.9766	1.087	0.0500	11.1	10.0	11.3	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326012.D
Lims ID: icv tcli Client ID:
Inject. Date: 26-Mar-2013 13:52:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018258-012
Misc. Info.: ICV TCLI
Operator: 001710 Instrument ID: A4HP7
Injection Vol: 1.0 ul ALS Bottle#: 12
Lims Batch ID: 79445 Lims Sample ID: 12
Sublist:
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\8270_hp7.m
Last Update: 27-Mar-2013 12:57:18 Calib Date: 26-Mar-2013 17:03:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326020.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: 5% phenyl Column Dia: 0.18 mm
Process Host: XAWRK014

First Level Reviewer: gruberj Date: 26-Mar-2013 14:21:52

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.915	5.915	0.0	96	222829	4.00	
* 2 Naphthalene-d8	136	7.044	7.043	0.001	99	888114	4.00	
* 3 Acenaphthene-d10	164	8.552	8.557	-0.005	91	525531	4.00	
* 4 Phenanthrene-d10	188	9.819	9.825	-0.006	97	829262	4.00	
* 5 Chrysene-d12	240	12.403	12.403	0.0	94	941529	4.00	
* 6 Perylene-d12	264	14.500	14.494	0.006	97	750991	4.00	
24 1,4-Dioxane	88	2.358	2.353	0.005	91	304873	8.14	M
25 N-Nitrosodimethylamine	74	2.823	2.813	0.010	93	441569	9.53	
40 Benzaldehyde	77	5.514	5.508	0.006	91	79409	1.34	
41 Phenol	94	5.562	5.562	0.0	98	966230	7.82	
43 Aniline	93	5.605	5.605	0.0	98	1035206	7.39	
44 Bis(2-chloroethyl)ether	93	5.664	5.663	0.001	98	794436	10.0	
46 2-Chlorophenol	128	5.717	5.717	0.0	96	749770	7.83	
47 1,3-Dichlorobenzene	146	5.861	5.861	0.0	95	821699	9.86	
48 1,4-Dichlorobenzene	146	5.931	5.931	0.0	92	833728	8.07	
49 Benzyl alcohol	108	6.027	6.027	0.0	92	497052	8.31	
50 1,2-Dichlorobenzene	146	6.070	6.070	0.0	95	795694	10.0	
51 2-Methylphenol	108	6.118	6.118	0.0	96	647843	7.33	
52 2,2'-oxybis[1-chloropropane]	45	6.150	6.150	0.0	91	815533	9.84	
55 N-Nitrosopyrrolidine	100		6.247					
191 3 & 4 Methylphenol	108	6.252	6.252	0.0	96	715572	7.73	
56 N-Nitrosodi-n-propylamine	70	6.263	6.268	-0.005	66	499978	9.90	
57 Acetophenone	105	6.268	6.268	0.0	94	1067740	10.1	
60 Hexachloroethane	117	6.375	6.375	0.0	92	334841	10.7	
61 Nitrobenzene	77	6.423	6.423	0.0	87	830800	10.0	
63 Isophorone	82	6.632	6.632	0.0	99	1420751	10.4	
65 2-Nitrophenol	139	6.707	6.706	0.001	93	363537	7.42	
64 2,4-Dimethylphenol	107	6.723	6.722	0.001	94	710880	7.41	
69 Benzoic acid	122	6.781	6.792	-0.011	83	795298	17.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
68 Bis(2-chloroethoxy)methane	93	6.814	6.813	0.001	97	933385	9.91	
71 2,4-Dichlorophenol	162	6.910	6.910	0.0	95	610203	8.10	
72 1,2,4-Trichlorobenzene	180	6.990	6.990	0.0	92	656953	9.39	
73 Naphthalene	128	7.065	7.065	0.0	97	2182762	10.0	
74 4-Chloroaniline	127	7.097	7.097	0.0	87	861727	8.53	
75 2,6-Dichlorophenol	162		7.108					
77 Hexachlorobutadiene	225	7.161	7.166	-0.005	95	370501	9.99	
83 Caprolactam	113	7.386	7.386	0.0	84	232802	12.4	
84 4-Chloro-3-methylphenol	107	7.493	7.498	-0.005	96	645334	8.09	
85 2-Methylnaphthalene	142	7.659	7.658	0.001	89	1359095	9.96	
88 Hexachlorocyclopentadiene	237	7.792	7.792	0.0	88	366249	9.38	
89 1,2,4,5-Tetrachlorobenzene	216		7.798					
90 2,4,6-Trichlorophenol	196	7.889	7.888	0.001	92	436765	8.28	
91 2,4,5-Trichlorophenol	196	7.921	7.921	0.0	95	475537	8.16	
95 1,1'-Biphenyl	154	8.054	8.054	0.0	95	1685042	10.1	
98 2-Chloronaphthalene	162	8.076	8.081	-0.005	96	1388728	9.62	
100 2-Nitroaniline	65	8.151	8.151	0.0	82	421354	8.85	
103 Dimethyl phthalate	163	8.295	8.295	0.0	99	1560023	10.6	
105 2,6-Dinitrotoluene	165	8.349	8.354	-0.005	92	326584	9.33	
107 Acenaphthylene	152	8.434	8.434	0.0	92	2128294	10.4	
108 3-Nitroaniline	138	8.498	8.498	0.0	94	372511	8.32	
110 Acenaphthene	153	8.584	8.584	0.0	93	1267912	9.90	
109 2,4-Dinitrophenol	184	8.584	8.589	-0.005	69	275087	15.1	
111 4-Nitrophenol	109	8.611	8.611	0.0	90	229816	7.58	
112 2,4-Dinitrotoluene	165	8.696	8.696	0.0	92	456920	9.53	
114 Dibenzofuran	168	8.728	8.728	0.0	88	1923605	9.89	
117 2,3,4,6-Tetrachlorophenol	232		8.819					
119 Diethyl phthalate	149	8.889	8.894	-0.005	97	1451853	10.3	
121 4-Chlorophenyl phenyl ether	204	9.006	9.006	0.0	94	744638	9.81	
123 4-Nitroaniline	138	9.017	9.017	0.0	80	332804	7.64	
124 Fluorene	166	9.023	9.022	0.0	91	1544177	9.93	
126 4,6-Dinitro-2-methylphenol	198	9.039	9.044	-0.005	68	210112	7.27	
130 N-Nitrosodiphenylamine	169	9.103	9.103	0.0	0	1091306	8.98	
131 Azobenzene	77	9.140	9.145	-0.005	98	1757225	10.7	
137 4-Bromophenyl phenyl ether	248	9.429	9.429	0.0	63	416974	9.72	
139 Hexachlorobenzene	284	9.488	9.488	0.0	88	421696	9.46	
140 Atrazine	200	9.536	9.541	-0.005	90	171471	6.43	
141 Pentachlorophenol	266	9.648	9.648	0.0	89	551367	15.8	
146 Phenanthrene	178	9.841	9.841	0.0	97	2204645	9.94	
147 Anthracene	178	9.884	9.889	-0.005	98	2247204	10.8	
149 Carbazole	167	10.012	10.012	0.0	82	2172546	10.5	
151 Di-n-butyl phthalate	149	10.274	10.279	-0.005	100	2462250	10.4	
157 Fluoranthene	202	10.857	10.857	0.0	98	2457583	10.5	
158 Benzidine	184	10.959	10.959	0.0	66	11346	0.5554	
160 Pyrene	202	11.071	11.071	0.0	97	2516150	9.99	
166 Butyl benzyl phthalate	149	11.681	11.686	-0.005	97	1045312	9.99	
173 3,3'-Dichlorobenzidine	252	12.339	12.339	0.0	70	522681	5.17	
171 Bis(2-ethylhexyl) phthalate	149	12.371	12.376	-0.005	97	1445445	9.73	
175 Benzo[a]anthracene	228	12.392	12.392	0.0	98	2351287	10.4	
176 Chrysene	228	12.440	12.440	0.0	94	2318630	10.9	
178 Di-n-octyl phthalate	149	13.296	13.296	0.0	99	2252641	10.7	
180 Benzo[b]fluoranthene	252	13.911	13.911	0.0	93	2273428	10.8	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
181 Benzo[k]fluoranthene	252	13.954	13.954	0.0	99	2437253	10.8	
182 Benzo[a]pyrene	252	14.414	14.414	0.0	75	1969731	8.73	
186 Indeno[1,2,3-cd]pyrene	276	16.168	16.168	0.0	98	2322059	10.9	
187 Dibenz(a,h)anthracene	278	16.200	16.200	0.0	87	2006234	11.4	
188 Benzo[g,h,i]perylene	276	16.628	16.623	0.005	92	2040120	11.1	

QC Flag Legend

Review Flags
M - Manually Integrated

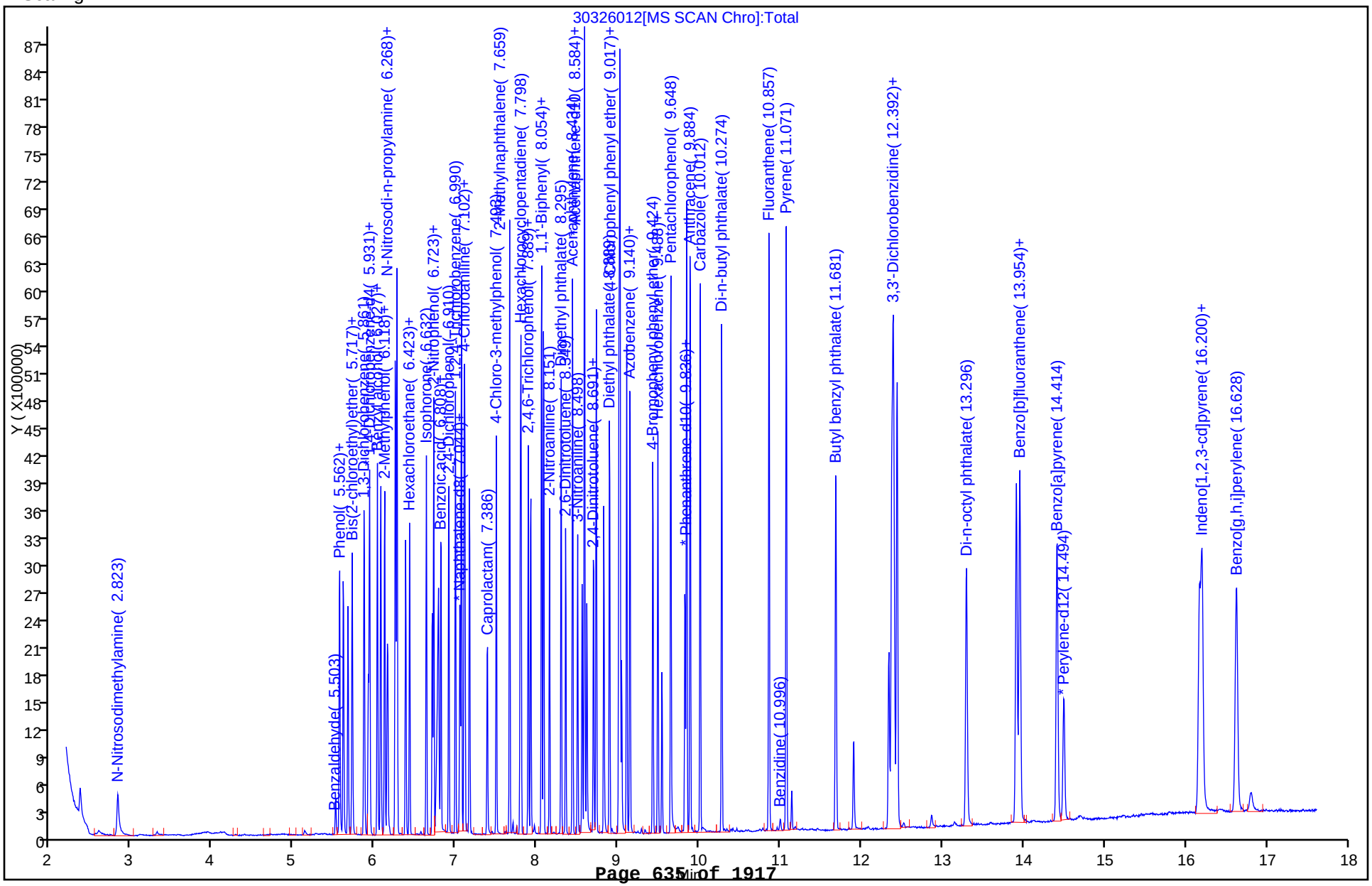
Report Date: 27-Mar-2013 12:57:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326012.D

Injection Date:	26-Mar-2013 13:52:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	Lims Sample ID:	12
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

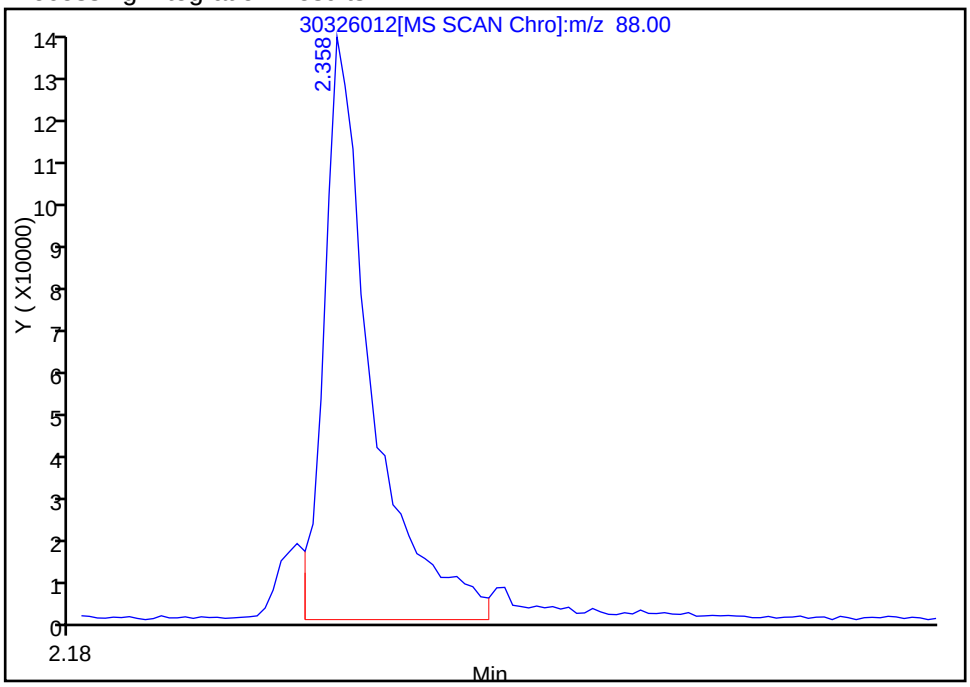
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326012.D		
Injection Date:	26-Mar-2013 13:52:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	Lims Sample ID:	12
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

24 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 2.35

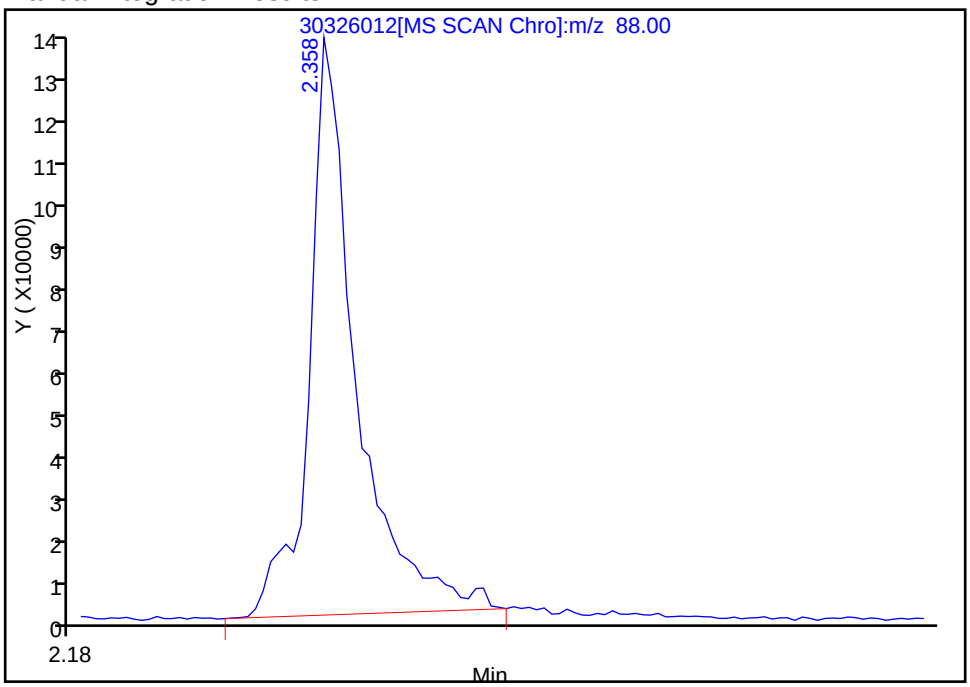
Processing Integration Results

RT: 2.36
Response: 297382
Amount: 7.943284



Manual Integration Results

RT: 2.36
Response: 304873
Amount: 8.143374



Reviewer: gruberj, 26-Mar-2013 14:21:52
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79745/2 Calibration Date: 03/28/2013 11:18

Instrument ID: A4HP7 Calib Start Date: 03/26/2013 09:55

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 03/26/2013 13:05

Lab File ID: 30328002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6721	0.6472	0.0500	9.63	10.0	-3.7	20.0
N-Nitrosodimethylamine	Ave	0.8317	0.8342	0.0500	10.0	10.0	0.3	20.0
Pyridine	Ave	1.578	1.607	0.0500	10.2	10.0	1.8	20.0
Benzaldehyde	Ave	1.066	1.046	0.0500	9.81	10.0	-1.9	20.0
Phenol	Ave	2.217	2.194	0.0500	9.90	10.0	-1.0	20.0
Aniline	Ave	2.515	2.486	0.0500	9.88	10.0	-1.2	20.0
Bis(2-chloroethyl)ether	Ave	1.420	1.399	0.0500	9.86	10.0	-1.4	20.0
2-Chlorophenol	Ave	1.720	1.694	0.0500	9.85	10.0	-1.5	20.0
1,3-Dichlorobenzene	Ave	1.495	1.451	0.0500	9.71	10.0	-2.9	20.0
1,4-Dichlorobenzene	Ave	1.855	1.829	0.0500	9.86	10.0	-1.4	20.0
Benzyl alcohol	Ave	1.074	1.109	0.0500	10.3	10.0	3.3	20.0
1,2-Dichlorobenzene	Ave	1.425	1.378	0.0500	9.67	10.0	-3.3	20.0
2-Methylphenol	Ave	1.587	1.566	0.0500	9.86	10.0	-1.4	20.0
bis (2-chloroisopropyl) ether	Ave	1.488	1.430	0.0500	9.61	10.0	-3.9	20.0
3 & 4 Methylphenol	Ave	1.661	1.666	0.0500	10.0	10.0	0.3	20.0
N-Nitrosodi-n-propylamine	Ave	0.9063	0.9032	0.0500	9.97	10.0	-0.3	20.0
Acetophenone	Ave	1.890	1.877	0.0500	9.93	10.0	-0.7	20.0
Hexachloroethane	Ave	0.5638	0.5588	0.0500	9.91	10.0	-0.9	20.0
Nitrobenzene	Ave	0.3745	0.3795	0.0500	10.1	10.0	1.3	20.0
Isophorone	Ave	0.6139	0.6269	0.0500	10.2	10.0	2.1	20.0
2-Nitrophenol	Lin1		0.2072	0.0500	9.30	10.0	-7.0	20.0
2,4-Dimethylphenol	Ave	0.4321	0.4320	0.0500	10.0	10.0	-0.0	20.0
Benzoic acid	Qua		0.2187	0.0500	21.0	20.0	5.1	20.0
Bis(2-chloroethoxy)methane	Ave	0.4244	0.4227	0.0500	9.96	10.0	-0.4	20.0
2,4-Dichlorophenol	Ave	0.3391	0.3482	0.0500	10.3	10.0	2.7	20.0
1,2,4-Trichlorobenzene	Ave	0.3152	0.3062	0.0500	9.71	10.0	-2.9	20.0
Naphthalene	Ave	0.9792	0.9515	0.0500	9.72	10.0	-2.8	20.0
4-Chloroaniline	Ave	0.4550	0.4635	0.0500	10.2	10.0	1.9	20.0
Hexachlorobutadiene	Ave	0.1671	0.1705	0.0500	10.2	10.0	2.1	20.0
Caprolactam	Ave	0.0845	0.0981	0.0500	11.6	10.0	16.1	20.0
4-Chloro-3-methylphenol	Ave	0.3594	0.3788	0.0500	10.5	10.0	5.4	20.0
2-Methylnaphthalene	Ave	0.6149	0.6026	0.0500	9.80	10.0	-2.0	20.0
Hexachlorocyclopentadiene	Lin1		0.2892	0.0500	9.73	10.0	-2.7	20.0
2,4,6-Trichlorophenol	Ave	0.4017	0.4150	0.0500	10.3	10.0	3.3	20.0
2,4,5-Trichlorophenol	Ave	0.4437	0.4460	0.0500	10.1	10.0	0.5	20.0
1,1'-Biphenyl	Ave	1.266	1.188	0.0500	9.38	10.0	-6.2	20.0
2-Chloronaphthalene	Ave	1.099	1.054	0.0500	9.59	10.0	-4.1	20.0
2-Nitroaniline	Lin1		0.3309	0.0500	9.12	10.0	-8.8	20.0
Dimethyl phthalate	Ave	1.120	1.090	0.0500	9.74	10.0	-2.6	20.0
2,6-Dinitrotoluene	Lin1		0.2421	0.0500	9.09	10.0	-9.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79745/2 Calibration Date: 03/28/2013 11:18

Instrument ID: A4HP7 Calib Start Date: 03/26/2013 09:55

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 03/26/2013 13:05

Lab File ID: 30328002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acenaphthylene	Ave	1.552	1.565	0.0500	10.1	10.0	0.8	20.0
3-Nitroaniline	Lin1		0.3212	0.0500	9.38	10.0	-6.2	20.0
Acenaphthene	Ave	0.9747	0.9328	0.0500	9.57	10.0	-4.3	20.0
2,4-Dinitrophenol	Lin1		0.1480	0.0500	20.0	20.0	-0.0	20.0
4-Nitrophenol	Lin1		0.2223	0.0500	9.48	10.0	-5.2	20.0
2,4-Dinitrotoluene	Lin1		0.3332	0.0500	9.15	10.0	-8.5	20.0
Dibenzofuran	Ave	1.481	1.392	0.0500	9.40	10.0	-6.0	20.0
Diethyl phthalate	Ave	1.070	1.028	0.0500	9.61	10.0	-3.9	20.0
4-Chlorophenyl phenyl ether	Ave	0.5777	0.5520	0.0500	9.55	10.0	-4.5	20.0
4-Nitroaniline	Lin1		0.3267	0.0500	9.76	10.0	-2.4	20.0
Fluorene	Ave	1.184	1.147	0.0500	9.69	10.0	-3.1	20.0
4,6-Dinitro-2-methylphenol	Lin		0.1497	0.0500	10.1	10.0	0.5	20.0
N-Nitrosodiphenylamine	Ave	0.5865	0.5949	0.0500	10.1	10.0	1.4	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	0.7912	0.7954	0.0500	10.1	10.0	0.5	20.0
4-Bromophenyl phenyl ether	Ave	0.2070	0.2038	0.0500	9.84	10.0	-1.6	20.0
Hexachlorobenzene	Ave	0.2151	0.2064	0.0500	9.60	10.0	-4.0	20.0
Atrazine	Ave	0.1287	0.1385	0.0500	10.8	10.0	7.6	20.0
Pentachlorophenol	Lin1		0.1594	0.0500	18.8	20.0	-5.9	20.0
Phenanthrene	Ave	1.070	1.028	0.0500	9.61	10.0	-3.9	20.0
Anthracene	Ave	1.004	1.046	0.0500	10.4	10.0	4.2	20.0
Carbazole	Ave	1.001	1.005	0.0500	10.0	10.0	0.4	20.0
Di-n-butyl phthalate	Ave	1.146	1.119	0.0500	9.76	10.0	-2.4	20.0
Fluoranthene	Ave	1.131	1.152	0.0500	10.2	10.0	1.9	20.0
Benzidine	Lin1		0.5656	0.0500	10.2	10.0	2.1	20.0
Pyrene	Ave	1.070	1.067	0.0500	9.97	10.0	-0.3	20.0
Butyl benzyl phthalate	Lin1		0.4196	0.0500	9.46	10.0	-5.4	20.0
3,3'-Dichlorobenzidine	Lin1		0.4239	0.0500	9.60	10.0	-4.0	20.0
Bis(2-ethylhexyl) phthalate	Lin1		0.6081	0.0500	9.63	10.0	-3.7	20.0
Benzo[a]anthracene	Ave	0.9641	0.9746	0.0500	10.1	10.0	1.1	20.0
Chrysene	Ave	0.9059	0.8748	0.0500	9.66	10.0	-3.4	20.0
Di-n-octyl phthalate	Qua		1.156	0.0500	10.4	10.0	3.6	20.0
Benzo[b]fluoranthene	Ave	1.126	1.177	0.0500	10.5	10.0	4.6	20.0
Benzo[k]fluoranthene	Ave	1.199	1.215	0.0500	10.1	10.0	1.3	20.0
Benzo[a]pyrene	Lin1		1.123	0.0500	9.34	10.0	-6.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.137	1.205	0.0500	10.6	10.0	6.0	20.0
Dibenz(a,h)anthracene	Ave	0.9357	0.9870	0.0500	10.5	10.0	5.5	20.0
Benzo[g,h,i]perylene	Ave	0.9766	1.009	0.0500	10.3	10.0	3.3	20.0
2-Fluorophenol (Surr)	Ave	1.588	1.582	0.0500	9.97	10.0	-0.3	20.0
Phenol-d5 (Surr)	Ave	2.101	2.096	0.0500	9.98	10.0	-0.2	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3566	0.3668	0.0500	10.3	10.0	2.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79745/2 Calibration Date: 03/28/2013 11:18

Instrument ID: A4HP7 Calib Start Date: 03/26/2013 09:55

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 03/26/2013 13:05

Lab File ID: 30328002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Fluorobiphenyl (Surr)	Ave	1.250	1.187	0.0500	9.50	10.0	-5.0	20.0
2,4,6-Tribromophenol (Surr)	Lin1		0.1897	0.0500	9.29	10.0	-7.1	20.0
Terphenyl-d14 (Surr)	Ave	0.6653	0.6442	0.0500	9.68	10.0	-3.2	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP7\20130328-18338.b\30328002.D
Lims ID: ccv tcl
Client ID:
Inject. Date: 28-Mar-2013 11:18:30
Dil. Factor: 1.0000
Sample Type: CCVIS
Sample ID: 240-0018338-002
Misc. Info.: CCV TCL
Operator: 001710
Instrument ID: A4HP7
Injection Vol: 1.0 ul
ALS Bottle#: 2
Lims Batch ID: 79745
Lims Sample ID: 2
Sublist: chrom-8270_hp7*sub15
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP7\20130328-18338.b\8270_hp7.m
Last Update: 29-Mar-2013 09:58:57
Calib Date: 26-Mar-2013 17:03:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326020.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: 5% phenyl
Column Dia: 0.18 mm
Process Host: XAWRK008

First Level Reviewer: gruberj
Date: 28-Mar-2013 12:28:36

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.886	5.886	0.0	98	223513	4.00	
* 2 Naphthalene-d8	136	7.010	7.010	0.0	100	871511	4.00	
* 3 Acenaphthene-d10	164	8.512	8.512	0.0	91	525671	4.00	
* 4 Phenanthrene-d10	188	9.775	9.775	0.0	96	817951	4.00	
* 5 Chrysene-d12	240	12.326	12.326	0.0	92	933395	4.00	
* 6 Perylene-d12	264	14.401	14.401	0.0	96	761709	4.00	
$ 7 2-Fluorophenol	112	4.613	4.613	0.0	92	884230	9.97	
$ 8 Phenol-d5	99	5.523	5.523	0.0	94	1171096	9.98	
$ 9 Nitrobenzene-d5	82	6.378	6.378	0.0	87	799069	10.3	
$ 10 2-Fluorobiphenyl (Surr)	172	7.924	7.924	0.0	99	1560547	9.50	
$ 11 2,4,6-Tribromophenol	330	9.176	9.176	0.0	91	249340	9.29	
$ 12 Terphenyl-d14	244	11.133	11.133	0.0	99	1503293	9.68	
24 1,4-Dioxane	88	2.324	2.324	0.0	91	361621	9.63	M
25 N-Nitrosodimethylamine	74	2.784	2.784	0.0	94	466113	10.0	
26 Pyridine	79	2.838	2.838	0.0	96	897704	10.2	
27 Ethyl methacrylate	69	3.538	3.538	0.0	88	578894	9.93	
28 3-Chloropropionitrile	54	3.934	3.934	0.0	86	411227	9.91	
32 Malononitrile	66	4.292	4.292	0.0	95	825562	10.4	
40 Benzaldehyde	77	5.485	5.485	0.0	93	584472	9.81	
41 Phenol	94	5.539	5.539	0.0	97	1226225	9.90	
43 Aniline	93	5.581	5.581	0.0	98	1389261	9.88	
44 Bis(2-chloroethyl)ether	93	5.640	5.640	0.0	98	781921	9.86	
46 2-Chlorophenol	128	5.688	5.688	0.0	96	946308	9.85	
47 1,3-Dichlorobenzene	146	5.838	5.838	0.0	96	811016	9.71	
48 1,4-Dichlorobenzene	146	5.902	5.902	0.0	92	1022149	9.86	
49 Benzyl alcohol	108	5.999	5.999	0.0	90	619907	10.3	
50 1,2-Dichlorobenzene	146	6.041	6.041	0.0	94	769865	9.67	
51 2-Methylphenol	108	6.090	6.090	0.0	95	874812	9.86	
52 2,2'-oxybis[1-chloropropane]	45	6.122	6.122	0.0	91	799333	9.61	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
191 3 & 4 Methylphenol	108	6.218	6.218	0.0	96	931009	10.0	
56 N-Nitrosodi-n-propylamine	70	6.234	6.234	0.0	86	504703	9.97	
57 Acetophenone	105	6.239	6.239	0.0	94	1048965	9.93	
60 Hexachloroethane	117	6.346	6.346	0.0	92	312267	9.91	
61 Nitrobenzene	77	6.394	6.394	0.0	83	826727	10.1	
63 Isophorone	82	6.598	6.598	0.0	99	1365867	10.2	
65 2-Nitrophenol	139	6.673	6.673	0.0	96	451480	9.30	
66 1,3,5-Trichlorobenzene	180	6.683	6.683	0.0	94	678211	10.0	
64 2,4-Dimethylphenol	107	6.689	6.689	0.0	91	941291	10.0	
69 Benzoic acid	122	6.753	6.753	0.0	83	952882	21.0	
68 Bis(2-chloroethoxy)methane	93	6.780	6.780	0.0	94	920945	9.96	
71 2,4-Dichlorophenol	162	6.876	6.876	0.0	94	758700	10.3	
72 1,2,4-Trichlorobenzene	180	6.956	6.956	0.0	93	667034	9.71	
73 Naphthalene	128	7.031	7.031	0.0	97	2073066	9.72	
74 4-Chloroaniline	127	7.063	7.063	0.0	86	1009810	10.2	
77 Hexachlorobutadiene	225	7.127	7.127	0.0	95	371509	10.2	
78 1,2,3-Trichlorobenzene	180	7.149	7.149	0.0	92	639952	0	
83 Caprolactam	113	7.346	7.346	0.0	83	213748	11.6	
84 4-Chloro-3-methylphenol	107	7.459	7.459	0.0	93	825262	10.5	
85 2-Methylnaphthalene	142	7.619	7.619	0.0	89	1313011	9.80	
86 1-Methylnaphthalene	142	7.705	7.705	0.0	90	1268828	9.72	
87 1,2,3,5-Tetrachlorobenzene	216	7.748	7.748	0.0	96	654939	9.78	
88 Hexachlorocyclopentadiene	237	7.753	7.753	0.0	90	380114	9.73	
90 2,4,6-Trichlorophenol	196	7.849	7.849	0.0	92	545314	10.3	
91 2,4,5-Trichlorophenol	196	7.881	7.881	0.0	94	586166	10.1	
94 2,4-Toluene diamine	121	7.994	7.994	0.0	96	357123	13.5	
96 1,2,3,4 -Tetrachlorobenzene	216	8.004	8.004	0.0	95	622396	0	
95 1,1'-Biphenyl	154	8.015	8.015	0.0	93	1560593	9.38	
98 2-Chloronaphthalene	162	8.036	8.036	0.0	96	1384903	9.59	
100 2-Nitroaniline	65	8.111	8.111	0.0	82	434914	9.12	
103 Dimethyl phthalate	163	8.256	8.256	0.0	99	1432367	9.74	
105 2,6-Dinitrotoluene	165	8.309	8.309	0.0	95	318155	9.09	
106 1,2-Dinitrobenzene	168	8.357	8.357	0.0	86	158843	8.97	
107 Acenaphthylene	152	8.395	8.395	0.0	94	2057284	10.1	
108 3-Nitroaniline	138	8.454	8.454	0.0	94	422054	9.38	
110 Acenaphthene	153	8.539	8.539	0.0	94	1225818	9.57	
109 2,4-Dinitrophenol	184	8.545	8.545	0.0	74	388978	20.0	
111 4-Nitrophenol	109	8.571	8.571	0.0	89	292130	9.48	
112 2,4-Dinitrotoluene	165	8.652	8.652	0.0	89	437867	9.15	
114 Dibenzofuran	168	8.684	8.684	0.0	91	1829860	9.40	
115 2,3,5,6-Tetrachlorophenol	232	8.742	8.742	0.0	93	465047	9.17	
119 Diethyl phthalate	149	8.849	8.849	0.0	98	1351530	9.61	
121 4-Chlorophenyl phenyl ether	204	8.962	8.962	0.0	93	725457	9.55	
123 4-Nitroaniline	138	8.972	8.972	0.0	81	429365	9.76	
124 Fluorene	166	8.978	8.978	0.0	91	1507645	9.69	
126 4,6-Dinitro-2-methylphenol	198	8.999	8.999	0.0	73	306189	10.1	
130 N-Nitrosodiphenylamine	169	9.058	9.058	0.0	0	1216510	10.1	
131 Azobenzene	77	9.095	9.095	0.0	98	1626408	10.1	
129 1,2-Diphenylhydrazine	77	9.095	9.095	0.0	0	1626496	10.1	
137 4-Bromophenyl phenyl ether	248	9.379	9.379	0.0	64	416763	9.84	
139 Hexachlorobenzene	284	9.443	9.443	0.0	91	422126	9.60	
140 Atrazine	200	9.491	9.491	0.0	91	283222	10.8	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
141 Pentachlorophenol	266	9.598	9.598	0.0	87	651928	18.8	
146 Phenanthrene	178	9.796	9.796	0.0	97	2102773	9.61	
147 Anthracene	178	9.839	9.839	0.0	97	2139456	10.4	
149 Carbazole	167	9.962	9.962	0.0	82	2054904	10.0	
151 Di-n-butyl phthalate	149	10.224	10.224	0.0	100	2287656	9.76	
157 Fluoranthene	202	10.807	10.807	0.0	97	2356685	10.2	
158 Benzidine	184	10.903	10.903	0.0	99	1319907	10.2	
160 Pyrene	202	11.016	11.016	0.0	97	2490209	9.97	
166 Butyl benzyl phthalate	149	11.615	11.615	0.0	96	979136	9.46	
170 3,3'-Dimethoxybenzidine	244	12.224	12.224	0.0	87	584469	9.98	
172 4,4'-Methylene bis(2-chloroanili	231	12.262	12.262	0.0	72	458265	9.66	
173 3,3'-Dichlorobenzidine	252	12.262	12.262	0.0	66	989133	9.60	
171 Bis(2-ethylhexyl) phthalate	149	12.294	12.294	0.0	95	1418869	9.63	
175 Benzo[a]anthracene	228	12.315	12.315	0.0	98	2274191	10.1	
176 Chrysene	228	12.364	12.364	0.0	95	2041431	9.66	
178 Di-n-octyl phthalate	149	13.203	13.203	0.0	99	2200434	10.4	
180 Benzo[b]fluoranthene	252	13.818	13.818	0.0	94	2242188	10.5	
181 Benzo[k]fluoranthene	252	13.861	13.861	0.0	95	2314385	10.1	
182 Benzo[a]pyrene	252	14.316	14.316	0.0	75	2139210	9.34	
186 Indeno[1,2,3-cd]pyrene	276	16.054	16.054	0.0	98	2294825	10.6	
187 Dibenz(a,h)anthracene	278	16.086	16.086	0.0	73	1879426	10.5	
188 Benzo[g,h,i]perylene	276	16.503	16.503	0.0	92	1920468	10.3	
S 189 Methyl Phenols,Total	100				0		9.86	

QC Flag Legend

Review Flags
M - Manually Integrated

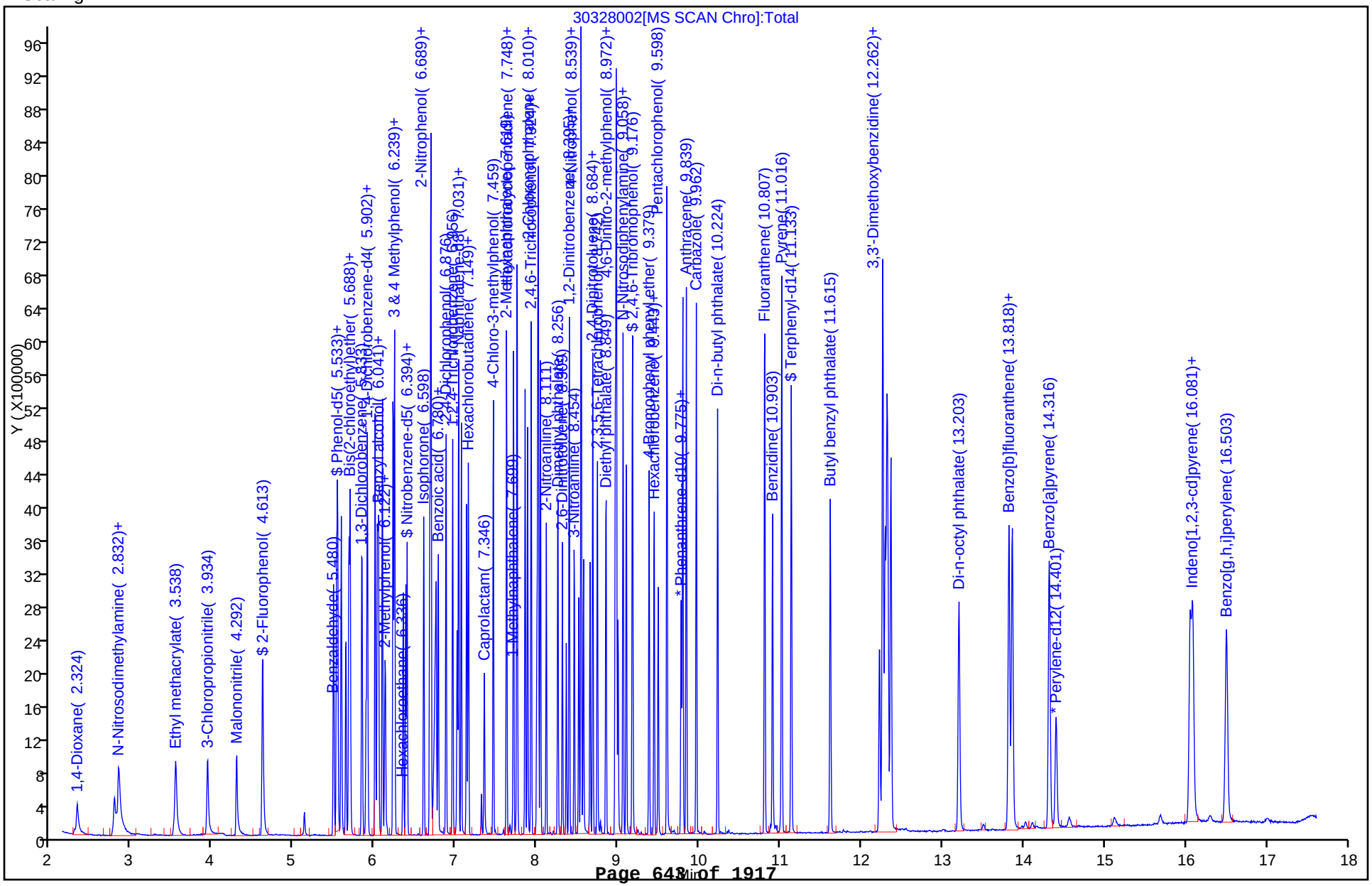
Report Date: 29-Mar-2013 09:58:58 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP7\20130328-18338.b\30328002.D

Injection Date:	28-Mar-2013 11:18:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79745	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

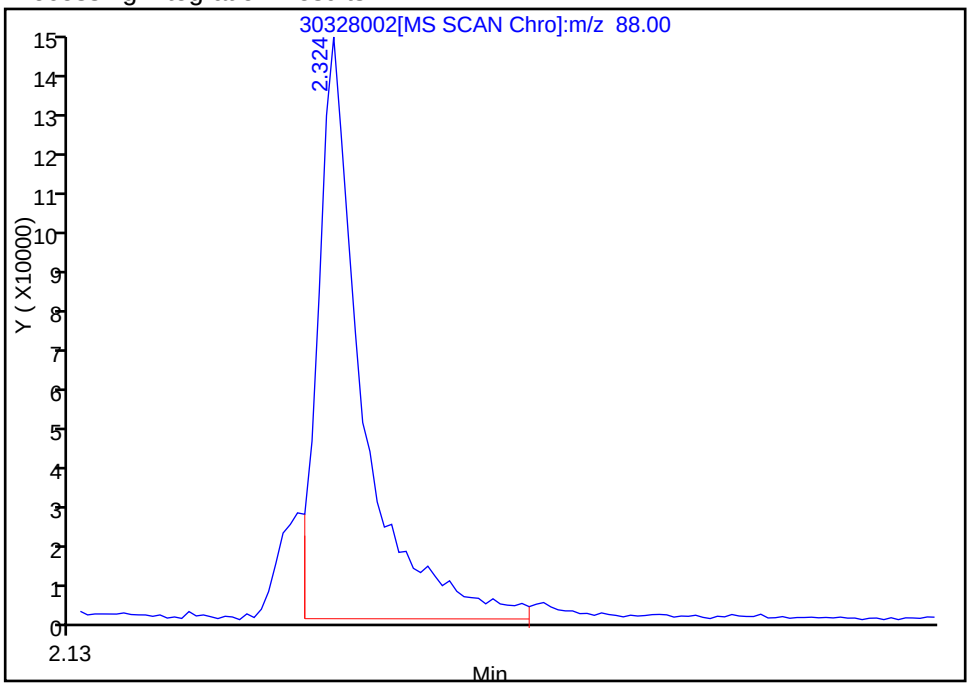
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP7\20130328-18338.b\30328002.D		
Injection Date:	28-Mar-2013 11:18:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79745	Lims Sample ID:	2
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

24 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 2.32

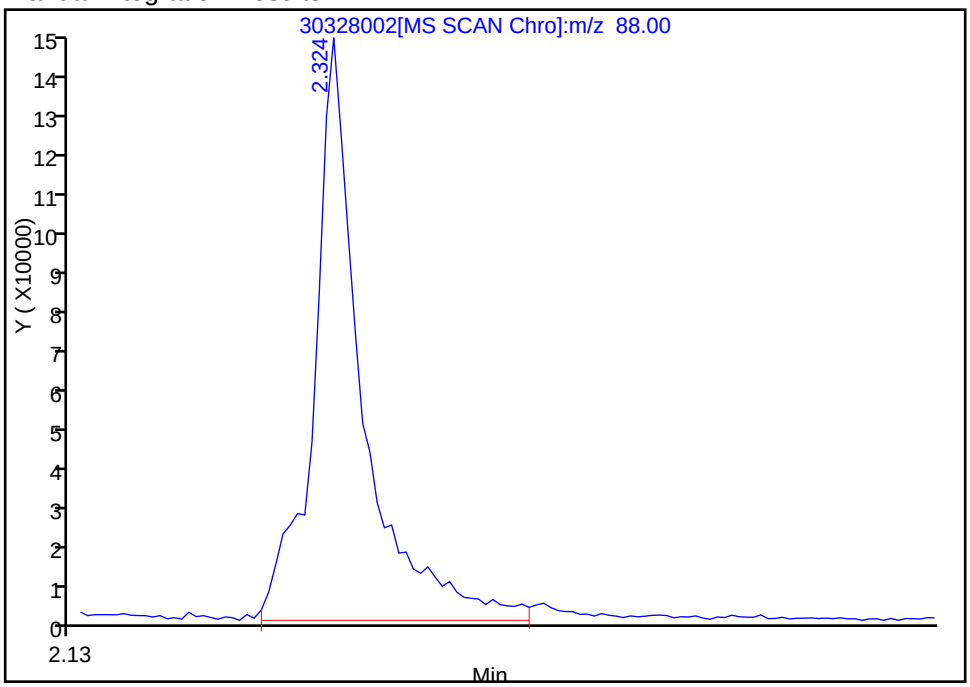
Processing Integration Results

RT: 2.32
Response: 328963
Amount: 8.759945



Manual Integration Results

RT: 2.32
Response: 361621
Amount: 9.629594



Reviewer: gruberj, 28-Mar-2013 12:28:36
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326001.D		
Lims ID:	dftpp	Client ID:	
Inject. Date:	26-Mar-2013 09:31:30	Dil. Factor:	1.0000
Sample Type:	DFTPP		
Sample ID:	240-0018258-001		
Misc. Info.:	DFTPP		
Operator:	001710	Instrument ID:	A4HP7
Injection Vol:	1.0 ul	ALS Bottle#:	1
Lims Batch ID:	79445	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\8270_hp7.m		
Last Update:	27-Mar-2013 08:37:36	Calib Date:	26-Mar-2013 17:03:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326020.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK014		

First Level Reviewer: gruberj Date: 26-Mar-2013 09:49:17

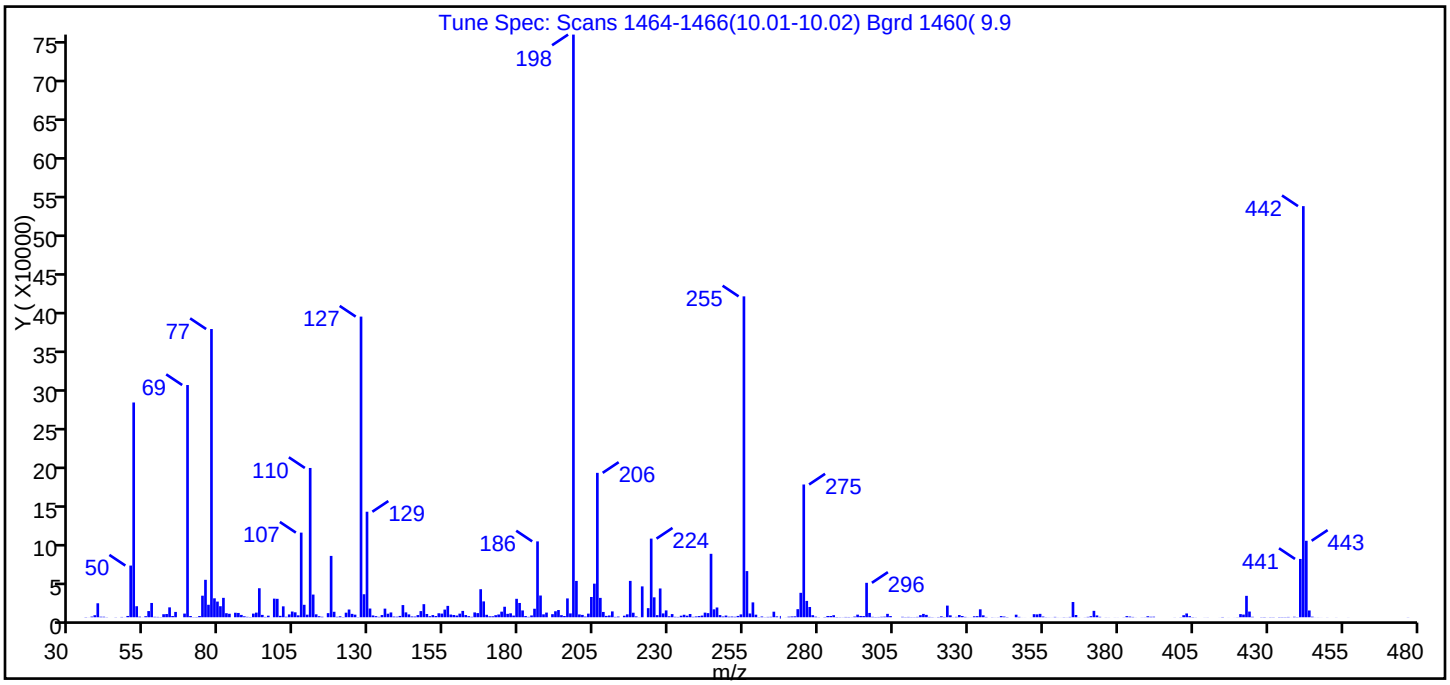
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
141 Pentachlorophenol	266	9.648	9.648	0.0	87	896633	0	
148 DFTPP								
158 Benzidine	184	10.964	10.964	0.0	99	4804982	0	
164 4,4'-DDE	246	11.135	11.135	0.0	46	3595	0	
163 4,4'-DDD	235	11.477	11.477	0.0	95	80813	0	
168 4,4'-DDT	235	11.809	11.809	0.0	98	1943916	0	

MS Tune Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326001.D		
Injection Date:	26-Mar-2013 09:31:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	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		

148 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	36.86
68	Less than 2.00% of mass 69	0.63 (1.57)
69	Present	39.86
70	Less than 2.00% of mass 69	0.21 (0.53)
127	25.00 - 75.00% of mass 198	51.60
197	Less than 1.00% of mass 198	0.66
199	5.00 - 9.00% of mass 198	6.24
275	10.00 - 30.00% of mass 198	22.79
365	Greater than 0.75% of mass 198	2.62
441	Present, but less than mass 443%	10.01 (76.23)
442	40.00 - 110.00% of mass 198	70.56
443	15.00 - 24.00% of mass 442	13.13 (18.61)

Data File: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326001.D\8270_hp7.rslt\spectra.d
Injection Date: 26-Mar-2013 09:31:30
Spectrum: Tune Spec: Scans 1464-1466(10.01-10.02) Bgrd 1460(9.9
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 379

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	287	137.00	6242	234.00	2006	333.00	1419
36.00	67	138.00	889	235.00	3236	334.00	10308
37.00	887	139.00	712	236.00	2030	335.00	2489
38.00	2634	140.00	1727	237.00	4201	336.00	420
39.00	18152	141.00	15798	238.00	540	338.00	192
40.00	695	142.00	6331	239.00	1052	339.00	93
41.00	672	143.00	3697	240.00	1564	340.00	149
42.00	204	144.00	1030	241.00	2181	341.00	1537
45.00	193	145.00	892	242.00	5975	342.00	922
47.00	403	146.00	2806	243.00	5353	343.00	309
48.00	82	147.00	7987	244.00	82296	346.00	3325
49.00	1688	148.00	16976	245.00	10288	347.00	507
50.00	67048	149.00	4258	246.00	12653	348.00	53
51.00	278592	150.00	1356	247.00	2845	349.00	52
52.00	14302	151.00	2806	248.00	976	351.00	74
53.00	792	152.00	1556	249.00	2232	352.00	3974
54.00	96	153.00	5183	250.00	736	353.00	3745
55.00	1348	154.00	4755	251.00	930	354.00	4399
56.00	8041	155.00	9943	252.00	641	355.00	927
57.00	18544	156.00	14753	253.00	1740	356.00	200
58.00	566	157.00	3503	254.00	3703	357.00	121
59.00	461	158.00	2936	255.00	416256	358.00	62
60.00	271	159.00	2235	256.00	59880	359.00	475
61.00	3922	160.00	4683	257.00	4896	360.00	81
62.00	4178	161.00	8248	258.00	19296	361.00	53
63.00	12841	162.00	2854	259.00	3344	362.00	229
64.00	1611	163.00	1421	260.00	262	363.00	117
65.00	6924	164.00	555	261.00	979	364.00	453
68.00	4736	165.00	6253	262.00	188	365.00	19768
69.00	301248	166.00	5397	263.00	489	366.00	2920
70.00	1597	167.00	36368	264.00	588	367.00	120
71.00	257	168.00	20584	265.00	7224	369.00	131
72.00	355	169.00	3201	266.00	1094	370.00	504

Report Date: 27-Mar-2013 08:37:36 Chrom Revision: 2.0 01-Feb-2013 10:03:10
Data File: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326001.D\8270_hp7.rslt\spectra.d
Injection Date: 26-Mar-2013 09:31:30
Spectrum: Tune Spec: Scans 1464-1466(10.01-10.02) Bgrd 1460(9.9
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 379

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	1620	170.00	1225	267.00	2	371.00	1360
74.00	27960	171.00	1279	268.00	17	372.00	8334
75.00	48576	172.00	2663	269.00	90	373.00	2365
76.00	16196	173.00	3592	270.00	739	374.00	538
77.00	373888	174.00	7284	271.00	1030	376.00	132
78.00	24576	175.00	13633	272.00	1185	377.00	92
79.00	20336	176.00	4443	273.00	10488	379.00	83
80.00	14317	177.00	5129	274.00	31696	380.00	66
81.00	25184	178.00	2176	275.00	172224	382.00	152
82.00	5248	179.00	23936	276.00	21200	383.00	1512
83.00	4511	180.00	18528	277.00	13322	384.00	880
85.00	5848	181.00	8831	278.00	2653	385.00	437
86.00	5592	182.00	1547	279.00	772	386.00	76
87.00	3031	183.00	542	280.00	205	388.00	117
88.00	1240	184.00	2345	282.00	348	389.00	151
89.00	549	185.00	11041	283.00	1654	390.00	1325
90.00	349	186.00	98424	284.00	1640	391.00	639
91.00	4750	187.00	28192	285.00	2656	392.00	736
92.00	6009	188.00	3809	286.00	337	399.00	109
93.00	37640	189.00	6044	287.00	227	401.00	197
94.00	3064	190.00	3	288.00	143	402.00	2647
95.00	455	191.00	3989	289.00	398	403.00	4936
96.00	2060	192.00	7776	290.00	361	404.00	1403
97.00	27	193.00	9364	291.00	176	405.00	309
98.00	24152	194.00	2706	292.00	894	406.00	130
99.00	23912	195.00	1628	293.00	3377	409.00	79
100.00	1838	196.00	24448	294.00	1702	410.00	119
101.00	14166	197.00	4999	295.00	1555	414.00	50
102.00	666	198.00	755840	296.00	44680	415.00	344
103.00	3675	199.00	47136	297.00	5606	417.00	55
104.00	7434	200.00	3663	298.00	557	419.00	54
105.00	6408	201.00	3035	299.00	330	420.00	169
106.00	2487	202.00	882	300.00	384	421.00	4072
107.00	109800	203.00	4686	301.00	613	422.00	3494

Report Date: 27-Mar-2013 08:37:36 Chrom Revision: 2.0 01-Feb-2013 10:03:10
Data File: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326001.D\8270_hp7.rslt\spectra.d
Injection Date: 26-Mar-2013 09:31:30
Spectrum: Tune Spec: Scans 1464-1466(10.01-10.02) Bgrd 1460(9.9
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 379

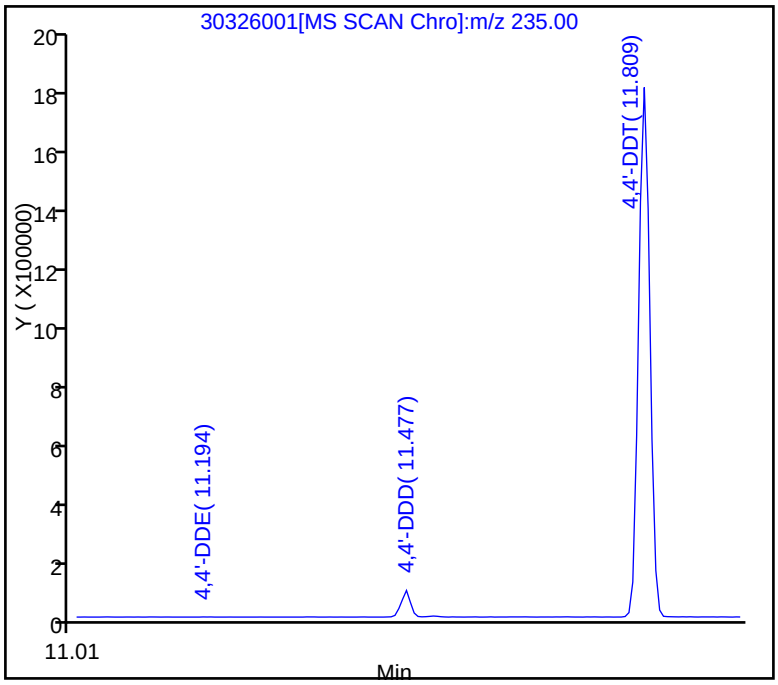
m/z	Y	m/z	Y	m/z	Y	m/z	Y
108.00	16162	204.00	26288	302.00	779	423.00	27776
109.00	3353	205.00	43584	303.00	4425	424.00	7404
110.00	193664	206.00	187328	304.00	1521	425.00	592
111.00	29424	207.00	25136	308.00	567	428.00	239
112.00	3805	208.00	6885	309.00	285	429.00	317
113.00	1350	209.00	1771	310.00	451	430.00	50
114.00	673	210.00	2295	311.00	264	431.00	251
116.00	5330	211.00	7594	312.00	252	432.00	236
117.00	79584	212.00	478	313.00	489	434.00	310
118.00	7113	213.00	883	314.00	2725	435.00	300
119.00	610	215.00	1967	315.00	4357	436.00	283
120.00	1271	216.00	3757	316.00	3102	437.00	416
121.00	295	217.00	47168	317.00	458	438.00	53
122.00	5922	218.00	5872	318.00	251	439.00	641
123.00	10029	219.00	1097	319.00	69	440.00	249
124.00	4389	220.00	157	320.00	356	441.00	75640
125.00	3377	221.00	40040	321.00	1170	442.00	533312
126.00	269	223.00	11809	322.00	382	443.00	99224
127.00	390016	224.00	102024	323.00	15128	444.00	8806
128.00	29848	225.00	25856	324.00	2489	445.00	759
129.00	136896	226.00	2743	325.00	171	446.00	66
130.00	11313	227.00	37344	326.00	501	447.00	98
131.00	2321	228.00	4994	327.00	2928	448.00	52
132.00	1430	229.00	8888	328.00	1574	450.00	102
133.00	553	230.00	1249	329.00	481	453.00	89
134.00	2838	231.00	4118	330.00	109	457.00	63
135.00	11192	232.00	571	331.00	100	477.00	142
136.00	4574	233.00	425	332.00	1247		

Breakdown Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326001.D		
Injection Date:	26-Mar-2013 09:31:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	Lims Sample ID:	1
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

168 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

168 4,4'-DDT, Area = 1943916
163 4,4'-DDD, Area = 80813
164 4,4'-DDE, Area = 3595

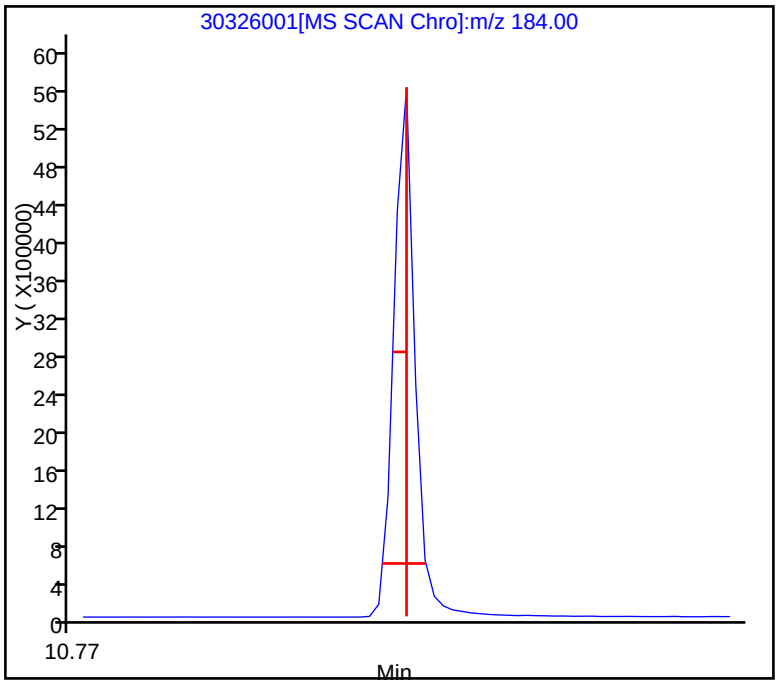
%Breakdown: 4.16%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326001.D		
Injection Date:	26-Mar-2013 09:31:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	Lims Sample ID:	1
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

158 Benzidine, Detector: MS SCAN



Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.8, Max. Tailing < 3.00
Passed

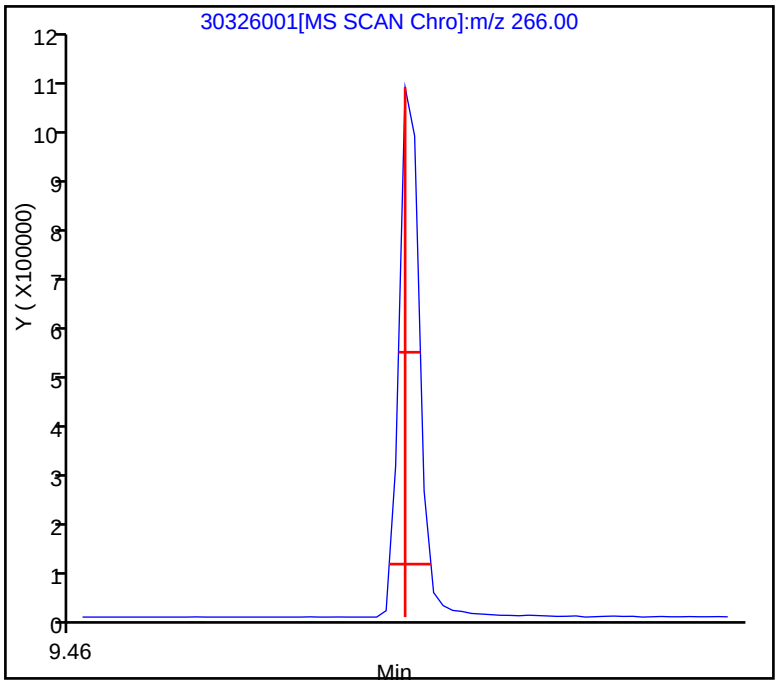
Report Date: 27-Mar-2013 08:37:36 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Peak Tailing Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326001.D		
Injection Date:	26-Mar-2013 09:31:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79445	Lims Sample ID:	1
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

141 Pentachlorophenol, Detector: MS SCAN



Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)
Front Width = 0.009 (min.)

Tailing Factor = 1.6, Max. Tailing < 5.00
Passed

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A4HP7\20130328-18338.b\30328001.D		
Lims ID:	dftpp	Client ID:	
Inject. Date:	28-Mar-2013 10:54:30	Dil. Factor:	1.0000
Sample Type:	DFTPP		
Sample ID:	240-0018338-001		
Misc. Info.:	DFTPP		
Operator:	001710	Instrument ID:	A4HP7
Injection Vol:	1.0 ul	ALS Bottle#:	1
Lims Batch ID:	79745	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A4HP7\20130328-18338.b\8270_hp7.m		
Last Update:	29-Mar-2013 09:58:56	Calib Date:	26-Mar-2013 17:03:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326020.D		
Limit Group:	MSS 8270 DOD ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	5% phenyl	Column Dia:	0.18 mm
Process Host:	XAWRK008		

First Level Reviewer: gruberj Date: 28-Mar-2013 11:18:39

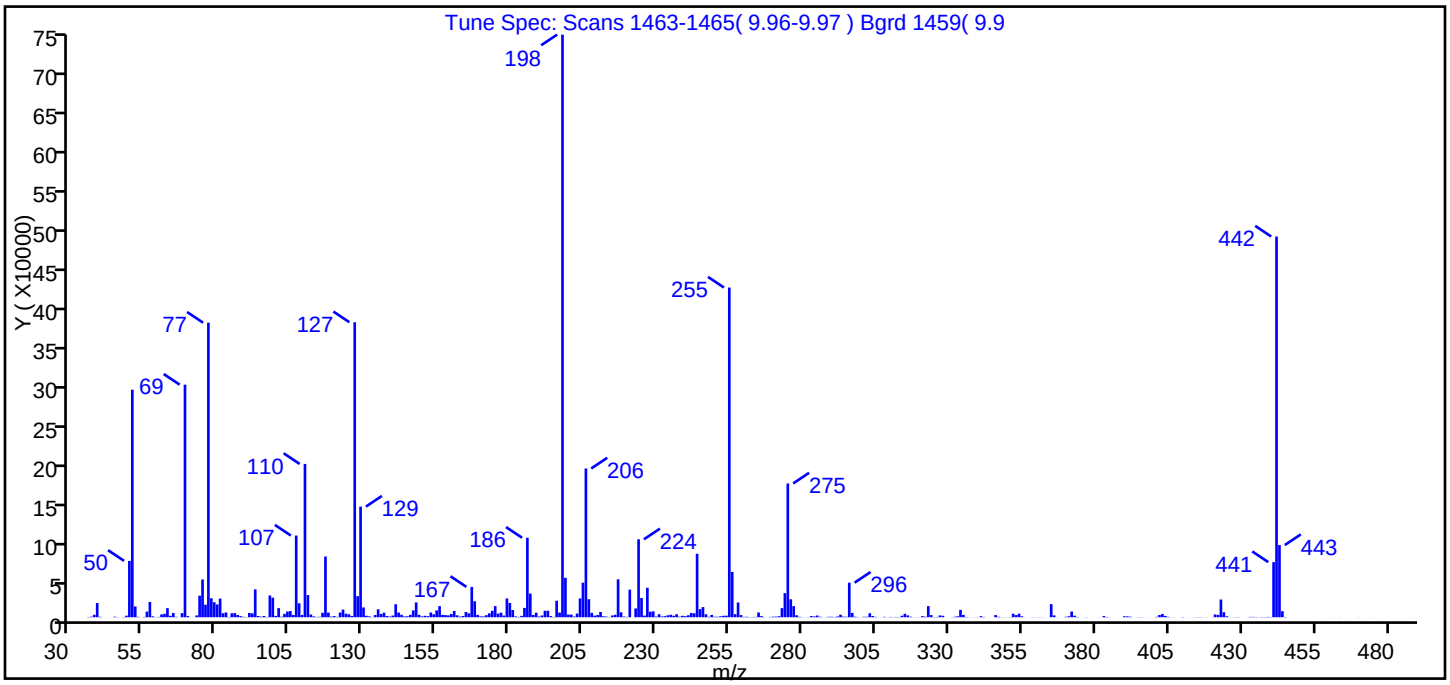
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
141 Pentachlorophenol	266	9.598	9.598	0.0	87	841061	0	
148 DFTPP								
158 Benzidine	184	10.903	10.903	0.0	99	5008729	0	
164 4,4'-DDE	246	11.069	11.069	0.0	1	1085	0	
163 4,4'-DDD	235	11.449	11.449	0.0	3	3497	0	
168 4,4'-DDT	235	11.738	11.738	0.0	98	2120834	0	

MS Tune Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP7\20130328-18338.b\30328001.D		
Injection Date:	28-Mar-2013 10:54:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79745	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		

148 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	39.05
68	Less than 2.00% of mass 69	0.70 (1.77)
69	Present	39.92
70	Less than 2.00% of mass 69	0.21 (0.52)
127	25.00 - 75.00% of mass 198	50.63
197	Less than 1.00% of mass 198	0.81
199	5.00 - 9.00% of mass 198	6.77
275	10.00 - 30.00% of mass 198	22.97
365	Greater than 0.75% of mass 198	2.25
441	Present, but less than mass 443%	9.46 (76.39)
442	40.00 - 110.00% of mass 198	65.34
443	15.00 - 24.00% of mass 442	12.39 (18.96)

Data File: \\Ncchrom\ChromData\A4HP7\20130328-18338.b\30328001.D\8270_hp7.rslt\spectra.d
Injection Date: 28-Mar-2013 10:54:30
Spectrum: Tune Spec: Scans 1463-1465(9.96-9.97) Bgrd 1459(9.9
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 381

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	353	136.00	4215	233.00	1393	333.00	1202
37.00	734	137.00	5807	234.00	2543	334.00	9469
38.00	3140	138.00	1624	235.00	3158	335.00	2964
39.00	18176	139.00	886	236.00	1926	336.00	388
40.00	575	140.00	2144	237.00	3840	337.00	91
41.00	15	141.00	16704	238.00	766	338.00	72
43.00	95	142.00	5942	239.00	1873	339.00	178
45.00	685	143.00	3172	240.00	1395	340.00	122
46.00	220	144.00	1060	241.00	2527	341.00	1385
48.00	307	145.00	1264	242.00	5465	342.00	433
49.00	2054	146.00	3096	243.00	5089	346.00	2832
50.00	72304	147.00	8757	244.00	81448	347.00	661
51.00	291776	148.00	19040	245.00	10396	348.00	186
52.00	13809	149.00	3097	246.00	13034	349.00	81
53.00	514	150.00	1105	247.00	3849	350.00	102
55.00	477	151.00	1836	248.00	628	351.00	282
56.00	7191	152.00	1399	249.00	2976	352.00	4561
57.00	19536	153.00	6090	250.00	687	353.00	2855
58.00	1203	154.00	3810	251.00	628	354.00	4568
59.00	134	155.00	8771	252.00	1233	355.00	1252
60.00	459	156.00	14263	253.00	1893	356.00	83
61.00	3613	157.00	3049	254.00	2031	358.00	89
62.00	4433	158.00	2778	255.00	422784	359.00	204
63.00	11686	159.00	2421	256.00	58160	360.00	80
64.00	1867	160.00	4285	257.00	3918	361.00	221
65.00	5404	161.00	8059	258.00	18936	362.00	131
66.00	571	162.00	2524	259.00	2852	364.00	52
67.00	28	163.00	891	260.00	477	365.00	16784
68.00	5265	164.00	1611	261.00	627	366.00	2432
69.00	298240	165.00	6741	262.00	313	367.00	126
70.00	1550	166.00	5023	263.00	242	370.00	588
71.00	39	167.00	38904	264.00	455	371.00	1275
72.00	72	168.00	20512	265.00	6032	372.00	7352

Report Date: 29-Mar-2013 09:58:57 Chrom Revision: 2.0 01-Feb-2013 10:03:10
Data File: \\Ncchrom\ChromData\A4HP7\20130328-18338.b\30328001.D\8270_hp7.rslt\spectra.d
Injection Date: 28-Mar-2013 10:54:30
Spectrum: Tune Spec: Scans 1463-1465(9.96-9.97) Bgrd 1459(9.9
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 381

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	2361	169.00	3103	266.00	1478	373.00	2001
74.00	27664	170.00	1120	267.00	257	374.00	432
75.00	48432	171.00	1129	269.00	420	377.00	220
76.00	16077	172.00	2643	270.00	776	379.00	59
77.00	377728	173.00	5009	271.00	846	381.00	90
78.00	24320	174.00	8244	272.00	1351	383.00	1593
79.00	19224	175.00	14299	273.00	11676	384.00	418
80.00	16365	176.00	4714	274.00	30944	385.00	92
81.00	23904	177.00	5921	275.00	171584	390.00	1284
82.00	5107	178.00	2174	276.00	23048	391.00	1165
83.00	6168	179.00	24112	277.00	14278	392.00	741
84.00	357	180.00	18336	278.00	2561	393.00	66
85.00	5107	181.00	9295	279.00	632	395.00	262
86.00	5405	182.00	1081	280.00	168	396.00	187
87.00	2928	183.00	428	281.00	72	398.00	70
88.00	1457	184.00	1812	282.00	190	399.00	76
89.00	613	185.00	11965	283.00	1538	401.00	521
90.00	268	186.00	101960	284.00	1078	402.00	2866
91.00	5495	187.00	30320	285.00	2235	403.00	4188
92.00	5039	188.00	2921	286.00	716	404.00	1705
93.00	35728	189.00	5835	287.00	130	405.00	542
94.00	1661	190.00	955	288.00	170	406.00	103
95.00	804	191.00	2318	289.00	623	407.00	131
96.00	1647	192.00	8303	290.00	641	409.00	63
97.00	339	193.00	8403	291.00	360	410.00	270
98.00	27952	194.00	1503	292.00	1028	413.00	53
99.00	25128	195.00	368	293.00	3283	414.00	113
100.00	1747	196.00	21120	294.00	838	415.00	240
101.00	11686	197.00	6079	295.00	682	416.00	249
102.00	741	198.00	747136	296.00	44344	417.00	82
103.00	4324	199.00	50600	297.00	5585	418.00	101
104.00	7356	200.00	3446	298.00	709	420.00	82
105.00	7958	201.00	3445	299.00	253	421.00	3623
106.00	2972	202.00	904	301.00	620	422.00	3102

Report Date: 29-Mar-2013 09:58:57 Chrom Revision: 2.0 01-Feb-2013 10:03:10
Data File: \\Ncchrom\ChromData\A4HP7\20130328-18338.b\30328001.D\8270_hp7.rslt\spectra.d
Injection Date: 28-Mar-2013 10:54:30
Spectrum: Tune Spec: Scans 1463-1465(9.96-9.97) Bgrd 1459(9.9
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 381

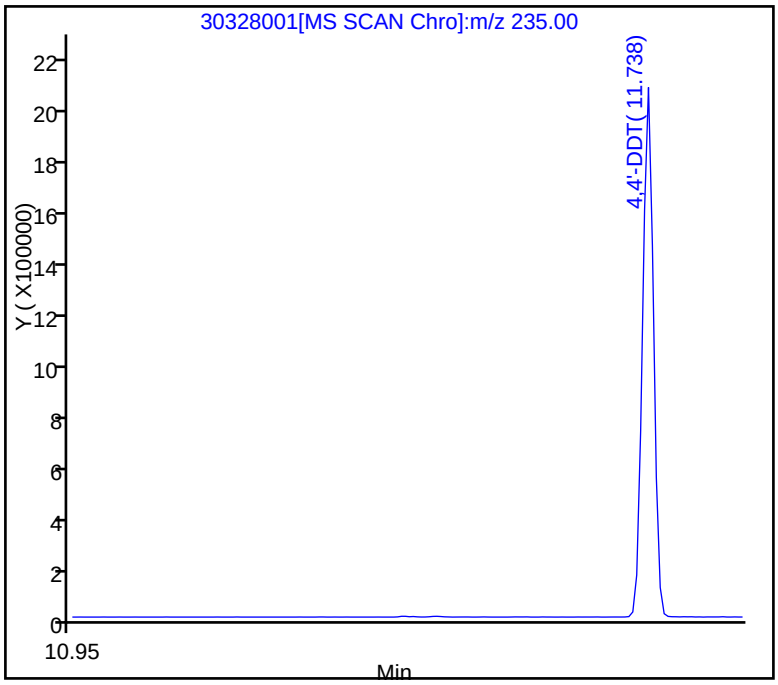
m/z	Y	m/z	Y	m/z	Y	m/z	Y
107.00	104760	203.00	4724	302.00	659	423.00	22728
108.00	17904	204.00	24176	303.00	5159	424.00	6435
109.00	2971	205.00	44352	304.00	1544	425.00	1248
110.00	196608	206.00	190784	305.00	451	426.00	136
111.00	28416	207.00	23104	307.00	91	427.00	57
112.00	3490	208.00	5618	308.00	540	428.00	181
113.00	1168	209.00	2103	309.00	94	429.00	212
114.00	424	210.00	2848	310.00	443	432.00	58
115.00	585	211.00	6806	311.00	258	433.00	486
116.00	5701	212.00	1262	312.00	404	434.00	465
117.00	77880	213.00	855	313.00	247	435.00	335
118.00	5976	214.00	215	314.00	1984	436.00	143
119.00	846	215.00	2261	315.00	4472	437.00	345
120.00	1526	216.00	3177	316.00	2351	438.00	316
121.00	504	217.00	48584	317.00	680	439.00	507
122.00	6036	218.00	6366	318.00	82	440.00	285
123.00	9813	219.00	907	319.00	180	441.00	70696
124.00	4569	220.00	462	320.00	142	442.00	488192
125.00	3840	221.00	35400	321.00	1423	443.00	92552
126.00	1697	223.00	11300	322.00	731	444.00	7788
127.00	378304	224.00	99944	323.00	14254	445.00	337
128.00	27040	225.00	24728	324.00	2767	461.00	72
129.00	141888	226.00	2098	325.00	282	464.00	115
130.00	12562	227.00	37832	326.00	429	470.00	111
131.00	1913	228.00	7122	327.00	2383	475.00	94
132.00	1166	229.00	7596	328.00	1932	488.00	51
133.00	236	230.00	902	330.00	50		
134.00	2869	231.00	3885	331.00	94		
135.00	10220	232.00	1026	332.00	647		

Breakdown Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP7\20130328-18338.b\30328001.D		
Injection Date:	28-Mar-2013 10:54:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79745	Lims Sample ID:	1
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

168 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

168 4,4'-DDT, Area = 2120834
163 4,4'-DDD, Area = 3497
164 4,4'-DDE, Area = 1085

%Breakdown: 0.22%, Max Limit: 20.00%
Passed

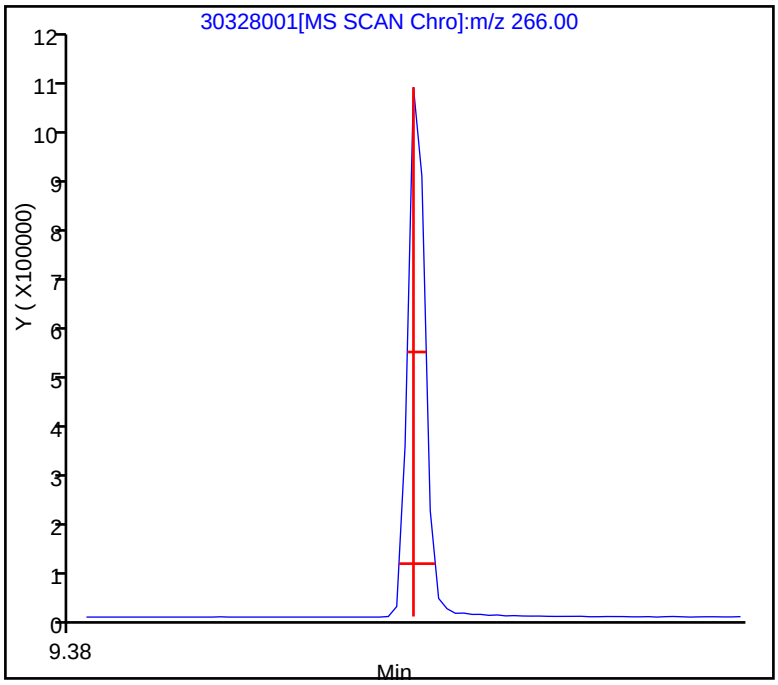
Report Date: 29-Mar-2013 09:58:57 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Peak Tailing Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP7\20130328-18338.b\30328001.D		
Injection Date:	28-Mar-2013 10:54:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79745	Lims Sample ID:	1
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

141 Pentachlorophenol, Detector: MS SCAN



Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.009 (min.)

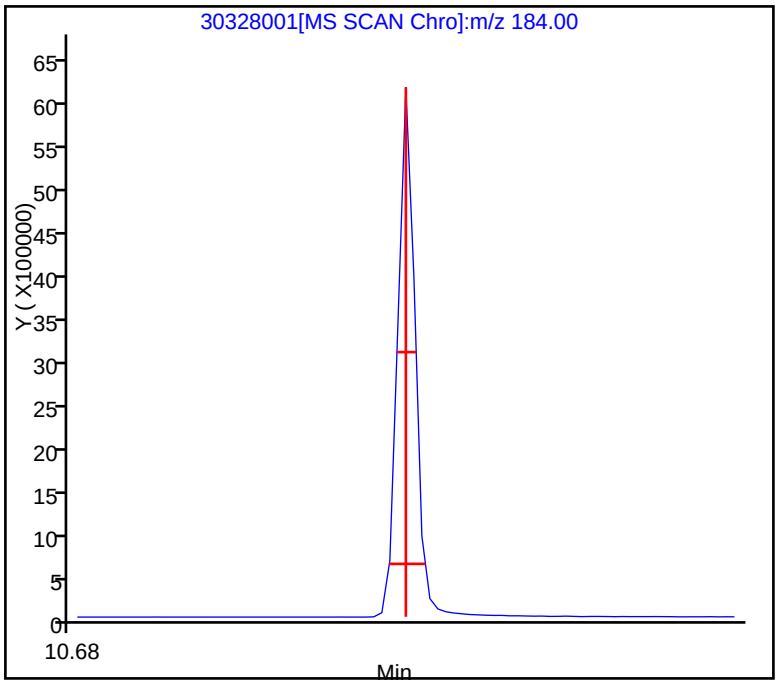
Tailing Factor = 1.5, Max. Tailing < 5.00
Passed

Peak Tailing Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP7\20130328-18338.b\30328001.D		
Injection Date:	28-Mar-2013 10:54:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79745	Lims Sample ID:	1
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

158 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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-78456/17-A

Matrix: Water | Lab File ID: 30328004.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3520C | Date Extracted: 03/15/2013 08:45

Sample wt/vol: 1000(mL) | Date Analyzed: 03/28/2013 12:06

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.: 79745 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	0.10	U	0.20	0.10	0.10
208-96-8	Acenaphthylene	0.10	U	0.20	0.10	0.10
120-12-7	Anthracene	0.10	U	0.20	0.10	0.10
56-55-3	Benzo[a]anthracene	0.10	U	0.20	0.10	0.10
50-32-8	Benzo[a]pyrene	0.10	U	0.20	0.10	0.10
205-99-2	Benzo[b]fluoranthene	0.10	U	0.20	0.10	0.10
191-24-2	Benzo[g,h,i]perylene	0.10	U	0.20	0.10	0.10
65-85-0	Benzoic acid	10	U	25	10	10
207-08-9	Benzo[k]fluoranthene	0.10	U	0.20	0.10	0.10
100-51-6	Benzyl alcohol	0.80	U	5.0	0.80	0.38
111-91-1	Bis(2-chloroethoxy)methane	0.80	U	1.0	0.80	0.32
111-44-4	Bis(2-chloroethyl)ether	0.10	U	1.0	0.10	0.10
108-60-1	bis (2-chloroisopropyl) ether	0.80	U	1.0	0.80	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	0.855	J	2.0	0.80	0.80
101-55-3	4-Bromophenyl phenyl ether	0.80	U	2.0	0.80	0.80
85-68-7	Butyl benzyl phthalate	0.80	U	1.0	0.80	0.80
86-74-8	Carbazole	0.80	U	1.0	0.80	0.28
106-47-8	4-Chloroaniline	0.80	U	2.0	0.80	0.80
59-50-7	4-Chloro-3-methylphenol	0.80	U	2.0	0.80	0.80
91-58-7	2-Chloronaphthalene	0.10	U	1.0	0.10	0.10
95-57-8	2-Chlorophenol	0.80	U	1.0	0.80	0.29
7005-72-3	4-Chlorophenyl phenyl ether	0.80	U	2.0	0.80	0.30
218-01-9	Chrysene	0.10	U	0.20	0.10	0.10
53-70-3	Dibenz(a,h)anthracene	0.10	U	0.20	0.10	0.10
132-64-9	Dibenzofuran	0.10	U	1.0	0.10	0.10
95-50-1	1,2-Dichlorobenzene	0.80	U	1.0	0.80	0.29
541-73-1	1,3-Dichlorobenzene	0.80	U	1.0	0.80	0.80
106-46-7	1,4-Dichlorobenzene	0.80	U	1.0	0.80	0.34
91-94-1	3,3'-Dichlorobenzidine	0.80	U	5.0	0.80	0.37
120-83-2	2,4-Dichlorophenol	0.80	U	2.0	0.80	0.80
84-66-2	Diethyl phthalate	0.80	U	1.0	0.80	0.60
105-67-9	2,4-Dimethylphenol	0.80	U	2.0	0.80	0.80
131-11-3	Dimethyl phthalate	0.80	U	1.0	0.80	0.29
84-74-2	Di-n-butyl phthalate	0.80	U	1.0	0.80	0.67

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-78456/17-A

Matrix: Water | Lab File ID: 30328004.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3520C | Date Extracted: 03/15/2013 08:45

Sample wt/vol: 1000(mL) | Date Analyzed: 03/28/2013 12:06

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.: 79745 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	2.4	U	5.0	2.4	2.4
51-28-5	2,4-Dinitrophenol	2.4	U	5.0	2.4	2.4
121-14-2	2,4-Dinitrotoluene	0.80	U	5.0	0.80	0.27
606-20-2	2,6-Dinitrotoluene	0.80	U	5.0	0.80	0.80
117-84-0	Di-n-octyl phthalate	0.80	U	1.0	0.80	0.80
206-44-0	Fluoranthene	0.10	U	0.20	0.10	0.10
86-73-7	Fluorene	0.10	U	0.20	0.10	0.10
118-74-1	Hexachlorobenzene	0.10	U	0.20	0.10	0.10
87-68-3	Hexachlorobutadiene	0.80	U	1.0	0.80	0.27
77-47-4	Hexachlorocyclopentadiene	0.80	U	10	0.80	0.80
67-72-1	Hexachloroethane	0.80	U	1.0	0.80	0.80
193-39-5	Indeno[1,2,3-cd]pyrene	0.10	U	0.20	0.10	0.10
78-59-1	Isophorone	0.80	U	1.0	0.80	0.27
91-57-6	2-Methylnaphthalene	0.10	U	0.20	0.10	0.10
95-48-7	2-Methylphenol	0.80	U	1.0	0.80	0.80
15831-10-4	3 & 4 Methylphenol	0.80	U	2.0	0.80	0.80
91-20-3	Naphthalene	0.10	U	0.20	0.10	0.10
88-74-4	2-Nitroaniline	0.80	U	2.0	0.80	0.80
99-09-2	3-Nitroaniline	0.80	U	2.0	0.80	0.28
100-01-6	4-Nitroaniline	0.80	U	2.0	0.80	0.80
98-95-3	Nitrobenzene	0.10	U	1.0	0.10	0.040
88-75-5	2-Nitrophenol	0.80	U	2.0	0.80	0.28
100-02-7	4-Nitrophenol	2.4	U	5.0	2.4	2.4
621-64-7	N-Nitrosodi-n-propylamine	0.80	U	1.0	0.80	0.80
86-30-6	N-Nitrosodiphenylamine	0.80	U	1.0	0.80	0.31
87-86-5	Pentachlorophenol	2.4	U	5.0	2.4	2.4
85-01-8	Phenanthrene	0.10	U	0.20	0.10	0.10
108-95-2	Phenol	0.80	U	1.0	0.80	0.60
129-00-0	Pyrene	0.10	U	0.20	0.10	0.10
120-82-1	1,2,4-Trichlorobenzene	0.80	U	1.0	0.80	0.28
95-95-4	2,4,5-Trichlorophenol	0.80	U	5.0	0.80	0.30
88-06-2	2,4,6-Trichlorophenol	0.80	U	5.0	0.80	0.80

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-78456/17-A

Matrix: Water | Lab File ID: 30328004.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3520C | Date Extracted: 03/15/2013 08:45

Sample wt/vol: 1000(mL) | Date Analyzed: 03/28/2013 12:06

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.: 79745 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	63		50-110
367-12-4	2-Fluorophenol (Surr)	57		20-110
4165-60-0	Nitrobenzene-d5 (Surr)	69		40-110
4165-62-2	Phenol-d5 (Surr)	59		10-115
1718-51-0	Terphenyl-d14 (Surr)	93		50-135
118-79-6	2,4,6-Tribromophenol (Surr)	50		40-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP7\20130328-18338.b\30328004.D
Lims ID: MB 240-78456/17-A
Client ID:
Inject. Date: 28-Mar-2013 12:06:30
Dil. Factor: 1.0000
Sample Type: MB
Sample ID: 240-0018338-004
Misc. Info.: MB 240-78456/17-A
Operator: 001710
Instrument ID: A4HP7
Injection Vol: 1.0 ul
ALS Bottle#: 4
Lims Batch ID: 79745
Lims Sample ID: 4
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP7\20130328-18338.b\8270_hp7.m
Last Update: 29-Mar-2013 09:58:57
Calib Date: 26-Mar-2013 17:03:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326020.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: 5% phenyl
Column Dia: 0.18 mm
Process Host: XAWRK008

First Level Reviewer: gruberj
Date: 28-Mar-2013 12:32:57

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.886	5.886	0.0	97	210016	4.00	
* 2 Naphthalene-d8	136	7.010	7.010	0.0	99	832658	4.00	
* 3 Acenaphthene-d10	164	8.513	8.512	0.001	88	497492	4.00	
* 4 Phenanthrene-d10	188	9.775	9.775	0.0	98	794793	4.00	
* 5 Chrysene-d12	240	12.326	12.326	0.0	97	833985	4.00	
* 6 Perylene-d12	264	14.401	14.401	0.0	93	668501	4.00	
$ 7 2-Fluorophenol	112	4.613	4.613	0.0	92	706991	8.48	
$ 8 Phenol-d5	99	5.523	5.523	0.0	94	971559	8.81	
$ 9 Nitrobenzene-d5	82	6.378	6.378	0.0	87	512344	6.90	
$ 10 2-Fluorobiphenyl (Surr)	172	7.924	7.924	0.0	100	983563	6.33	
$ 11 2,4,6-Tribromophenol	330	9.176	9.176	0.0	92	189196	7.51	
$ 12 Terphenyl-d14	244	11.133	11.133	0.0	98	1294069	9.33	
247 1-Chloronaphthalene	162		0.000					
249 4-Chlorophenol TIC	1		0.000					
246 Total Cresols	1		0.000					
23 Octachlorocyclopentene	1		0.000					
243 3-(1,1-Dimethylethyl Phenol) TIC	1		0.000					
242 Triphenyl Phosphate TIC	1		0.000					
238 Trimethyl phosphate TIC	1		0.000					
240 3-isopropylphenol TIC	1		0.000					
22 3-Methylcatechol	1		0.000					
14 4-Methylcatechol	1		0.000					
239 2,3,7,8 TCDF TIC	1		0.000					
13 Bis(2-hydroxyphenyl)methane	1		0.000					
20 2,5-Dichlorophenol	1		0.000					
248 Hexadecane	57		0.000					
19 Bis(4-hydroxyphenyl)methane	1		0.000					
245 n-Octadecane	57		0.000					
236 4-isopropylphenol TIC	1		0.000					
241 Tricresyl phosphate TIC	1		0.000					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
244 n-Decane	57		0.000					
16 2,3-Dichlorophenol	1		0.000					
21 Octachlorostyrene	1		0.000					
15 Catechol	1		0.000					
234 2-Isopropylphenol TIC	1		0.000					
18 Dimethylformamide	73		2.056					
24 1,4-Dioxane	88		2.324					
25 N-Nitrosodimethylamine	74		2.784					
26 Pyridine	79		2.838					9
232 1-Methyl-2-pyrrilidinone	99		3.533					
27 Ethyl methacrylate	69		3.538					
28 3-Chloropropionitrile	54		3.934					
30 2-Picoline	93		3.968					
31 N-Nitrosomethylethylamine	88		4.112					9
32 Malononitrile	66		4.292					
33 Acrylamide	71	4.308	4.312	-0.004	4	57	0	
34 Methyl methanesulfonate	80		4.460					
29 3-Picoline	93		4.519					9
233 n,n'-Dimethylacetamide	44	4.597	4.546	0.051	0	950	0	
35 N-Nitrosodiethylamine	102		4.883					
36 Ethyl methanesulfonate	79		5.182					9
37 2-Methylcyclohexanone	68	5.405	5.396	0.009	1	82	0	
38 3-Methylcyclohexanone	69	5.432	5.434	-0.002	1	69	0	
42 Phenylmercaptan	110		5.440					
39 4-Methylcyclohexanone	55	5.469	5.482	-0.013	1	1342	0	
40 Benzaldehyde	77		5.485					
41 Phenol	94		5.539					9
43 Aniline	93		5.581					9
44 Bis(2-chloroethyl)ether	93		5.640					9
45 Pentachloroethane	167		5.658					
46 2-Chlorophenol	128		5.688					9
47 1,3-Dichlorobenzene	146		5.838					9
48 1,4-Dichlorobenzene	146		5.902					9
49 Benzyl alcohol	108		5.999					9
53 Indene	115	6.025	6.034	-0.009	51	208808	0	
50 1,2-Dichlorobenzene	146		6.041					
51 2-Methylphenol	108		6.090					9
52 2,2'-oxybis[1-chloropropane]	45		6.122					9
191 3 & 4 Methylphenol	108		6.218					
56 N-Nitrosodi-n-propylamine	70		6.234					9
57 Acetophenone	105		6.239					
55 N-Nitrosopyrrolidine	100		6.247					
58 N-Nitrosomorpholine	56		6.279					
59 2-Toluidine	106		6.300					
60 Hexachloroethane	117		6.346					
61 Nitrobenzene	77		6.394					9
62 N-Nitrosopiperidine	114		6.557					
63 Isophorone	82		6.598					9
65 2-Nitrophenol	139		6.673					
66 1,3,5-Trichlorobenzene	180		6.683					
64 2,4-Dimethylphenol	107		6.689					
69 Benzoic acid	122		6.753					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
68 Bis(2-chloroethoxy)methane	93		6.780					
67 o,o',o''-Triethylphosphorothioat	198		6.781					
71 2,4-Dichlorophenol	162		6.876					
70 alpha,alpha-Dimethyl phenethylam	58		6.942					9
72 1,2,4-Trichlorobenzene	180		6.956					
73 Naphthalene	128		7.031					9
74 4-Chloroaniline	127		7.063					
75 2,6-Dichlorophenol	162		7.108					
77 Hexachlorobutadiene	225		7.127					
76 Hexachloropropene	213		7.140					
78 1,2,3-Trichlorobenzene	180		7.149					
79 Benzothiazole	135		7.163					9
80 Quinoline	129		7.227					
83 Caprolactam	113		7.346					9
81 N-Nitrosodi-n-butylamine	84		7.375					
82 p-Phenylene diamine	108		7.397					
84 4-Chloro-3-methylphenol	107		7.459					
93 Safrole, Total	162		7.573					
85 2-Methylnaphthalene	142		7.619					
86 1-Methylnaphthalene	142		7.705					
87 1,2,3,5-Tetrachlorobenzene	216		7.748					
88 Hexachlorocyclopentadiene	237		7.753					
89 1,2,4,5-Tetrachlorobenzene	216		7.798					
225 Isosafrole Peak 1	162		7.819					
90 2,4,6-Trichlorophenol	196		7.849					
91 2,4,5-Trichlorophenol	196		7.881					
97 3,4-Dichloronitrobenzene	109		7.949					9
94 2,4-Toluene diamine	121		7.994					9
96 1,2,3,4 -Tetrachlorobenzene	216		8.004					9
99 Phenyl ether	170	7.924	8.008	-0.084	50	217620	0	
227 Isosafrole Peak 2	162		8.012					
95 1,1'-Biphenyl	154		8.015					9
98 2-Chloronaphthalene	162		8.036					
100 2-Nitroaniline	65		8.111					9
101 1,4-Naphthoquinone	158		8.220					
103 Dimethyl phthalate	163		8.256					9
102 1,4-Dinitrobenzene	168		8.263					
105 2,6-Dinitrotoluene	165		8.309					
104 1,3-Dinitrobenzene	168		8.327					
106 1,2-Dinitrobenzene	168		8.357					
107 Acenaphthylene	152		8.395					
108 3-Nitroaniline	138		8.454					
110 Acenaphthene	153		8.539					
109 2,4-Dinitrophenol	184		8.545					
111 4-Nitrophenol	109		8.571					9
112 2,4-Dinitrotoluene	165		8.652					
114 Dibenzofuran	168		8.684					
113 Pentachlorobenzene	250		8.691					
115 2,3,5,6-Tetrachlorophenol	232		8.742					
116 1-Naphthylamine	143		8.787					9
117 2,3,4,6-Tetrachlorophenol	232		8.819					
119 Diethyl phthalate	149		8.849					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
118 2-Naphthylamine	143		8.857					9
121 4-Chlorophenyl phenyl ether	204		8.962					
120 Thionazin	97		8.964					
123 4-Nitroaniline	138		8.972					
124 Fluorene	166		8.978					
126 4,6-Dinitro-2-methylphenol	198		8.999					
122 N-Nitro-o-toluidine	152		9.012					
130 N-Nitrosodiphenylamine	169		9.058					
125 Tributyl phosphate	99		9.060					9
131 Azobenzene	77		9.095					
129 1,2-Diphenylhydrazine	77		9.095					
128 Diphenylamine	169		9.103					9
132 Sulfotepp	202		9.215					
133 1,3,5-Trinitrobenzene	213		9.295					
135 Phenacetin	108		9.343					
228 Diallate Peak 1	86		9.343					1
136 Phorate	121		9.354					
137 4-Bromophenyl phenyl ether	248		9.379					
230 Diallate Peak 2	86		9.418					1
139 Hexachlorobenzene	284		9.443					
140 Atrazine	200		9.491					
138 Dimethoate	87		9.493					9
141 Pentachlorophenol	266		9.598					9
127 4-Aminobiphenyl	169		9.643					
143 Pentachloronitrobenzene	237		9.659					
142 Pronamide	173		9.675					
145 Dinoseb	211		9.787					
144 Disulfoton	88		9.793					9
146 Phenanthrene	178		9.796					9
147 Anthracene	178		9.839					9
149 Carbazole	167		9.962					
150 Methyl parathion	109		10.114					
152 Diphenylsulfone	125		10.126					
151 Di-n-butyl phthalate	149		10.224					
153 Ethyl Parathion	97		10.440					9
154 4-Nitroquinoline-1-oxide	190		10.488					
155 Methapyrilene	58		10.536					
156 Isodrin	66		10.729					9
157 Fluoranthene	202		10.807					
158 Benzidine	184		10.903					9
160 Pyrene	202		11.016					9
164 4,4'-DDE	246		11.069					9
226 Aramite Peak 1	185		11.151					
229 Aramite Peak 2	185		11.221					
161 p-Dimethylamino azobenzene	225		11.328					
162 Chlorobenzilate	139		11.365					
163 4,4'-DDD	235		11.449					
166 Butyl benzyl phthalate	149		11.615					9
165 Famphur	218		11.627					
167 3,3'-Dimethylbenzidine	212		11.681					
168 4,4'-DDT	235		11.738					9
169 2-Acetylaminofluorene	181		11.970					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
174 Hexabromobenzene	232		12.164					
170 3,3'-Dimethoxybenzidine	244		12.224					
172 4,4'-Methylene bis(2-chloroanili	231		12.262					9
173 3,3'-Dichlorobenzidine	252		12.262					
171 Bis(2-ethylhexyl) phthalate	149	12.294	12.294	0.0	89	10204	0.4274	
175 Benzo[a]anthracene	228		12.315					9
176 Chrysene	228		12.364					9
177 6-Methylchrysene	242		12.752					
178 Di-n-octyl phthalate	149		13.203					
180 Benzo[b]fluoranthene	252		13.818					
181 Benzo[k]fluoranthene	252		13.861					
179 7,12-Dimethylbenz(a)anthracene	256		13.895					
182 Benzo[a]pyrene	252		14.316					9
183 3-Methylcholanthrene	268		14.949					9
184 Dibenz[a,j]acridine	279		15.400					
185 Dibenz[a,h]acridine	279		15.474					
186 Indeno[1,2,3-cd]pyrene	276		16.054					
187 Dibenz(a,h)anthracene	278		16.086					
188 Benzo[g,h,i]perylene	276		16.503					
S 189 Methyl Phenols,Total	100		0.000					7
S 92 Isosafrole	162		5.138					7
S 134 Diallate	86		6.337					7
S 159 Aramite, Total	185		7.806					7
T 193 Hydroquinone TIC	110		0.000					1
T 195 Hexamethylphosphoramide TIC	1		0.000					1
T 192 Decane TIC	142	3.009	3.050	-0.041	1	49	0	
T 194 Octadecane (TIC)	254	6.469	6.300	0.169	1	113	0	
T 231 2,3,7,8-TCDD	322		8.700					1
T 197 Hexachlorophene TIC	198		9.000					1
T 237 Tris(2,3-dibromopropyl)phosphate	201	10.716	10.600	0.116	0	130	0	
T 196 Kepone TIC	272		12.250					1

QC Flag Legend

Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

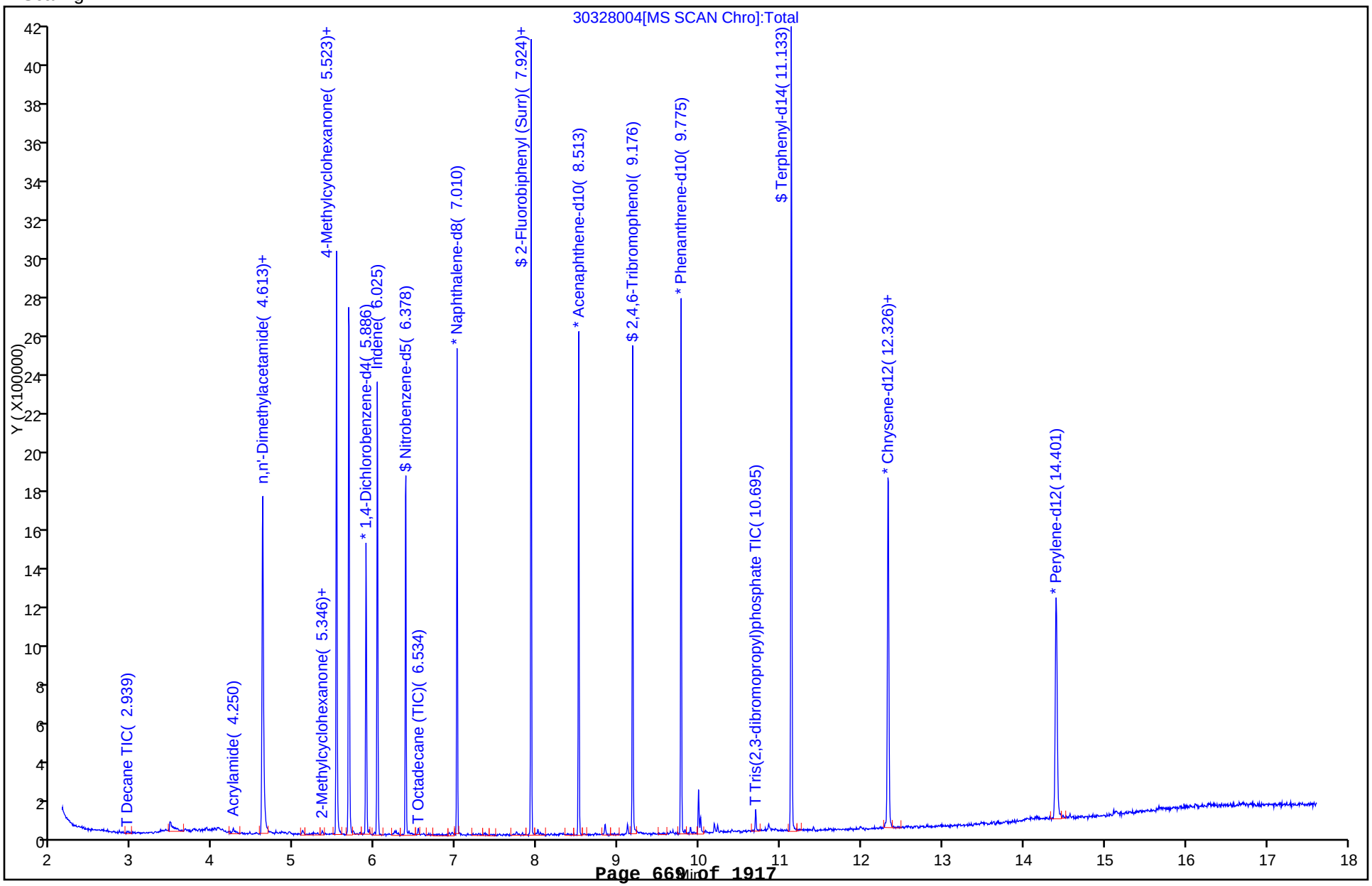
Report Date: 29-Mar-2013 09:59:00 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP7\20130328-18338.b\30328004.D

Injection Date:	28-Mar-2013 12:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79745	Lims Sample ID:	4
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

Y Scaling:



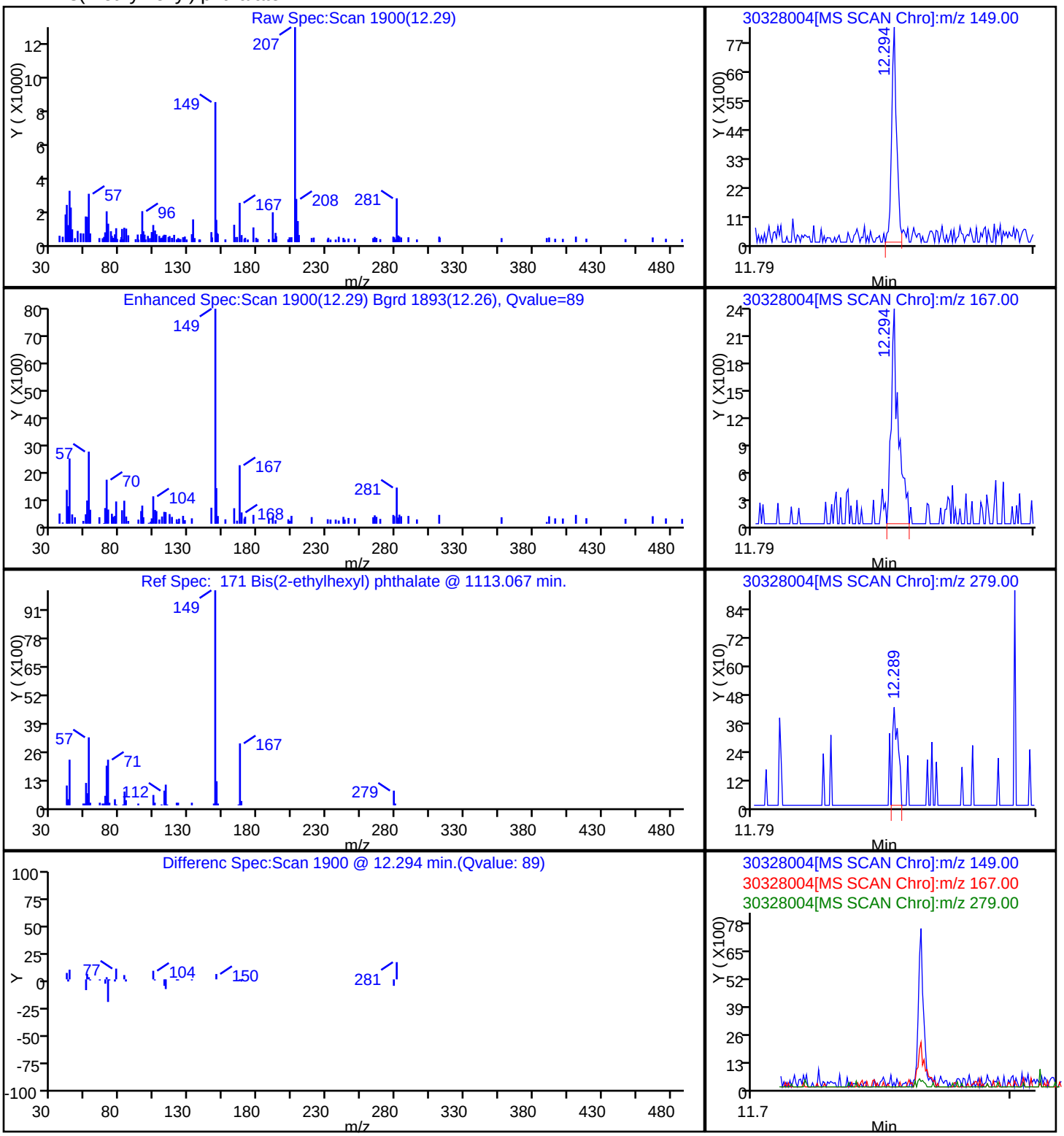
Report Date: 29-Mar-2013 09:59:00 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP7\20130328-18338.b\30328004.D

Injection Date:	28-Mar-2013 12:06:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79745	Lims Sample ID:	4
Operator ID:	001710	Injection Vol:	1.0 ul
Column Type:	5% phenyl	Column Dia:	0.18 mm

171 Bis(2-ethylhexyl) phthalate



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-78456/18-A

Matrix: Water | Lab File ID: 30328005.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3520C | Date Extracted: 03/15/2013 08:45

Sample wt/vol: 1000(mL) | Date Analyzed: 03/28/2013 12:29

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.: 79745 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	16.6		0.20	0.10	0.10
208-96-8	Acenaphthylene	16.7		0.20	0.10	0.10
120-12-7	Anthracene	17.5		0.20	0.10	0.10
56-55-3	Benzo[a]anthracene	17.9		0.20	0.10	0.10
50-32-8	Benzo[a]pyrene	13.4		0.20	0.10	0.10
205-99-2	Benzo[b]fluoranthene	18.4		0.20	0.10	0.10
191-24-2	Benzo[g,h,i]perylene	18.8		0.20	0.10	0.10
65-85-0	Benzoic acid	13.1	J	25	10	10
207-08-9	Benzo[k]fluoranthene	18.3		0.20	0.10	0.10
100-51-6	Benzyl alcohol	13.7		5.0	0.80	0.38
111-91-1	Bis(2-chloroethoxy)methane	16.2		1.0	0.80	0.32
111-44-4	Bis(2-chloroethyl)ether	16.2		1.0	0.10	0.10
108-60-1	bis (2-chloroisopropyl) ether	15.5		1.0	0.80	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	15.6		2.0	0.80	0.80
101-55-3	4-Bromophenyl phenyl ether	15.7		2.0	0.80	0.80
85-68-7	Butyl benzyl phthalate	16.9		1.0	0.80	0.80
86-74-8	Carbazole	16.9		1.0	0.80	0.28
106-47-8	4-Chloroaniline	14.3		2.0	0.80	0.80
59-50-7	4-Chloro-3-methylphenol	13.7		2.0	0.80	0.80
91-58-7	2-Chloronaphthalene	15.2		1.0	0.10	0.10
95-57-8	2-Chlorophenol	13.4		1.0	0.80	0.29
7005-72-3	4-Chlorophenyl phenyl ether	16.3		2.0	0.80	0.30
218-01-9	Chrysene	18.6		0.20	0.10	0.10
53-70-3	Dibenz(a,h)anthracene	19.4		0.20	0.10	0.10
132-64-9	Dibenzofuran	16.7		1.0	0.10	0.10
95-50-1	1,2-Dichlorobenzene	13.8		1.0	0.80	0.29
541-73-1	1,3-Dichlorobenzene	13.1		1.0	0.80	0.80
106-46-7	1,4-Dichlorobenzene	11.0		1.0	0.80	0.34
91-94-1	3,3'-Dichlorobenzidine	7.12		5.0	0.80	0.37
120-83-2	2,4-Dichlorophenol	13.7		2.0	0.80	0.80
84-66-2	Diethyl phthalate	17.2		1.0	0.80	0.60
105-67-9	2,4-Dimethylphenol	8.22		2.0	0.80	0.80
131-11-3	Dimethyl phthalate	17.3		1.0	0.80	0.29
84-74-2	Di-n-butyl phthalate	17.0		1.0	0.80	0.67

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-78456/18-A

Matrix: Water | Lab File ID: 30328005.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3520C | Date Extracted: 03/15/2013 08:45

Sample wt/vol: 1000(mL) | Date Analyzed: 03/28/2013 12:29

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.: 79745 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	12.9		5.0	2.4	2.4
51-28-5	2,4-Dinitrophenol	15.7		5.0	2.4	2.4
121-14-2	2,4-Dinitrotoluene	15.9		5.0	0.80	0.27
606-20-2	2,6-Dinitrotoluene	16.6		5.0	0.80	0.80
117-84-0	Di-n-octyl phthalate	17.1		1.0	0.80	0.80
206-44-0	Fluoranthene	17.3		0.20	0.10	0.10
86-73-7	Fluorene	17.0		0.20	0.10	0.10
118-74-1	Hexachlorobenzene	15.7		0.20	0.10	0.10
87-68-3	Hexachlorobutadiene	12.2		1.0	0.80	0.27
77-47-4	Hexachlorocyclopentadiene	2.86	J	10	0.80	0.80
67-72-1	Hexachloroethane	12.8		1.0	0.80	0.80
193-39-5	Indeno[1,2,3-cd]pyrene	17.9		0.20	0.10	0.10
78-59-1	Isophorone	17.2		1.0	0.80	0.27
91-57-6	2-Methylnaphthalene	16.8		0.20	0.10	0.10
95-48-7	2-Methylphenol	13.1		1.0	0.80	0.80
15831-10-4	3 & 4 Methylphenol	26.8		2.0	0.80	0.80
91-20-3	Naphthalene	16.2		0.20	0.10	0.10
88-74-4	2-Nitroaniline	14.9		2.0	0.80	0.80
99-09-2	3-Nitroaniline	14.8		2.0	0.80	0.28
100-01-6	4-Nitroaniline	15.2		2.0	0.80	0.80
98-95-3	Nitrobenzene	16.6		1.0	0.10	0.040
88-75-5	2-Nitrophenol	12.8		2.0	0.80	0.28
100-02-7	4-Nitrophenol	13.0		5.0	2.4	2.4
621-64-7	N-Nitrosodi-n-propylamine	14.9		1.0	0.80	0.80
86-30-6	N-Nitrosodiphenylamine	14.8		1.0	0.80	0.31
87-86-5	Pentachlorophenol	13.8		5.0	2.4	2.4
85-01-8	Phenanthrene	16.8		0.20	0.10	0.10
108-95-2	Phenol	13.4		1.0	0.80	0.60
129-00-0	Pyrene	17.5		0.20	0.10	0.10
120-82-1	1,2,4-Trichlorobenzene	13.7		1.0	0.80	0.28
95-95-4	2,4,5-Trichlorophenol	13.4		5.0	0.80	0.30
88-06-2	2,4,6-Trichlorophenol	13.9		5.0	0.80	0.80

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-78456/18-A

Matrix: Water | Lab File ID: 30328005.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: 3520C | Date Extracted: 03/15/2013 08:45

Sample wt/vol: 1000(mL) | Date Analyzed: 03/28/2013 12:29

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.: 79745 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	74		50-110
367-12-4	2-Fluorophenol (Surr)	67		20-110
4165-60-0	Nitrobenzene-d5 (Surr)	84		40-110
4165-62-2	Phenol-d5 (Surr)	68		10-115
1718-51-0	Terphenyl-d14 (Surr)	91		50-135
118-79-6	2,4,6-Tribromophenol (Surr)	62		40-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP7\20130328-18338.b\30328005.D
Lims ID: LCS 240-78456/18-A
Client ID:
Inject. Date: 28-Mar-2013 12:29:30
Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0018338-005
Misc. Info.: LCS 240-78456/18-A
Operator: 001710
Instrument ID: A4HP7
Injection Vol: 1.0 ul
ALS Bottle#: 5
Lims Batch ID: 79745
Lims Sample ID: 5
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP7\20130328-18338.b\8270_hp7.m
Last Update: 29-Mar-2013 09:58:57
Calib Date: 26-Mar-2013 17:03:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326020.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: 5% phenyl
Column Dia: 0.18 mm
Process Host: XAWRK008

First Level Reviewer: gruberj
Date: 28-Mar-2013 13:07:48

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.886	5.886	0.0	97	200884	4.00	
* 2 Naphthalene-d8	136	7.009	7.010	-0.001	100	795207	4.00	
* 3 Acenaphthene-d10	164	8.512	8.512	0.0	88	486651	4.00	
* 4 Phenanthrene-d10	188	9.775	9.775	0.0	97	787384	4.00	
* 5 Chrysene-d12	240	12.331	12.326	0.005	89	864005	4.00	
* 6 Perylene-d12	264	14.401	14.401	0.0	97	673571	4.00	
$ 7 2-Fluorophenol	112	4.613	4.613	0.0	92	802029	10.1	
$ 8 Phenol-d5	99	5.523	5.523	-0.001	95	1080031	10.2	
$ 9 Nitrobenzene-d5	82	6.378	6.378	0.0	86	593490	8.37	
$ 10 2-Fluorobiphenyl (Surr)	172	7.924	7.924	0.0	99	1129836	7.43	
$ 11 2,4,6-Tribromophenol	330	9.176	9.176	0.0	90	229242	9.23	
$ 12 Terphenyl-d14	244	11.133	11.133	0.0	98	1312206	9.13	
24 1,4-Dioxane	88	2.324	2.324	0.0	92	190575	5.65	M
25 N-Nitrosodimethylamine	74	2.784	2.784	0.0	93	291306	6.97	
26 Pyridine	79	2.848	2.838	0.010	92	55442	0.6996	
30 2-Picoline	93	3.955	3.968	-0.013	92	43933	0.5332	
36 Ethyl methanesulfonate	79	5.159	5.182	-0.023	98	402169	7.54	
40 Benzaldehyde	77	5.485	5.485	0.0	95	482835	9.02	
41 Phenol	94	5.539	5.539	0.0	97	745124	6.69	
43 Aniline	93	5.581	5.581	0.0	99	677949	5.37	
44 Bis(2-chloroethyl)ether	93	5.640	5.640	0.0	97	576520	8.09	
46 2-Chlorophenol	128	5.688	5.688	0.0	92	577101	6.68	
47 1,3-Dichlorobenzene	146	5.838	5.838	0.0	96	491918	6.55	
48 1,4-Dichlorobenzene	146	5.902	5.902	0.0	92	511066	5.49	
49 Benzyl alcohol	108	5.999	5.999	0.0	91	370152	6.86	
50 1,2-Dichlorobenzene	146	6.041	6.041	0.0	94	494878	6.91	
51 2-Methylphenol	108	6.089	6.090	-0.001	94	522230	6.55	
52 2,2'-oxybis[1-chloropropane]	45	6.122	6.122	0.0	91	578446	7.74	
191 3 & 4 Methylphenol	108	6.223	6.218	0.005	92	1118806	13.4	
56 N-Nitrosodi-n-propylamine	70	6.234	6.234	0.0	84	339610	7.46	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
57 Acetophenone	105	6.239	6.239	0.0	95	835073	8.80	
60 Hexachloroethane	117	6.346	6.346	0.0	92	181306	6.40	
61 Nitrobenzene	77	6.394	6.394	0.0	83	617749	8.30	
63 Isophorone	82	6.598	6.598	0.0	99	1047245	8.58	
65 2-Nitrophenol	139	6.672	6.673	-0.001	95	279445	6.41	
64 2,4-Dimethylphenol	107	6.689	6.689	-0.001	94	353287	4.11	
69 Benzoic acid	122	6.726	6.753	-0.027	80	187209	6.57	
68 Bis(2-chloroethoxy)methane	93	6.779	6.780	-0.001	97	685029	8.12	
71 2,4-Dichlorophenol	162	6.876	6.876	0.0	95	460307	6.83	
72 1,2,4-Trichlorobenzene	180	6.956	6.956	0.0	92	430748	6.87	
73 Naphthalene	128	7.031	7.031	0.0	96	1572620	8.08	
74 4-Chloroaniline	127	7.063	7.063	0.0	86	644925	7.13	
77 Hexachlorobutadiene	225	7.127	7.127	0.0	95	202744	6.10	
80 Quinoline	129	7.314	7.227	0.087	96	1066832	0	
83 Caprolactam	113	7.341	7.346	-0.005	80	171260	10.2	
84 4-Chloro-3-methylphenol	107	7.459	7.459	0.0	96	488965	6.84	
93 Safrole, Total	162	7.534	7.573	-0.039	90	427173	8.72	
85 2-Methylnaphthalene	142	7.619	7.619	0.0	89	1025090	8.39	
86 1-Methylnaphthalene	142	7.705	7.705	0.0	90	970621	8.15	
88 Hexachlorocyclopentadiene	237	7.753	7.753	0.0	94	42168	1.43	
90 2,4,6-Trichlorophenol	196	7.849	7.849	0.0	92	340270	6.96	
91 2,4,5-Trichlorophenol	196	7.881	7.881	0.0	94	361166	6.69	
95 1,1'-Biphenyl	154	8.015	8.015	0.0	94	1249321	8.11	
98 2-Chloronaphthalene	162	8.036	8.036	0.0	96	1015851	7.60	
100 2-Nitroaniline	65	8.111	8.111	0.0	82	326715	7.46	
103 Dimethyl phthalate	163	8.256	8.256	0.0	98	1181437	8.67	
102 1,4-Dinitrobenzene	168	8.224	8.263	-0.039	90	149293	7.93	
105 2,6-Dinitrotoluene	165	8.309	8.309	0.0	94	268037	8.31	
104 1,3-Dinitrobenzene	168	8.288	8.327	-0.039	88	187056	7.97	
106 1,2-Dinitrobenzene	168	8.357	8.357	0.0	86	131800	8.07	
107 Acenaphthylene	152	8.395	8.395	0.0	95	1577109	8.35	
108 3-Nitroaniline	138	8.454	8.454	0.0	94	304491	7.38	
110 Acenaphthene	153	8.539	8.539	0.0	94	985618	8.31	
109 2,4-Dinitrophenol	184	8.544	8.545	-0.001	58	99636	7.85	
111 4-Nitrophenol	109	8.571	8.571	0.0	92	179835	6.48	
112 2,4-Dinitrotoluene	165	8.651	8.652	-0.001	92	350365	7.96	
114 Dibenzofuran	168	8.684	8.684	0.0	89	1504424	8.35	
115 2,3,5,6-Tetrachlorophenol	232	8.742	8.742	0.0	93	291734	6.32	
117 2,3,4,6-Tetrachlorophenol	232	8.780	8.819	-0.039	70	288198	9.26	
119 Diethyl phthalate	149	8.849	8.849	0.0	98	1120149	8.60	
121 4-Chlorophenyl phenyl ether	204	8.962	8.962	0.0	95	571894	8.14	
123 4-Nitroaniline	138	8.972	8.972	0.0	81	306653	7.61	
124 Fluorene	166	8.978	8.978	0.0	91	1221563	8.48	
126 4,6-Dinitro-2-methylphenol	198	8.999	8.999	0.0	83	171490	6.46	
130 N-Nitrosodiphenylamine	169	9.058	9.058	0.0	0	852475	7.38	
131 Azobenzene	77	9.095	9.095	0.0	98	1334317	8.57	
129 1,2-Diphenylhydrazine	77	9.095	9.095	0.0	0	1334317	8.57	
135 Phenacetin	108	9.299	9.343	-0.044	91	568182	8.40	
136 Phorate	121	9.304	9.354	-0.050	94	201446	8.04	
137 4-Bromophenyl phenyl ether	248	9.379	9.379	0.0	64	319343	7.84	
139 Hexachlorobenzene	284	9.443	9.443	0.0	90	333214	7.87	
140 Atrazine	200	9.491	9.491	0.0	91	315497	12.5	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
141 Pentachlorophenol	266	9.598	9.598	0.0	84	212354	6.90	
142 Pronamide	173	9.625	9.675	-0.050	90	489810	8.19	
146 Phenanthrene	178	9.796	9.796	0.0	97	1773277	8.42	
147 Anthracene	178	9.839	9.839	0.0	97	1727988	8.74	
149 Carbazole	167	9.962	9.962	0.0	82	1666770	8.46	
151 Di-n-butyl phthalate	149	10.224	10.224	0.0	100	1917912	8.50	
157 Fluoranthene	202	10.807	10.807	0.0	97	1926009	8.65	
160 Pyrene	202	11.016	11.016	0.0	95	2021533	8.74	
162 Chlorobenzilate	139	11.304	11.365	-0.061	89	558995	7.42	
166 Butyl benzyl phthalate	149	11.615	11.615	0.0	96	804922	8.44	
173 3,3'-Dichlorobenzidine	252	12.262	12.262	0.0	70	321311	3.56	
171 Bis(2-ethylhexyl) phthalate	149	12.294	12.294	0.0	96	1054801	7.81	
175 Benzo[a]anthracene	228	12.315	12.315	0.0	98	1860820	8.94	
176 Chrysene	228	12.363	12.364	-0.001	94	1820368	9.30	
178 Di-n-octyl phthalate	149	13.203	13.203	0.0	99	1553661	8.56	
180 Benzo[b]fluoranthene	252	13.818	13.818	0.0	93	1741011	9.18	
181 Benzo[k]fluoranthene	252	13.861	13.861	0.0	99	1851052	9.16	
182 Benzo[a]pyrene	252	14.316	14.316	0.0	75	1346395	6.68	
186 Indeno[1,2,3-cd]pyrene	276	16.054	16.054	0.0	94	1717448	8.97	
187 Dibenz(a,h)anthracene	278	16.086	16.086	0.0	81	1529384	9.71	
188 Benzo[g,h,i]perylene	276	16.503	16.503	0.0	93	1546475	9.40	

QC Flag Legend

Review Flags
M - Manually Integrated

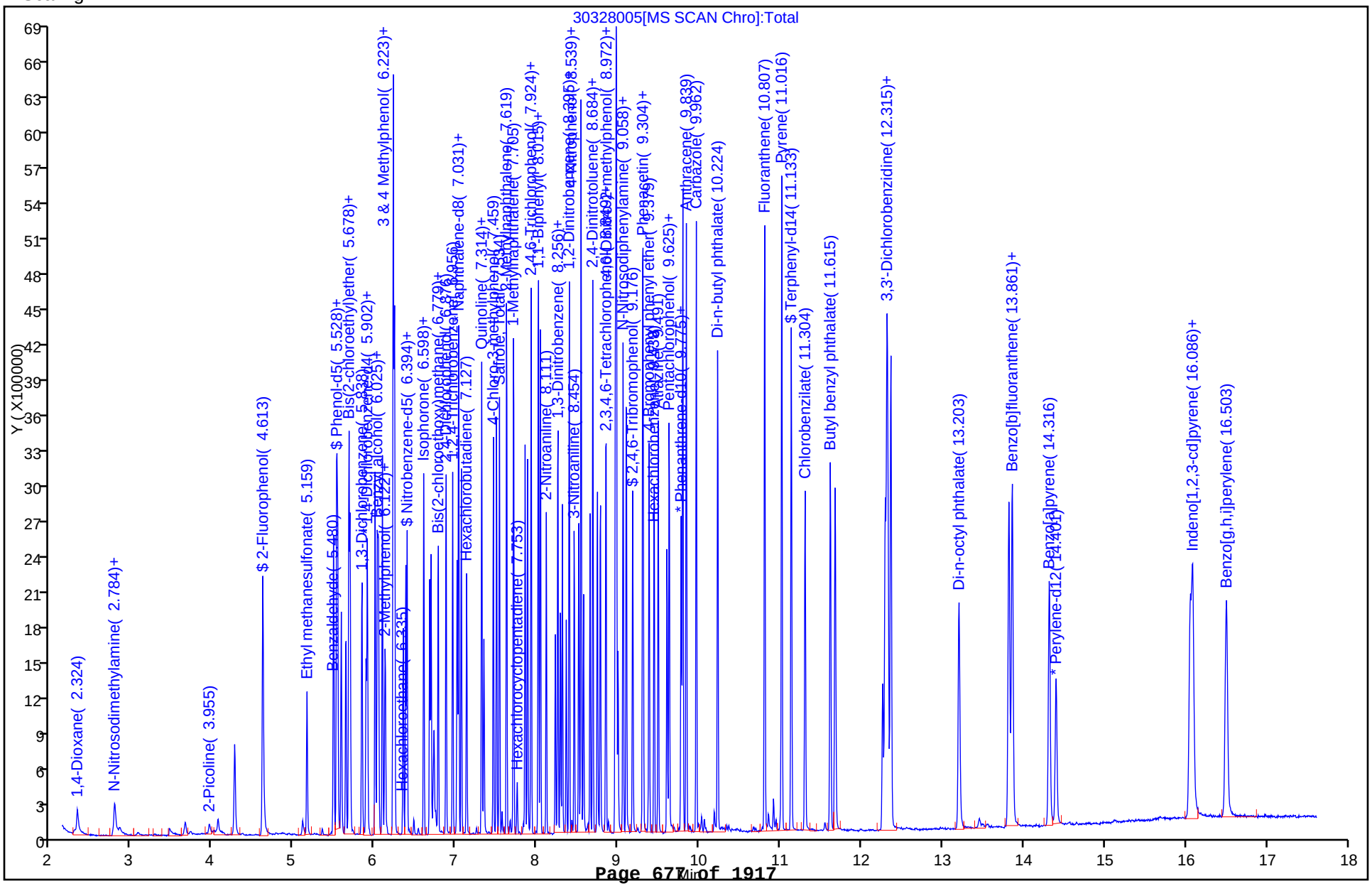
Report Date: 29-Mar-2013 09:59:02 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP7\20130328-18338.b\30328005.D

Injection Date:	28-Mar-2013 12:29:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79745	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.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-79745/3

Matrix: Water | Lab File ID: 30328003.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 03/28/2013 11:42

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 79745 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	4.88		0.00020	0.00010	0.00010
208-96-8	Acenaphthylene	5.09		0.00020	0.00010	0.00010
120-12-7	Anthracene	5.00		0.00020	0.00010	0.00010
56-55-3	Benzo[a]anthracene	4.90		0.00020	0.00010	0.00010
50-32-8	Benzo[a]pyrene	4.37		0.00020	0.00010	0.00010
205-99-2	Benzo[b]fluoranthene	4.82		0.00020	0.00010	0.00010
191-24-2	Benzo[g,h,i]perylene	4.74		0.00020	0.00010	0.00010
65-85-0	Benzoic acid	10.2		0.025	0.010	0.010
207-08-9	Benzo[k]fluoranthene	4.74		0.00020	0.00010	0.00010
100-51-6	Benzyl alcohol	4.82		0.0050	0.00080	0.00038
111-91-1	Bis(2-chloroethoxy)methane	4.80		0.0010	0.00080	0.00032
111-44-4	Bis(2-chloroethyl)ether	4.76		0.0010	0.00010	0.00010
108-60-1	bis (2-chloroisopropyl) ether	4.57		0.0010	0.00080	0.00040
117-81-7	Bis(2-ethylhexyl) phthalate	4.59		0.0020	0.00080	0.00080
101-55-3	4-Bromophenyl phenyl ether	4.76		0.0020	0.00080	0.00080
85-68-7	Butyl benzyl phthalate	4.40		0.0010	0.00080	0.00080
86-74-8	Carbazole	4.79		0.0010	0.00080	0.00028
106-47-8	4-Chloroaniline	4.76		0.0020	0.00080	0.00080
59-50-7	4-Chloro-3-methylphenol	4.97		0.0020	0.00080	0.00080
91-58-7	2-Chloronaphthalene	4.85		0.0010	0.00010	0.00010
95-57-8	2-Chlorophenol	4.73		0.0010	0.00080	0.00029
7005-72-3	4-Chlorophenyl phenyl ether	4.88		0.0020	0.00080	0.00030
218-01-9	Chrysene	4.72		0.00020	0.00010	0.00010
53-70-3	Dibenz(a,h)anthracene	4.88		0.00020	0.00010	0.00010
132-64-9	Dibenzofuran	4.87		0.0010	0.00010	0.00010
95-50-1	1,2-Dichlorobenzene	4.75		0.0010	0.00080	0.00029
541-73-1	1,3-Dichlorobenzene	4.69		0.0010	0.00080	0.00080
106-46-7	1,4-Dichlorobenzene	4.67		0.0010	0.00080	0.00034
91-94-1	3,3'-Dichlorobenzidine	4.71		0.0050	0.00080	0.00037
120-83-2	2,4-Dichlorophenol	4.90		0.0020	0.00080	0.00080
84-66-2	Diethyl phthalate	4.85		0.0010	0.00080	0.00060
105-67-9	2,4-Dimethylphenol	4.89		0.0020	0.00080	0.00080
131-11-3	Dimethyl phthalate	4.97		0.0010	0.00080	0.00029
84-74-2	Di-n-butyl phthalate	4.55		0.0010	0.00080	0.00067

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-79745/3

Matrix: Water | Lab File ID: 30328003.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 03/28/2013 11:42

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 79745 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	5.08		0.0050	0.0024	0.0024
51-28-5	2,4-Dinitrophenol	11.0		0.0050	0.0024	0.0024
121-14-2	2,4-Dinitrotoluene	4.79		0.0050	0.00080	0.00027
606-20-2	2,6-Dinitrotoluene	4.63		0.0050	0.00080	0.00080
117-84-0	Di-n-octyl phthalate	4.83		0.0010	0.00080	0.00080
206-44-0	Fluoranthene	4.85		0.00020	0.00010	0.00010
86-73-7	Fluorene	4.86		0.00020	0.00010	0.00010
118-74-1	Hexachlorobenzene	4.67		0.00020	0.00010	0.00010
87-68-3	Hexachlorobutadiene	4.92		0.0010	0.00080	0.00027
77-47-4	Hexachlorocyclopentadiene	4.87		0.010	0.00080	0.00080
67-72-1	Hexachloroethane	4.65		0.0010	0.00080	0.00080
193-39-5	Indeno[1,2,3-cd]pyrene	4.87		0.00020	0.00010	0.00010
78-59-1	Isophorone	4.92		0.0010	0.00080	0.00027
91-57-6	2-Methylnaphthalene	4.78		0.00020	0.00010	0.00010
95-48-7	2-Methylphenol	4.77		0.0010	0.00080	0.00080
15831-10-4	3 & 4 Methylphenol	4.77		0.0020	0.00080	0.00080
91-20-3	Naphthalene	4.74		0.00020	0.00010	0.00010
88-74-4	2-Nitroaniline	4.73		0.0020	0.00080	0.00080
99-09-2	3-Nitroaniline	4.90		0.0020	0.00080	0.00028
100-01-6	4-Nitroaniline	4.93		0.0020	0.00080	0.00080
98-95-3	Nitrobenzene	4.96		0.0010	0.00010	0.000040
88-75-5	2-Nitrophenol	4.53		0.0020	0.00080	0.00028
100-02-7	4-Nitrophenol	4.87		0.0050	0.0024	0.0024
621-64-7	N-Nitrosodi-n-propylamine	5.02		0.0010	0.00080	0.00080
86-30-6	N-Nitrosodiphenylamine	5.00		0.0010	0.00080	0.00031
87-86-5	Pentachlorophenol	9.30		0.0050	0.0024	0.0024
85-01-8	Phenanthrene	4.71		0.00020	0.00010	0.00010
108-95-2	Phenol	4.74		0.0010	0.00080	0.00060
129-00-0	Pyrene	4.84		0.00020	0.00010	0.00010
120-82-1	1,2,4-Trichlorobenzene	4.72		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	5.06		0.0050	0.00080	0.00080

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-79745/3

Matrix: Water | Lab File ID: 30328003.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 03/28/2013 11:42

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 79745 | Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	96		70-130
367-12-4	2-Fluorophenol (Surr)	94		50-150
4165-60-0	Nitrobenzene-d5 (Surr)	96		50-150
4165-62-2	Phenol-d5 (Surr)	96		50-150
1718-51-0	Terphenyl-d14 (Surr)	94		50-150
118-79-6	2,4,6-Tribromophenol (Surr)	99		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP7\20130328-18338.b\30328003.D
Lims ID: mrl qc
Client ID:
Inject. Date: 28-Mar-2013 11:42:30
Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018338-003
Misc. Info.: MRL QC
Operator: 001710
Instrument ID: A4HP7
Injection Vol: 1.0 ul
ALS Bottle#: 3
Lims Batch ID: 79745
Lims Sample ID: 3
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP7\20130328-18338.b\8270_hp7.m
Last Update: 29-Mar-2013 09:58:57
Calib Date: 26-Mar-2013 17:03:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326020.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type: 5% phenyl
Column Dia: 0.18 mm
Process Host: XAWRK008

First Level Reviewer: gruberj
Date: 28-Mar-2013 12:32:11

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.886	5.886	0.0	97	220517	4.00	
* 2 Naphthalene-d8	136	7.009	7.010	-0.001	99	860585	4.00	
* 3 Acenaphthene-d10	164	8.512	8.512	0.0	92	499241	4.00	
* 4 Phenanthrene-d10	188	9.775	9.775	0.0	97	815904	4.00	
* 5 Chrysene-d12	240	12.326	12.326	0.0	94	931554	4.00	
* 6 Perylene-d12	264	14.401	14.401	0.0	93	764764	4.00	
$ 7 2-Fluorophenol	112	4.608	4.613	-0.005	92	409820	4.68	
$ 8 Phenol-d5	99	5.523	5.523	0.0	88	555298	4.79	
$ 9 Nitrobenzene-d5	82	6.373	6.378	-0.005	90	366485	4.78	
$ 10 2-Fluorobiphenyl (Surr)	172	7.924	7.924	0.0	99	750843	4.81	
$ 11 2,4,6-Tribromophenol	330	9.176	9.176	0.0	89	121686	4.93	
$ 12 Terphenyl-d14	244	11.133	11.133	0.0	98	730505	4.72	
247 1-Chloronaphthalene	162		0.000					
249 4-Chlorophenol TIC	1		0.000					
246 Total Cresols	1		0.000					
23 Octachlorocyclopentene	1		0.000					
243 3-(1,1-Dimethylethyl Phenol) TIC	1		0.000					
242 Triphenyl Phosphate TIC	1		0.000					
238 Trimethyl phosphate TIC	1		0.000					
240 3-isopropylphenol TIC	1		0.000					
22 3-Methylcatechol	1		0.000					
14 4-Methylcatechol	1		0.000					
239 2,3,7,8 TCDF TIC	1		0.000					
13 Bis(2-hydroxyphenyl)methane	1		0.000					
20 2,5-Dichlorophenol	1		0.000					
248 Hexadecane	57		0.000					
19 Bis(4-hydroxyphenyl)methane	1		0.000					
245 n-Octadecane	57		0.000					
236 4-isopropylphenol TIC	1		0.000					
241 Tricresyl phosphate TIC	1		0.000					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
244 n-Decane	57		0.000					
16 2,3-Dichlorophenol	1		0.000					
21 Octachlorostyrene	1		0.000					
15 Catechol	1		0.000					
234 2-Isopropylphenol TIC	1		0.000					
18 Dimethylformamide	73		2.056					
24 1,4-Dioxane	88	2.324	2.324	0.0	92	174718	4.72	
25 N-Nitrosodimethylamine	74	2.784	2.784	0.0	91	216940	4.73	
26 Pyridine	79	2.832	2.838	-0.006	94	420121	4.83	
232 1-Methyl-2-pyrrilidinone	99	3.538	3.533	0.005	0	58576	0	
27 Ethyl methacrylate	69	3.538	3.538	0.0	88	270138	4.70	
28 3-Chloropropionitrile	54	3.934	3.934	0.0	85	189919	4.64	
30 2-Picoline	93		3.968					
31 N-Nitrosomethylethylamine	88		4.112					9
32 Malononitrile	66	4.287	4.292	-0.005	95	363721	4.66	
33 Acrylamide	71	4.319	4.312	0.007	1	92	0	
34 Methyl methanesulfonate	80		4.460					
29 3-Picoline	93		4.519					
233 n,n'-Dimethylacetamide	44	4.560	4.546	0.014	0	734	0	
35 N-Nitrosodiethylamine	102		4.883					
36 Ethyl methanesulfonate	79		5.182					9
37 2-Methylcyclohexanone	68	5.394	5.396	-0.002	1	532	0	
38 3-Methylcyclohexanone	69	5.437	5.434	0.003	1	421	0	
42 Phenylmercaptan	110		5.440					
39 4-Methylcyclohexanone	55	5.469	5.482	-0.013	4	2529	0	
40 Benzaldehyde	77	5.485	5.485	0.0	97	292047	4.97	
41 Phenol	94	5.533	5.539	-0.006	98	579579	4.74	
43 Aniline	93	5.581	5.581	0.0	99	656328	4.73	
44 Bis(2-chloroethyl)ether	93	5.635	5.640	-0.005	97	372187	4.76	
45 Pentachloroethane	167		5.658					
46 2-Chlorophenol	128	5.688	5.688	0.0	96	448348	4.73	
47 1,3-Dichlorobenzene	146	5.838	5.838	0.0	97	387019	4.69	
48 1,4-Dichlorobenzene	146	5.902	5.902	0.0	91	478019	4.67	
49 Benzyl alcohol	108	5.999	5.999	0.0	92	285378	4.82	
53 Indene	115		6.034					9
50 1,2-Dichlorobenzene	146	6.041	6.041	0.0	93	373491	4.75	
51 2-Methylphenol	108	6.089	6.090	-0.001	96	417490	4.77	
52 2,2'-oxybis[1-chloropropane]	45	6.122	6.122	0.0	90	375050	4.57	
191 3 & 4 Methylphenol	108	6.218	6.218	0.0	97	437174	4.77	
56 N-Nitrosodi-n-propylamine	70	6.234	6.234	0.0	83	250629	5.02	
57 Acetophenone	105	6.239	6.239	0.0	95	498057	4.78	
55 N-Nitrosopyrrolidine	100		6.247					
58 N-Nitrosomorpholine	56		6.279					
59 2-Toluidine	106		6.300					
60 Hexachloroethane	117	6.346	6.346	0.0	92	144583	4.65	
61 Nitrobenzene	77	6.394	6.394	0.0	82	399994	4.96	
62 N-Nitrosopiperidine	114		6.557					
63 Isophorone	82	6.598	6.598	0.0	99	649471	4.92	
65 2-Nitrophenol	139	6.672	6.673	-0.001	96	208917	4.53	
66 1,3,5-Trichlorobenzene	180	6.683	6.683	0.0	96	325187	4.86	
64 2,4-Dimethylphenol	107	6.689	6.689	0.0	89	454371	4.89	
69 Benzoic acid	122	6.737	6.753	-0.016	83	376017	10.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
68 Bis(2-chloroethoxy)methane	93	6.774	6.780	-0.006	98	438710	4.80	
67 o,o',o''-Triethylphosphorothioat	198		6.781					
71 2,4-Dichlorophenol	162	6.876	6.876	0.0	95	357542	4.90	
70 alpha,alpha-Dimethyl phenethylam	58		6.942					9
72 1,2,4-Trichlorobenzene	180	6.956	6.956	0.0	92	319900	4.72	
73 Naphthalene	128	7.031	7.031	0.0	95	998848	4.74	
74 4-Chloroaniline	127	7.063	7.063	0.0	84	466393	4.76	
75 2,6-Dichlorophenol	162		7.108					9
77 Hexachlorobutadiene	225	7.127	7.127	0.0	94	176774	4.92	
76 Hexachloropropene	213		7.140					
78 1,2,3-Trichlorobenzene	180	7.149	7.149	-0.001	92	303313	0	
79 Benzothiazole	135		7.163					9
80 Quinoline	129		7.227					9
83 Caprolactam	113	7.341	7.346	-0.005	80	96538	5.31	
81 N-Nitrosodi-n-butylamine	84		7.375					9
82 p-Phenylene diamine	108		7.397					
84 4-Chloro-3-methylphenol	107	7.453	7.459	-0.006	95	384652	4.97	
93 Safrole, Total	162		7.573					
85 2-Methylnaphthalene	142	7.619	7.619	0.0	89	632678	4.78	
86 1-Methylnaphthalene	142	7.705	7.705	0.0	92	616472	4.78	
87 1,2,3,5-Tetrachlorobenzene	216	7.748	7.748	0.0	95	314062	4.94	
88 Hexachlorocyclopentadiene	237	7.753	7.753	0.0	88	174818	4.87	
89 1,2,4,5-Tetrachlorobenzene	216		7.798					
225 Isosafrole Peak 1	162		7.819					
90 2,4,6-Trichlorophenol	196	7.849	7.849	0.0	92	253455	5.06	
91 2,4,5-Trichlorophenol	196	7.881	7.881	0.0	94	275802	4.98	
97 3,4-Dichloronitrobenzene	109		7.949					
94 2,4-Toluene diamine	121	7.994	7.994	0.0	97	200043	8.12	
96 1,2,3,4 -Tetrachlorobenzene	216	8.004	8.004	0.0	95	308845	0	
99 Phenyl ether	170		8.008					9
227 Isosafrole Peak 2	162		8.012					
95 1,1'-Biphenyl	154	8.010	8.015	-0.005	92	749531	4.74	
98 2-Chloronaphthalene	162	8.036	8.036	0.0	96	664928	4.85	
100 2-Nitroaniline	65	8.111	8.111	0.0	83	206873	4.73	
101 1,4-Naphthoquinone	158		8.220					
103 Dimethyl phthalate	163	8.250	8.256	-0.006	98	694431	4.97	
102 1,4-Dinitrobenzene	168		8.263					
105 2,6-Dinitrotoluene	165	8.309	8.309	0.0	95	148066	4.63	
104 1,3-Dinitrobenzene	168		8.327					
106 1,2-Dinitrobenzene	168	8.357	8.357	0.0	86	75182	4.64	
107 Acenaphthylene	152	8.395	8.395	0.0	92	985525	5.09	
108 3-Nitroaniline	138	8.454	8.454	0.0	95	202571	4.90	
110 Acenaphthene	153	8.539	8.539	0.0	91	594137	4.88	
109 2,4-Dinitrophenol	184	8.539	8.545	-0.006	68	171136	11.0	
111 4-Nitrophenol	109	8.566	8.571	-0.005	90	134657	4.87	
112 2,4-Dinitrotoluene	165	8.651	8.652	-0.001	87	209243	4.79	
114 Dibenzofuran	168	8.684	8.684	0.0	92	899687	4.87	
113 Pentachlorobenzene	250		8.691					9
115 2,3,5,6-Tetrachlorophenol	232	8.742	8.742	0.0	91	227870	4.89	
116 1-Naphthylamine	143		8.787					9
117 2,3,4,6-Tetrachlorophenol	232		8.819					
119 Diethyl phthalate	149	8.844	8.849	-0.005	97	648240	4.85	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
118 2-Naphthylamine	143		8.857					
121 4-Chlorophenyl phenyl ether	204	8.962	8.962	0.0	94	351620	4.88	
120 Thionazin	97		8.964					
123 4-Nitroaniline	138	8.972	8.972	0.0	82	199191	4.93	
124 Fluorene	166	8.978	8.978	0.0	87	717541	4.86	
126 4,6-Dinitro-2-methylphenol	198	8.994	8.999	-0.005	81	128745	5.08	
122 N-Nitro-o-toluidine	152		9.012					
130 N-Nitrosodiphenylamine	169	9.058	9.058	0.0	0	597575	5.00	
125 Tributyl phosphate	99		9.060					
131 Azobenzene	77	9.095	9.095	0.0	98	771310	4.78	
129 1,2-Diphenylhydrazine	77	9.095	9.095	0.0	0	771247	4.78	
128 Diphenylamine	169	9.058	9.103	-0.045	95	597575	4.86	
132 Sulfotepp	202		9.215					
133 1,3,5-Trinitrobenzene	213		9.295					
135 Phenacetin	108		9.343					9
228 Diallate Peak 1	86		9.343					
136 Phorate	121		9.354					9
137 4-Bromophenyl phenyl ether	248	9.379	9.379	0.0	62	201190	4.76	
230 Diallate Peak 2	86		9.418					
139 Hexachlorobenzene	284	9.443	9.443	0.0	90	205066	4.67	
140 Atrazine	200	9.491	9.491	0.0	91	137119	5.22	
138 Dimethoate	87		9.493					9
141 Pentachlorophenol	266	9.598	9.598	0.0	87	306646	9.30	
127 4-Aminobiphenyl	169		9.643					9
143 Pentachloronitrobenzene	237		9.659					9
142 Pronamide	173		9.675					
145 Dinoseb	211		9.787					
144 Disulfoton	88		9.793					9
146 Phenanthrene	178	9.796	9.796	0.0	96	1028425	4.71	
147 Anthracene	178	9.839	9.839	0.0	97	1024564	5.00	
149 Carbazole	167	9.962	9.962	0.0	82	977453	4.79	
148 DFTPP								
150 Methyl parathion	109		10.114					9
152 Diphenylsulfone	125		10.126					
151 Di-n-butyl phthalate	149	10.224	10.224	0.0	100	1064313	4.55	
153 Ethyl Parathion	97		10.440					9
154 4-Nitroquinoline-1-oxide	190		10.488					
155 Methapyrilene	58		10.536					9
156 Isodrin	66		10.729					9
157 Fluoranthene	202	10.807	10.807	0.0	98	1118838	4.85	
158 Benzidine	184	10.903	10.903	0.0	99	566708	4.66	
160 Pyrene	202	11.016	11.016	0.0	97	1207164	4.84	
164 4,4'-DDE	246		11.069					9
226 Aramite Peak 1	185		11.151					
229 Aramite Peak 2	185		11.221					
161 p-Dimethylamino azobenzene	225		11.328					
162 Chlorobenzilate	139		11.365					
163 4,4'-DDD	235		11.449					9
166 Butyl benzyl phthalate	149	11.615	11.615	0.0	96	434061	4.40	
165 Famphur	218		11.627					
167 3,3'-Dimethylbenzidine	212		11.681					9
168 4,4'-DDT	235		11.738					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
169 2-Acetylaminofluorene	181		11.970					
174 Hexabromobenzene	232		12.164					
170 3,3'-Dimethoxybenzidine	244	12.224	12.224	0.0	94	226388	4.82	
172 4,4'-Methylene bis(2-chloroanili	231	12.262	12.262	0.0	65	207557	4.56	
173 3,3'-Dichlorobenzidine	252	12.262	12.262	0.0	68	467704	4.71	
171 Bis(2-ethylhexyl) phthalate	149	12.294	12.294	0.0	96	646373	4.59	
175 Benzo[a]anthracene	228	12.315	12.315	0.0	92	1100148	4.90	
176 Chrysene	228	12.363	12.364	-0.001	92	994850	4.72	
177 6-Methylchrysene	242		12.752					
178 Di-n-octyl phthalate	149	13.203	13.203	0.0	99	903756	4.83	
180 Benzo[b]fluoranthene	252	13.818	13.818	0.0	94	1036994	4.82	
181 Benzo[k]fluoranthene	252	13.861	13.861	0.0	95	1086712	4.74	
179 7,12-Dimethylbenz(a)anthracene	256		13.895					
182 Benzo[a]pyrene	252	14.316	14.316	0.0	77	990700	4.37	
183 3-Methylcholanthrene	268		14.949					
184 Dibenz[a,j]acridine	279		15.400					
185 Dibenz[a,h]acridine	279		15.474					
186 Indeno[1,2,3-cd]pyrene	276	16.054	16.054	0.0	98	1059524	4.87	
187 Dibenz(a,h)anthracene	278	16.086	16.086	0.0	78	872154	4.88	
188 Benzo[g,h,i]perylene	276	16.498	16.503	-0.005	92	884657	4.74	
S 189 Methyl Phenols,Total	100				0		4.77	
S 92 Isosafrole	162		5.138					7
S 134 Diallate	86		6.337					7
S 159 Aramite, Total	185		7.806					7
T 193 Hydroquinone TIC	110	7.309	0.0	7.309	90	58810	0	
T 195 Hexamethylphosphoramide TIC	1		0.000					1
T 192 Decane TIC	142	3.062	3.050	0.012	33	68	0	
T 194 Octadecane (TIC)	254	15.685	6.300	9.385	72	6876	0	
T 231 2,3,7,8-TCDD	322		8.700					1
T 197 Hexachlorophene TIC	198		9.000					3
T 237 Tris(2,3-dibromopropyl)phosphate	201	10.780	10.600	0.180	0	308	0	
T 196 Kepone TIC	272		12.250					1

QC Flag Legend

Processing Flags
1 - Missing Peaks
3 - Failed RT Window Test
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

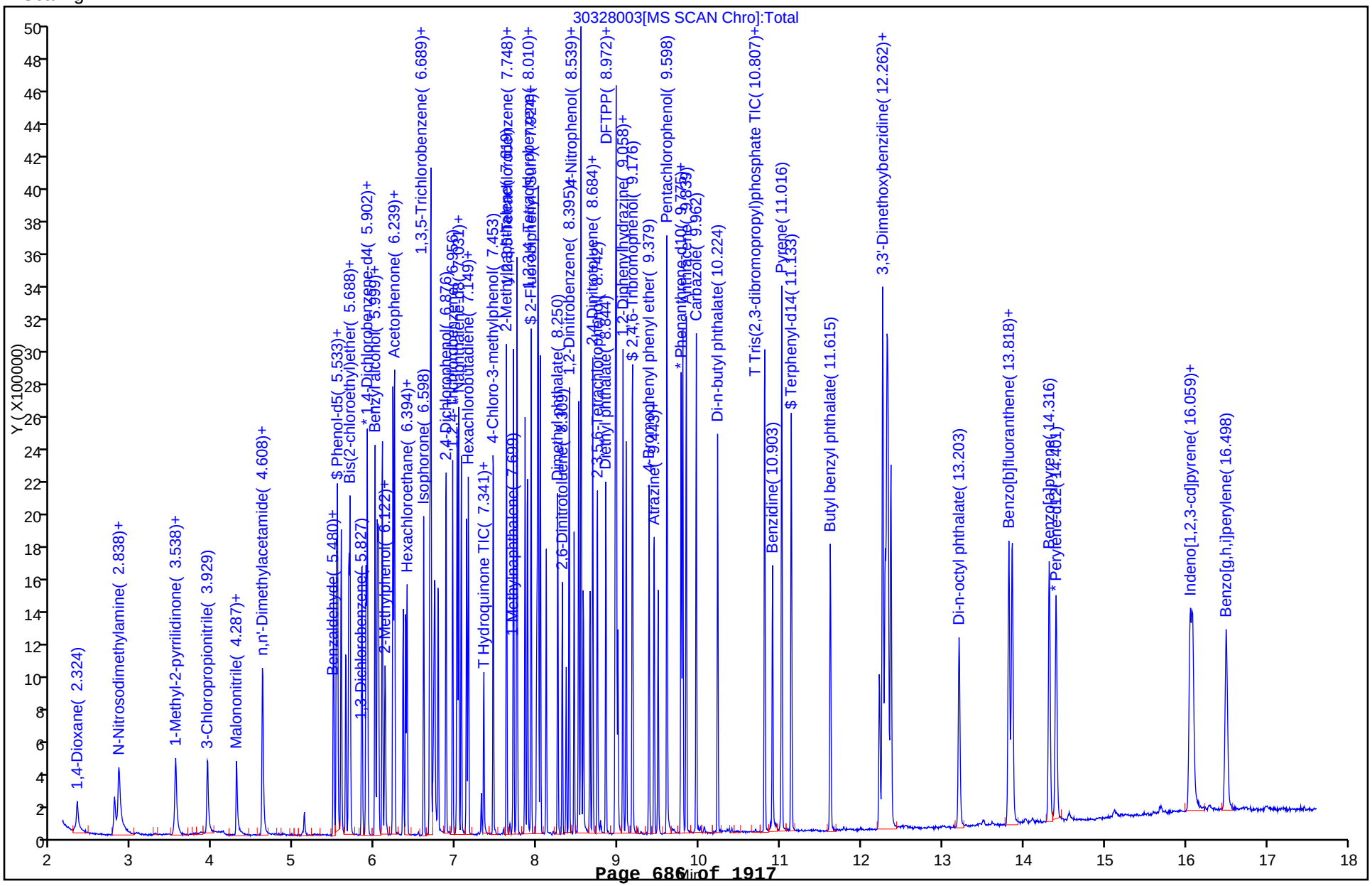
Report Date: 29-Mar-2013 09:58:59 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP7\20130328-18338.b\30328003.D

Injection Date:	28-Mar-2013 11:42:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79745	Lims Sample ID:	3
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.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-79745/7

Matrix: Water | Lab File ID: 30328007.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 03/28/2013 13:17

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 79745 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	4.70		0.00020	0.00010	0.00010
208-96-8	Acenaphthylene	4.85		0.00020	0.00010	0.00010
120-12-7	Anthracene	4.91		0.00020	0.00010	0.00010
56-55-3	Benzo[a]anthracene	4.83		0.00020	0.00010	0.00010
50-32-8	Benzo[a]pyrene	4.27		0.00020	0.00010	0.00010
205-99-2	Benzo[b]fluoranthene	4.67		0.00020	0.00010	0.00010
191-24-2	Benzo[g,h,i]perylene	4.81		0.00020	0.00010	0.00010
65-85-0	Benzoic acid	10.5		0.025	0.010	0.010
207-08-9	Benzo[k]fluoranthene	4.92		0.00020	0.00010	0.00010
100-51-6	Benzyl alcohol	4.73		0.0050	0.00080	0.00038
111-91-1	Bis(2-chloroethoxy)methane	4.85		0.0010	0.00080	0.00032
111-44-4	Bis(2-chloroethyl)ether	4.63		0.0010	0.00010	0.00010
108-60-1	bis (2-chloroisopropyl) ether	4.55		0.0010	0.00080	0.00040
117-81-7	Bis(2-ethylhexyl) phthalate	4.39		0.0020	0.00080	0.00080
101-55-3	4-Bromophenyl phenyl ether	4.72		0.0020	0.00080	0.00080
85-68-7	Butyl benzyl phthalate	4.28		0.0010	0.00080	0.00080
86-74-8	Carbazole	4.64		0.0010	0.00080	0.00028
106-47-8	4-Chloroaniline	4.73		0.0020	0.00080	0.00080
59-50-7	4-Chloro-3-methylphenol	4.95		0.0020	0.00080	0.00080
91-58-7	2-Chloronaphthalene	4.62		0.0010	0.00010	0.00010
95-57-8	2-Chlorophenol	4.85		0.0010	0.00080	0.00029
7005-72-3	4-Chlorophenyl phenyl ether	4.79		0.0020	0.00080	0.00030
218-01-9	Chrysene	4.72		0.00020	0.00010	0.00010
53-70-3	Dibenz(a,h)anthracene	4.90		0.00020	0.00010	0.00010
132-64-9	Dibenzofuran	4.61		0.0010	0.00010	0.00010
95-50-1	1,2-Dichlorobenzene	4.76		0.0010	0.00080	0.00029
541-73-1	1,3-Dichlorobenzene	4.73		0.0010	0.00080	0.00080
106-46-7	1,4-Dichlorobenzene	4.70		0.0010	0.00080	0.00034
91-94-1	3,3'-Dichlorobenzidine	4.64		0.0050	0.00080	0.00037
120-83-2	2,4-Dichlorophenol	4.90		0.0020	0.00080	0.00080
84-66-2	Diethyl phthalate	4.74		0.0010	0.00080	0.00060
105-67-9	2,4-Dimethylphenol	5.00		0.0020	0.00080	0.00080
131-11-3	Dimethyl phthalate	4.69		0.0010	0.00080	0.00029
84-74-2	Di-n-butyl phthalate	4.39		0.0010	0.00080	0.00067

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-79745/7

Matrix: Water | Lab File ID: 30328007.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 03/28/2013 13:17

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 79745 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	5.23		0.0050	0.0024	0.0024
51-28-5	2,4-Dinitrophenol	10.2		0.0050	0.0024	0.0024
121-14-2	2,4-Dinitrotoluene	4.54		0.0050	0.00080	0.00027
606-20-2	2,6-Dinitrotoluene	4.42		0.0050	0.00080	0.00080
117-84-0	Di-n-octyl phthalate	4.57		0.0010	0.00080	0.00080
206-44-0	Fluoranthene	4.73		0.00020	0.00010	0.00010
86-73-7	Fluorene	4.74		0.00020	0.00010	0.00010
118-74-1	Hexachlorobenzene	4.70		0.00020	0.00010	0.00010
87-68-3	Hexachlorobutadiene	4.77		0.0010	0.00080	0.00027
77-47-4	Hexachlorocyclopentadiene	4.68		0.010	0.00080	0.00080
67-72-1	Hexachloroethane	4.83		0.0010	0.00080	0.00080
193-39-5	Indeno[1,2,3-cd]pyrene	4.89		0.00020	0.00010	0.00010
78-59-1	Isophorone	4.87		0.0010	0.00080	0.00027
91-57-6	2-Methylnaphthalene	4.73		0.00020	0.00010	0.00010
95-48-7	2-Methylphenol	4.76		0.0010	0.00080	0.00080
15831-10-4	3 & 4 Methylphenol	4.79		0.0020	0.00080	0.00080
91-20-3	Naphthalene	4.73		0.00020	0.00010	0.00010
88-74-4	2-Nitroaniline	4.45		0.0020	0.00080	0.00080
99-09-2	3-Nitroaniline	4.51		0.0020	0.00080	0.00028
100-01-6	4-Nitroaniline	4.89		0.0020	0.00080	0.00080
98-95-3	Nitrobenzene	4.86		0.0010	0.00010	0.000040
88-75-5	2-Nitrophenol	4.57		0.0020	0.00080	0.00028
100-02-7	4-Nitrophenol	4.64		0.0050	0.0024	0.0024
621-64-7	N-Nitrosodi-n-propylamine	4.84		0.0010	0.00080	0.00080
86-30-6	N-Nitrosodiphenylamine	0.00080	U ^	0.0010	0.00080	0.00031
87-86-5	Pentachlorophenol	9.12		0.0050	0.0024	0.0024
85-01-8	Phenanthrene	4.62		0.00020	0.00010	0.00010
108-95-2	Phenol	4.77		0.0010	0.00080	0.00060
129-00-0	Pyrene	4.83		0.00020	0.00010	0.00010
120-82-1	1,2,4-Trichlorobenzene	4.82		0.0010	0.00080	0.00028
95-95-4	2,4,5-Trichlorophenol	4.90		0.0050	0.00080	0.00030
88-06-2	2,4,6-Trichlorophenol	4.94		0.0050	0.00080	0.00080

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-79745/7

Matrix: Water | Lab File ID: 30328007.D

Analysis Method: 8270C/DoD | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 03/28/2013 13:17

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 79745 | Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	92		70-130
367-12-4	2-Fluorophenol (Surr)	94		50-150
4165-60-0	Nitrobenzene-d5 (Surr)	96		50-150
4165-62-2	Phenol-d5 (Surr)	97		50-150
1718-51-0	Terphenyl-d14 (Surr)	95		50-150
118-79-6	2,4,6-Tribromophenol (Surr)	91		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP7\20130328-18338.b\30328007.D
Lims ID: mrl qccl Client ID:
Inject. Date: 28-Mar-2013 13:17:30 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018338-007
Misc. Info.: MRL QCCL
Operator: 001710 Instrument ID: A4HP7
Injection Vol: 1.0 ul ALS Bottle#: 3
Lims Batch ID: 79745 Lims Sample ID: 7
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP7\20130328-18338.b\8270_hp7.m
Last Update: 29-Mar-2013 09:59:45 Calib Date: 26-Mar-2013 17:03:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP7\20130326-18258.b\30326020.D
Limit Group: MSS 8270 DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: 5% phenyl Column Dia: 0.18 mm
Process Host: XAWRK008

First Level Reviewer: gruberj Date: 28-Mar-2013 13:48:11

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.886	5.886	0.0	97	238405	4.00	
* 2 Naphthalene-d8	136	7.009	7.010	-0.001	100	928853	4.00	
* 3 Acenaphthene-d10	164	8.512	8.512	0.0	91	561602	4.00	
* 4 Phenanthrene-d10	188	9.775	9.775	0.0	97	900507	4.00	
* 5 Chrysene-d12	240	12.331	12.326	0.005	95	1002557	4.00	
* 6 Perylene-d12	264	14.401	14.401	0.0	97	823447	4.00	
$ 7 2-Fluorophenol	112	4.613	4.613	0.0	92	444205	4.69	
$ 8 Phenol-d5	99	5.522	5.523	-0.001	88	604528	4.83	
$ 9 Nitrobenzene-d5	82	6.378	6.378	0.0	85	398530	4.81	
$ 10 2-Fluorobiphenyl (Surr)	172	7.924	7.924	0.0	99	810890	4.62	
$ 11 2,4,6-Tribromophenol	330	9.176	9.176	0.0	89	125673	4.55	
$ 12 Terphenyl-d14	244	11.133	11.133	0.0	99	794047	4.76	
247 1-Chloronaphthalene	162		0.000					
249 4-Chlorophenol TIC	1		0.000					
246 Total Cresols	1		0.000					
23 Octachlorocyclopentene	1		0.000					
243 3-(1,1-Dimethylethyl Phenol) TIC	1		0.000					
242 Triphenyl Phosphate TIC	1		0.000					
238 Trimethyl phosphate TIC	1		0.000					
240 3-isopropylphenol TIC	1		0.000					
22 3-Methylcatechol	1		0.000					
14 4-Methylcatechol	1		0.000					
239 2,3,7,8 TCDF TIC	1		0.000					
13 Bis(2-hydroxyphenyl)methane	1		0.000					
20 2,5-Dichlorophenol	1		0.000					
248 Hexadecane	57		0.000					
19 Bis(4-hydroxyphenyl)methane	1		0.000					
245 n-Octadecane	57		0.000					
236 4-isopropylphenol TIC	1		0.000					
241 Tricresyl phosphate TIC	1		0.000					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
244 n-Decane	57		0.000					
16 2,3-Dichlorophenol	1		0.000					
21 Octachlorostyrene	1		0.000					
15 Catechol	1		0.000					
234 2-Isopropylphenol TIC	1		0.000					
18 Dimethylformamide	73		2.056					
24 1,4-Dioxane	88	2.329	2.324	0.005	89	177572	4.43	M
25 N-Nitrosodimethylamine	74	2.789	2.784	0.005	88	242986	4.90	
26 Pyridine	79	2.843	2.838	0.005	97	438236	4.66	
232 1-Methyl-2-pyrrilidinone	99	3.543	3.533	0.010	0	64246	0	
27 Ethyl methacrylate	69	3.543	3.538	0.005	87	285174	4.59	
28 3-Chloropropionitrile	54	3.934	3.934	0.0	86	204762	4.63	
30 2-Picoline	93		3.968					
31 N-Nitrosomethylethylamine	88		4.112					9
32 Malononitrile	66	4.292	4.292	0.0	95	406830	4.83	
33 Acrylamide	71		4.312					
34 Methyl methanesulfonate	80		4.460					
29 3-Picoline	93		4.519					9
233 n,n'-Dimethylacetamide	44	4.549	4.546	0.003	0	680	0	
35 N-Nitrosodiethylamine	102		4.883					
36 Ethyl methanesulfonate	79		5.182					9
37 2-Methylcyclohexanone	68	5.399	5.396	0.003	1	325	0	
38 3-Methylcyclohexanone	69	5.421	5.434	-0.013	1	185	0	
42 Phenylmercaptan	110		5.440					9
39 4-Methylcyclohexanone	55	5.533	5.482	0.051	13	49986	0	
40 Benzaldehyde	77	5.485	5.485	0.0	96	313207	4.93	
41 Phenol	94	5.533	5.539	-0.006	98	630998	4.77	
43 Aniline	93	5.581	5.581	0.0	98	705528	4.71	
44 Bis(2-chloroethyl)ether	93	5.640	5.640	0.0	98	391671	4.63	
45 Pentachloroethane	167		5.658					
46 2-Chlorophenol	128	5.688	5.688	0.0	96	496925	4.85	
47 1,3-Dichlorobenzene	146	5.838	5.838	0.0	95	421252	4.73	
48 1,4-Dichlorobenzene	146	5.902	5.902	0.0	91	520155	4.70	
49 Benzyl alcohol	108	5.999	5.999	-0.001	92	302586	4.73	
53 Indene	115		6.034					
50 1,2-Dichlorobenzene	146	6.041	6.041	0.0	94	404538	4.76	
51 2-Methylphenol	108	6.089	6.090	-0.001	96	450281	4.76	
52 2,2'-oxybis[1-chloropropane]	45	6.122	6.122	0.0	90	403603	4.55	
191 3 & 4 Methylphenol	108	6.218	6.218	0.0	97	474436	4.79	
56 N-Nitrosodi-n-propylamine	70	6.234	6.234	0.0	85	261621	4.84	
57 Acetophenone	105	6.239	6.239	0.0	95	543567	4.83	
55 N-Nitrosopyrrolidine	100		6.247					9
58 N-Nitrosomorpholine	56		6.279					
59 2-Toluidine	106		6.300					
60 Hexachloroethane	117	6.346	6.346	0.0	91	162158	4.83	
61 Nitrobenzene	77	6.394	6.394	0.0	84	423029	4.86	
62 N-Nitrosopiperidine	114		6.557					
63 Isophorone	82	6.598	6.598	0.0	99	694655	4.87	
65 2-Nitrophenol	139	6.672	6.673	-0.001	95	227640	4.57	
66 1,3,5-Trichlorobenzene	180	6.683	6.683	0.0	95	365706	5.06	
64 2,4-Dimethylphenol	107	6.688	6.689	-0.001	94	501904	5.00	
69 Benzoic acid	122	6.737	6.753	-0.016	84	420382	10.5	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
68 Bis(2-chloroethoxy)methane	93	6.779	6.780	-0.001	96	477877	4.85	
67 o,o',o''-Triethylphosphorothioat	198		6.781					
71 2,4-Dichlorophenol	162	6.876	6.876	0.0	94	385598	4.90	
70 alpha,alpha-Dimethyl phenethylam	58		6.942					9
72 1,2,4-Trichlorobenzene	180	6.956	6.956	0.0	92	352784	4.82	
73 Naphthalene	128	7.031	7.031	0.0	95	1075752	4.73	
74 4-Chloroaniline	127	7.063	7.063	0.0	86	500164	4.73	
75 2,6-Dichlorophenol	162		7.108					9
77 Hexachlorobutadiene	225	7.127	7.127	0.0	95	185054	4.77	
76 Hexachloropropene	213		7.140					
78 1,2,3-Trichlorobenzene	180	7.148	7.149	-0.001	92	327661	0	
79 Benzothiazole	135		7.163					9
80 Quinoline	129		7.227					
83 Caprolactam	113	7.341	7.346	-0.005	79	106483	5.43	
81 N-Nitrosodi-n-butylamine	84		7.375					9
82 p-Phenylene diamine	108		7.397					
84 4-Chloro-3-methylphenol	107	7.459	7.459	0.0	96	413451	4.95	
93 Safrole, Total	162		7.573					
85 2-Methylnaphthalene	142	7.619	7.619	0.0	91	675788	4.73	
86 1-Methylnaphthalene	142	7.705	7.705	0.0	89	652824	4.69	
87 1,2,3,5-Tetrachlorobenzene	216	7.748	7.748	0.0	94	336766	4.71	
88 Hexachlorocyclopentadiene	237	7.753	7.753	0.0	90	188532	4.68	
89 1,2,4,5-Tetrachlorobenzene	216		7.798					
225 Isosafrole Peak 1	162		7.819					
90 2,4,6-Trichlorophenol	196	7.849	7.849	0.0	92	278462	4.94	
91 2,4,5-Trichlorophenol	196	7.881	7.881	0.0	94	305209	4.90	
97 3,4-Dichloronitrobenzene	109		7.949					
94 2,4-Toluene diamine	121	7.994	7.994	0.0	97	196932	7.44	
96 1,2,3,4 -Tetrachlorobenzene	216	8.004	8.004	0.0	94	332080	0	
99 Phenyl ether	170		8.008					9
227 Isosafrole Peak 2	162		8.012					
95 1,1'-Biphenyl	154	8.015	8.015	0.0	92	829466	4.67	
98 2-Chloronaphthalene	162	8.036	8.036	0.0	95	713017	4.62	
100 2-Nitroaniline	65	8.111	8.111	0.0	83	218362	4.45	
101 1,4-Naphthoquinone	158		8.220					
103 Dimethyl phthalate	163	8.250	8.256	-0.006	98	737772	4.69	
102 1,4-Dinitrobenzene	168		8.263					
105 2,6-Dinitrotoluene	165	8.309	8.309	0.0	92	158023	4.42	
104 1,3-Dinitrobenzene	168		8.327					
106 1,2-Dinitrobenzene	168	8.357	8.357	0.0	85	81601	4.49	
107 Acenaphthylene	152	8.395	8.395	0.0	91	1056066	4.85	
108 3-Nitroaniline	138	8.454	8.454	0.0	95	208271	4.51	
110 Acenaphthene	153	8.539	8.539	0.0	89	643670	4.70	
109 2,4-Dinitrophenol	184	8.544	8.545	-0.001	63	173826	10.2	
111 4-Nitrophenol	109	8.571	8.571	0.0	91	143243	4.64	
112 2,4-Dinitrotoluene	165	8.651	8.652	-0.001	91	222219	4.54	
114 Dibenzofuran	168	8.684	8.684	0.0	90	957794	4.61	
113 Pentachlorobenzene	250		8.691					9
115 2,3,5,6-Tetrachlorophenol	232	8.742	8.742	0.0	93	237040	4.55	
116 1-Naphthylamine	143		8.787					9
117 2,3,4,6-Tetrachlorophenol	232		8.819					
119 Diethyl phthalate	149	8.844	8.849	-0.005	97	711510	4.74	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
118 2-Naphthylamine	143		8.857					
121 4-Chlorophenyl phenyl ether	204	8.962	8.962	0.0	94	388822	4.79	
120 Thionazin	97		8.964					9
123 4-Nitroaniline	138	8.972	8.972	0.0	80	221737	4.89	
124 Fluorene	166	8.978	8.978	0.0	91	787476	4.74	
126 4,6-Dinitro-2-methylphenol	198	8.999	8.999	0.0	78	148134	5.23	
122 N-Nitro-o-toluidine	152		9.012					
130 N-Nitrosodiphenylamine	169		9.058					
125 Tributyl phosphate	99		9.060					
131 Azobenzene	77	9.095	9.095	0.0	98	845252	4.75	
129 1,2-Diphenylhydrazine	77		9.095					
128 Diphenylamine	169	9.058	9.103	-0.045	91	637342	4.70	
132 Sulfotepp	202	9.170	9.215	-0.045	77	86103	4.91	
133 1,3,5-Trinitrobenzene	213		9.295					
135 Phenacetin	108		9.343					9
228 Diallate Peak 1	86		9.343					1
136 Phorate	121		9.354					9
137 4-Bromophenyl phenyl ether	248	9.379	9.379	0.0	64	219770	4.72	
230 Diallate Peak 2	86		9.418					
139 Hexachlorobenzene	284	9.443	9.443	0.0	90	227664	4.70	
140 Atrazine	200	9.491	9.491	0.0	91	139376	4.81	
138 Dimethoate	87		9.493					9
141 Pentachlorophenol	266	9.598	9.598	0.0	85	331214	9.12	
127 4-Aminobiphenyl	169		9.643					9
143 Pentachloronitrobenzene	237		9.659					9
142 Pronamide	173		9.675					
145 Dinoseb	211		9.787					
144 Disulfoton	88		9.793					
146 Phenanthrene	178	9.796	9.796	0.0	96	1113668	4.62	
147 Anthracene	178	9.839	9.839	0.0	97	1110098	4.91	
149 Carbazole	167	9.962	9.962	0.0	82	1044663	4.64	
148 DFTPP								
150 Methyl parathion	109		10.114					
152 Diphenylsulfone	125		10.126					
151 Di-n-butyl phthalate	149	10.224	10.224	0.0	100	1131466	4.39	
153 Ethyl Parathion	97		10.440					9
154 4-Nitroquinoline-1-oxide	190		10.488					9
155 Methapyrilene	58		10.536					
156 Isodrin	66		10.729					9
157 Fluoranthene	202	10.807	10.807	0.0	97	1203306	4.73	
158 Benzidine	184	10.903	10.903	0.0	99	579453	4.45	
160 Pyrene	202	11.016	11.016	0.0	97	1294947	4.83	
164 4,4'-DDE	246		11.069					9
226 Aramite Peak 1	185		11.151					
229 Aramite Peak 2	185		11.221					
161 p-Dimethylamino azobenzene	225		11.328					
162 Chlorobenzilate	139		11.365					9
163 4,4'-DDD	235		11.449					9
166 Butyl benzyl phthalate	149	11.615	11.615	0.0	97	453529	4.28	
165 Famphur	218		11.627					
167 3,3'-Dimethylbenzidine	212		11.681					
168 4,4'-DDT	235		11.738					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
169 2-Acetylaminofluorene	181		11.970					
174 Hexabromobenzene	232		12.164					
170 3,3'-Dimethoxybenzidine	244	12.224	12.224	0.0	94	222918	4.54	
172 4,4'-Methylene bis(2-chloroanili	231	12.262	12.262	0.0	67	223318	4.56	
173 3,3'-Dichlorobenzidine	252	12.262	12.262	0.0	71	495497	4.64	
171 Bis(2-ethylhexyl) phthalate	149	12.294	12.294	0.0	97	663463	4.39	
175 Benzo[a]anthracene	228	12.315	12.315	0.0	98	1167674	4.83	
176 Chrysene	228	12.363	12.364	-0.001	94	1070603	4.72	
177 6-Methylchrysene	242		12.752					
178 Di-n-octyl phthalate	149	13.203	13.203	0.0	99	913881	4.57	
180 Benzo[b]fluoranthene	252	13.818	13.818	0.0	94	1082725	4.67	
181 Benzo[k]fluoranthene	252	13.861	13.861	0.0	99	1215175	4.92	
179 7,12-Dimethylbenz(a)anthracene	256		13.895					
182 Benzo[a]pyrene	252	14.321	14.316	0.005	75	1043057	4.27	
183 3-Methylcholanthrene	268		14.949					
184 Dibenz[a,j]acridine	279		15.400					
185 Dibenz[a,h]acridine	279		15.474					
186 Indeno[1,2,3-cd]pyrene	276	16.054	16.054	0.0	95	1144423	4.89	
187 Dibenz(a,h)anthracene	278	16.086	16.086	0.0	77	943296	4.90	
188 Benzo[g,h,i]perylene	276	16.509	16.503	0.006	95	967261	4.81	
S 189 Methyl Phenols,Total	100				0		4.76	
S 92 Isosafrole	162		5.138					7
S 134 Diallate	86		6.337					7
S 159 Aramite, Total	185		7.806					7
T 193 Hydroquinone TIC	110	7.309	0.0	7.309	80	56532	0	
T 195 Hexamethylphosphoramide TIC	1		0.000					1
T 192 Decane TIC	142	2.928	3.050	-0.122	1	312	0	
T 194 Octadecane (TIC)	254	14.027	6.300	7.727	72	19830	0	
T 231 2,3,7,8-TCDD	322		8.700					1
T 197 Hexachlorophene TIC	198		9.000					3
T 237 Tris(2,3-dibromopropyl)phosphate	201	10.807	10.600	0.207	0	169763	0	
T 196 Kepone TIC	272		12.250					3

QC Flag Legend

Processing Flags
1 - Missing Peaks
3 - Failed RT Window Test
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

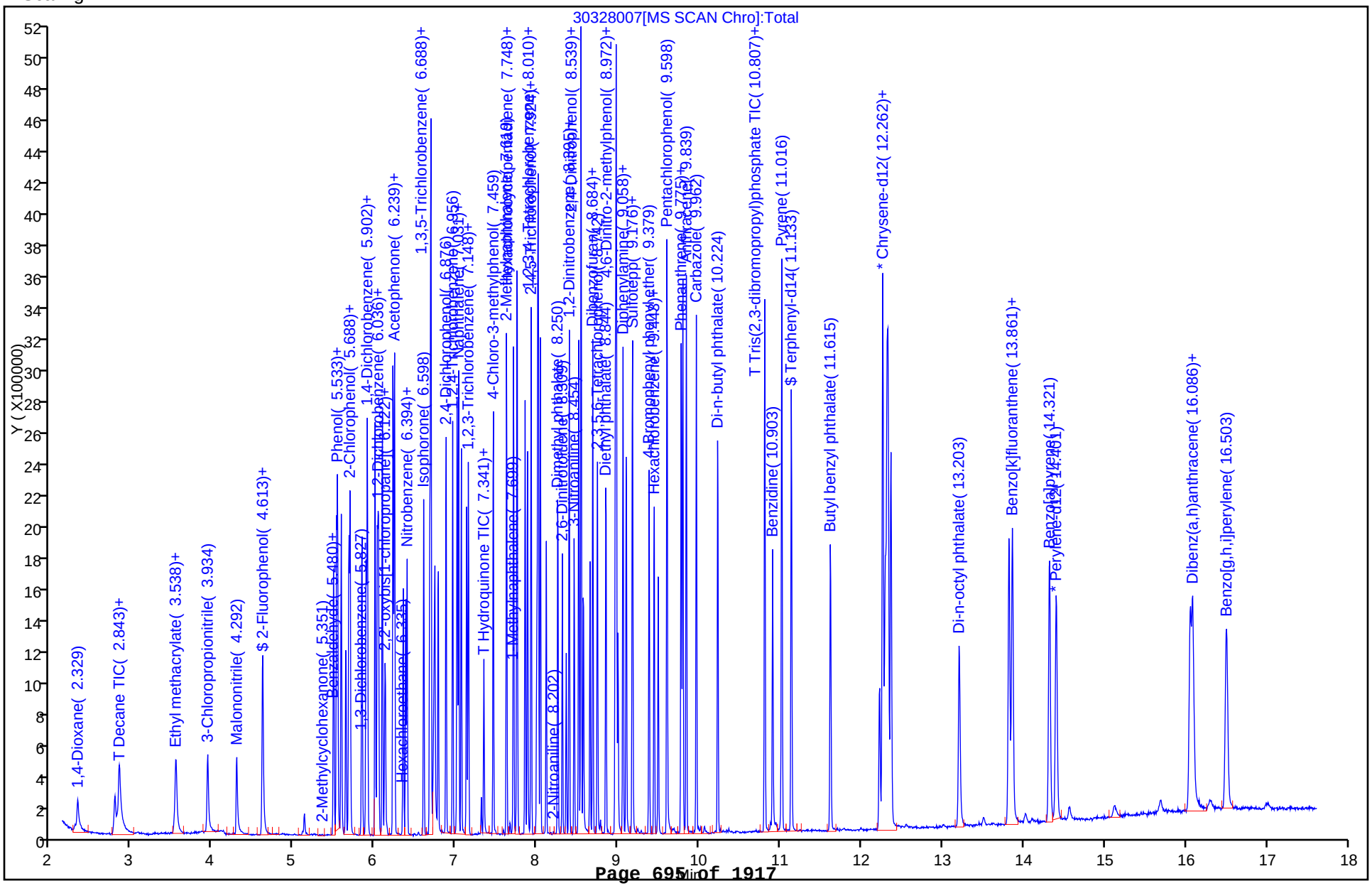
Report Date: 29-Mar-2013 09:59:46 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP7\20130328-18338.b\30328007.D

Injection Date:	28-Mar-2013 13:17:30	Limit Group:	MSS 8270 DOD ICAL
Client ID:		Instrument ID:	A4HP7
Lims Batch ID:	79745	Lims Sample ID:	7
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.: 240-21987-1

SDG No.:

Instrument ID: A4HP7 Start Date: 03/26/2013 09:31

Analysis Batch Number: 79445 End Date: 03/26/2013 17:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-79445/1		03/26/2013 09:31	1	30326001.D	RXI-5SILMS 0.45(mm)
STD5 240-79445/2 IC		03/26/2013 09:55	1	30326002.D	RXI-5SILMS 0.45(mm)
STD4 240-79445/3 IC		03/26/2013 10:18	1	30326003.D	RXI-5SILMS 0.45(mm)
STD3 240-79445/4 IC		03/26/2013 10:42	1	30326004.D	RXI-5SILMS 0.45(mm)
STD2 240-79445/5 IC		03/26/2013 11:06	1	30326005.D	RXI-5SILMS 0.45(mm)
STD1 240-79445/6 IC		03/26/2013 11:30	1	30326006.D	RXI-5SILMS 0.45(mm)
STD9 240-79445/7 IC		03/26/2013 11:53	1	30326007.D	RXI-5SILMS 0.45(mm)
STD8 240-79445/8 IC		03/26/2013 12:17	1	30326008.D	RXI-5SILMS 0.45(mm)
STD7 240-79445/9 IC		03/26/2013 12:41	1	30326009.D	RXI-5SILMS 0.45(mm)
STD6 240-79445/10 ICIS		03/26/2013 13:05	1	30326010.D	RXI-5SILMS 0.45(mm)
ICV 240-79445/12		03/26/2013 13:52	1	30326012.D	RXI-5SILMS 0.45(mm)
STD9 240-79445/13 IC		03/26/2013 14:16	1		RXI-5SILMS 0.45(mm)
STD8 240-79445/14 IC		03/26/2013 14:40	1		RXI-5SILMS 0.45(mm)
STD7 240-79445/15 IC		03/26/2013 15:04	1		RXI-5SILMS 0.45(mm)
STD6 240-79445/16 IC		03/26/2013 15:28	1		RXI-5SILMS 0.45(mm)
STD5 240-79445/17 IC		03/26/2013 15:51	1		RXI-5SILMS 0.45(mm)
STD4 240-79445/18 IC		03/26/2013 16:15	1		RXI-5SILMS 0.45(mm)
STD3 240-79445/19 IC		03/26/2013 16:39	1		RXI-5SILMS 0.45(mm)
STD2 240-79445/20 IC		03/26/2013 17:03	1		RXI-5SILMS 0.45(mm)
ICV 240-79445/21		03/26/2013 17:27	1		RXI-5SILMS 0.45(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: A4HP7 Start Date: 03/28/2013 10:54

Analysis Batch Number: 79745 End Date: 03/28/2013 13:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-79745/1		03/28/2013 10:54	1	30328001.D	RXI-5SILMS 0.45(mm)
CCV 240-79745/2		03/28/2013 11:18	1	30328002.D	RXI-5SILMS 0.45(mm)
MRL 240-79745/3		03/28/2013 11:42	1	30328003.D	RXI-5SILMS 0.45(mm)
MB 240-78456/17-A		03/28/2013 12:06	1	30328004.D	RXI-5SILMS 0.45(mm)
LCS 240-78456/18-A		03/28/2013 12:29	1	30328005.D	RXI-5SILMS 0.45(mm)
240-21987-1	079-0007-0001-SOURCEWATER	03/28/2013 12:53	1	30328006.D	RXI-5SILMS 0.45(mm)
MRL 240-79745/7		03/28/2013 13:17	1	30328007.D	RXI-5SILMS 0.45(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Batch Number: 78456 Batch Start Date: 03/15/13 12:00 Batch Analyst: Cerne, Amanda

Batch Method: 3520C Batch End Date: 03/16/13 06:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	EXBNALCS1 00034	EXBNASURRW 00023
240-21987-P-1	079-0007-0001-SOURCEWATER	3520C, 8270C/DoD	T	990 mL	2 mL	7	2		1 mL
MB 240-78456/17		3520C, 8270C/DoD		1000 mL	2 mL	7	2		1 mL
LCS 240-78456/18		3520C, 8270C/DoD		1000 mL	2 mL	7	2	1 mL	1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	EXRESTEKSPKW 00019					
240-21987-P-1	079-0007-0001-SOURCEWATER	3520C, 8270C/DoD	T						
MB 240-78456/17		3520C, 8270C/DoD							
LCS 240-78456/18		3520C, 8270C/DoD		1 mL					

Batch Notes	
Acid used for pH adjust Lot #	711898
Person's name who did the concentration	lah/cc/ac
Na2SO4 Lot Number	857424
Prep Solvent Lot #	883348

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 GRO DOD

Gasoline Range Organics (GC) by Method 8015B DOD

FORM II
GC VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Matrix: Water Level: Low

GC Column (2):

Client Sample ID	Lab Sample ID	TFT #
079-0007-0001-SOUR CEWATER	240-21987-1	73
079-0009-0001-TB TRIP BLANK	240-21987-3	61
	MB 240-79100/38	50
	LCS 240-79100/39	78
079-0007-0001-SOUR CEWATER MS	240-21987-1 MS	78
079-0007-0001-SOUR CEWATER MSD	240-21987-1 MSD	81

	QC LIMITS
TFT = Trifluorotoluene (Surr)	10-150

Column to be used to flag recovery values

FORM II 8015B_GRO/DOD

FORM II
GC VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Matrix: Water Level: Low

GC Column (2): _____ _____

Client Sample ID	Lab Sample ID	TFT	#
	MRL 240-79100/37	71	
	MRL 240-79100/45	67	^

	QC LIMITS
TFT = Trifluorotoluene (Surr)	70-130

Column to be used to flag recovery values

FORM II 8015B_GRO/DOD

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YF032239.D

Lab ID: LCS 240-79100/39 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
C6-C12	800	761	95	72-140	

Column to be used to flag recovery and RPD values

FORM III 8015B_GRO/DOD

FORM III
GC VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YF032237.D

Lab ID: MRL 240-79100/37 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MRL CONCENTRATION (ug/L)	MRL % REC	QC LIMITS REC	#
C6-C12	100	153	153	70-130	^

Column to be used to flag recovery and RPD values

FORM III 8015B_GRO/DOD

FORM III
GC VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YF032245.D

Lab ID: MRL 240-79100/45 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MRL CONCENTRATION (ug/L)	MRL % REC	QC LIMITS REC	#
C6-C12	100	151	151	70-130	^

Column to be used to flag recovery and RPD values

FORM III 8015B_GRO/DOD

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YF032241.D

Lab ID: 240-21987-1 MS Client ID: 079-0007-0001-SOURCEWATER MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
C6-C12	800	74 J	767	87	63-143	

Column to be used to flag recovery and RPD values

FORM III 8015B_GRO/DOD

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YF032242.D

Lab ID: 240-21987-1 MSD Client ID: 079-0007-0001-SOURCEWATER MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
C6-C12	800	751	85	2	20	63-143	

Column to be used to flag recovery and RPD values

FORM III 8015B_GRO/DOD

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab File ID: YF032238.D Lab Sample ID: MB 240-79100/38

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: YPID Date Analyzed: 03/23/2013 08:14

GC Column: RTX-VRX ID: 0.45(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-79100/39	YF032239.D	03/23/2013 08:51
079-0007-0001-SOURCEWATER	240-21987-1	YF032240.D	03/23/2013 09:27
079-0007-0001-SOURCEWATER MS	240-21987-1 MS	YF032241.D	03/23/2013 10:03
079-0007-0001-SOURCEWATER MSD	240-21987-1 MSD	YF032242.D	03/23/2013 10:40
079-0009-0001-TB TRIP BLANK	240-21987-3	YF032243.D	03/23/2013 11:16

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Sample No.: CCV 240-79100/5 Date Analyzed: 03/22/2013 11:38

Instrument ID: YPID GC Column: RTX-VRX ID: 0.45(mm)

Lab File ID (Standard): YF032205.D Heated Purge: (Y/N) N

Calibration ID: 13005

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TFT		
				RT #		
CONTINUING CALIBRATION SURROGATE				9.79		
UPPER LIMIT				9.89		
LOWER LIMIT				9.69		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-79100/5 CCVRT		03/22/2013 11:38	YF032205.D	9.79		
CCV 240-79100/36		03/23/2013 07:02	YF032236.D	9.77		
MB 240-79100/38		03/23/2013 08:14	YF032238.D	9.76		
LCS 240-79100/39		03/23/2013 08:51	YF032239.D	9.76		
240-21987-1	079-0007-0001-SOURCEWATER	03/23/2013 09:27	YF032240.D	9.76		
240-21987-1 MS	079-0007-0001-SOURCEWATER MS	03/23/2013 10:03	YF032241.D	9.76		
240-21987-1 MSD	079-0007-0001-SOURCEWATER MSD	03/23/2013 10:40	YF032242.D	9.76		
240-21987-3	079-0009-0001-TB TRIP BLANK	03/23/2013 11:16	YF032243.D	9.76		
CCV 240-79100/44		03/23/2013 11:52	YF032244.D	9.76		

TFT = Trifluorotoluene (Surr)

TFT RT Limit = ± 0.1 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8015B_GRO/DOD

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: 079-0007-0001-SOURCEWATER Lab Sample ID: 240-21987-1

Matrix: Water Lab File ID: YF032240.D

Analysis Method: 8015B_GRO/DOD Date Collected: 03/14/2013 12:00

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2013 09:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 79100 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00061	C6-C12	74	J B	100	50	25

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	73		10-150

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\YPID\20130322-18168.b\YF032240.D		
Lims ID:	240-21987-B-1	Client ID:	079-0007-0001-SOURCEWATER
Inject. Date:	23-Mar-2013 09:27:20	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018168-040		
Misc. Info.:			
Operator:	1765	Instrument ID:	YPID
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	79100	Lims Sample ID:	40
Detector 1 :	GC ELC2B		
Detector 2 :	GC FID1A		
Method:	\\Ncchrom\ChromData\YPID\20130322-18168.b\Y80158021.m		
Last Update:	23-Mar-2013 16:35:41	Calib Date:	18-Jan-2013 18:43:52
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\YPID\20130118-16706.b\YF011809.D		
Limit Group:	GCV 8015C GRO ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK010		

Compound	Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
6 2-Methylpentane	2	5.160	5.165	-0.005	5210	0	
12 Methyl tert-butyl ether	2	5.297	5.240	0.057	5534	0.0432	7
$ 16 Trifluorotoluene (Surr)	2	9.757	9.765	-0.008	968957	7.26	
A 5 C6-C10	2	11.872	5.007 -	18.736	8142108	56.7	
A 1 C6-C12	2	13.517	5.007 -	22.028	12038755	73.9	
A 11 GRO	2	13.717	5.018 -	22.415	13593940	0	
7 1,2,4-Trimethylbenzene	2	18.580	18.571	0.009	30215	0.1308	7
14 Dodecane	2	21.914	21.739	0.175	5042	0	
9 Naphthalene	2	22.062	22.062	0.0	84616	0.7414	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

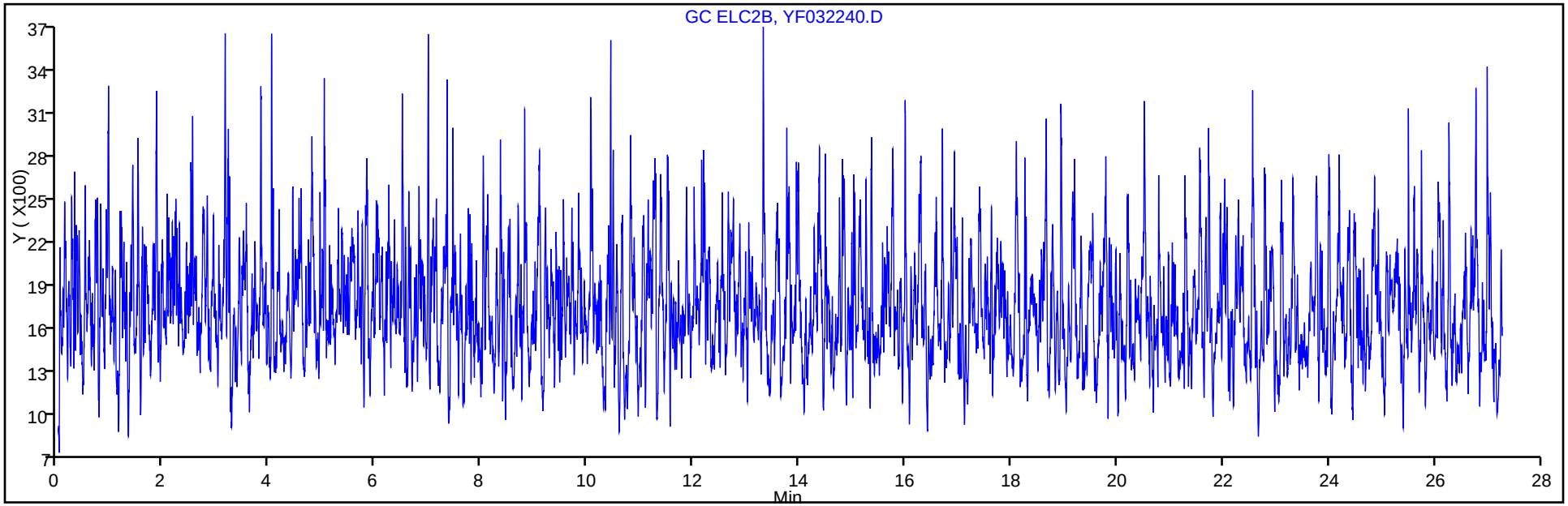
Report Date: 23-Mar-2013 16:35:51 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

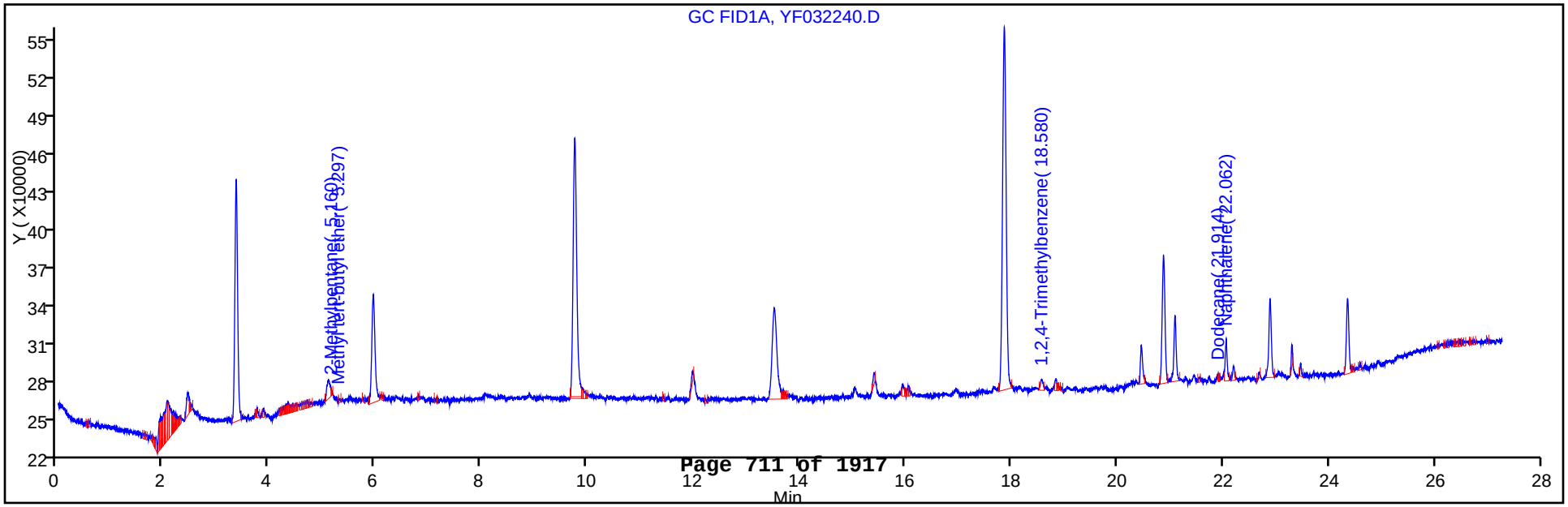
Data File: \\Ncchrom\ChromData\YPID\20130322-18168.b\YF032240.D

Injection Date:	23-Mar-2013 09:27:20	Limit Group:	GCV 8015C GRO ICAL
Client ID:	079-0007-0001-SOURCEWATER	Instrument ID:	YPID
Lims Batch ID:	79100	Lims Sample ID:	40
Operator ID:	1765	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:

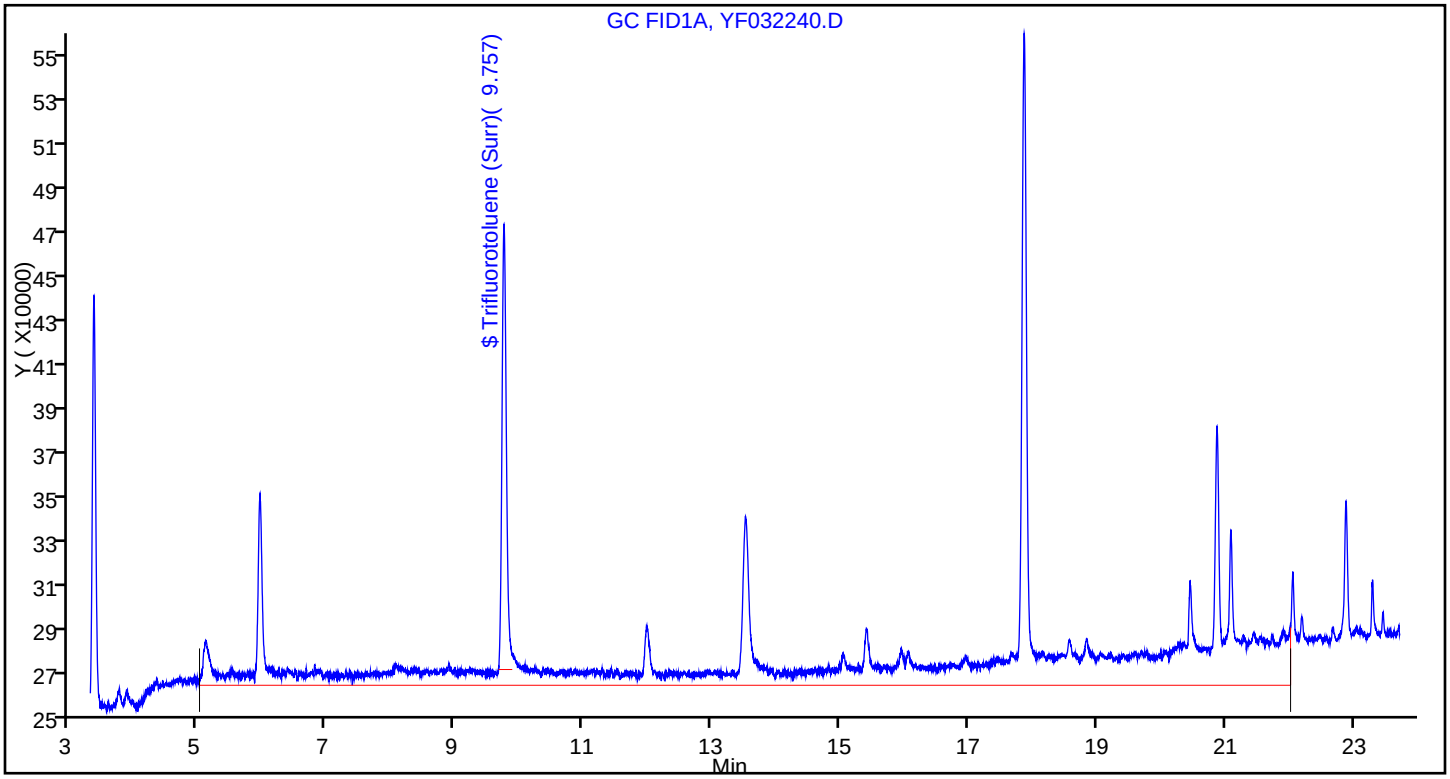


Report Date: 23-Mar-2013 16:35:52 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\YPID\20130322-18168.b\YF032240.D		
Injection Date:	23-Mar-2013 09:27:20	Limit Group:	GCV 8015C GRO ICAL
Client ID:	079-0007-0001-SOURCEWATER	Instrument ID:	YPID
Lims Batch ID:	79100	Lims Sample ID:	40
Operator ID:	1765	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

A 1 C6-C12, Detector: 2, GC FID1A



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: 079-0009-0001-TB TRIP Lab Sample ID: 240-21987-3

Matrix: Water Lab File ID: YF032243.D

Analysis Method: 8015B_GRO/DOD Date Collected: 03/14/2013 08:00

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2013 11:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 79100 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00061	C6-C12	81	J B	100	50	25

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	61		10-150

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\YPID\20130322-18168.b\YF032243.D		
Lims ID:	240-21987-B-3	Client ID:	079-0009-0001-TB TRIP BLANK
Inject. Date:	23-Mar-2013 11:16:24	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018168-043		
Misc. Info.:			
Operator:	1765	Instrument ID:	YPID
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	79100	Lims Sample ID:	43
Detector 1 :	GC ELC2B		
Detector 2 :	GC FID1A		
Method:	\\Ncchrom\ChromData\YPID\20130322-18168.b\Y80158021.m		
Last Update:	23-Mar-2013 16:35:41	Calib Date:	18-Jan-2013 18:43:52
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\YPID\20130118-16706.b\YF011809.D		
Limit Group:	GCV 8015C GRO ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK010		

Compound	Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
6 2-Methylpentane	2	5.106	5.165	-0.059	9078	0	
12 Methyl tert-butyl ether	2	5.096	5.240	-0.144	14287	0.1116	7
$ 16 Trifluorotoluene (Surr)	2	9.759	9.765	-0.006	814567	6.10	
A 5 C6-C10	2	11.872	5.007 -	18.736	8715714	60.7	
A 1 C6-C12	2	13.517	5.007 -	22.028	13271576	81.5	
A 11 GRO	2	13.717	5.018 -	22.415	13453377	0	
7 1,2,4-Trimethylbenzene	2	18.565	18.571	-0.006	18828	0.0815	7
14 Dodecane	2	21.742	21.739	0.003	6045	0	
9 Naphthalene	2	22.059	22.062	-0.003	128357	1.12	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

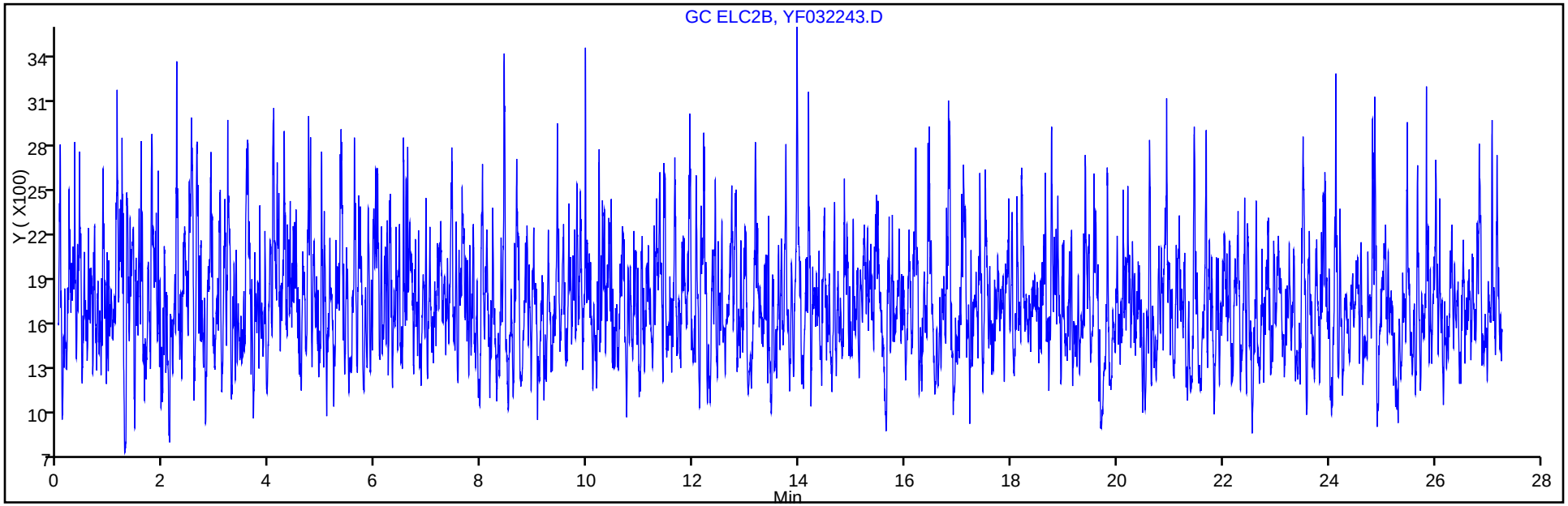
Report Date: 23-Mar-2013 16:35:56 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

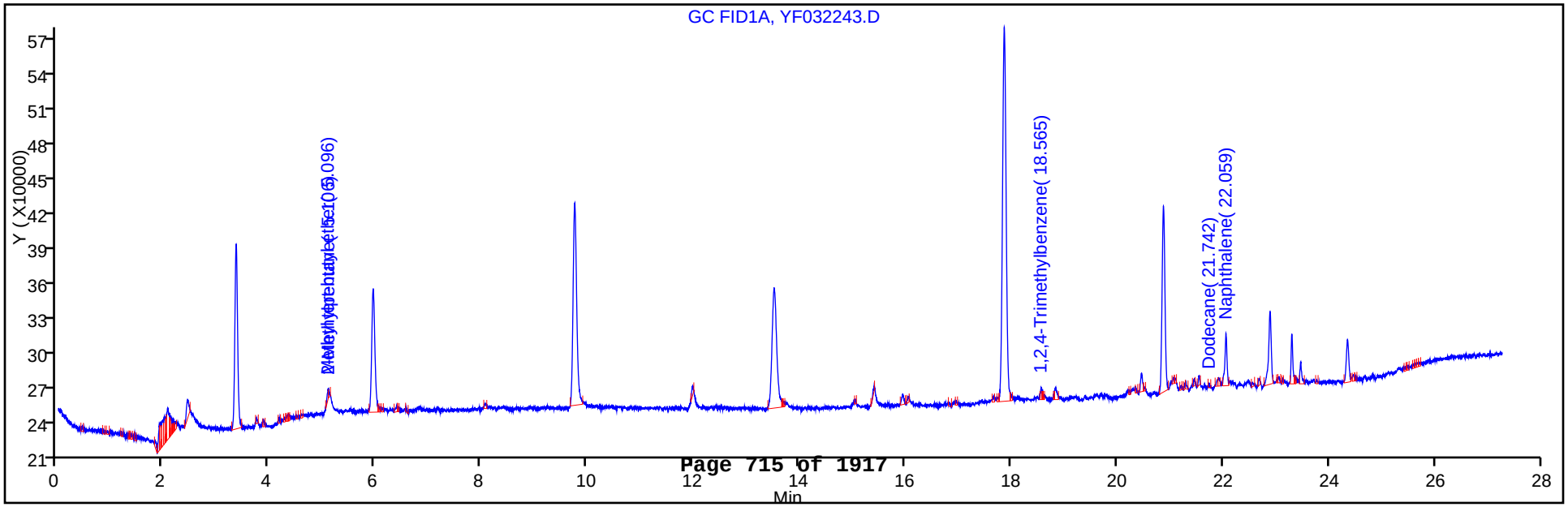
Data File: \\Ncchrom\ChromData\YPID\20130322-18168.b\YF032243.D

Injection Date:	23-Mar-2013 11:16:24	Limit Group:	GCV 8015C GRO ICAL
Client ID:	079-0009-0001-TB TRIP BLANK	Instrument ID:	YPID
Lims Batch ID:	79100	Lims Sample ID:	43
Operator ID:	1765	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:

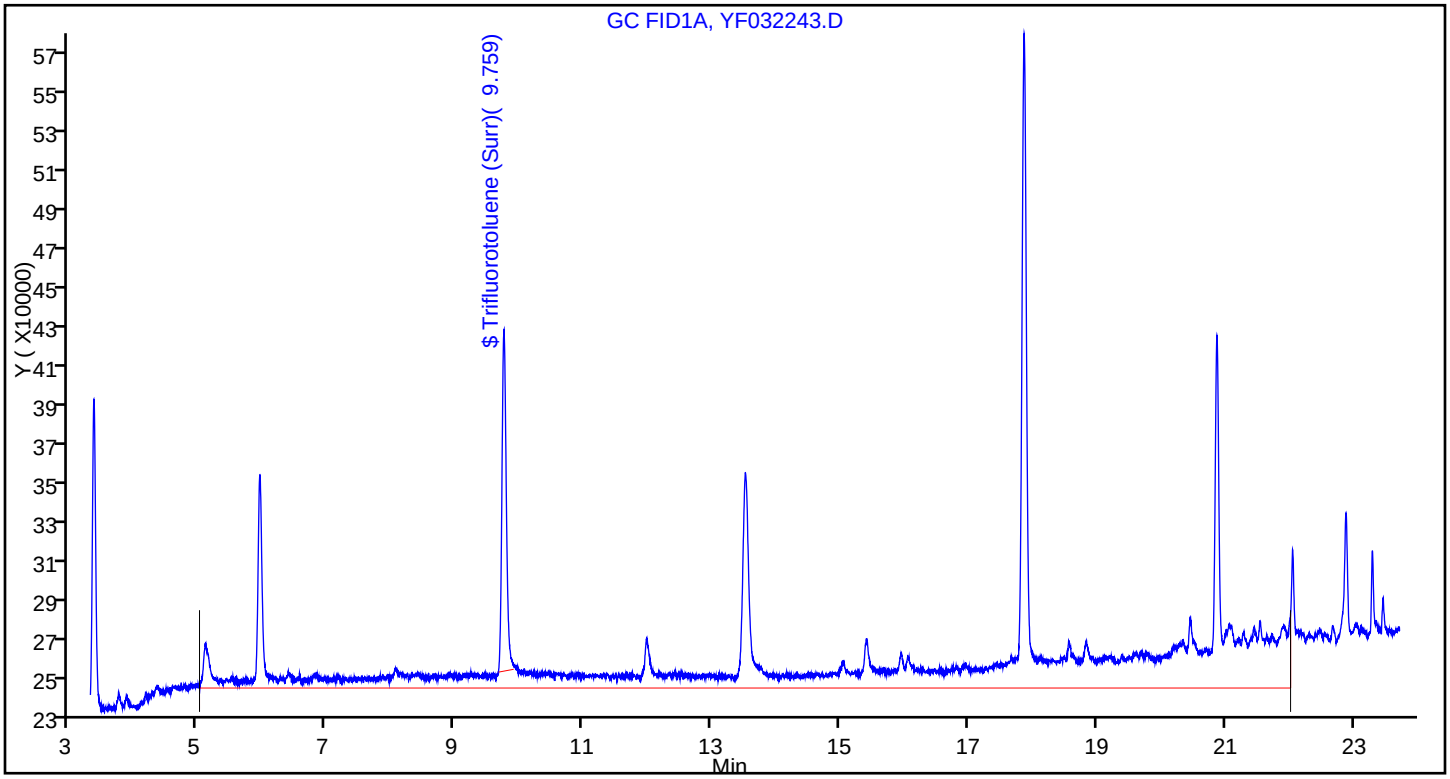


Report Date: 23-Mar-2013 16:35:56 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\YPID\20130322-18168.b\YF032243.D		
Injection Date:	23-Mar-2013 11:16:24	Limit Group:	GCV 8015C GRO ICAL
Client ID:	079-0009-0001-TB TRIP BLANK	Instrument ID:	YPID
Lims Batch ID:	79100	Lims Sample ID:	43
Operator ID:	1765	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

A 1 C6-C12, Detector: 2, GC FID1A



FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 70393

SDG No.:

Instrument ID: YPID GC Column: RTX-VRX ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2012 11:38 Calibration End Date: 12/28/2012 14:47 Calibration ID: 13005

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-70393/5	YF122805.D
Level 2	STD2 240-70393/6	YF122806.D
Level 3	STD3 240-70393/7	YF122807.D
Level 4	STD4 240-70393/8	YF122808.D
Level 5	STD5 240-70393/9	YF122809.D
Level 6	STD6 240-70393/10	YF122810.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
C6-C10	11.892	11.892	11.892	11.892	11.892	11.892					4.963 - 18.821	11.892
C6-C12	13.469	13.469	13.469	13.469	13.469	13.469					4.963 - 21.975	13.469
Trifluorotoluene (Surr)	9.755	9.756	9.757	9.755	9.757	9.762					9.502 - 10.002	9.757

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 70393

SDG No.:

Instrument ID: YPID GC Column: RTX-VRX ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2012 11:38 Calibration End Date: 12/28/2012 14:47 Calibration ID: 13005

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-70393/5	YF122805.D
Level 2	STD2 240-70393/6	YF122806.D
Level 3	STD3 240-70393/7	YF122807.D
Level 4	STD4 240-70393/8	YF122808.D
Level 5	STD5 240-70393/9	YF122809.D
Level 6	STD6 240-70393/10	YF122810.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 6	LVL 3	LVL 4		B	M1	M2								
C6-C10	154920 135520	157111 134528	142787	136336	Ave		143533.726				7.0		20.0			
C6-C12	189132 149860	180225 148055	158867	151135	Ave		162878.826				11.0		20.0			
Trifluorotoluene (Surr)	109561 155109	117683 162602	122760	133162	Ave		133479.383				16.0		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton | Job No.: 240-21987-1 | Analy Batch No.: 70393

SDG No.:

Instrument ID: YPID | GC Column: RTX-VRX | ID: 0.45(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2012 11:38 | Calibration End Date: 12/28/2012 14:47 | Calibration ID: 13005

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-70393/5	YF122805.D
Level 2	STD2 240-70393/6	YF122806.D
Level 3	STD3 240-70393/7	YF122807.D
Level 4	STD4 240-70393/8	YF122808.D
Level 5	STD5 240-70393/9	YF122809.D
Level 6	STD6 240-70393/10	YF122810.D

ANALYTE	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
C6-C10	Ave	15492003 215244603	31422214	57114972	109068483	162624413	100 1600	200	400	800	1200
C6-C12	Ave	18913229 236888136	36044954	63546608	120907621	179831720	100 1600	200	400	800	1200
Trifluorotoluene (Surr)	Ave	1095611 1626015	1176834	1227602	1331615	1551086	10.0 10.0	10.0	10.0	10.0	10.0

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\YPID\20121228-16238.b\YF122805.D		
Lims ID:	STD1 GAS	Client ID:	
Inject. Date:	28-Dec-2012 11:38:41	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	240-0016238-005		
Misc. Info.:			
Operator:	1765	Instrument ID:	YPID
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	70393	Lims Sample ID:	5
Sublist:	chrom-Y80158021*sub7		
Detector 1 :	GC ELC2B		
Detector 2 :	GC FID1A		
Method:	\\Ncchrom\ChromData\YPID\20121228-16238.b\Y80158021.m		
Last Update:	29-Dec-2012 06:31:49	Calib Date:	28-Dec-2012 14:47:21
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\YPID\20121228-16238.b\YF122810.D		
Limit Group:	GCV 8015C GRO ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Compound	Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
$ 16 Trifluorotoluene (Surr)	2	9.755	9.752	0.003	1095611	8.21	
A 5 C6-C10	2	11.892	4.963 - 18.821		15492003	107.9	
A 1 C6-C12	2	13.469	4.963 - 21.975		18913229	116.1	

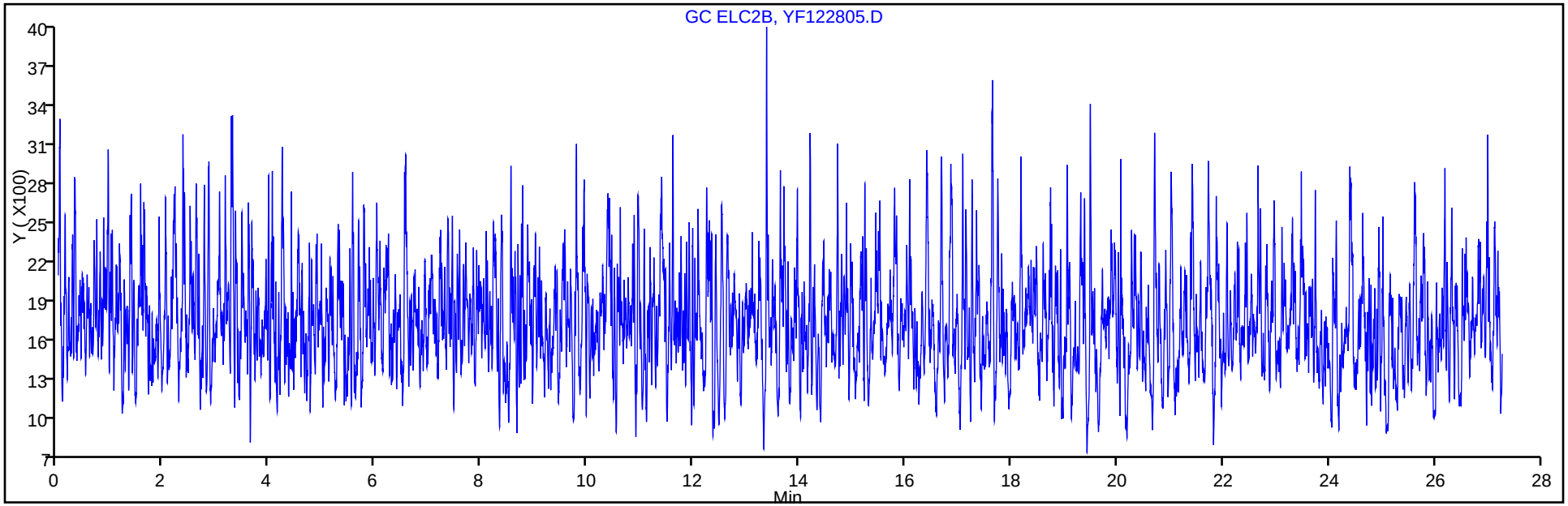
Report Date: 29-Dec-2012 06:31:50 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

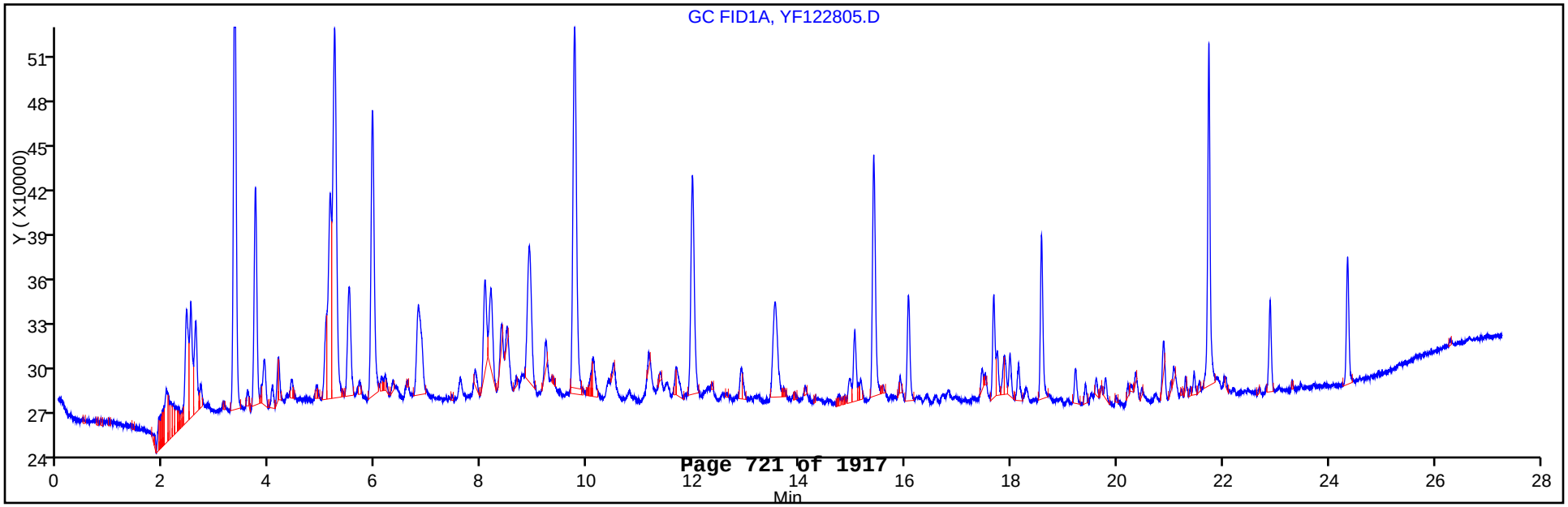
Data File: \\Ncchrom\ChromData\YPID\20121228-16238.b\YF122805.D

Injection Date:	28-Dec-2012 11:38:41	Limit Group:	GCV 8015C GRO ICAL
Client ID:		Instrument ID:	YPID
Lims Batch ID:	70393	Lims Sample ID:	5
Operator ID:	1765	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\YPID\20121228-16238.b\YF122806.D		
Lims ID:	STD2 GAS	Client ID:	
Inject. Date:	28-Dec-2012 12:16:54	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	240-0016238-006		
Misc. Info.:			
Operator:	1765	Instrument ID:	YPID
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	70393	Lims Sample ID:	6
Sublist:	chrom-Y80158021*sub7		
Detector 1 :	GC ELC2B		
Detector 2 :	GC FID1A		
Method:	\\Ncchrom\ChromData\YPID\20121228-16238.b\Y80158021.m		
Last Update:	29-Dec-2012 06:31:52	Calib Date:	28-Dec-2012 14:47:21
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\YPID\20121228-16238.b\YF122810.D		
Limit Group:	GCV 8015C GRO ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Compound	Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
$ 16 Trifluorotoluene (Surr)	2	9.756	9.752	0.004	1176834	8.82	
A 5 C6-C10	2	11.892	4.963 - 18.821		31422214	218.9	
A 1 C6-C12	2	13.469	4.963 - 21.975		36044954	221.3	

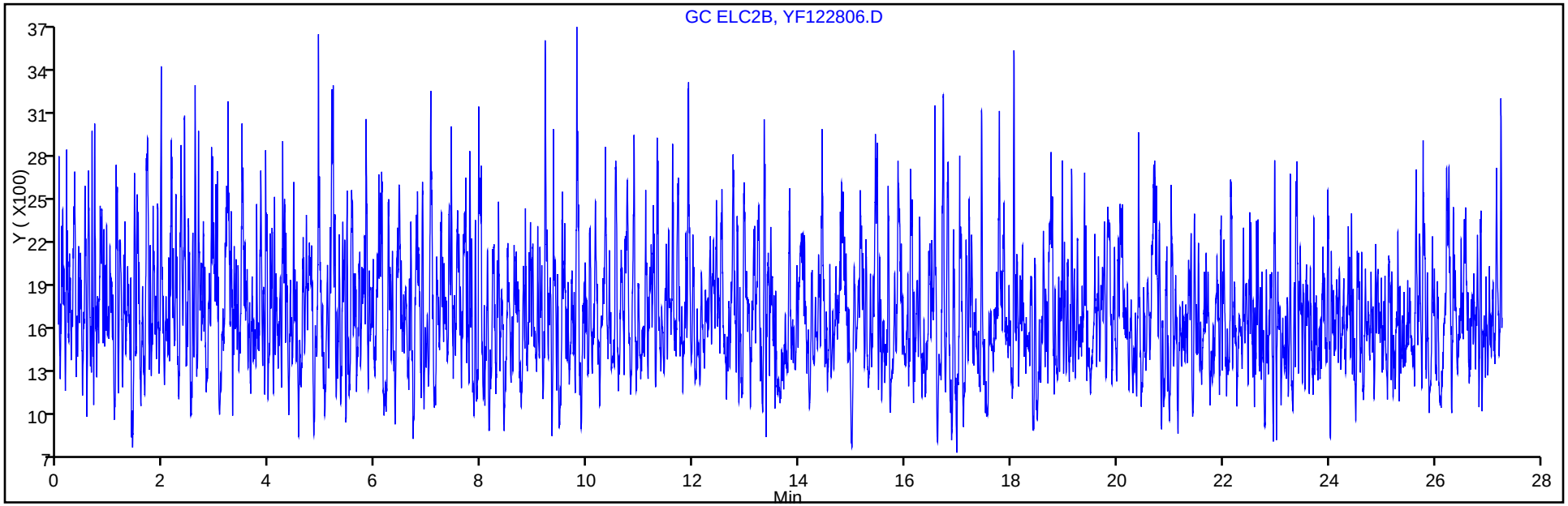
Report Date: 29-Dec-2012 06:31:54 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

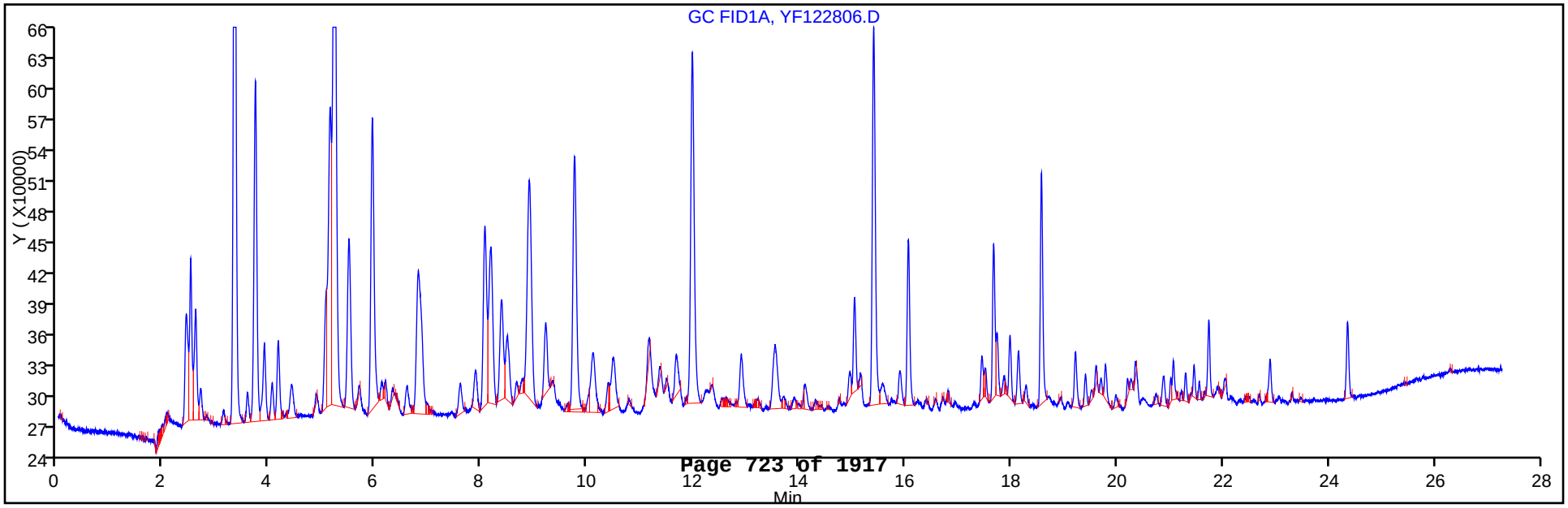
Data File: \\Ncchrom\ChromData\YPID\20121228-16238.b\YF122806.D

Injection Date:	28-Dec-2012 12:16:54	Limit Group:	GCV 8015C GRO ICAL
Client ID:		Instrument ID:	YPID
Lims Batch ID:	70393	Lims Sample ID:	6
Operator ID:	1765	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\YPID\20121228-16238.b\YF122807.D		
Lims ID:	STD3 GAS	Client ID:	
Inject. Date:	28-Dec-2012 12:54:17	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	240-0016238-007		
Misc. Info.:			
Operator:	1765	Instrument ID:	YPID
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	70393	Lims Sample ID:	7
Sublist:	chrom-Y80158021*sub7		
Detector 1 :	GC ELC2B		
Detector 2 :	GC FID1A		
Method:	\\Ncchrom\ChromData\YPID\20121228-16238.b\Y80158021.m		
Last Update:	29-Dec-2012 06:31:55	Calib Date:	28-Dec-2012 14:47:21
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\YPID\20121228-16238.b\YF122810.D		
Limit Group:	GCV 8015C GRO ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Compound	Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
$ 16 Trifluorotoluene (Surr)	2	9.757	9.752	0.005	1227602	9.20	
A 5 C6-C10	2	11.892	4.963 - 18.821		57114972	397.9	
A 1 C6-C12	2	13.469	4.963 - 21.975		63546608	390.1	

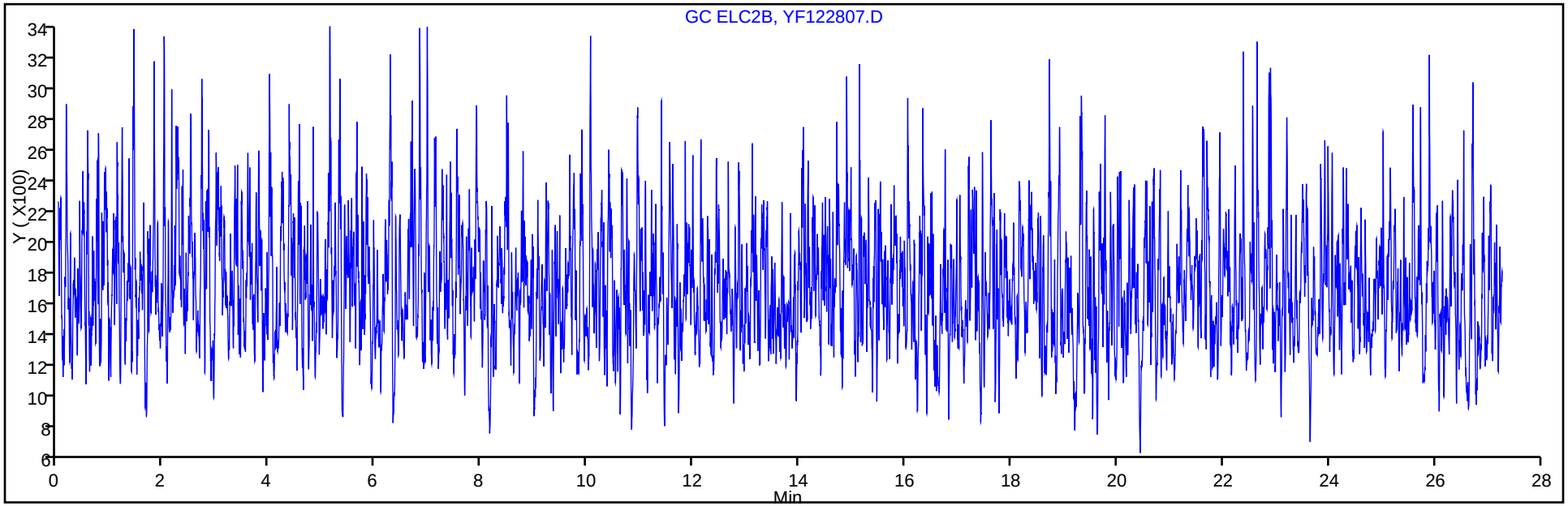
Report Date: 29-Dec-2012 06:31:57 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

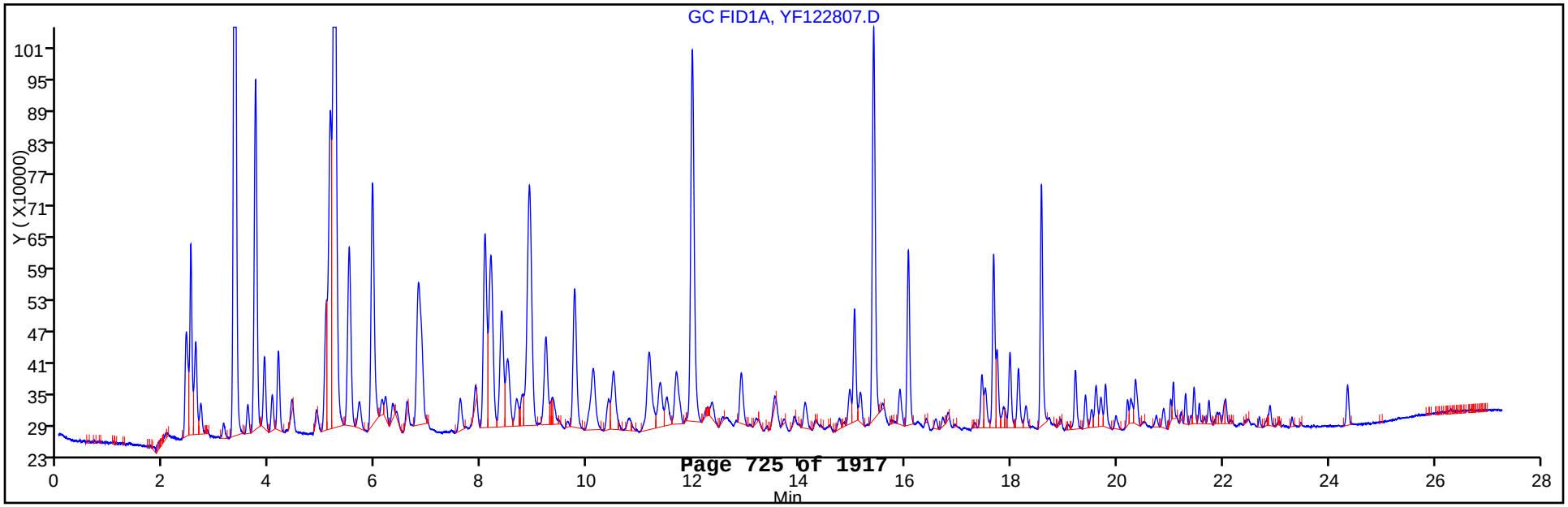
Data File: \\Ncchrom\ChromData\YPID\20121228-16238.b\YF122807.D

Injection Date:	28-Dec-2012 12:54:17	Limit Group:	GCV 8015C GRO ICAL
Client ID:		Instrument ID:	YPID
Lims Batch ID:	70393	Lims Sample ID:	7
Operator ID:	1765	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\YPID\20121228-16238.b\YF122808.D		
Lims ID:	STD4 GAS	Client ID:	
Inject. Date:	28-Dec-2012 13:32:12	Dil. Factor:	1.0000
Sample Type:	ICRT	Calib Level:	4
Sample ID:	240-0016238-008		
Misc. Info.:			
Operator:	1765	Instrument ID:	YPID
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	70393	Lims Sample ID:	8
Sublist:	chrom-Y80158021*sub7		
Detector 1 :	GC ELC2B		
Detector 2 :	GC FID1A		
Method:	\\Ncchrom\ChromData\YPID\20121228-16238.b\Y80158021.m		
Last Update:	29-Dec-2012 06:31:59	Calib Date:	28-Dec-2012 14:47:21
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\YPID\20121228-16238.b\YF122810.D		
Limit Group:	GCV 8015C GRO ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Compound	Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
$ 16 Trifluorotoluene (Surr)	2	9.755	9.755	0.0	1331615	9.98	
A 5 C6-C10	2	11.892	4.963 - 18.821		109068483	759.9	
A 1 C6-C12	2	13.469	4.963 - 21.975		120907621	742.3	

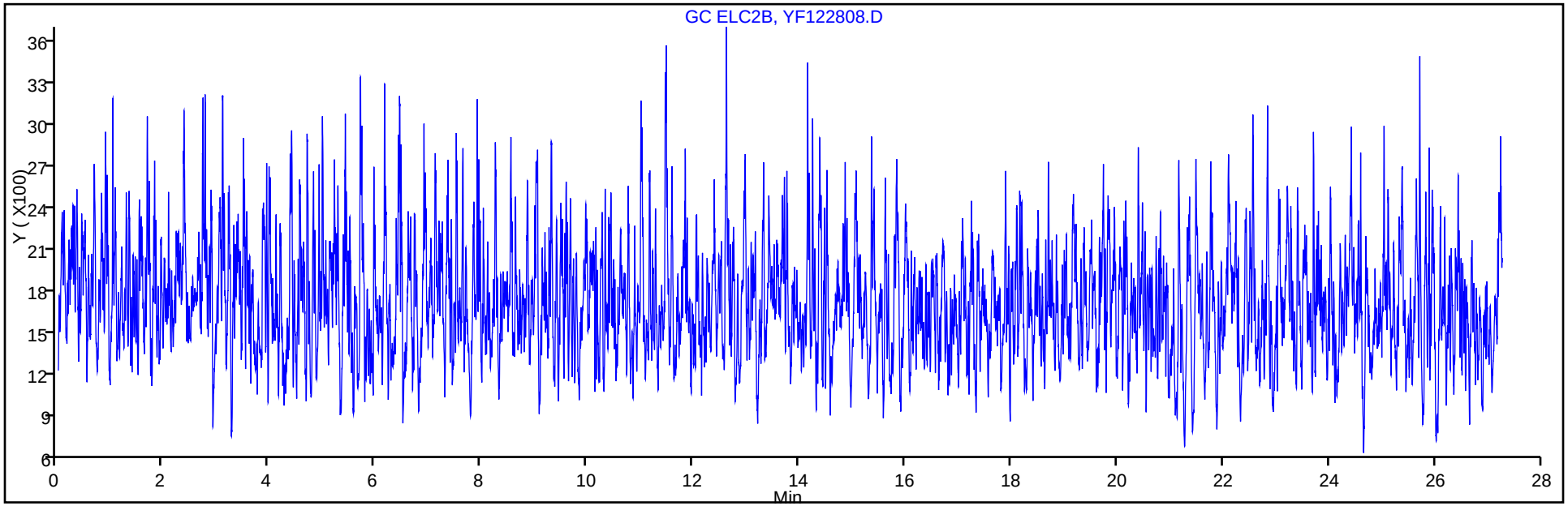
Report Date: 29-Dec-2012 06:32:00 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

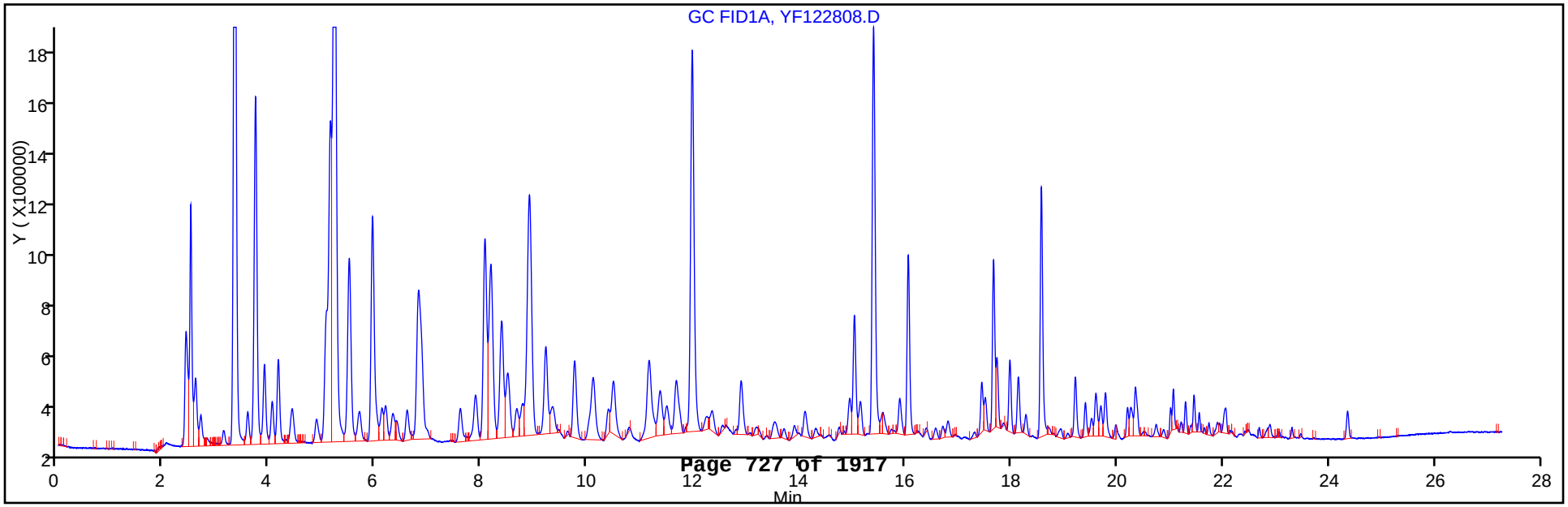
Data File: \\Ncchrom\ChromData\YPID\20121228-16238.b\YF122808.D

Injection Date:	28-Dec-2012 13:32:12	Limit Group:	GCV 8015C GRO ICAL
Client ID:		Instrument ID:	YPID
Lims Batch ID:	70393	Lims Sample ID:	8
Operator ID:	1765	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\YPID\20121228-16238.b\YF122809.D		
Lims ID:	STD5 GAS	Client ID:	
Inject. Date:	28-Dec-2012 14:10:04	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	240-0016238-009		
Misc. Info.:			
Operator:	1765	Instrument ID:	YPID
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	70393	Lims Sample ID:	9
Sublist:	chrom-Y80158021*sub7		
Detector 1 :	GC ELC2B		
Detector 2 :	GC FID1A		
Method:	\\Ncchrom\ChromData\YPID\20121228-16238.b\Y80158021.m		
Last Update:	29-Dec-2012 06:32:02	Calib Date:	28-Dec-2012 14:47:21
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\YPID\20121228-16238.b\YF122810.D		
Limit Group:	GCV 8015C GRO ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Compound	Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
$ 16 Trifluorotoluene (Surr)	2	9.757	9.755	0.002	1551086	11.6	
A 5 C6-C10	2	11.892	4.963 - 18.821		162624413	1133.0	
A 1 C6-C12	2	13.469	4.963 - 21.975		179831720	1104.1	

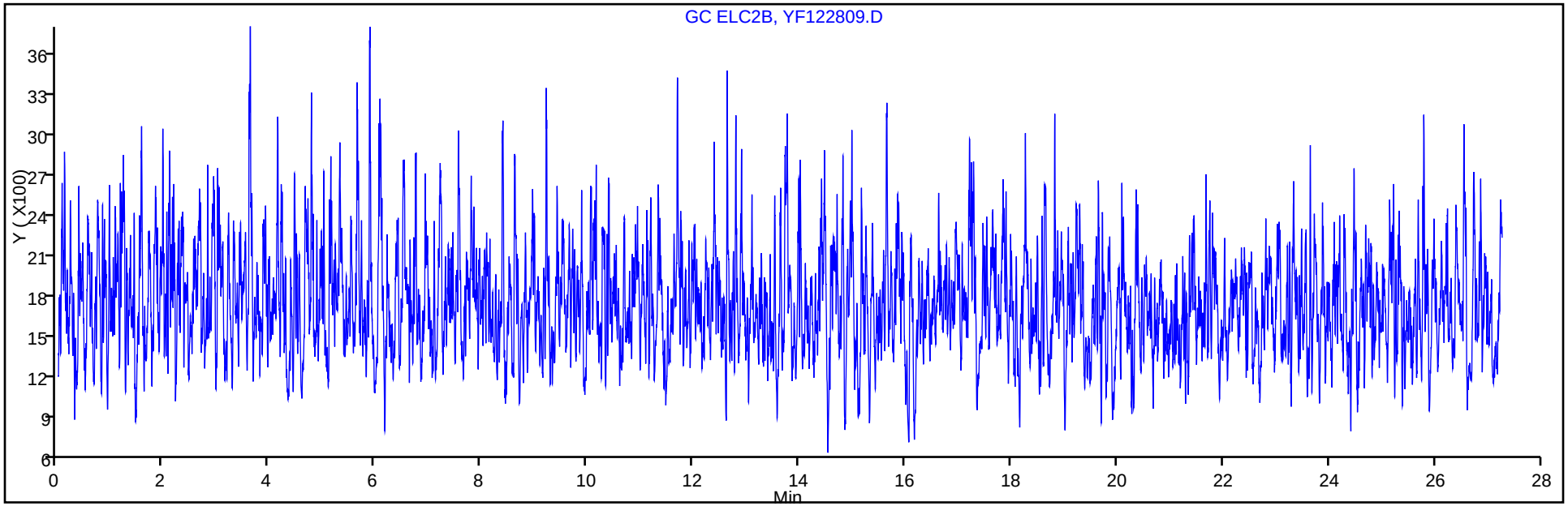
Report Date: 29-Dec-2012 06:32:04 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

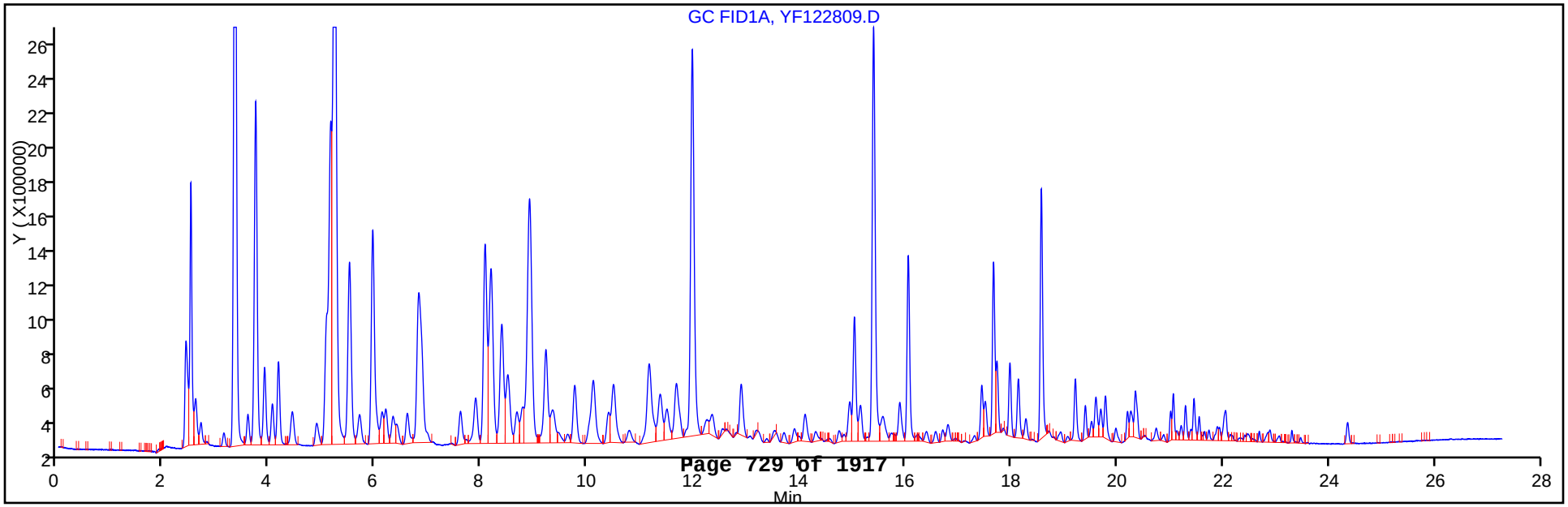
Data File: \\Ncchrom\ChromData\YPID\20121228-16238.b\YF122809.D

Injection Date:	28-Dec-2012 14:10:04	Limit Group:	GCV 8015C GRO ICAL
Client ID:		Instrument ID:	YPID
Lims Batch ID:	70393	Lims Sample ID:	9
Operator ID:	1765	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\YPID\20121228-16238.b\YF122810.D		
Lims ID:	STD6 GAS	Client ID:	
Inject. Date:	28-Dec-2012 14:47:21	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	240-0016238-010		
Misc. Info.:			
Operator:	1765	Instrument ID:	YPID
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	70393	Lims Sample ID:	10
Sublist:	chrom-Y80158021*sub7		
Detector 1 :	GC ELC2B		
Detector 2 :	GC FID1A		
Method:	\\Ncchrom\ChromData\YPID\20121228-16238.b\Y80158021.m		
Last Update:	29-Dec-2012 06:32:05	Calib Date:	28-Dec-2012 14:47:21
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\YPID\20121228-16238.b\YF122810.D		
Limit Group:	GCV 8015C GRO ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Compound	Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
$ 16 Trifluorotoluene (Surr)	2	9.762	9.755	0.007	1626015	12.2	
A 5 C6-C10	2	11.892	4.963 - 18.821		215244603	1499.6	
A 1 C6-C12	2	13.469	4.963 - 21.975		236888136	1454.4	

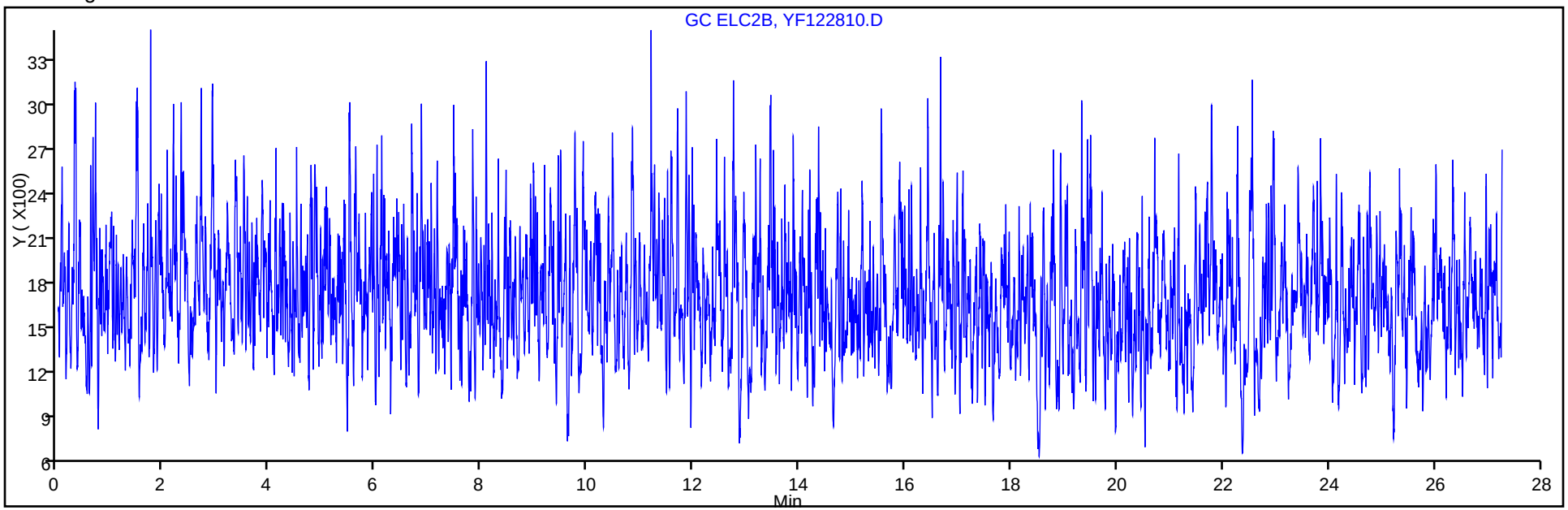
Report Date: 29-Dec-2012 06:32:07 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

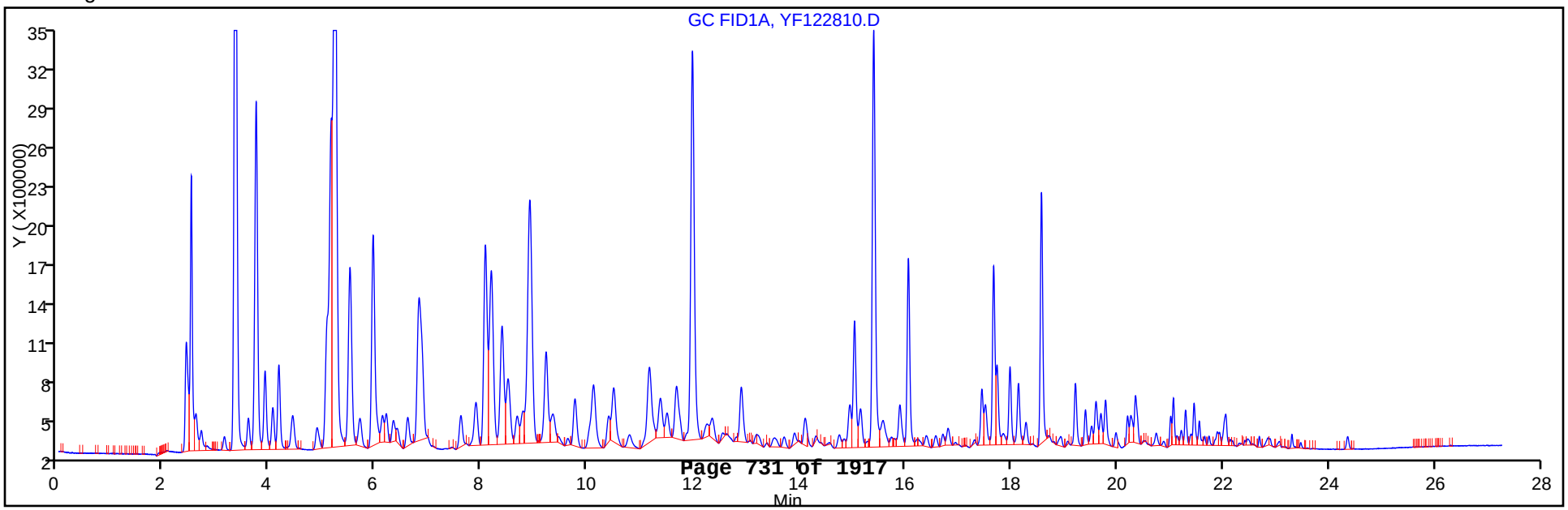
Data File: \\Ncchrom\ChromData\YPID\20121228-16238.b\YF122810.D

Injection Date:	28-Dec-2012 14:47:21	Limit Group:	GCV 8015C GRO ICAL
Client ID:		Instrument ID:	YPID
Lims Batch ID:	70393	Lims Sample ID:	10
Operator ID:	1765	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-70393/11 Calibration Date: 12/28/2012 15:24

Instrument ID: YPID Calib Start Date: 12/28/2012 11:38

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 12/28/2012 14:47

Lab File ID: YF122811.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
C6-C10	Ave	143534	132336		738	800	-7.8	20.0
C6-C12	Ave	162879	153450		754	800	-5.8	20.0
Trifluorotoluene (Surr)	Ave	133479	139032		10.4	10.0	4.2	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-70393/11 Calibration Date: 12/28/2012 15:24

Instrument ID: YPID Calib Start Date: 12/28/2012 11:38

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 12/28/2012 14:47

Lab File ID: YF122811.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
C6-C10	11.89	4.96	18.82
C6-C12	13.47	4.96	21.98
Trifluorotoluene (Surr)	9.76	9.51	10.01

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\YPID\20121228-16238.b\YF122811.D		
Lims ID:	ICV GAS	Client ID:	
Inject. Date:	28-Dec-2012 15:24:55	Dil. Factor:	1.0000
Sample Type:	ICV		
Sample ID:	240-0016238-011		
Misc. Info.:			
Operator:	1765	Instrument ID:	YPID
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	70393	Lims Sample ID:	11
Sublist:			
Detector 1 :	GC ELC2B		
Detector 2 :	GC FID1A		
Method:	\\Ncchrom\ChromData\YPID\20121228-16238.b\Y80158021.m		
Last Update:	29-Dec-2012 06:32:05	Calib Date:	28-Dec-2012 14:47:21
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\YPID\20121228-16238.b\YF122810.D		
Limit Group:	GCV 8015C GRO ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Compound	Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
$ 16 Trifluorotoluene (Surr)	2	9.760	9.755	0.005	1390321	10.4	
A 5 C6-C10	2	11.892	4.963 - 18.821		105868878	737.6	
A 1 C6-C12	2	13.469	4.963 - 21.975		122760148	753.7	

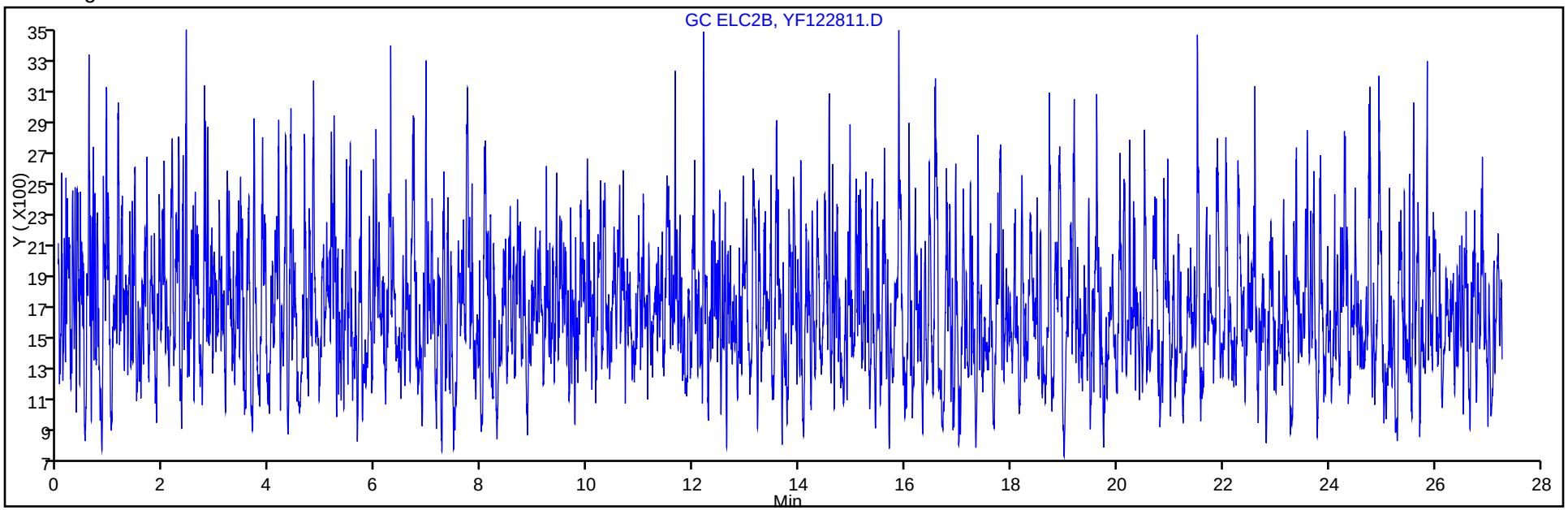
Report Date: 29-Dec-2012 06:32:10 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

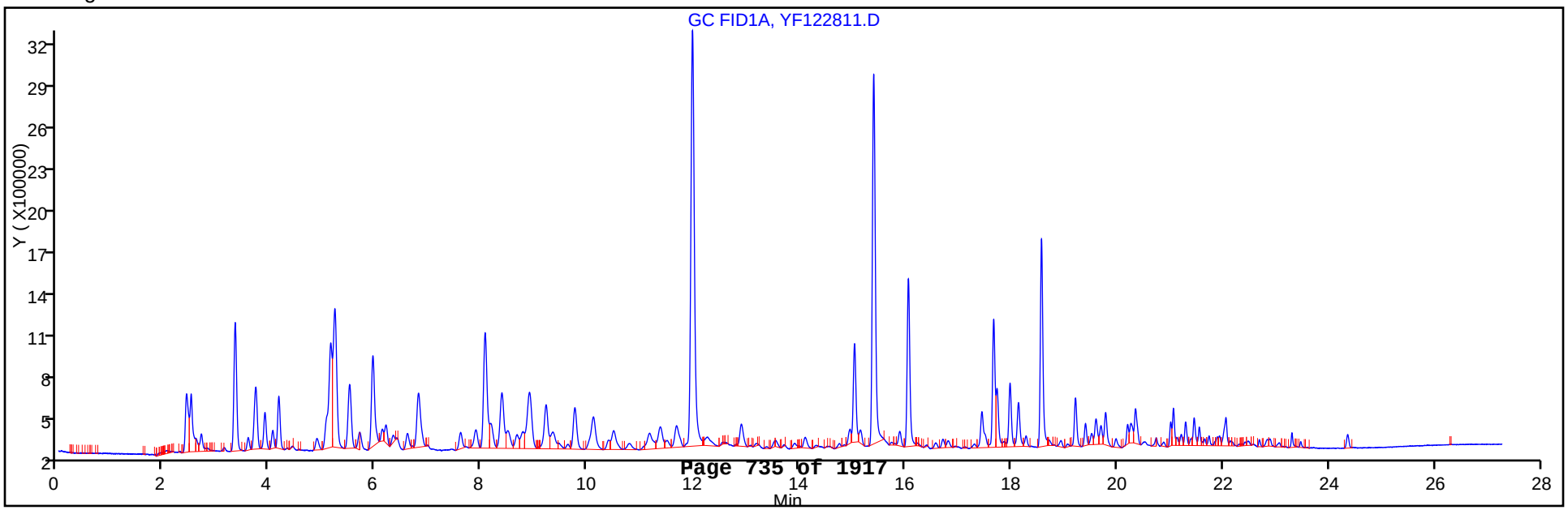
Data File: \\Ncchrom\ChromData\YPID\20121228-16238.b\YF122811.D

Injection Date:	28-Dec-2012 15:24:55	Limit Group:	GCV 8015C GRO ICAL
Client ID:		Instrument ID:	YPID
Lims Batch ID:	70393	Lims Sample ID:	11
Operator ID:	1765	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79100/5 Calibration Date: 03/22/2013 11:38

Instrument ID: YPID Calib Start Date: 12/28/2012 11:38

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 12/28/2012 14:47

Lab File ID: YF032205.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
C6-C10	Ave	143534	137315		765	800	-4.3	20.0
C6-C12	Ave	162879	155020		761	800	-4.8	20.0
Trifluorotoluene (Surr)	Ave	133479	152163		11.4	10.0	14.0	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79100/5 Calibration Date: 03/22/2013 11:38

Instrument ID: YPID Calib Start Date: 12/28/2012 11:38

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 12/28/2012 14:47

Lab File ID: YF032205.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
C6-C10	11.87	5.01	18.74
C6-C12	13.52	5.01	22.03
Trifluorotoluene (Surr)	9.79	9.54	10.04

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\YPID\20130322-18168.b\YF032205.D		
Lims ID:	CCV GAS	Client ID:	
Inject. Date:	22-Mar-2013 11:38:14	Dil. Factor:	1.0000
Sample Type:	CCVRT		
Sample ID:	240-0018168-005		
Misc. Info.:			
Operator:	1765	Instrument ID:	YPID
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	79100	Lims Sample ID:	5
Sublist:	chrom-Y80158021*sub16		
Detector 1 :	GC ELC2B		
Detector 2 :	GC FID1A		
Method:	\\Ncchrom\ChromData\YPID\20130322-18168.b\Y80158021.m		
Last Update:	23-Mar-2013 16:34:49	Calib Date:	18-Jan-2013 18:43:52
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\YPID\20130118-16706.b\YF011809.D		
Limit Group:	GCV 8015C GRO ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK010		

Compound	Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
$ 16 Trifluorotoluene (Surr)	2	9.790	9.790	0.0	1521630	11.4	
A 5 C6-C10	2	11.872	5.007 - 18.736		109851855	765.3	
A 1 C6-C12	2	13.517	5.007 - 22.028		124016320	761.4	

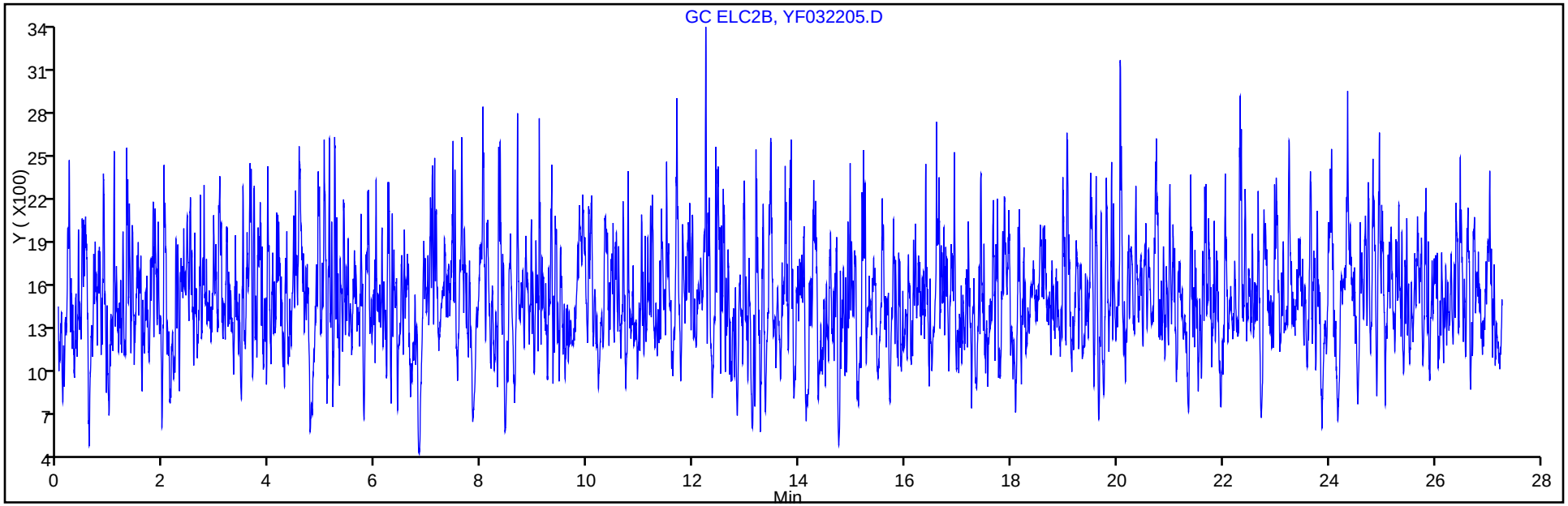
Report Date: 23-Mar-2013 16:34:50 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

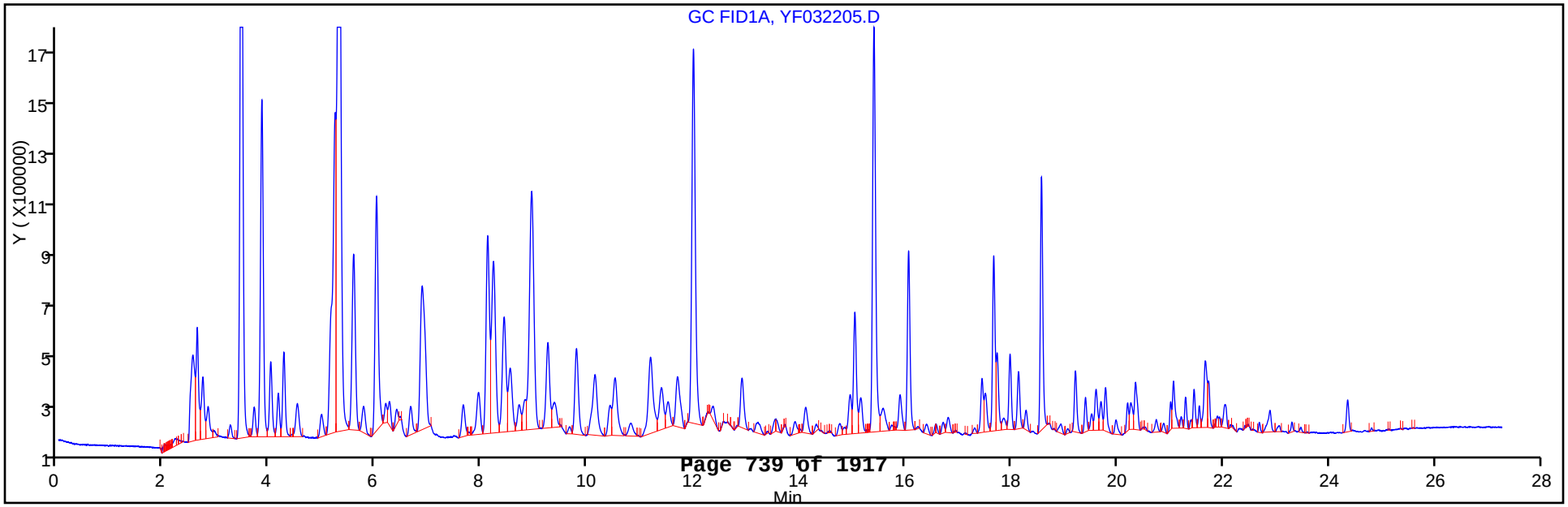
Data File: \\Ncchrom\ChromData\YPID\20130322-18168.b\YF032205.D

Injection Date:	22-Mar-2013 11:38:14	Limit Group:	GCV 8015C GRO ICAL
Client ID:		Instrument ID:	YPID
Lims Batch ID:	79100	Lims Sample ID:	5
Operator ID:	1765	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79100/36 Calibration Date: 03/23/2013 07:02

Instrument ID: YPID Calib Start Date: 12/28/2012 11:38

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 12/28/2012 14:47

Lab File ID: YF032236.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
C6-C10	Ave	143534	128583		717	800	-10.4	20.0
C6-C12	Ave	162879	142524		700	800	-12.5	20.0
Trifluorotoluene (Surr)	Ave	133479	91629		6.86	10.0	-31.4*	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79100/36 Calibration Date: 03/23/2013 07:02

Instrument ID: YPID Calib Start Date: 12/28/2012 11:38

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 12/28/2012 14:47

Lab File ID: YF032236.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
C6-C10	11.87	5.01	18.74
C6-C12	13.52	5.01	22.03
Trifluorotoluene (Surr)	9.77	9.52	10.02

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\YPID\20130322-18168.b\YF032236.D		
Lims ID:	CCV GAS	Client ID:	
Inject. Date:	23-Mar-2013 07:02:11	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	240-0018168-036		
Misc. Info.:			
Operator:	1765	Instrument ID:	YPID
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	79100	Lims Sample ID:	36
Sublist:	chrom-Y80158021*sub16		
Detector 1 :	GC ELC2B		
Detector 2 :	GC FID1A		
Method:	\\Ncchrom\ChromData\YPID\20130322-18168.b\Y80158021.m		
Last Update:	23-Mar-2013 16:35:41	Calib Date:	18-Jan-2013 18:43:52
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\YPID\20130118-16706.b\YF011809.D		
Limit Group:	GCV 8015C GRO ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK010		

Compound	Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
$ 16 Trifluorotoluene (Surr)	2	9.765	9.765	0.0	916290	6.86	
A 5 C6-C10	2	11.872	5.007 - 18.736		102866181	716.7	
A 1 C6-C12	2	13.517	5.007 - 22.028		114019187	700.0	

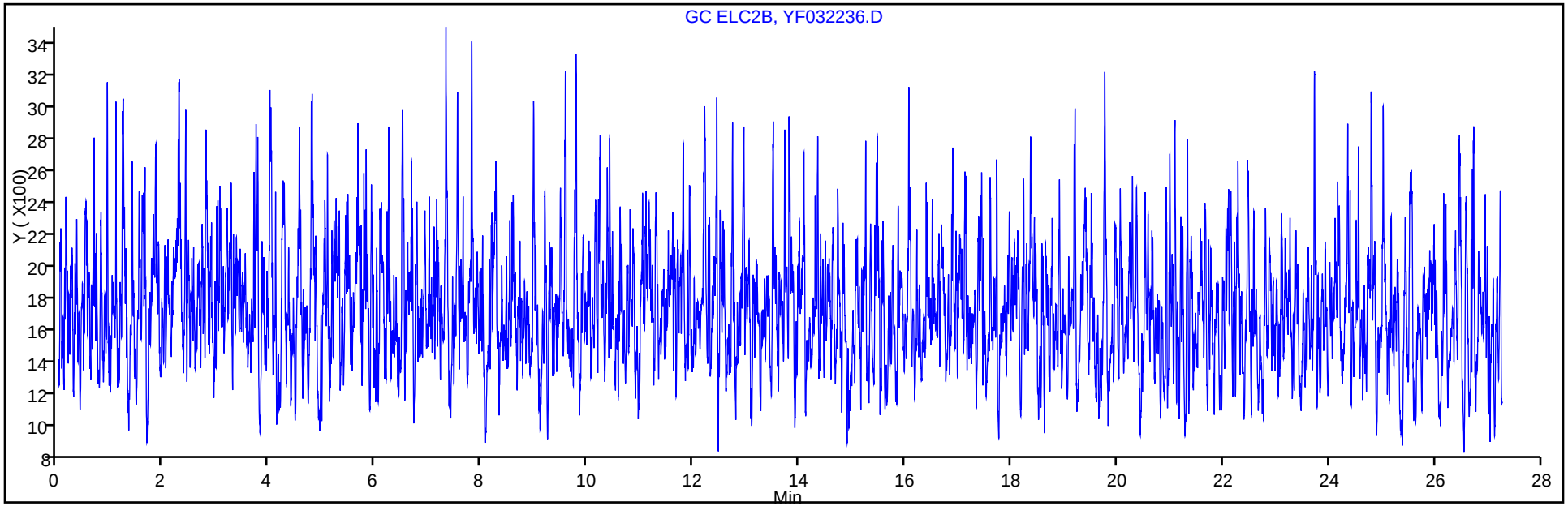
Report Date: 23-Mar-2013 16:35:41 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

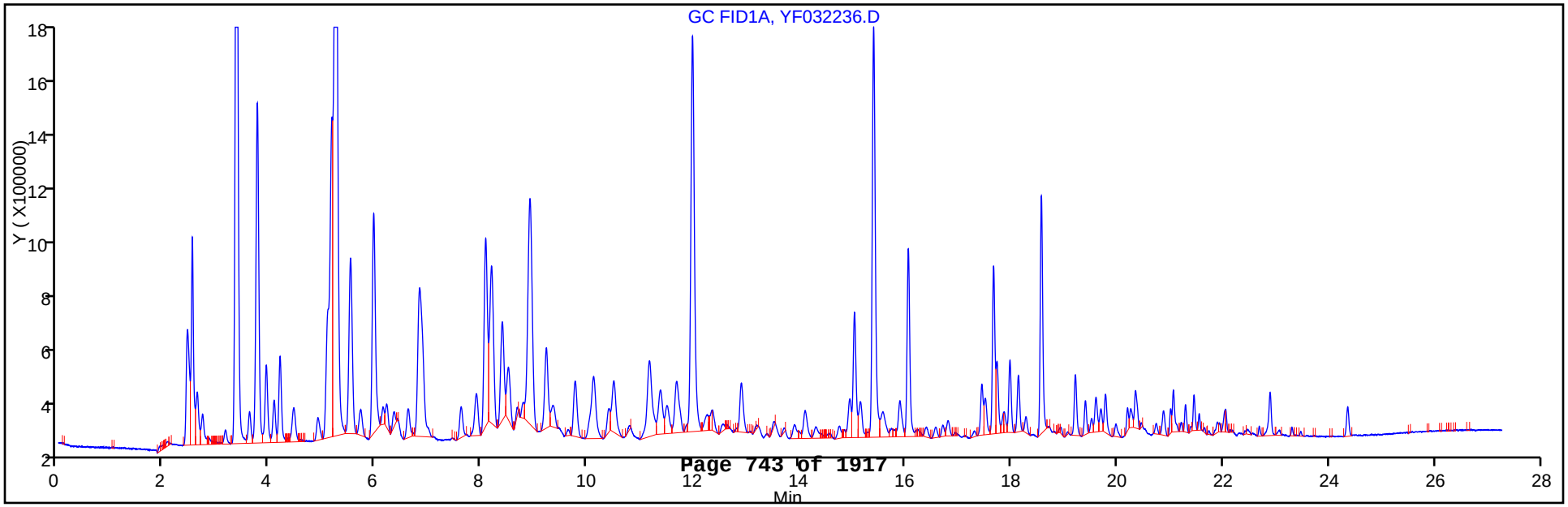
Data File: \\Ncchrom\ChromData\YPID\20130322-18168.b\YF032236.D

Injection Date:	23-Mar-2013 07:02:11	Limit Group:	GCV 8015C GRO ICAL
Client ID:		Instrument ID:	YPID
Lims Batch ID:	79100	Lims Sample ID:	36
Operator ID:	1765	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79100/44 Calibration Date: 03/23/2013 11:52

Instrument ID: YPID Calib Start Date: 12/28/2012 11:38

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 12/28/2012 14:47

Lab File ID: YF032244.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
C6-C10	Ave	143534	131811		735	800	-8.2	20.0
C6-C12	Ave	162879	145619		715	800	-10.6	20.0
Trifluorotoluene (Surr)	Ave	133479	93840		7.03	10.0	-29.7*	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79100/44 Calibration Date: 03/23/2013 11:52

Instrument ID: YPID Calib Start Date: 12/28/2012 11:38

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 12/28/2012 14:47

Lab File ID: YF032244.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
C6-C10	11.87	5.01	18.74
C6-C12	13.52	5.01	22.03
Trifluorotoluene (Surr)	9.76	9.51	10.01

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\YPID\20130322-18168.b\YF032244.D		
Lims ID:	CCV GAS	Client ID:	
Inject. Date:	23-Mar-2013 11:52:36	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	240-0018168-044		
Misc. Info.:			
Operator:	1765	Instrument ID:	YPID
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	79100	Lims Sample ID:	44
Sublist:	chrom-Y80158021*sub16		
Detector 1 :	GC ELC2B		
Detector 2 :	GC FID1A		
Method:	\\Ncchrom\ChromData\YPID\20130322-18168.b\Y80158021.m		
Last Update:	23-Mar-2013 16:35:57	Calib Date:	18-Jan-2013 18:43:52
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\YPID\20130118-16706.b\YF011809.D		
Limit Group:	GCV 8015C GRO ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK010		

Compound	Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
$ 16 Trifluorotoluene (Surr)	2	9.763	9.763	0.0	938398	7.03	
A 5 C6-C10	2	11.872	5.007 -	18.736	105448930	734.7	
A 1 C6-C12	2	13.517	5.007 -	22.028	116495447	715.2	

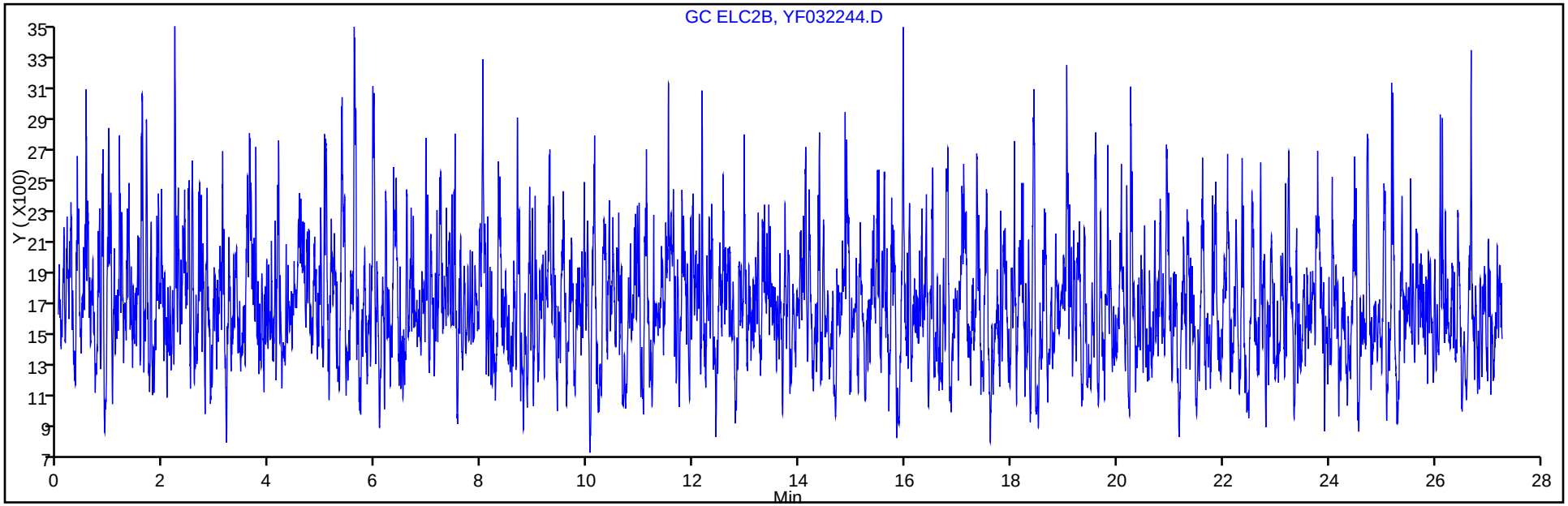
Report Date: 23-Mar-2013 16:35:57 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

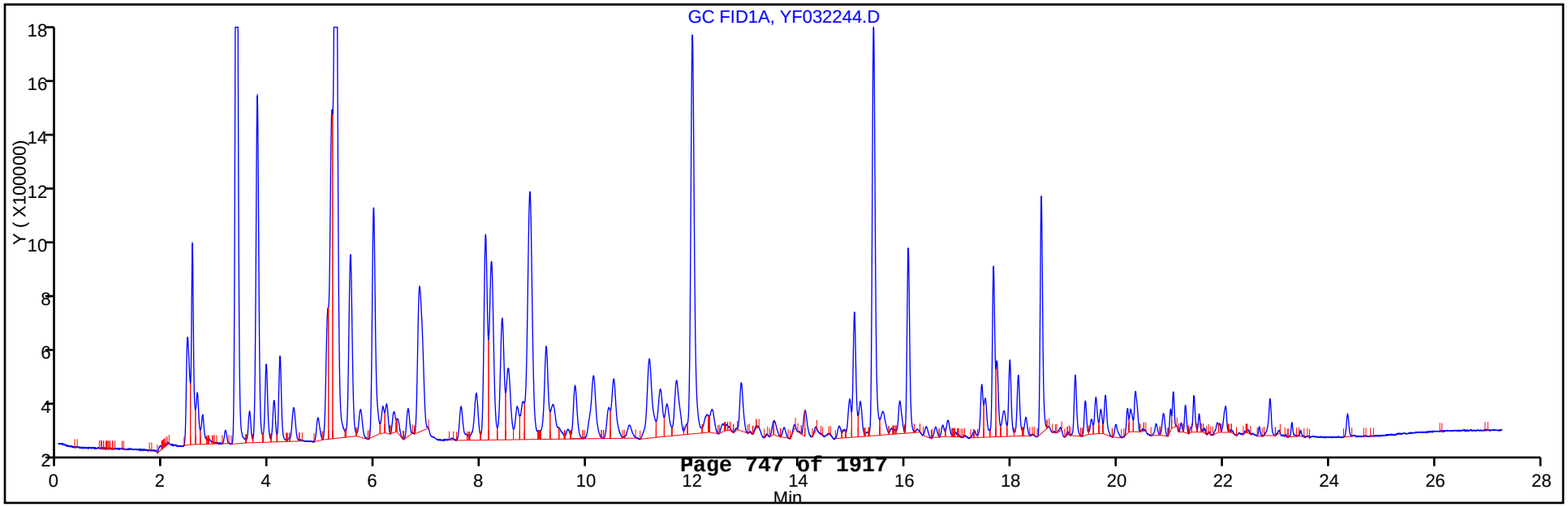
Data File: \\Ncchrom\ChromData\YPID\20130322-18168.b\YF032244.D

Injection Date:	23-Mar-2013 11:52:36	Limit Group:	GCV 8015C GRO ICAL
Client ID:		Instrument ID:	YPID
Lims Batch ID:	79100	Lims Sample ID:	44
Operator ID:	1765	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-79100/38

Matrix: Water Lab File ID: YF032238.D

Analysis Method: 8015B_GRO/DOD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2013 08:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 79100 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00061	C6-C12	57.2	J	100	50	25

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	50		10-150

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\YPID\20130322-18168.b\YF032238.D		
Lims ID:	MB	Client ID:	
Inject. Date:	23-Mar-2013 08:14:49	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	240-0018168-038		
Misc. Info.:			
Operator:	1765	Instrument ID:	YPID
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	79100	Lims Sample ID:	38
Detector 1 :	GC ELC2B		
Detector 2 :	GC FID1A		
Method:	\\Ncchrom\ChromData\YPID\20130322-18168.b\Y80158021.m		
Last Update:	23-Mar-2013 16:35:41	Calib Date:	18-Jan-2013 18:43:52
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\YPID\20130118-16706.b\YF011809.D		
Limit Group:	GCV 8015C GRO ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK010		

Compound	Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
6 2-Methylpentane	2	5.151	5.165	-0.014	13918	0	
12 Methyl tert-butyl ether	2	5.193	5.240	-0.047	6794	0.0531	7
$ 16 Trifluorotoluene (Surr)	2	9.759	9.765	-0.006	671819	5.03	
A 5 C6-C10	2	11.872	5.007 -	18.736	6426412	44.8	
A 1 C6-C12	2	13.517	5.007 -	22.028	9320543	57.2	
A 11 GRO	2	13.717	5.018 -	22.415	10468515	0	
7 1,2,4-Trimethylbenzene	2	18.581	18.571	0.010	10105	0.0437	7
14 Dodecane	2	21.734	21.739	-0.005	7832	0	
9 Naphthalene	2	22.061	22.062	-0.001	35904	0.3146	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

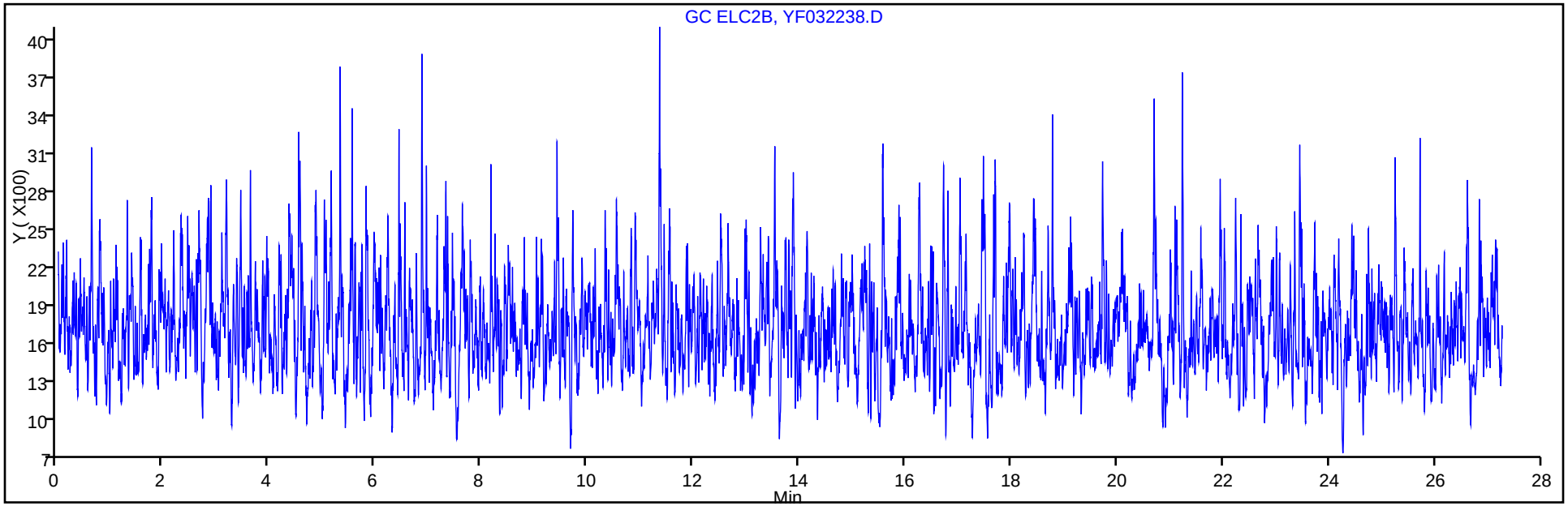
Report Date: 23-Mar-2013 16:35:47 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

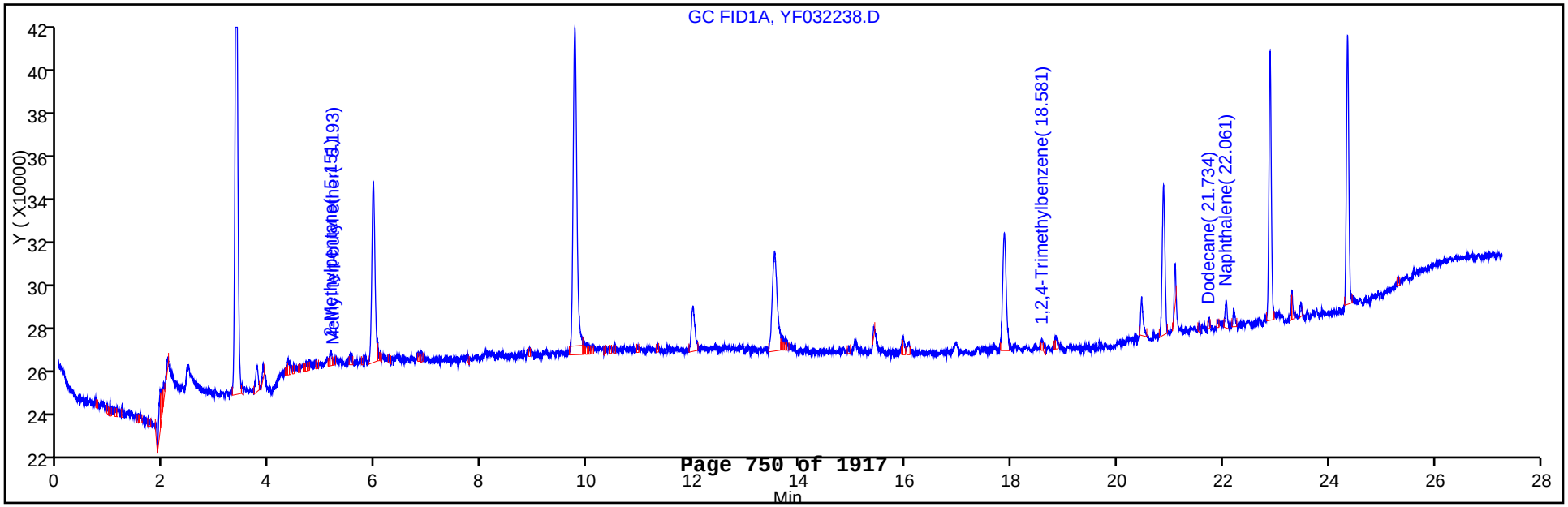
Data File: \\Ncchrom\ChromData\YPID\20130322-18168.b\YF032238.D

Injection Date:	23-Mar-2013 08:14:49	Limit Group:	GCV 8015C GRO ICAL
Client ID:		Instrument ID:	YPID
Lims Batch ID:	79100	Lims Sample ID:	38
Operator ID:	1765	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



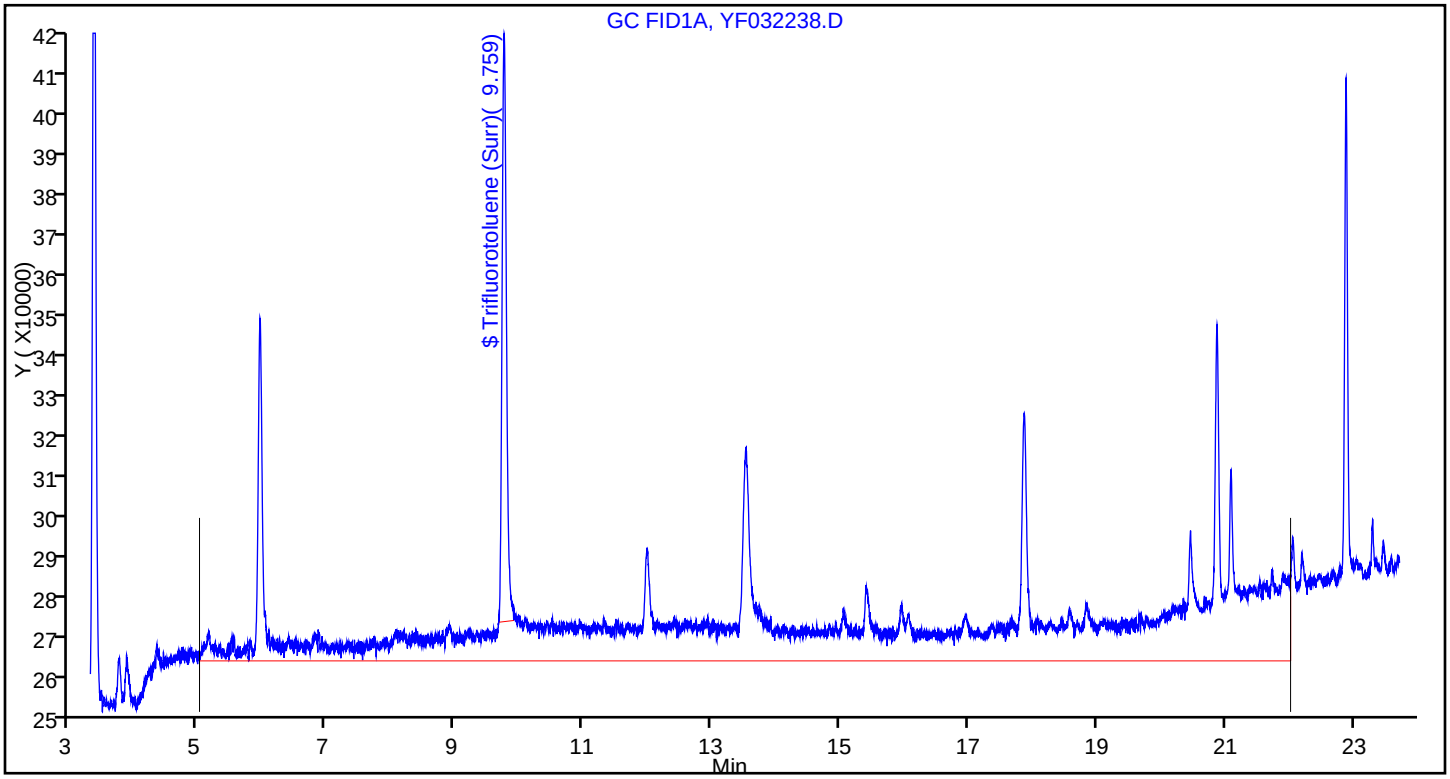
Report Date: 23-Mar-2013 16:35:48 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\YPID\20130322-18168.b\YF032238.D

Injection Date:	23-Mar-2013 08:14:49	Limit Group:	GCV 8015C GRO ICAL
Client ID:		Instrument ID:	YPID
Lims Batch ID:	79100	Lims Sample ID:	38
Operator ID:	1765	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

A 1 C6-C12, Detector: 2, GC FID1A



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-79100/39

Matrix: Water Lab File ID: YF032239.D

Analysis Method: 8015B_GRO/DOD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2013 08:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 79100 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00061	C6-C12	761		100	50	25

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	78		10-150

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\YPID\20130322-18168.b\YF032239.D		
Lims ID:	LCS	Client ID:	
Inject. Date:	23-Mar-2013 08:51:07	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	240-0018168-039		
Misc. Info.:			
Operator:	1765	Instrument ID:	YPID
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	79100	Lims Sample ID:	39
Detector 1 :	GC ELC2B		
Detector 2 :	GC FID1A		
Method:	\\Ncchrom\ChromData\YPID\20130322-18168.b\Y80158021.m		
Last Update:	23-Mar-2013 16:35:41	Calib Date:	18-Jan-2013 18:43:52
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\YPID\20130118-16706.b\YF011809.D		
Limit Group:	GCV 8015C GRO ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK010		

Compound	Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
$ 16 Trifluorotoluene (Surr)	2	9.762	9.765	-0.003	1042187	7.81	
A 5 C6-C10	2	11.872	5.007 - 18.736		108301155	754.5	
A 1 C6-C12	2	13.517	5.007 - 22.028		123914654	760.8	

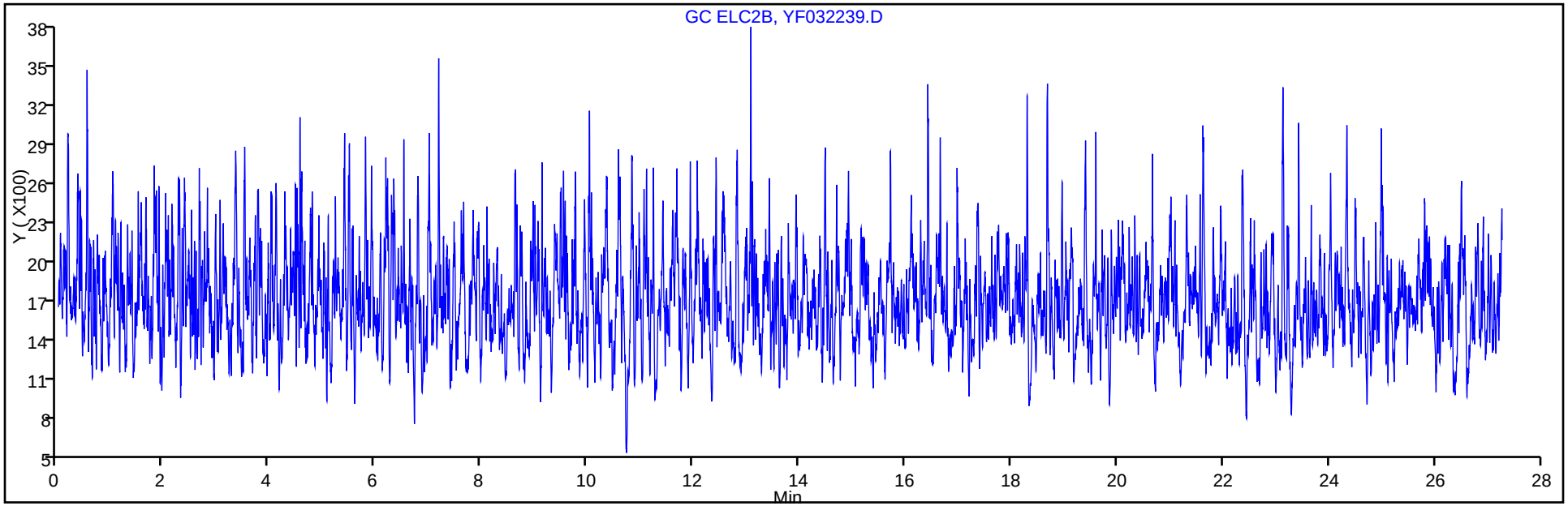
Report Date: 23-Mar-2013 16:35:49 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

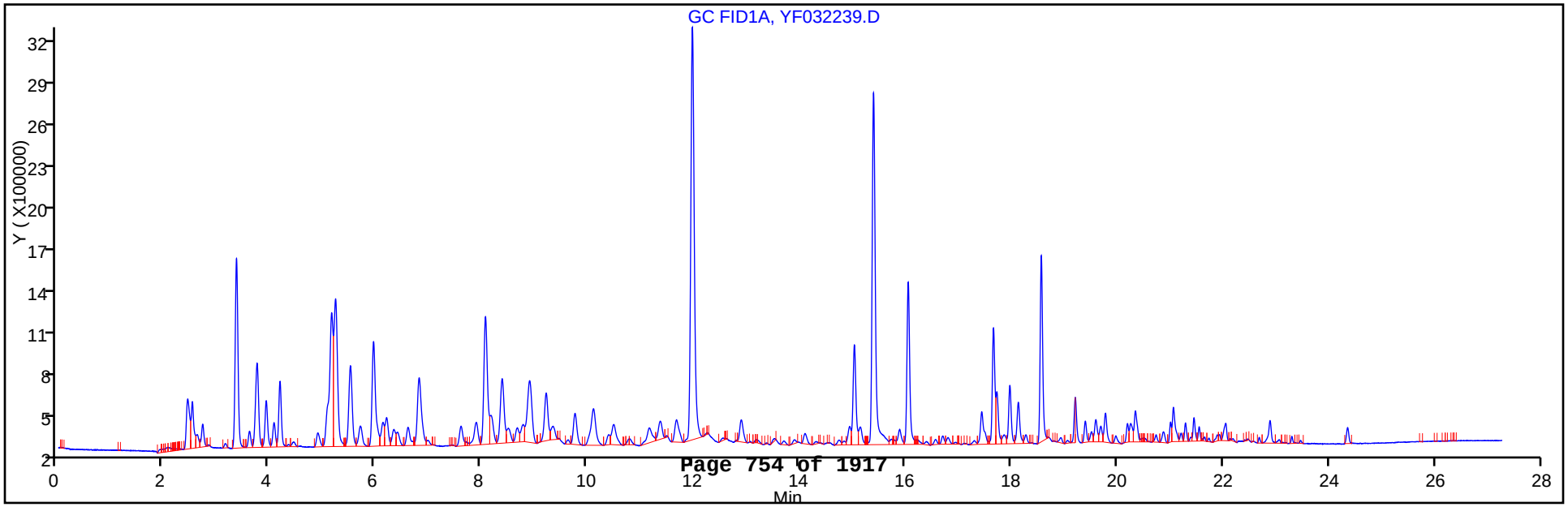
Data File: \\Ncchrom\ChromData\YPID\20130322-18168.b\YF032239.D

Injection Date:	23-Mar-2013 08:51:07	Limit Group:	GCV 8015C GRO ICAL
Client ID:		Instrument ID:	YPID
Lims Batch ID:	79100	Lims Sample ID:	39
Operator ID:	1765	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-79100/37

Matrix: Water Lab File ID: YF032237.D

Analysis Method: 8015B_GRO/DOD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2013 07:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 79100 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00061	C6-C12	153	^	100	50	25

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	71		70-130

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\YPID\20130322-18168.b\YF032237.D
Lims ID: MRL Client ID:
Inject. Date: 23-Mar-2013 07:38:37 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018168-037
Misc. Info.:
Operator: 1765 Instrument ID: YPID
Purge Vol: 5.000 mL ALS Bottle#: 1
Lims Batch ID: 79100 Lims Sample ID: 37
Detector 1 : GC ELC2B
Detector 2 : GC FID1A

Method: \\Ncchrom\ChromData\YPID\20130322-18168.b\Y80158021.m
Last Update: 23-Mar-2013 16:35:41 Calib Date: 18-Jan-2013 18:43:52
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\YPID\20130118-16706.b\YF011809.D
Limit Group: GCV 8015C GRO ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK010

Compound	Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
6 2-Methylpentane	2	5.160	5.165	-0.005	631392	0	
12 Methyl tert-butyl ether	2	5.238	5.240	-0.002	1724968	13.5	
$ 16 Trifluorotoluene (Surr)	2	9.759	9.765	-0.006	952787	7.14	
A 5 C6-C10	2	11.872	5.007 -	18.736	20642289	143.8	
A 1 C6-C12	2	13.517	5.007 -	22.028	24968365	153.3	
A 11 GRO	2	13.717	5.018 -	22.415	26449476	0	
7 1,2,4-Trimethylbenzene	2	18.576	18.571	0.005	443394	1.92	
14 Dodecane	2	21.736	21.739	-0.003	17292	0	
9 Naphthalene	2	22.060	22.062	-0.002	97905	0.8578	

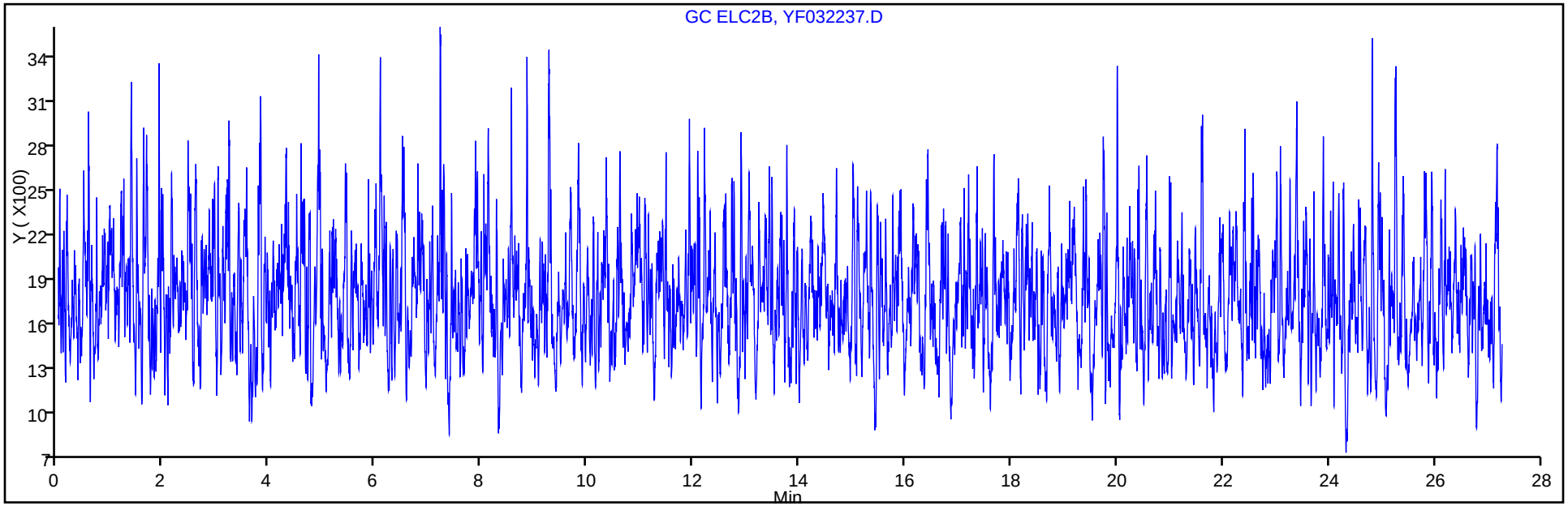
Report Date: 23-Mar-2013 16:35:45 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

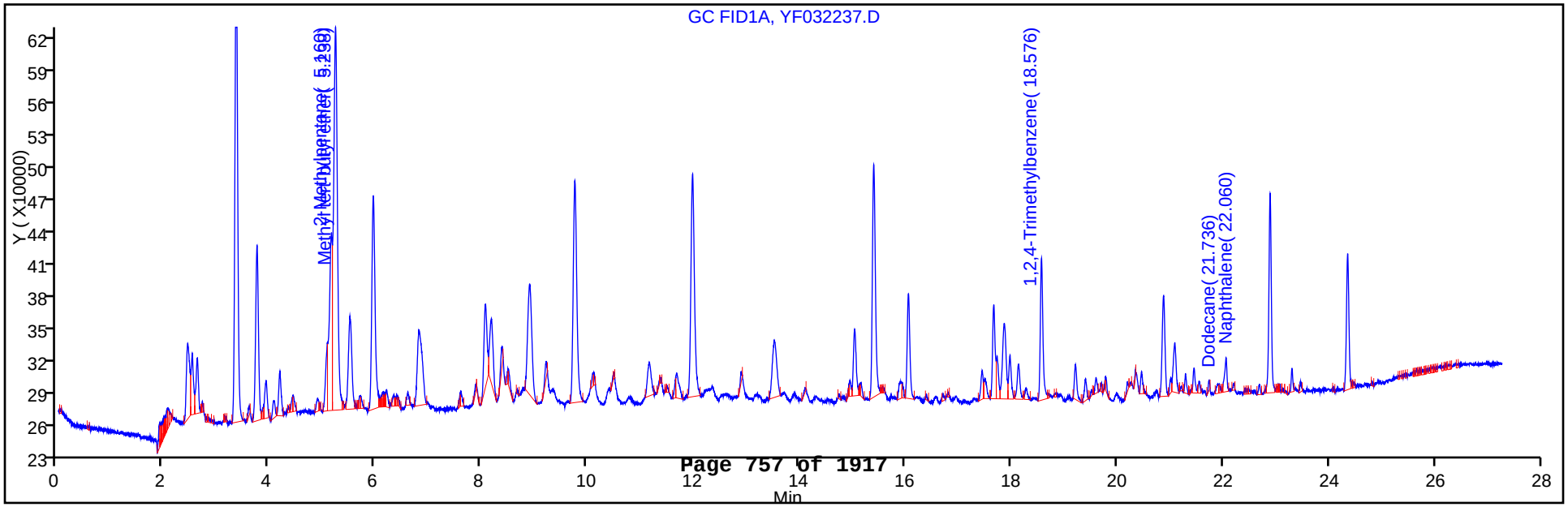
Data File: \\Ncchrom\ChromData\YPID\20130322-18168.b\YF032237.D

Injection Date:	23-Mar-2013 07:38:37	Limit Group:	GCV 8015C GRO ICAL
Client ID:		Instrument ID:	YPID
Lims Batch ID:	79100	Lims Sample ID:	37
Operator ID:	1765	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-79100/45

Matrix: Water Lab File ID: YF032245.D

Analysis Method: 8015B_GRO/DOD Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2013 12:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 79100 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00061	C6-C12	151	^	100	50	25

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	67	^	70-130

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\YPID\20130322-18168.b\YF032245.D
Lims ID: MRL Client ID:
Inject. Date: 23-Mar-2013 12:28:51 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018168-045
Misc. Info.:
Operator: 1765 Instrument ID: YPID
Purge Vol: 5.000 mL ALS Bottle#: 1
Lims Batch ID: 79100 Lims Sample ID: 45
Detector 1 : GC ELC2B
Detector 2 : GC FID1A

Method: \\Ncchrom\ChromData\YPID\20130322-18168.b\Y80158021.m
Last Update: 23-Mar-2013 16:35:57 Calib Date: 18-Jan-2013 18:43:52
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\YPID\20130118-16706.b\YF011809.D
Limit Group: GCV 8015C GRO ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK010

Compound	Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
6 2-Methylpentane	2	5.159	5.165	-0.006	591047	0	
12 Methyl tert-butyl ether	2	5.239	5.240	-0.001	1646218	12.9	
$ 16 Trifluorotoluene (Surr)	2	9.760	9.763	-0.003	896100	6.71	
A 5 C6-C10	2	11.872	5.007 -	18.736	19783520	137.8	
A 1 C6-C12	2	13.517	5.007 -	22.028	24524567	150.6	
A 11 GRO	2	13.717	5.018 -	22.415	26013994	0	
7 1,2,4-Trimethylbenzene	2	18.575	18.571	0.004	385024	1.67	
14 Dodecane	2	21.745	21.739	0.006	14566	0	
9 Naphthalene	2	22.060	22.062	-0.002	108643	0.9519	

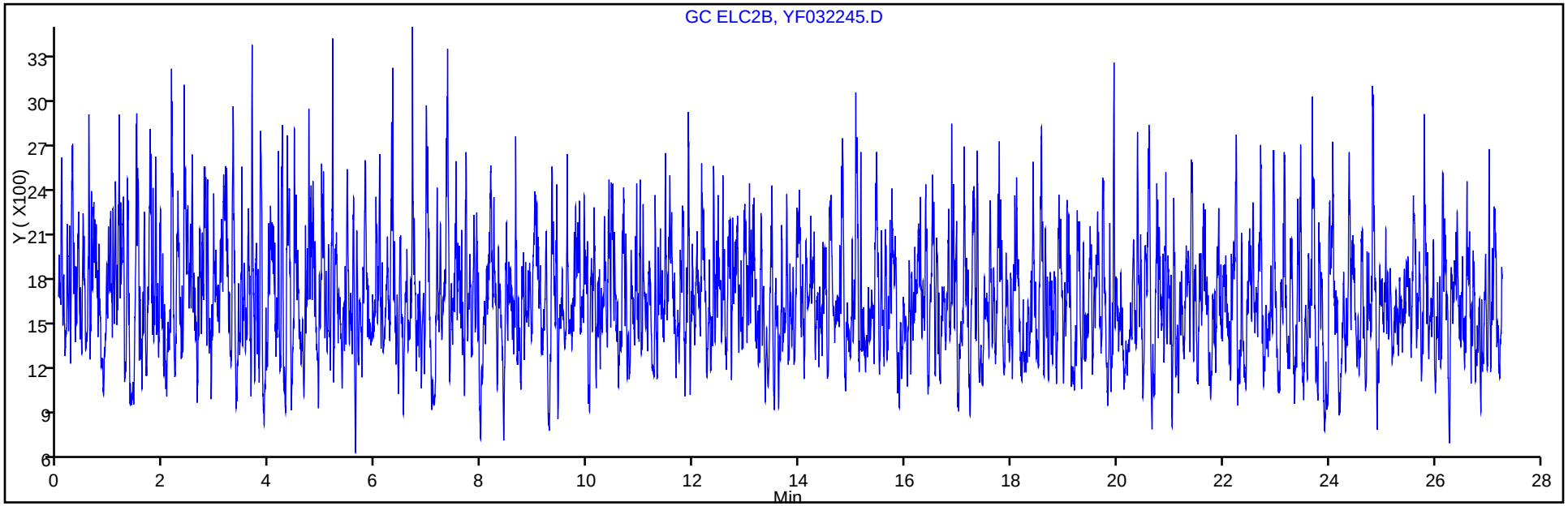
Report Date: 23-Mar-2013 16:35:59 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

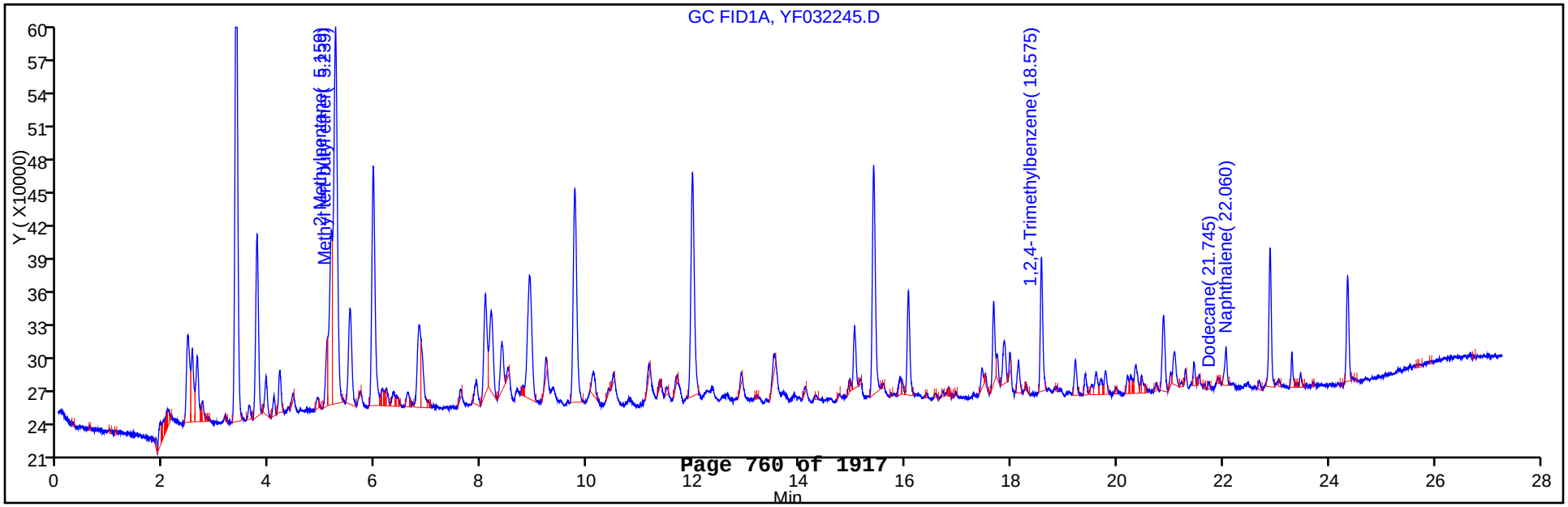
Data File: \\Ncchrom\ChromData\YPID\20130322-18168.b\YF032245.D

Injection Date:	23-Mar-2013 12:28:51	Limit Group:	GCV 8015C GRO ICAL
Client ID:		Instrument ID:	YPID
Lims Batch ID:	79100	Lims Sample ID:	45
Operator ID:	1765	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: 079-0007-0001-SOURCEWATER Lab Sample ID: 240-21987-1 MS

Matrix: Water Lab File ID: YF032241.D

Analysis Method: 8015B_GRO/DOD Date Collected: 03/14/2013 12:00

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2013 10:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 79100 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00061	C6-C12	767		100	50	25

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	78		10-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\YPID\20130322-18168.b\YF032241.D
Lims ID: 240-21987-B-1 MS Client ID:
Inject. Date: 23-Mar-2013 10:03:42 Dil. Factor: 1.0000
Sample Type: MS
Sample ID: 240-0018168-041
Misc. Info.:
Operator: 1765 Instrument ID: YPID
Purge Vol: 5.000 mL ALS Bottle#: 1
Lims Batch ID: 79100 Lims Sample ID: 41
Detector 1 : GC ELC2B
Detector 2 : GC FID1A

Method: \\Ncchrom\ChromData\YPID\20130322-18168.b\Y80158021.m
Last Update: 23-Mar-2013 16:35:41 Calib Date: 18-Jan-2013 18:43:52
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\YPID\20130118-16706.b\YF011809.D
Limit Group: GCV 8015C GRO ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK010

Compound	Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
6 2-Methylpentane	2	5.166	5.165	0.001	4901185	0	
12 Methyl tert-butyl ether	2	5.241	5.240	0.001	4909580	38.4	
$ 16 Trifluorotoluene (Surr)	2	9.761	9.765	-0.004	1043554	7.82	
A 5 C6-C10	2	11.872	5.007 -	18.736	109385612	762.1	
A 1 C6-C12	2	13.517	5.007 -	22.028	124989101	767.4	
A 11 GRO	2	13.717	5.018 -	22.415	127270131	0	
7 1,2,4-Trimethylbenzene	2	18.571	18.571	0.0	4369426	18.9	
14 Dodecane	2	21.741	21.739	0.002	64644	0	
9 Naphthalene	2	22.056	22.062	-0.006	532306	4.66	

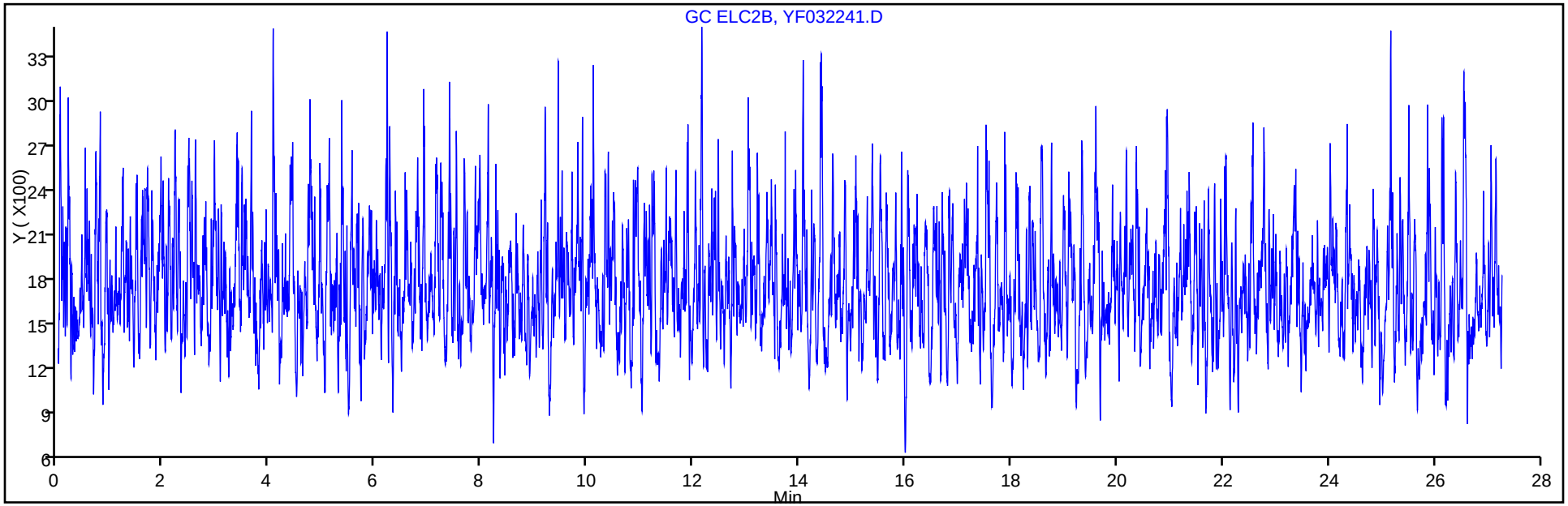
Report Date: 23-Mar-2013 16:35:53 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

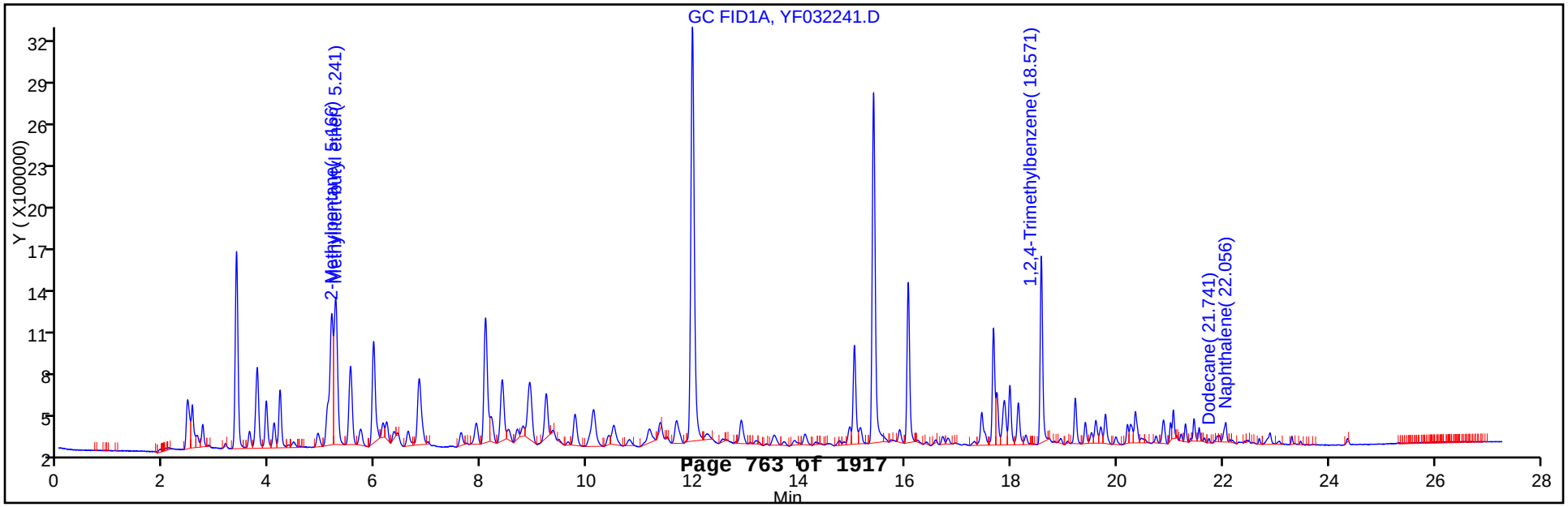
Data File: \\Ncchrom\ChromData\YPID\20130322-18168.b\YF032241.D

Injection Date:	23-Mar-2013 10:03:42	Limit Group:	GCV 8015C GRO ICAL
Client ID:		Instrument ID:	YPID
Lims Batch ID:	79100	Lims Sample ID:	41
Operator ID:	1765	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: 079-0007-0001-SOURCEWATER Lab Sample ID: 240-21987-1 MSD

Matrix: Water Lab File ID: YF032242.D

Analysis Method: 8015B_GRO/DOD Date Collected: 03/14/2013 12:00

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2013 10:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 79100 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00061	C6-C12	751		100	50	25

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	81		10-150

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\YPID\20130322-18168.b\YF032242.D		
Lims ID:	240-21987-B-1 MSD	Client ID:	
Inject. Date:	23-Mar-2013 10:40:07	Dil. Factor:	1.0000
Sample Type:	MSD		
Sample ID:	240-0018168-042		
Misc. Info.:			
Operator:	1765	Instrument ID:	YPID
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	79100	Lims Sample ID:	42
Detector 1 :	GC ELC2B		
Detector 2 :	GC FID1A		
Method:	\\Ncchrom\ChromData\YPID\20130322-18168.b\Y80158021.m		
Last Update:	23-Mar-2013 16:35:41	Calib Date:	18-Jan-2013 18:43:52
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\YPID\20130118-16706.b\YF011809.D		
Limit Group:	GCV 8015C GRO ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK010		

Compound	Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
6 2-Methylpentane	2	5.164	5.165	-0.001	4847485	0	
12 Methyl tert-butyl ether	2	5.238	5.240	-0.002	5101413	39.9	
$ 16 Trifluorotoluene (Surr)	2	9.761	9.765	-0.004	1076804	8.07	
A 5 C6-C10	2	11.872	5.007 -	18.736	107259605	747.3	
A 1 C6-C12	2	13.517	5.007 -	22.028	122283902	750.8	
A 11 GRO	2	13.717	5.018 -	22.415	124666700	0	
7 1,2,4-Trimethylbenzene	2	18.572	18.571	0.001	4357693	18.9	
14 Dodecane	2	21.735	21.739	-0.004	51259	0	
9 Naphthalene	2	22.056	22.062	-0.006	624792	5.47	

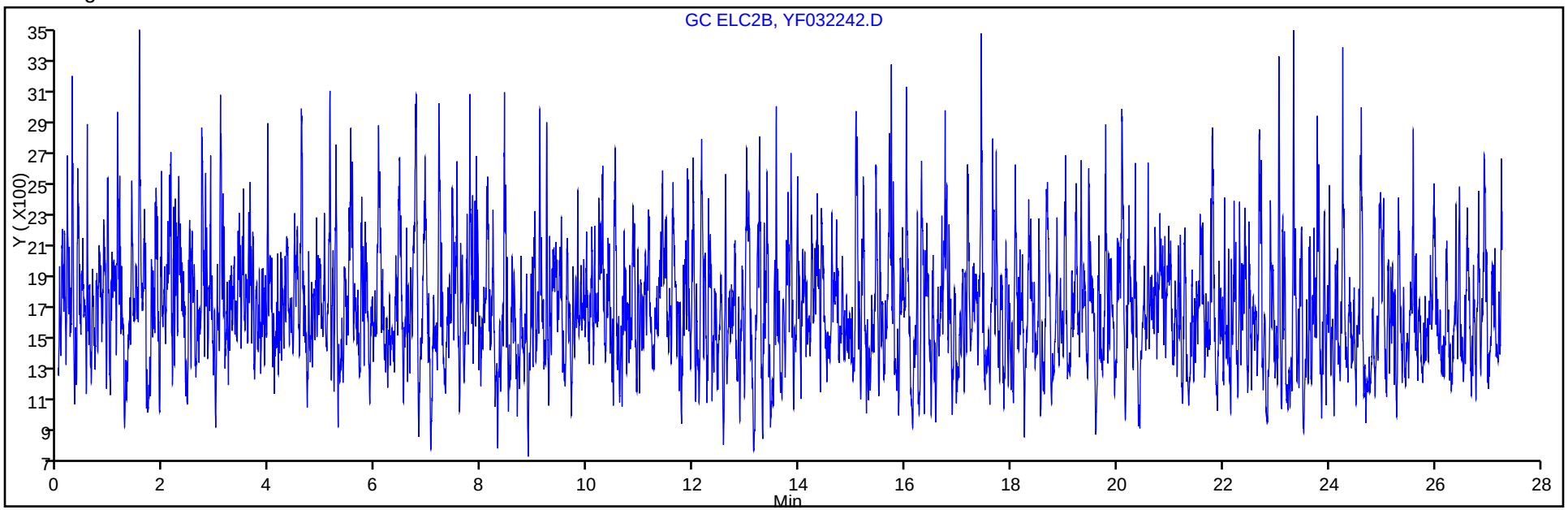
Report Date: 23-Mar-2013 16:35:54 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

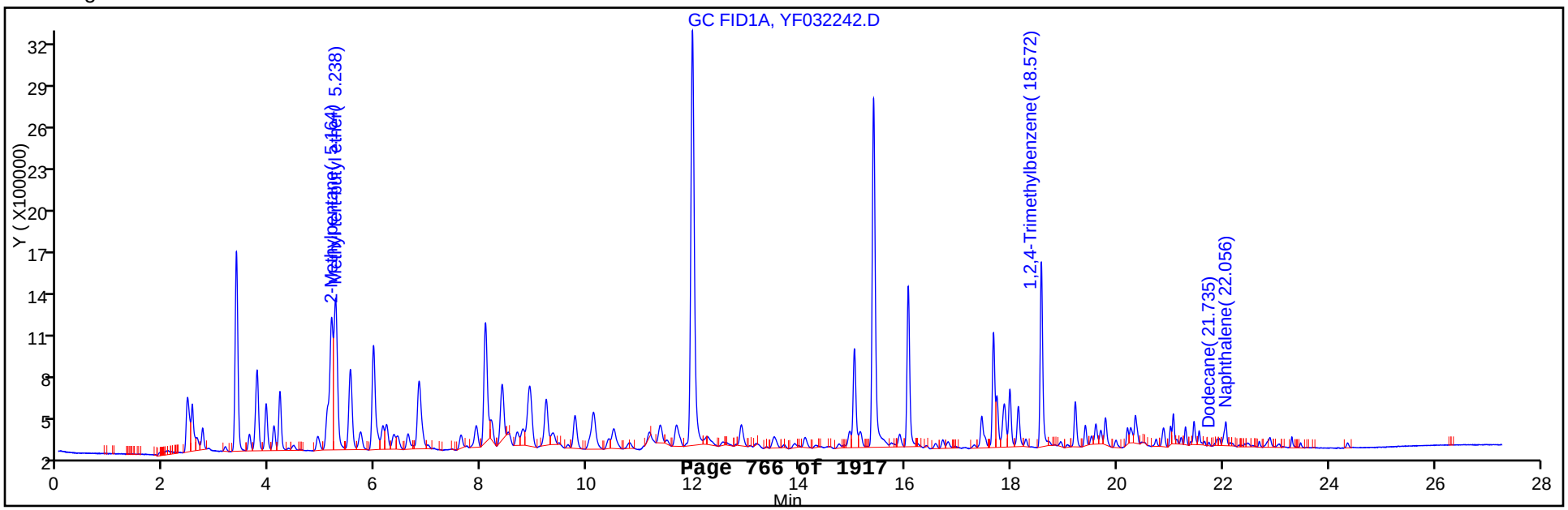
Data File: \\Ncchrom\ChromData\YPID\20130322-18168.b\YF032242.D

Injection Date:	23-Mar-2013 10:40:07	Limit Group:	GCV 8015C GRO ICAL
Client ID:		Instrument ID:	YPID
Lims Batch ID:	79100	Lims Sample ID:	42
Operator ID:	1765	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: YPID Start Date: 12/28/2012 11:01

Analysis Batch Number: 70393 End Date: 12/28/2012 21:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		12/28/2012 11:01	1		RTX-VRX 0.45(mm)
STD1 240-70393/5 IC		12/28/2012 11:38	1	YF122805.D	RTX-VRX 0.45(mm)
STD2 240-70393/6 IC		12/28/2012 12:16	1	YF122806.D	RTX-VRX 0.45(mm)
STD3 240-70393/7 IC		12/28/2012 12:54	1	YF122807.D	RTX-VRX 0.45(mm)
STD4 240-70393/8 ICRT		12/28/2012 13:32	1	YF122808.D	RTX-VRX 0.45(mm)
STD5 240-70393/9 IC		12/28/2012 14:10	1	YF122809.D	RTX-VRX 0.45(mm)
STD6 240-70393/10 IC		12/28/2012 14:47	1	YF122810.D	RTX-VRX 0.45(mm)
ICV 240-70393/11		12/28/2012 15:24	1	YF122811.D	RTX-VRX 0.45(mm)
ZZZZZ		12/28/2012 16:40	1		RTX-VRX 0.45(mm)
ZZZZZ		12/28/2012 17:18	1		RTX-VRX 0.45(mm)
ZZZZZ		12/28/2012 17:56	1		RTX-VRX 0.45(mm)
ZZZZZ		12/28/2012 18:34	1		RTX-VRX 0.45(mm)
CCV 240-70393/20		12/28/2012 21:07	1		RTX-VRX 0.45(mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: YPID Start Date: 03/22/2013 10:31

Analysis Batch Number: 79100 End Date: 03/23/2013 12:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/22/2013 10:31	1		RTX-VRX 0.45(mm)
CCV 240-79100/5 CCVRT		03/22/2013 11:38	1	YF032205.D	RTX-VRX 0.45(mm)
ZZZZZ		03/22/2013 12:39	1		RTX-VRX 0.45(mm)
ZZZZZ		03/22/2013 13:16	1		RTX-VRX 0.45(mm)
ZZZZZ		03/22/2013 13:52	1		RTX-VRX 0.45(mm)
CCV 240-79100/9		03/22/2013 14:29	1		RTX-VRX 0.45(mm)
ZZZZZ		03/22/2013 15:06	1		RTX-VRX 0.45(mm)
ZZZZZ		03/22/2013 15:43	1		RTX-VRX 0.45(mm)
ZZZZZ		03/22/2013 16:20	1		RTX-VRX 0.45(mm)
ZZZZZ		03/22/2013 16:57	1		RTX-VRX 0.45(mm)
ZZZZZ		03/22/2013 17:34	1		RTX-VRX 0.45(mm)
ZZZZZ		03/22/2013 18:11	1		RTX-VRX 0.45(mm)
ZZZZZ		03/22/2013 18:48	1		RTX-VRX 0.45(mm)
ZZZZZ		03/22/2013 19:25	100		RTX-VRX 0.45(mm)
ZZZZZ		03/22/2013 20:02	10		RTX-VRX 0.45(mm)
ZZZZZ		03/22/2013 20:38	5		RTX-VRX 0.45(mm)
CCV 240-79100/20		03/22/2013 21:15	1		RTX-VRX 0.45(mm)
ZZZZZ		03/22/2013 21:52	5		RTX-VRX 0.45(mm)
ZZZZZ		03/22/2013 22:28	1		RTX-VRX 0.45(mm)
ZZZZZ		03/22/2013 23:05	1		RTX-VRX 0.45(mm)
ZZZZZ		03/22/2013 23:42	2		RTX-VRX 0.45(mm)
ZZZZZ		03/23/2013 00:19	1		RTX-VRX 0.45(mm)
ZZZZZ		03/23/2013 00:55	5		RTX-VRX 0.45(mm)
ZZZZZ		03/23/2013 01:32	1		RTX-VRX 0.45(mm)
ZZZZZ		03/23/2013 02:09	1		RTX-VRX 0.45(mm)
ZZZZZ		03/23/2013 02:46	20		RTX-VRX 0.45(mm)
ZZZZZ		03/23/2013 03:22	1		RTX-VRX 0.45(mm)
CCV 240-79100/31		03/23/2013 03:59	1		RTX-VRX 0.45(mm)
ZZZZZ		03/23/2013 04:35	5		RTX-VRX 0.45(mm)
ZZZZZ		03/23/2013 05:12	10		RTX-VRX 0.45(mm)
CCV 240-79100/36		03/23/2013 07:02	1	YF032236.D	RTX-VRX 0.45(mm)
MRL 240-79100/37		03/23/2013 07:38	1	YF032237.D	RTX-VRX 0.45(mm)
MB 240-79100/38		03/23/2013 08:14	1	YF032238.D	RTX-VRX 0.45(mm)
LCS 240-79100/39		03/23/2013 08:51	1	YF032239.D	RTX-VRX 0.45(mm)
240-21987-1	079-0007-0001-SOURCEWATER	03/23/2013 09:27	1	YF032240.D	RTX-VRX 0.45(mm)
240-21987-1 MS	079-0007-0001-SOURCEWATER MS	03/23/2013 10:03	1	YF032241.D	RTX-VRX 0.45(mm)
240-21987-1 MSD	079-0007-0001-SOURCEWATER MSD	03/23/2013 10:40	1	YF032242.D	RTX-VRX 0.45(mm)
240-21987-3	079-0009-0001-TB TRIP BLANK	03/23/2013 11:16	1	YF032243.D	RTX-VRX 0.45(mm)
CCV 240-79100/44		03/23/2013 11:52	1	YF032244.D	RTX-VRX 0.45(mm)
MRL 240-79100/45		03/23/2013 12:28	1	YF032245.D	RTX-VRX 0.45(mm)

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.: 240-21987-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): ID:

Client Sample ID	Lab Sample ID	C9 #
079-0007-0001-SOURCEWATER	240-21987-1	52

	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.: 240-21987-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): ID:

Client Sample ID	Lab Sample ID	C9 #
	MRL 240-78992/4	102
	MRL 240-78992/9	109

	QC LIMITS
C9 = n-Nonane	70-130

Column to be used to flag recovery values

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P5B21004.D

Lab ID: MRL 240-78992/4 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Diesel	100	91.4 J	91	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.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P5B21009.D

Lab ID: MRL 240-78992/9 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Diesel	100	98.8 J	99	70-130	

Column to be used to flag recovery and RPD values

FORM III 8015B_DRO/DOD

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Sample No.: CCV 240-78992/5 Date Analyzed: 03/21/2013 17:16

Instrument ID: A2HP5R GC Column: ID: ()

Lab File ID (Standard): P5B21005.D Heated Purge: (Y/N) N

Calibration ID: 14111

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				C9 RT #		
CONTINUING CALIBRATION SURROGATE				3.71		
UPPER LIMIT				3.81		
LOWER LIMIT				3.61		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-78992/5 CCVRT		03/21/2013 17:16	P5B21005.D	3.71		
240-21987-1	079-0007-0001-SOURCEWATER	03/21/2013 17:45	P5B21006.D	3.71		
CCV 240-78992/8		03/21/2013 18:45	P5B21008.D	3.71		

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.: 240-21987-1

SDG No.:

Client Sample ID: 079-0007-0001-SOURCEWATER | Lab Sample ID: 240-21987-1

Matrix: Water | Lab File ID: P5B21006.D

Analysis Method: 8015B_DRO/DOD | Date Collected: 03/14/2013 12:00

Extraction Method: 3520C | Date Extracted: 03/18/2013 10:31

Sample wt/vol: 1030(mL) | Date Analyzed: 03/21/2013 17:45

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 78992 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	230	U	490	230	230
STL00272	C20-C34	230	U	490	230	230

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	52		10-110

TestAmerica Canton
Target Compound Quantitation Report

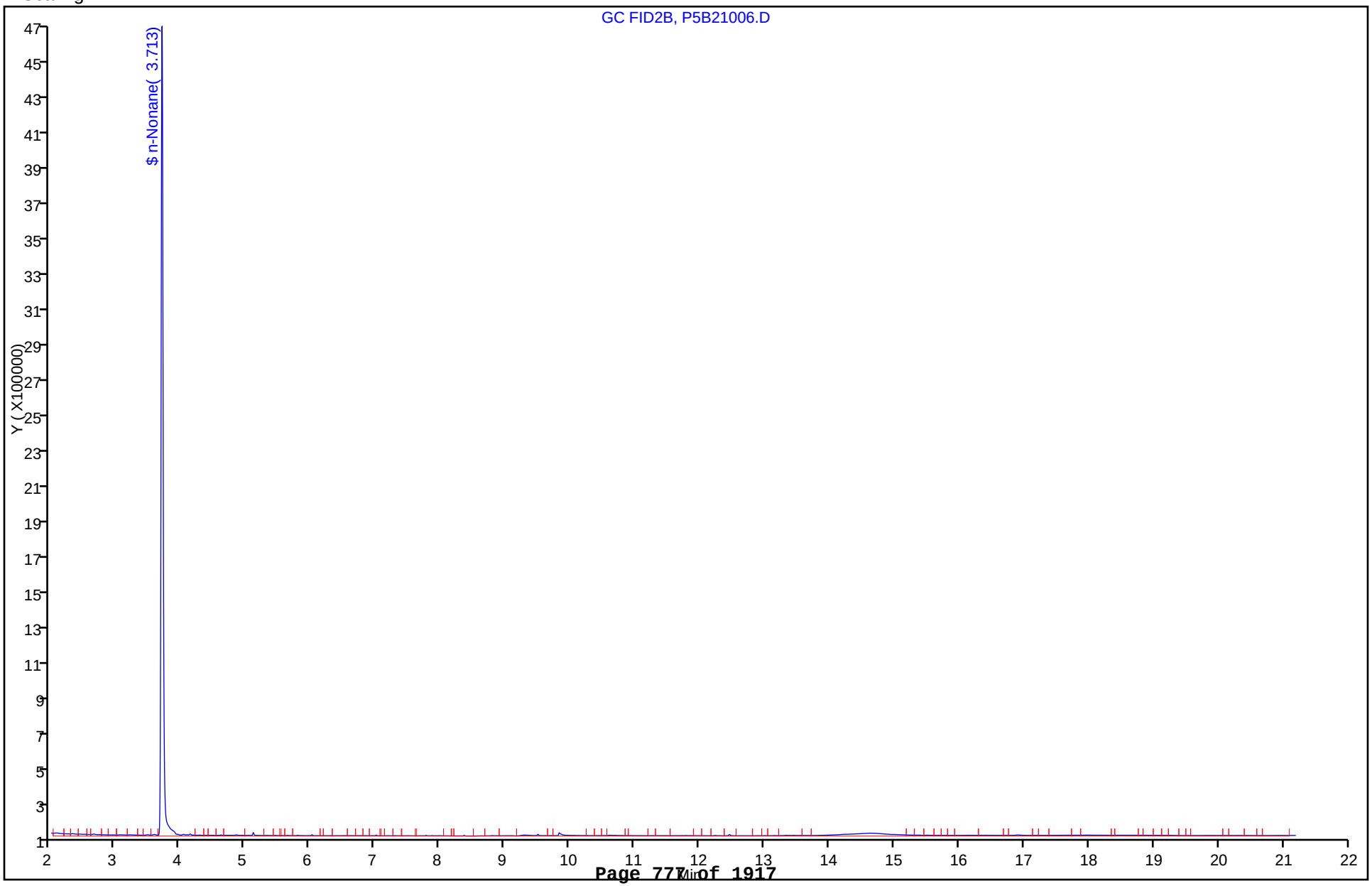
Data File:	\\Ncchrom\ChromData\A2HP5R\20130321-18143.b\P5B21006.D		
Lims ID:	240-21987-O-1-A	Client ID:	079-0007-0001-SOURCEWATER
Inject. Date:	21-Mar-2013 17:45:54	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018143-006		
Misc. Info.:			
Operator:	4275	Instrument ID:	A2HP5R
Injection Vol:	1.0 ul	ALS Bottle#:	56
Lims Batch ID:	78992	Lims Sample ID:	6
Detector:	GC FID2B		
Method:	\\Ncchrom\ChromData\A2HP5R\20130321-18143.b\TPH5R.m		
Last Update:	22-Mar-2013 09:42:48	Calib Date:	11-Mar-2013 18:22:16
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5R\20130311-17906.b\P5B11008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK029		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
3.713	3.713	0.000	10377623	51.7	
A 12 C10-C20					
	4.853 - 9.972				
A 15 Diesel					
	4.853 - 13.335				
A 22 C20-C34					
	9.972 - 15.155				

Report Date: 22-Mar-2013 09:42:49 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP5R\20130321-18143.b\P5B21006.D		
Injection Date:	21-Mar-2013 17:45:54	Limit Group:	GC 8015C TPH ICAL
Client ID:	079-0007-0001-SOURCEWATER	Instrument ID:	A2HP5R
Lims Batch ID:	78992	Lims Sample ID:	6
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.: 240-21987-1 Analy Batch No.: 77903

SDG No.:

Instrument ID: A2HP5R GC Column: ID: Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2013 16:19 Calibration End Date: 03/11/2013 18:22 Calibration ID: 14111

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-77903/4	P5B11004.D
Level 2	STD2 240-77903/5	P5B11005.D
Level 3	STD3 240-77903/6	P5B11006.D
Level 4	STD4 240-77903/7	P5B11007.D
Level 5	STD5 240-77903/8	P5B11008.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Diesel Range Organics [C10 - C28]	9.097	9.097	9.097	9.097	9.097						4.858 - 13.335	9.097
n-Nonane	3.719	3.725	3.725	3.727	3.728						3.649 - 3.789	3.725

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 77903

SDG No.:

Instrument ID: A2HP5R GC Column: ID: Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2013 16:19 Calibration End Date: 03/11/2013 18:22 Calibration ID: 14111

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-77903/4	P5B11004.D
Level 2	STD2 240-77903/5	P5B11005.D
Level 3	STD3 240-77903/6	P5B11006.D
Level 4	STD4 240-77903/7	P5B11007.D
Level 5	STD5 240-77903/8	P5B11008.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]	154517 193069	189436	191622	190865	Ave		183901.941				9.0		20.0			
n-Nonane	171256 208715	206452	209883	206826	Ave		200626.379				8.2		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.: 240-21987-1 Analy Batch No.: 77903

SDG No.:

Instrument ID: A2HP5R GC Column: ID: Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2013 16:19 Calibration End Date: 03/11/2013 18:22 Calibration ID: 14111

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-77903/4	P5B11004.D
Level 2	STD2 240-77903/5	P5B11005.D
Level 3	STD3 240-77903/6	P5B11006.D
Level 4	STD4 240-77903/7	P5B11007.D
Level 5	STD5 240-77903/8	P5B11008.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	15451723	37887160	95811018	190865171	386138932	100	200	500	1000	2000
n-Nonane	Ave	1712562	4129035	10494139	20682585	41743063	10.0	20.0	50.0	100	200

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP5R\20130311-17906.b\P5B11004.D		
Lims ID:	STD1 DIESEL	Client ID:	
Inject. Date:	11-Mar-2013 16:19:09	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	240-0017906-004		
Misc. Info.:			
Operator:	4275	Instrument ID:	A2HP5R
Injection Vol:	1.0 ul	ALS Bottle#:	54
Lims Batch ID:	77903	Lims Sample ID:	4
Sublist:	chrom-TPH5R*sub1		
Detector:	GC FID2B		
Method:	\\Ncchrom\ChromData\A2HP5R\20130311-17906.b\TPH5R.m		
Last Update:	12-Mar-2013 10:27:08	Calib Date:	11-Mar-2013 18:22:16
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5R\20130311-17906.b\P5B11008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK035		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
3.719	3.719	0.000	1712562	8.54	
A 15 Diesel					
9.097	4.858 - 13.335		15451723	84.0	

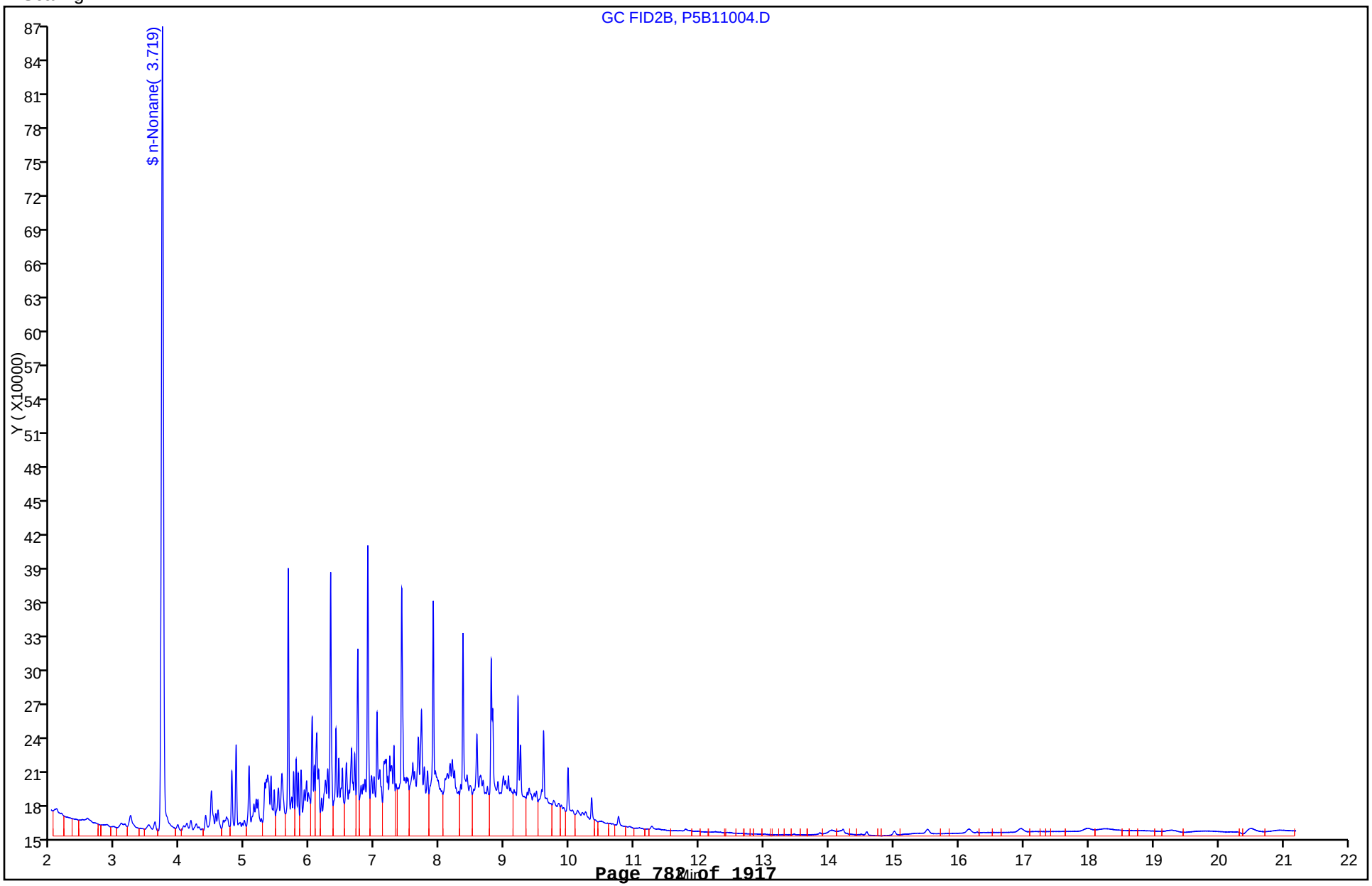
Report Date: 12-Mar-2013 10:27:08 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5R\20130311-17906.b\P5B11004.D

Injection Date:	11-Mar-2013 16:19:09	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5R
Lims Batch ID:	77903	Lims Sample ID:	4
Operator ID:	4275	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP5R\20130311-17906.b\P5B11005.D		
Lims ID:	STD2 DIESEL	Client ID:	
Inject. Date:	11-Mar-2013 16:50:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	240-0017906-005		
Misc. Info.:			
Operator:	4275	Instrument ID:	A2HP5R
Injection Vol:	1.0 ul	ALS Bottle#:	55
Lims Batch ID:	77903	Lims Sample ID:	5
Sublist:	chrom-TPH5R*sub1		
Detector:	GC FID2B		
Method:	\\Ncchrom\ChromData\A2HP5R\20130311-17906.b\TPH5R.m		
Last Update:	12-Mar-2013 10:27:09	Calib Date:	11-Mar-2013 18:22:16
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5R\20130311-17906.b\P5B11008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK035		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
3.725	3.719	0.006	4129035	20.6	
A 15 Diesel					
9.097	4.858 - 13.335		37887160	206.0	

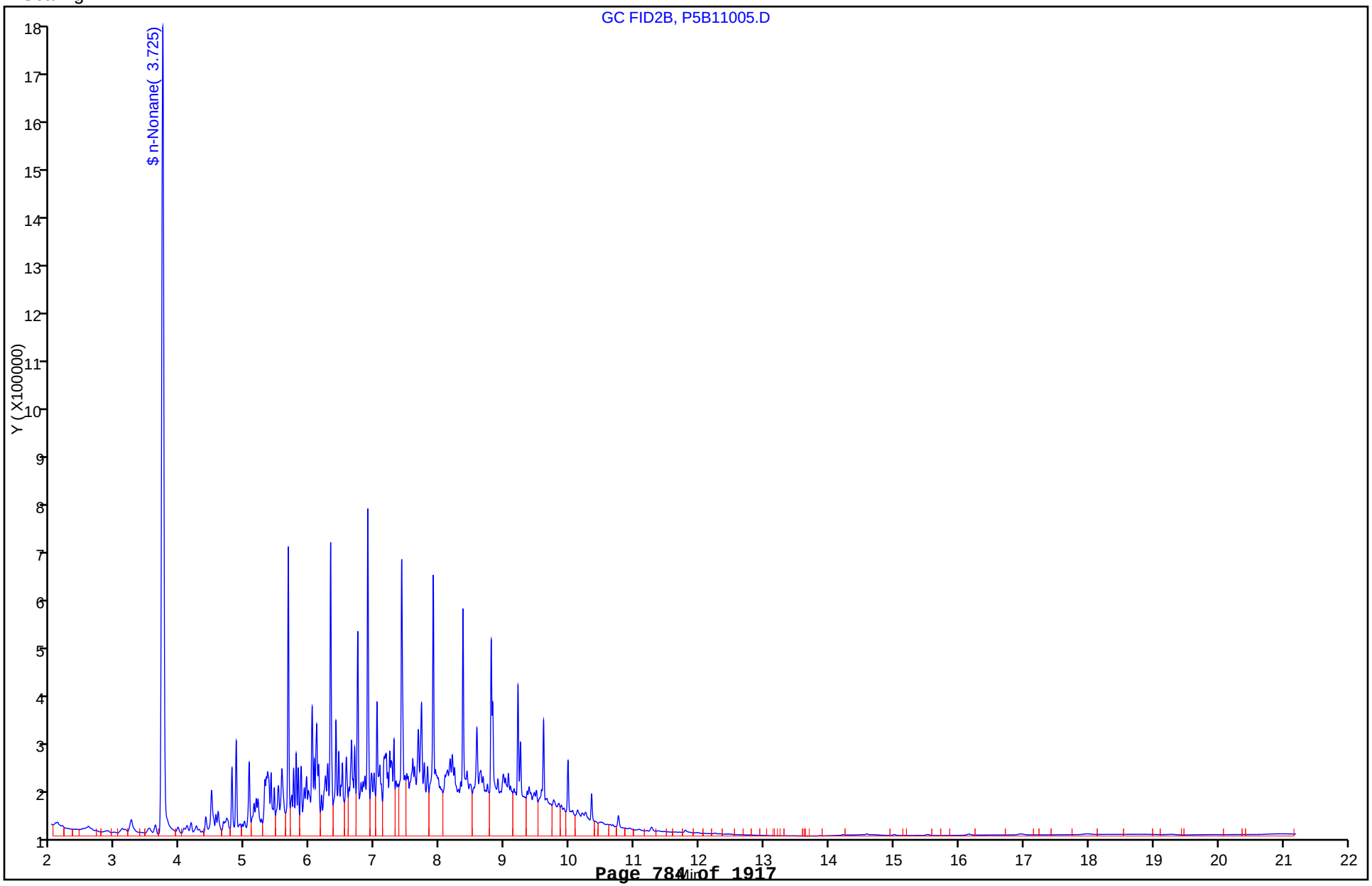
Report Date: 12-Mar-2013 10:27:09 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5R\20130311-17906.b\P5B11005.D

Injection Date:	11-Mar-2013 16:50:00	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5R
Lims Batch ID:	77903	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\A2HP5R\20130311-17906.b\P5B11006.D		
Lims ID:	STD3 DIESEL	Client ID:	
Inject. Date:	11-Mar-2013 17:20:43	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	240-0017906-006		
Misc. Info.:			
Operator:	4275	Instrument ID:	A2HP5R
Injection Vol:	1.0 ul	ALS Bottle#:	56
Lims Batch ID:	77903	Lims Sample ID:	6
Sublist:	chrom-TPH5R*sub1		
Detector:	GC FID2B		
Method:	\\Ncchrom\ChromData\A2HP5R\20130311-17906.b\TPH5R.m		
Last Update:	12-Mar-2013 10:27:10	Calib Date:	11-Mar-2013 18:22:16
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5R\20130311-17906.b\P5B11008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK035		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
3.725	3.719	0.006	10494139	52.3	
A 15 Diesel					
9.097	4.858 - 13.335		95811018	521.0	

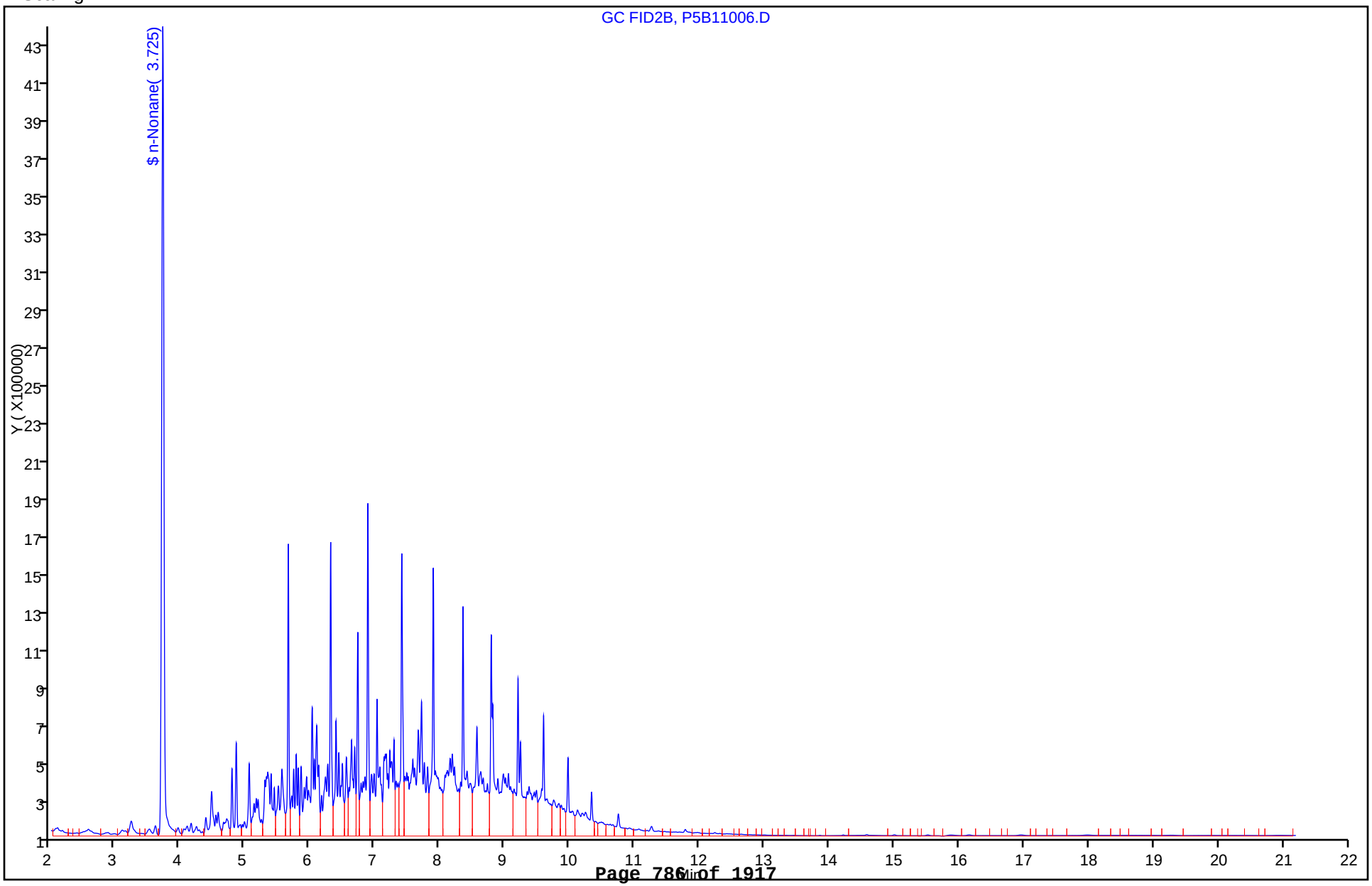
Report Date: 12-Mar-2013 10:27:10 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5R\20130311-17906.b\P5B11006.D

Injection Date:	11-Mar-2013 17:20:43	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5R
Lims Batch ID:	77903	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\A2HP5R\20130311-17906.b\P5B11007.D		
Lims ID:	STD4 DIESEL	Client ID:	
Inject. Date:	11-Mar-2013 17:51:32	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	240-0017906-007		
Misc. Info.:			
Operator:	4275	Instrument ID:	A2HP5R
Injection Vol:	1.0 ul	ALS Bottle#:	57
Lims Batch ID:	77903	Lims Sample ID:	7
Sublist:	chrom-TPH5R*sub1		
Detector:	GC FID2B		
Method:	\\Ncchrom\ChromData\A2HP5R\20130311-17906.b\TPH5R.m		
Last Update:	12-Mar-2013 10:27:11	Calib Date:	11-Mar-2013 18:22:16
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5R\20130311-17906.b\P5B11008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK035		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
3.727	3.719	0.008	20682585	103.1	
A 15 Diesel					
9.097	4.858 - 13.335		190865171	1037.9	

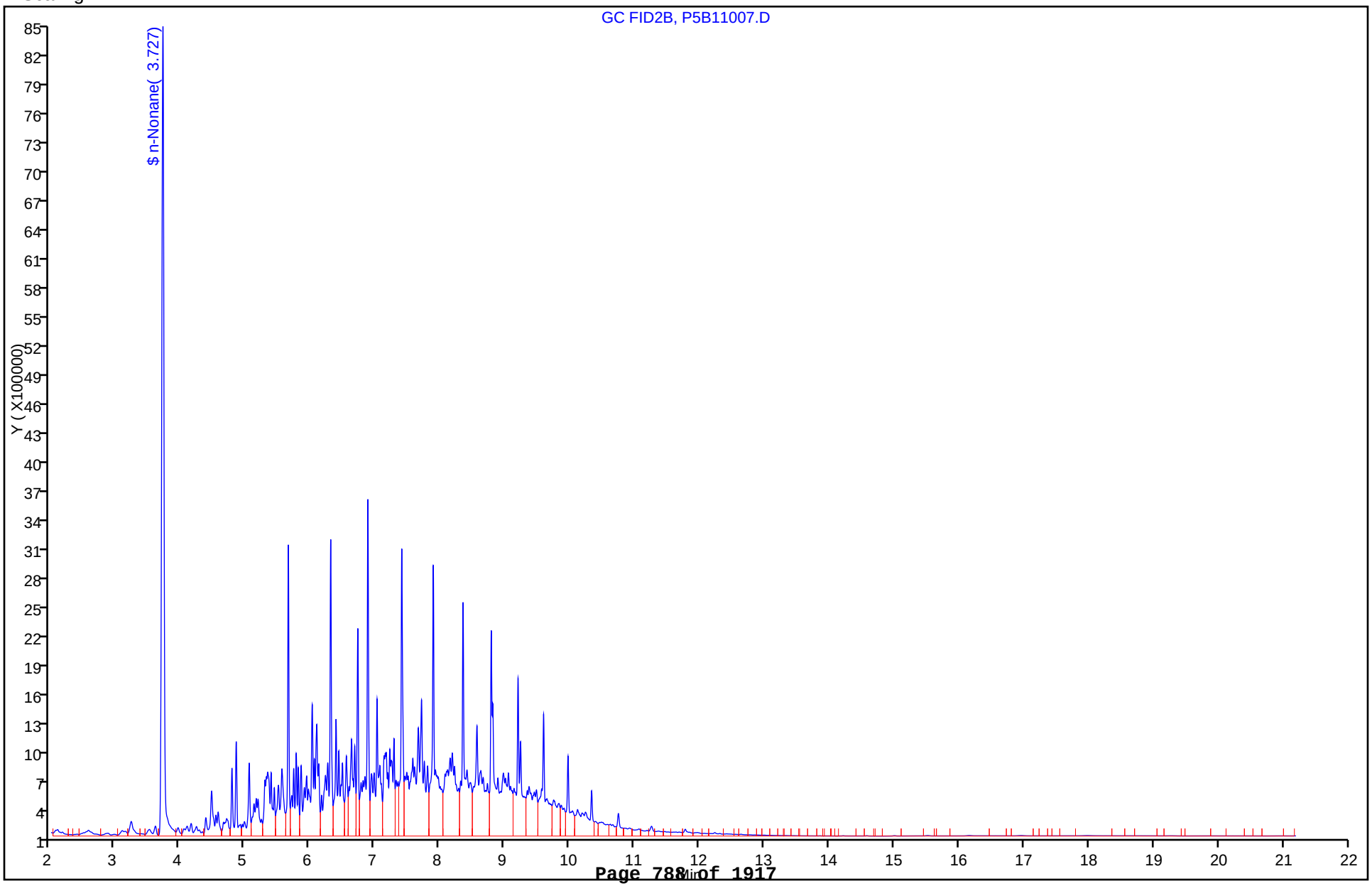
Report Date: 12-Mar-2013 10:27:11 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5R\20130311-17906.b\P5B11007.D

Injection Date:	11-Mar-2013 17:51:32	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5R
Lims Batch ID:	77903	Lims Sample ID:	7
Operator ID:	4275	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Canton
Target Compound Quantitation Report

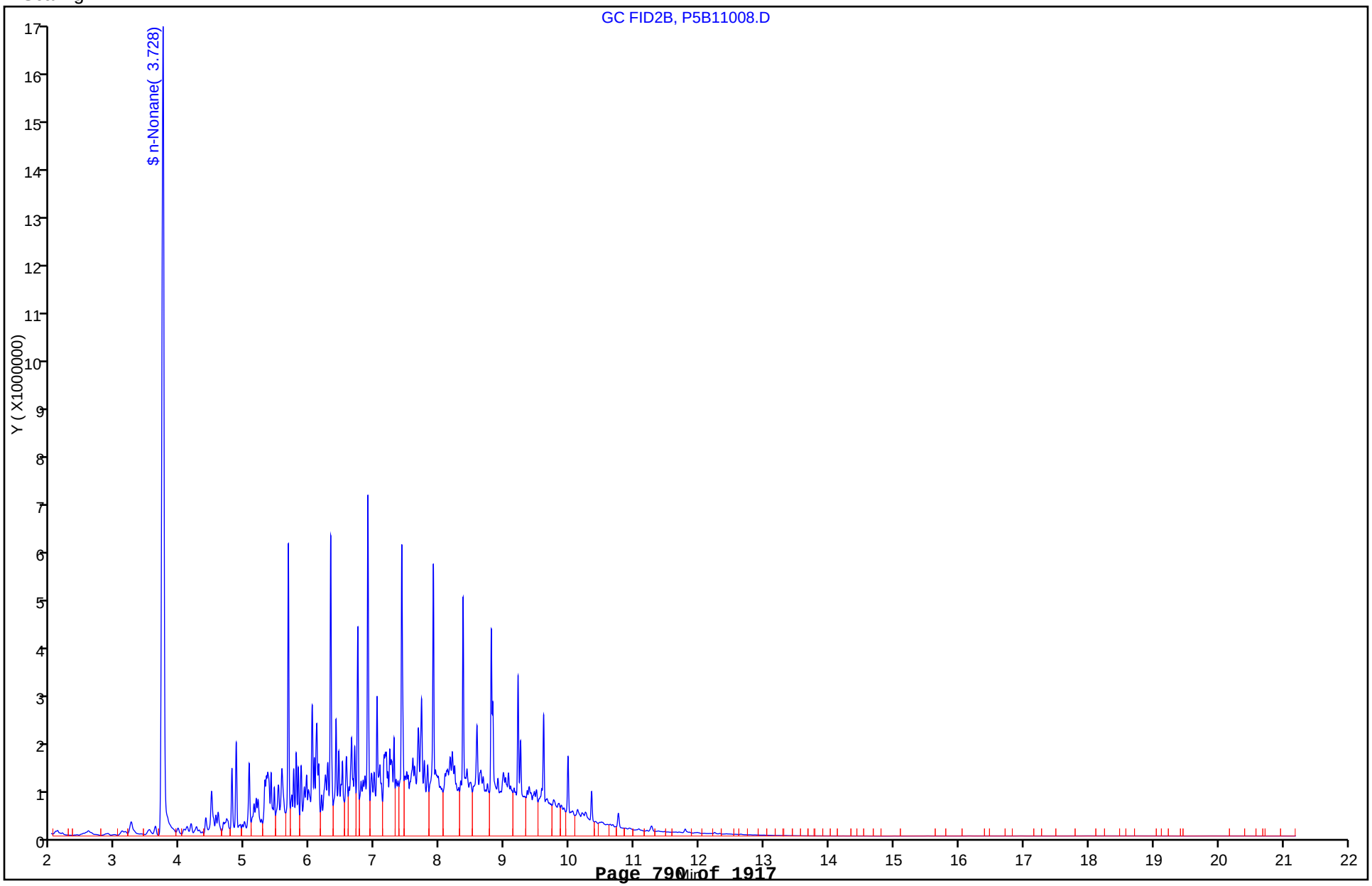
Data File:	\\Ncchrom\ChromData\A2HP5R\20130311-17906.b\P5B11008.D		
Lims ID:	STD5 DIESEL	Client ID:	
Inject. Date:	11-Mar-2013 18:22:16	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	240-0017906-008		
Misc. Info.:			
Operator:	4275	Instrument ID:	A2HP5R
Injection Vol:	1.0 ul	ALS Bottle#:	58
Lims Batch ID:	77903	Lims Sample ID:	8
Sublist:	chrom-TPH5R*sub1		
Detector:	GC FID2B		
Method:	\\Ncchrom\ChromData\A2HP5R\20130311-17906.b\TPH5R.m		
Last Update:	12-Mar-2013 10:27:12	Calib Date:	11-Mar-2013 18:22:16
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5R\20130311-17906.b\P5B11008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK035		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
3.728	3.719	0.009	41743063	208.1	
A 15 Diesel					
9.097	4.858 - 13.335		386138932	2099.7	

Report Date: 12-Mar-2013 10:27:12 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP5R\20130311-17906.b\P5B11008.D		
Injection Date:	11-Mar-2013 18:22:16	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5R
Lims Batch ID:	77903	Lims Sample ID:	8
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.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-77903/9 Calibration Date: 03/11/2013 18:53

Instrument ID: A2HP5R Calib Start Date: 03/11/2013 16:19

GC Column: ID: Calib End Date: 03/11/2013 18:22

Lab File ID: P5B11009.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	183902	182742		497	500	-0.6	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-77903/9 Calibration Date: 03/11/2013 18:53

Instrument ID: A2HP5R Calib Start Date: 03/11/2013 16:19

GC Column: ID: Calib End Date: 03/11/2013 18:22

Lab File ID: P5B11009.D

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10 - C28]	9.10	4.86	13.34

TestAmerica Canton
Target Compound Quantitation Report

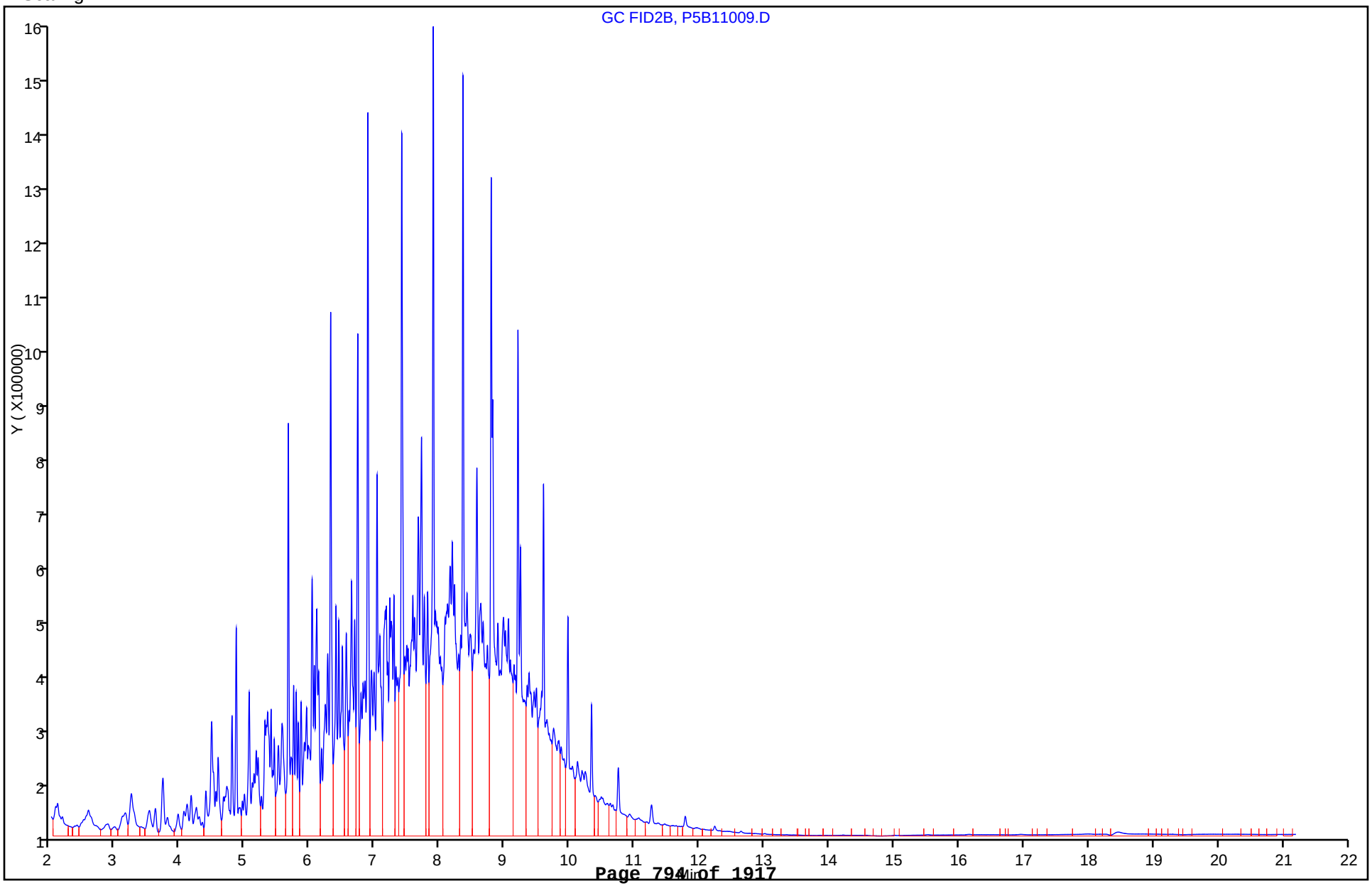
Data File:	\\Ncchrom\ChromData\A2HP5R\20130311-17906.b\P5B11009.D		
Lims ID:	ICV DIESEL	Client ID:	
Inject. Date:	11-Mar-2013 18:53:02	Dil. Factor:	1.0000
Sample Type:	ICV		
Sample ID:	240-0017906-009		
Misc. Info.:			
Operator:	4275	Instrument ID:	A2HP5R
Injection Vol:	1.0 ul	ALS Bottle#:	59
Lims Batch ID:	77903	Lims Sample ID:	9
Sublist:			
Detector:	GC FID2B		
Method:	\\Ncchrom\ChromData\A2HP5R\20130311-17906.b\TPH5R.m		
Last Update:	12-Mar-2013 10:27:12	Calib Date:	11-Mar-2013 18:22:16
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5R\20130311-17906.b\P5B11008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK035		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A 15 Diesel					
9.097	4.858 - 13.335		91371208	496.8	

Report Date: 12-Mar-2013 10:27:13 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP5R\20130311-17906.b\P5B11009.D		
Injection Date:	11-Mar-2013 18:53:02	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5R
Lims Batch ID:	77903	Lims Sample ID:	9
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.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-78992/5 Calibration Date: 03/21/2013 17:16

Instrument ID: A2HP5R Calib Start Date: 03/11/2013 16:19

GC Column: ID: Calib End Date: 03/11/2013 18:22

Lab File ID: P5B21005.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	183902	178119		484	500	-3.1	20.0
n-Nonane	Ave	200626	213062		53.1	50.0	6.2	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-78992/5 Calibration Date: 03/21/2013 17:16

Instrument ID: A2HP5R Calib Start Date: 03/11/2013 16:19

GC Column: ID: Calib End Date: 03/11/2013 18:22

Lab File ID: P5B21005.D

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10 - C28]	9.09	4.85	13.34
n-Nonane	3.71	3.64	3.78

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP5R\20130321-18143.b\P5B21005.D		
Lims ID:	CCV DIESEL	Client ID:	
Inject. Date:	21-Mar-2013 17:16:04	Dil. Factor:	1.0000
Sample Type:	CCVRT		
Sample ID:	240-0018143-005		
Misc. Info.:			
Operator:	4275	Instrument ID:	A2HP5R
Injection Vol:	1.0 ul	ALS Bottle#:	55
Lims Batch ID:	78992	Lims Sample ID:	5
Sublist:	chrom-TPH5R*sub1		
Detector:	GC FID2B		
Method:	\\Ncchrom\ChromData\A2HP5R\20130321-18143.b\TPH5R.m		
Last Update:	22-Mar-2013 09:42:48	Calib Date:	11-Mar-2013 18:22:16
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5R\20130311-17906.b\P5B11008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK029		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
3.713	3.713	0.000	10653085	53.1	
A 15 Diesel					
9.094	4.853 - 13.335		89059536	484.3	

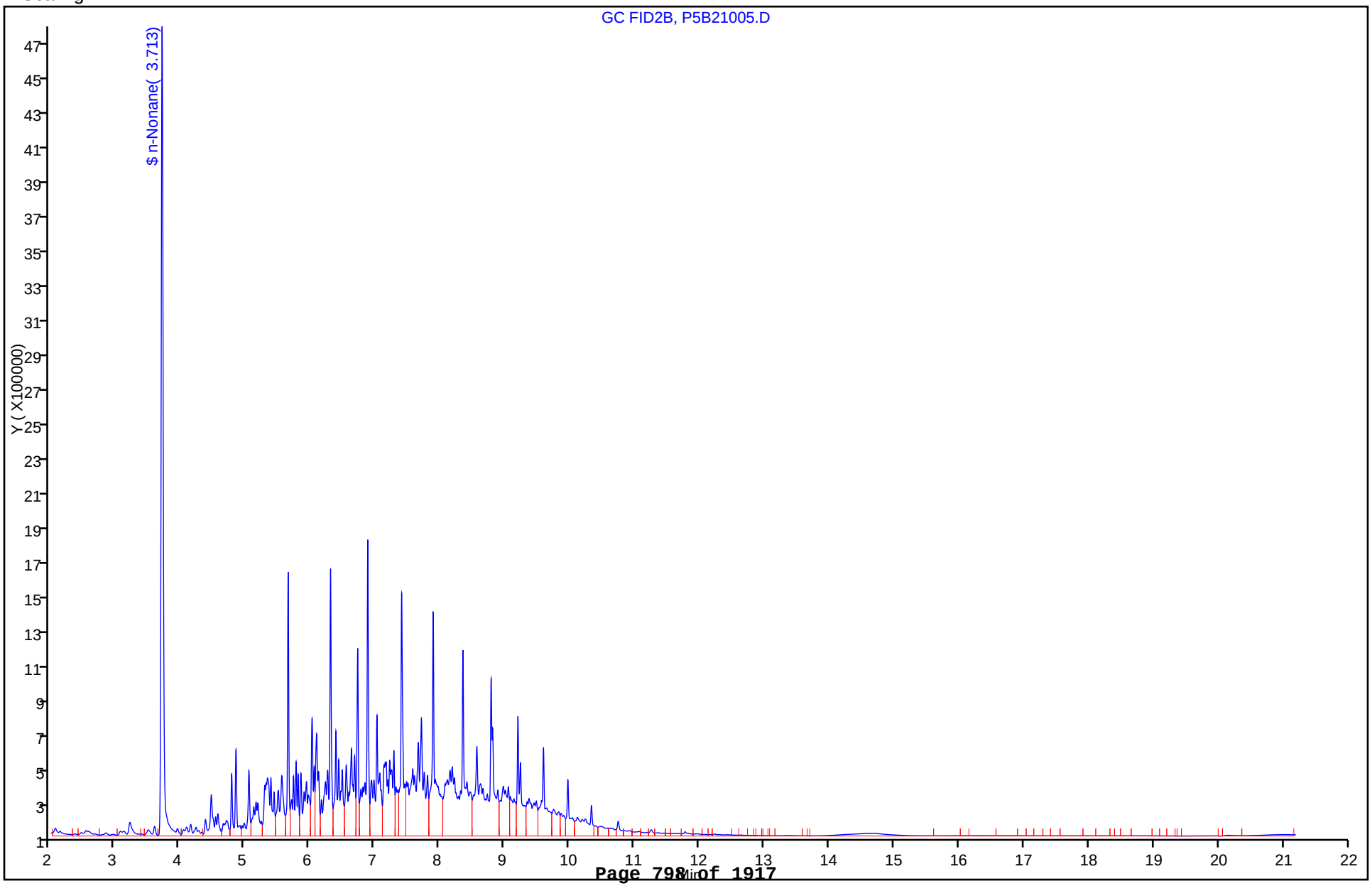
Report Date: 22-Mar-2013 09:42:49 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5R\20130321-18143.b\P5B21005.D

Injection Date:	21-Mar-2013 17:16:04	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5R
Lims Batch ID:	78992	Lims Sample ID:	5
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.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-78992/8 Calibration Date: 03/21/2013 18:45

Instrument ID: A2HP5R Calib Start Date: 03/11/2013 16:19

GC Column: ID: Calib End Date: 03/11/2013 18:22

Lab File ID: P5B21008.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	183902	182416		496	500	-0.8	20.0
n-Nonane	Ave	200626	219067		54.6	50.0	9.2	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-78992/8 Calibration Date: 03/21/2013 18:45

Instrument ID: A2HP5R Calib Start Date: 03/11/2013 16:19

GC Column: ID: Calib End Date: 03/11/2013 18:22

Lab File ID: P5B21008.D

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10 - C28]	9.09	4.85	13.34
n-Nonane	3.71	3.64	3.78

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP5R\20130321-18143.b\P5B21008.D		
Lims ID:	CCV DIESEL	Client ID:	
Inject. Date:	21-Mar-2013 18:45:38	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	240-0018143-008		
Misc. Info.:			
Operator:	4275	Instrument ID:	A2HP5R
Injection Vol:	1.0 ul	ALS Bottle#:	58
Lims Batch ID:	78992	Lims Sample ID:	8
Sublist:	chrom-TPH5R*sub1		
Detector:	GC FID2B		
Method:	\\Ncchrom\ChromData\A2HP5R\20130321-18143.b\TPH5R.m		
Last Update:	22-Mar-2013 09:42:50	Calib Date:	11-Mar-2013 18:22:16
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP5R\20130311-17906.b\P5B11008.D		
Limit Group:	GC 8015C TPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK029		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
$ 8 n-Nonane					
3.714	3.713	0.001	10953352	54.6	
A 15 Diesel					
9.094	4.853 - 13.335		91207773	496.0	

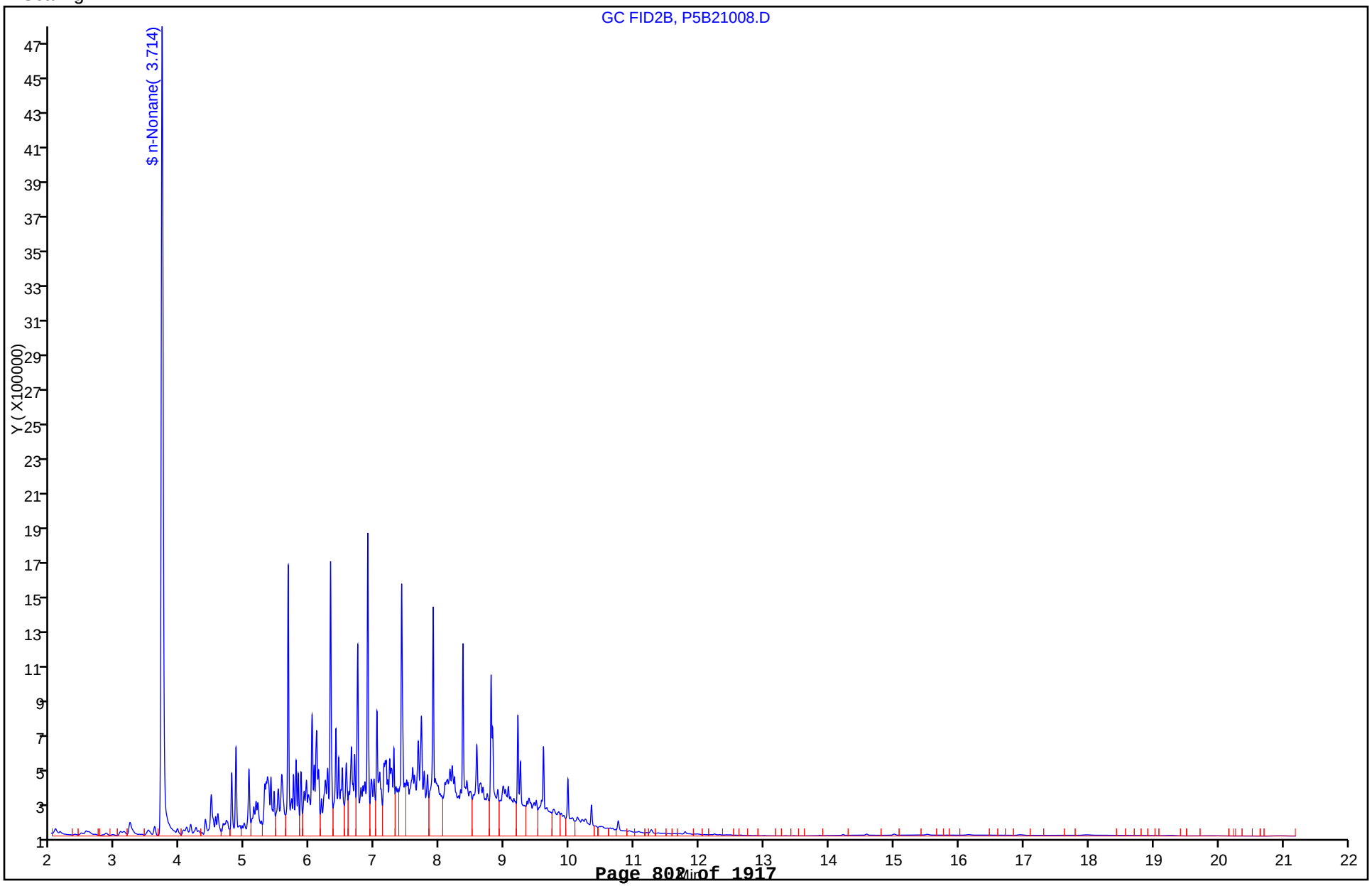
Report Date: 22-Mar-2013 09:42:50 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5R\20130321-18143.b\P5B21008.D

Injection Date:	21-Mar-2013 18:45:38	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5R
Lims Batch ID:	78992	Lims Sample ID:	8
Operator ID:	4275	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.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-78992/4

Matrix: Water | Lab File ID: P5B21004.D

Analysis Method: 8015B_DRO/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 03/21/2013 16:46

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 78992 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	72.8	J	100	48	48
STL00272	C20-C34	48	U	100	48	48

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	102		70-130

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP5R\20130321-18143.b\P5B21004.D
Lims ID: MRL Client ID:
Inject. Date: 21-Mar-2013 16:46:04 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018143-004
Misc. Info.:
Operator: 4275 Instrument ID: A2HP5R
Injection Vol: 1.0 ul ALS Bottle#: 54
Lims Batch ID: 78992 Lims Sample ID: 4
Detector: GC FID2B

Method: \\Ncchrom\ChromData\A2HP5R\20130321-18143.b\TPH5R.m
Last Update: 22-Mar-2013 09:42:47 Calib Date: 11-Mar-2013 18:22:16
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP5R\20130311-17906.b\P5B11008.D
Limit Group: GC 8015C TPH ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK029

		RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
	1 Tetratetracontane	25.920					1
A	2 C28-C36	14.837	13.417	-16.257	525700	0	
A	3 C10-C34	10.004	4.853	- 15.155	17126552	93.1	
A	4 C32-C44	14.486	-25.920				
A	5 C12-C22	8.530	6.311	- 10.748	10886649	59.2	
A	6 C22-C32	10.748	-14.486				
	7 n-Octane	2.660					1
$	8 n-Nonane	3.713	3.713	0.000	2045104	10.2	
	9 n-Decane	4.852	4.853	-0.001	284495	0	
	10 Dodecane	6.311	6.311	0.000	803456	0	
	11 n-Tetradecane	7.407	7.407	0.000	845854	0	
A	12 C10-C20	7.391	4.853	- 9.972	13390320	72.8	
	13 Hexadecane	8.353					1
A	14 C10-C28	9.112	4.707	- 13.517	17027524	0	

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A 15 Diesel					
9.094	4.853 - 13.335		16800018	91.4	
16 n-Octadecane					
9.201	9.201	0.000	560063	0	
A 17 C10-C32					
9.670	4.853 - 14.486		17028849	92.6	
18 icosane					
9.972	9.972	0.000	206482	0	
19 n-Docosane					
10.751	10.748	0.003	72317	0	
A 20 C12-C24					
9.045	6.311 - 11.778		12090938	65.7	
21 n-Tetracosane					
11.785	11.778	0.007	37485	0	
A 22 C20-C34					
	9.972 - 15.155				
23 n-Hexacosane					1
	12.636				
24 n-Octacosane					
13.342	13.335	0.007	12680	0	
25 Triacontane					1
	13.934				
26 Dotriacontane					
14.511	14.486	0.025	55942	0	
27 Tetratriacontane					
15.176	15.155	0.021	51109	0	
A 28 C24-C40					
	11.778 -19.228				
29 n-Hexatriacontane					1
	16.066				
30 C38					1
	17.358				
31 C40					1
	19.228				
A 32 C20-C36					
	9.972 - 16.066				
A 34 C24-C44					
	11.778 -25.920				
A 35 C10-C24					
8.382	4.807 - 11.958		15739806	85.6	

QC Flag Legend

Processing Flags
1 - Missing Peaks

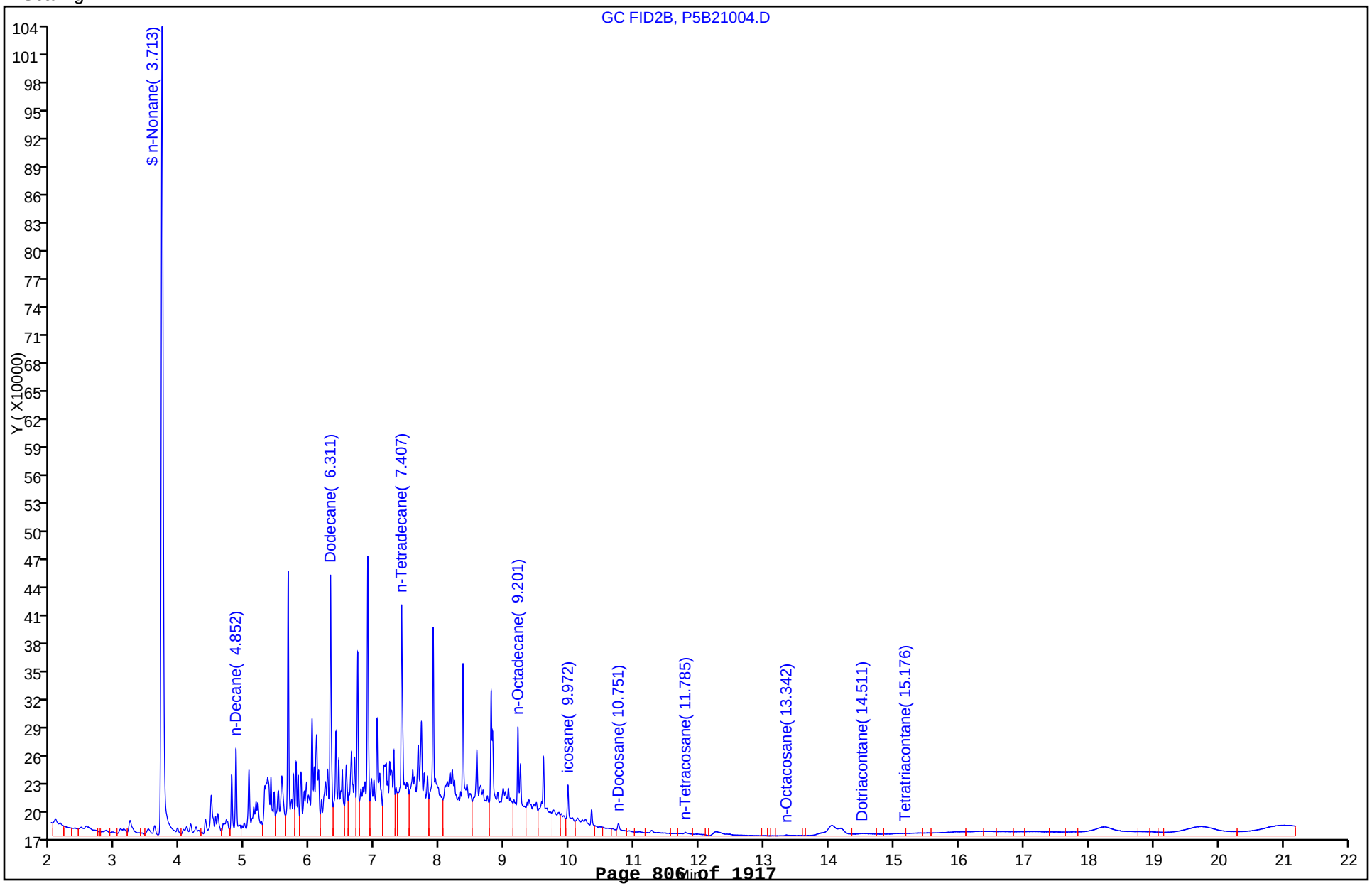
Report Date: 22-Mar-2013 09:42:48 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5R\20130321-18143.b\P5B21004.D

Injection Date:	21-Mar-2013 16:46:04	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5R
Lims Batch ID:	78992	Lims Sample ID:	4
Operator ID:	4275	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.: 240-21987-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-78992/9

Matrix: Water Lab File ID: P5B21009.D

Analysis Method: 8015B_DRO/DOD Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 03/21/2013 19:15

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 78992 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00115	C10-C20	76.5	J	100	48	48
STL00272	C20-C34	48	U	100	48	48

CAS NO.	SURROGATE	%REC	Q	LIMITS
111-84-2	n-Nonane	109		70-130

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP5R\20130321-18143.b\P5B21009.D
Lims ID: MRL Client ID:
Inject. Date: 21-Mar-2013 19:15:24 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018143-009
Misc. Info.:
Operator: 4275 Instrument ID: A2HP5R
Injection Vol: 1.0 ul ALS Bottle#: 59
Lims Batch ID: 78992 Lims Sample ID: 9
Detector: GC FID2B

Method: \\Ncchrom\ChromData\A2HP5R\20130321-18143.b\TPH5R.m
Last Update: 22-Mar-2013 09:42:50 Calib Date: 11-Mar-2013 18:22:16
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP5R\20130311-17906.b\P5B11008.D
Limit Group: GC 8015C TPH ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK029

	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
	1 Tetratetracontane	25.920				1
A	2 C28-C36	14.837	13.417 - 16.257	630759	0	
A	3 C10-C34	10.004	4.853 - 15.155	18517089	100.7	
A	4 C32-C44	14.486 - 25.920				
A	5 C12-C22	8.530	6.311 - 10.748	11401117	62.0	
A	6 C22-C32	10.748 - 14.486				
	7 n-Octane	2.625	2.660 -0.035	54108	0	
$	8 n-Nonane	3.713	3.713 0.000	2184001	10.9	
	9 n-Decane	4.853				1
	10 Dodecane	6.311	6.311 0.000	863350	0	
	11 n-Tetradecane	7.408	7.407 0.001	911368	0	
A	12 C10-C20	7.412	4.853 - 9.972	14060587	76.5	
	13 Hexadecane	8.353				1
A	14 C10-C28	9.112	4.707 - 13.517	18440793	0	

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Flags
A 15 Diesel					
9.094	4.853 - 13.335		18177303	98.8	
16 n-Octadecane					
9.200	9.201	-0.001	604703	0	
A 17 C10-C32					
9.670	4.853 - 14.486		18307333	99.5	
18 icosane					
9.971	9.972	-0.001	217783	0	
19 n-Docosane					
10.748	10.748	0.000	66490	0	
A 20 C12-C24					
9.045	6.311 - 11.778		12876697	70.0	
21 n-Tetracosane					
11.783	11.778	0.005	51666	0	
A 22 C20-C34					
	9.972 - 15.155				
23 n-Hexacosane					
12.642	12.636	0.006	6930	0	
24 n-Octacosane					1
	13.335				
25 Triacontane					1
	13.934				
26 Dotriacontane					1
	14.486				
27 Tetratriacontane					1
	15.155				
A 28 C24-C40					
	11.778 -19.228				
29 n-Hexatriacontane					1
	16.066				
30 C38					1
	17.358				
31 C40					
19.271	19.228	0.043	96752	0	
A 32 C20-C36					
	9.972 - 16.066				
A 34 C24-C44					
	11.778 -25.920				
A 35 C10-C24					
8.382	4.807 - 11.958		16837109	91.6	

QC Flag Legend

Processing Flags
1 - Missing Peaks

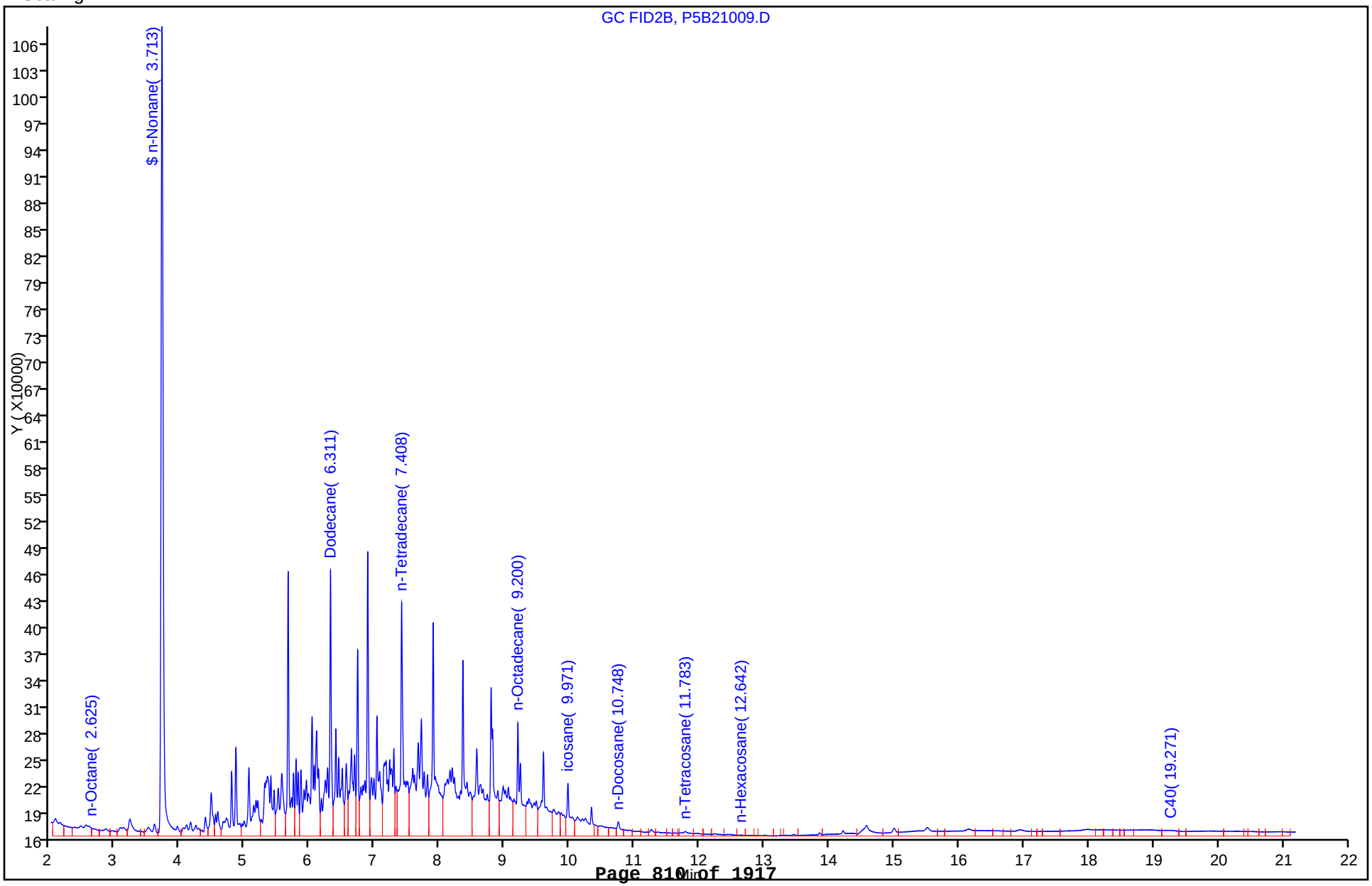
Report Date: 22-Mar-2013 09:42:51 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP5R\20130321-18143.b\P5B21009.D

Injection Date:	21-Mar-2013 19:15:24	Limit Group:	GC 8015C TPH ICAL
Client ID:		Instrument ID:	A2HP5R
Lims Batch ID:	78992	Lims Sample ID:	9
Operator ID:	4275	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: A2HP5R Start Date: 03/11/2013 16:19

Analysis Batch Number: 77903 End Date: 03/11/2013 18:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 240-77903/4 IC		03/11/2013 16:19	1	P5B11004.D	
STD2 240-77903/5 IC		03/11/2013 16:50	1	P5B11005.D	
STD3 240-77903/6 IC		03/11/2013 17:20	1	P5B11006.D	
STD4 240-77903/7 IC		03/11/2013 17:51	1	P5B11007.D	
STD5 240-77903/8 IC		03/11/2013 18:22	1	P5B11008.D	
ICV 240-77903/9		03/11/2013 18:53	1	P5B11009.D	

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: A2HP5R Start Date: 03/21/2013 16:46

Analysis Batch Number: 78992 End Date: 03/21/2013 19:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
MRL 240-78992/4		03/21/2013 16:46	1	P5B21004.D	
CCV 240-78992/5 CCVRT		03/21/2013 17:16	1	P5B21005.D	
240-21987-1	079-0007-0001-SOURCEWATER	03/21/2013 17:45	1	P5B21006.D	
CCV 240-78992/8		03/21/2013 18:45	1	P5B21008.D	
MRL 240-78992/9		03/21/2013 19:15	1	P5B21009.D	

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Batch Number: 78624 Batch Start Date: 03/18/13 12:00 Batch Analyst: Matthews, Brandon

Batch Method: 3520C Batch End Date: 03/19/13 06:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	EXTPHSURR 00017	
240-21987-O-1	079-0007-0001-SOURCEWATER	3520C, 8015B_DRO/DOD	T	1030 mL	5 mL	7	2	1 mL	

Batch Notes	
Person's name who did the concentration	lah/cc/ac
Na2SO4 Lot Number	857426
Prep Solvent Lot #	890180

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 8081 DOD

Organochlorine Pesticides (GC) by Method 8081A/DOD

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): CLP-1 ID: 0.53 (mm) GC Column (2): CLP-2 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
079-0007-0001-SOUR CEWATER	240-21987-1	79	77	75 M	73
	MB 240-78726/2-A	85	82	91	89
	LCS 240-78726/3-A	79	78	56	55

	QC LIMITS
TCX = Tetrachloro-m-xylene	25-140
DCB = DCB Decachlorobiphenyl	30-135

Column to be used to flag recovery values

FORM II 8081/DOD

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P3032109.D

Lab ID: LCS 240-78726/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
4,4'-DDD	0.500	0.547	109	25-150	
4,4'-DDE	0.500	0.505	101	35-140	
4,4'-DDT	0.500	0.596	119	45-140	
Aldrin	0.500	0.485	97	25-140	
alpha-BHC	0.500	0.469	94	60-130	
alpha-Chlordane	0.500	0.492	98	65-125	
beta-BHC	0.500	0.474	95	65-125	
delta-BHC	0.500	0.518	104	45-135	
Dieldrin	0.500	0.514	103	60-130	
Endosulfan I	0.500	0.418	84	50-110	
Endosulfan II	0.500	0.454	91	30-130	
Endosulfan sulfate	0.500	0.526	105	55-135	
Endrin	0.500	0.520	104	55-135	
Endrin aldehyde	0.500	0.486	97	55-135	
Endrin ketone	0.500	0.510	102	75-125	
gamma-BHC (Lindane)	0.500	0.476	95	25-135	
gamma-Chlordane	0.500	0.510	102	60-125	
Heptachlor	0.500	0.492	98	40-130	
Heptachlor epoxide	0.500	0.501	100	60-130	
Methoxychlor	0.500	0.572	114	55-150	

Column to be used to flag recovery and RPD values

FORM III 8081/DOD

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P3032108.D

Lab ID: MRL 240-79056/8 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
4,4'-DDD	0.00500	0.00524	105	70-130	
4,4'-DDD	0.00500	0.00539	108	70-130	
4,4'-DDE	0.00500	0.00490 J	98	70-130	
4,4'-DDE	0.00500	0.00507	101	70-130	
4,4'-DDT	0.00500	0.00553	111	70-130	
4,4'-DDT	0.00500	0.00544	109	70-130	
Aldrin	0.00500	0.00494 J	99	70-130	
Aldrin	0.00500	0.00499 J	100	70-130	
alpha-BHC	0.00500	0.00446 J	89	70-130	
alpha-BHC	0.00500	0.00450 J	90	70-130	
alpha-Chlordane	0.00500	0.00535	107	70-130	
alpha-Chlordane	0.00500	0.00547	109	70-130	
beta-BHC	0.00500	0.00551	110	70-130	
beta-BHC	0.00500	0.00580	116	70-130	
delta-BHC	0.00500	0.00478 J	96	70-130	
delta-BHC	0.00500	0.00497 J	99	70-130	
Dieldrin	0.00500	0.00529	106	70-130	
Dieldrin	0.00500	0.00533	107	70-130	
Endosulfan I	0.00500	0.00533	107	70-130	
Endosulfan I	0.00500	0.00567	113	70-130	
Endosulfan II	0.00500	0.00558	112	70-130	
Endosulfan II	0.00500	0.00591	118	70-130	
Endosulfan sulfate	0.00500	0.00584	117	70-130	
Endosulfan sulfate	0.00500	0.00610	122	70-130	
Endrin	0.00500	0.00539	108	70-130	
Endrin	0.00500	0.00555	111	70-130	
Endrin aldehyde	0.00500	0.00616	123	70-130	
Endrin aldehyde	0.00500	0.00603	121	70-130	
Endrin ketone	0.00500	0.00582	116	70-130	
Endrin ketone	0.00500	0.00605	121	70-130	
gamma-BHC (Lindane)	0.00500	0.00467 J	93	70-130	
gamma-BHC (Lindane)	0.00500	0.00485 J	97	70-130	
gamma-Chlordane	0.00500	0.00521	104	70-130	
gamma-Chlordane	0.00500	0.00555	111	70-130	
Heptachlor	0.00500	0.00524	105	70-130	
Heptachlor	0.00500	0.00521	104	70-130	
Heptachlor epoxide	0.00500	0.00532	106	70-130	
Heptachlor epoxide	0.00500	0.00540	108	70-130	
Methoxychlor	0.00500	0.00644 J	129	70-130	
Methoxychlor	0.00500	0.00609 J	122	70-130	

Column to be used to flag recovery and RPD values

FORM III 8081/DOD

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P3032115.D

Lab ID: MRL 240-79056/15 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
4,4'-DDD	0.00500	0.00543	109	70-130	
4,4'-DDD	0.00500	0.00547	109	70-130	
4,4'-DDE	0.00500	0.00531	106	70-130	
4,4'-DDE	0.00500	0.00504	101	70-130	
4,4'-DDT	0.00500	0.00582	116	70-130	
4,4'-DDT	0.00500	0.00574	115	70-130	
Aldrin	0.00500	0.00506	101	70-130	
Aldrin	0.00500	0.00511	102	70-130	
alpha-BHC	0.00500	0.00458 J	92	70-130	
alpha-BHC	0.00500	0.00460 J	92	70-130	
alpha-Chlordane	0.00500	0.00564	113	70-130	
alpha-Chlordane	0.00500	0.00539	108	70-130	
beta-BHC	0.00500	0.00563	113	70-130	
beta-BHC	0.00500	0.00595	119	70-130	
delta-BHC	0.00500	0.00491 J	98	70-130	
delta-BHC	0.00500	0.00510	102	70-130	
Dieldrin	0.00500	0.00550	110	70-130	
Dieldrin	0.00500	0.00528	106	70-130	
Endosulfan I	0.00500	0.00566	113	70-130	
Endosulfan I	0.00500	0.00557	111	70-130	
Endosulfan II	0.00500	0.00569	114	70-130	
Endosulfan II	0.00500	0.00605	121	70-130	
Endosulfan sulfate	0.00500	0.00604	121	70-130	
Endosulfan sulfate	0.00500	0.00625	125	70-130	
Endrin	0.00500	0.00566	113	70-130	
Endrin	0.00500	0.00562	112	70-130	
Endrin aldehyde	0.00500	0.00601	120	70-130	
Endrin aldehyde	0.00500	0.00618	124	70-130	
Endrin ketone	0.00500	0.00600	120	70-130	
Endrin ketone	0.00500	0.00624	125	70-130	
gamma-BHC (Lindane)	0.00500	0.00474 J	95	70-130	
gamma-BHC (Lindane)	0.00500	0.00494 J	99	70-130	
gamma-Chlordane	0.00500	0.00543	109	70-130	
gamma-Chlordane	0.00500	0.00545	109	70-130	
Heptachlor	0.00500	0.00535	107	70-130	
Heptachlor	0.00500	0.00529	106	70-130	
Heptachlor epoxide	0.00500	0.00546	109	70-130	
Heptachlor epoxide	0.00500	0.00548	110	70-130	
Methoxychlor	0.00500	0.00695 J	139	70-130	^
Methoxychlor	0.00500	0.00645 J	129	70-130	

Column to be used to flag recovery and RPD values

FORM III 8081/DOD

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: MB 240-78726/2-A

Matrix: Water Date Extracted: 03/19/2013 09:10

Lab File ID:(1) P3032111.D Lab File ID:(2) P3032111.D

Date Analyzed:(1) 03/21/2013 17:56 Date Analyzed:(2) 03/21/2013 17:56

Instrument ID:(1) A2HP3 Instrument ID:(2) A2HP3

GC Column:(1) CLP-1 ID: 0.53(mm) GC Column:(2) CLP-2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 240-78726/3-A	03/21/2013 17:16	03/21/2013 17:16
079-0007-0001-SOURCEWATER	240-21987-1	03/21/2013 17:36	03/21/2013 17:36

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Sample No.: CCV 240-79056/5 Date Analyzed: 03/21/2013 15:56

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P3032105.D Heated Purge: (Y/N) N

Calibration ID: 14138

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				3.56	12.93	
UPPER LIMIT				3.59	12.96	
LOWER LIMIT				3.53	12.90	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-79056/5 CCVRT		03/21/2013 15:56	P3032105.D	3.56	12.93	
LCS 240-78726/3-A		03/21/2013 17:16	P3032109.D	3.56	12.93	
240-21987-1	079-0007-0001-SOURCEWATER	03/21/2013 17:36	P3032110.D	3.56	12.93	
MB 240-78726/2-A		03/21/2013 17:56	P3032111.D	3.56	12.93	
CCV 240-79056/14		03/21/2013 18:57	P3032114.D	3.56	12.93	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.03 minutes of surrogate RT
DCB RT Limit = ± 0.03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8081/DOD

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Sample No.: CCV 240-79056/5 Date Analyzed: 03/21/2013 15:56

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P3032105.D Heated Purge: (Y/N) N

Calibration ID: 14139

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				4.18	14.42	
UPPER LIMIT				4.21	14.45	
LOWER LIMIT				4.15	14.39	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-79056/5 CCVRT		03/21/2013 15:56	P3032105.D	4.18	14.42	
LCS 240-78726/3-A		03/21/2013 17:16	P3032109.D	4.18	14.42	
240-21987-1	079-0007-0001-SOURCEWATER	03/21/2013 17:36	P3032110.D	4.18	14.42	
MB 240-78726/2-A		03/21/2013 17:56	P3032111.D	4.18	14.42	
CCV 240-79056/14		03/21/2013 18:57	P3032114.D	4.18	14.42	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.03 minutes of surrogate RT
DCB RT Limit = ± 0.03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8081/DOD

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-78726/3-A

Instrument ID (1): A2HP3 Instrument ID (2): A2HP3

Date Analyzed (1): 03/21/2013 17:16 Date Analyzed (2): 03/21/2013 17:16

GC Column (1): CLP-1 ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		4.25	4.22	4.28	0.469		10.8
	2		5.07	5.04	5.10	0.522		
gamma-BHC (Lindane)	1		4.64	4.61	4.67	0.476		10.5
	2		5.69	5.66	5.72	0.529		
beta-BHC	1		4.77	4.74	4.80	0.474		7.8
	2		5.89	5.86	5.92	0.513		
delta-BHC	1		5.00	4.97	5.03	0.518		10.7
	2		6.51	6.48	6.54	0.576		
Heptachlor	1		5.29	5.26	5.32	0.492		3.6
	2		6.58	6.55	6.61	0.510		
Aldrin	1		5.76	5.73	5.79	0.485		6.8
	2		7.38	7.35	7.41	0.519		
Heptachlor epoxide	1		7.03	7.00	7.06	0.501		6.8
	2		8.82	8.79	8.85	0.536		
gamma-Chlordane	1		7.35	7.31	7.37	0.510		6.9
	2		9.22	9.19	9.25	0.547		
alpha-Chlordane	1		7.69	7.66	7.72	0.492		6.1
	2		9.52	9.49	9.55	0.523		
Endosulfan I	1		7.96	7.93	7.99	0.418		8.6
	2		9.58	9.55	9.61	0.455		
4,4'-DDE	1		8.05	8.02	8.08	0.505		7.0
	2		9.95	9.92	9.98	0.542		
Dieldrin	1		8.51	8.48	8.54	0.514		7.4
	2		10.10	10.07	10.13	0.554		
Endrin	1		8.96	8.93	8.99	0.520		8.3
	2		10.61	10.58	10.64	0.566		
4,4'-DDD	1		9.31	9.28	9.34	0.547		9.5
	2		10.94	10.91	10.97	0.601		
Endosulfan II	1		9.41	9.37	9.43	0.454		9.1
	2		10.98	10.95	11.01	0.498		
4,4'-DDT	1		9.83	9.80	9.86	0.596		0.5
	2		11.42	11.39	11.45	0.593		
Endrin aldehyde	1		10.20	10.17	10.23	0.486		8.7
	2		11.54	11.51	11.57	0.530		
Methoxychlor	1		10.78	10.75	10.81	0.572		1.3
	2		12.49	12.46	12.52	0.564		
Endosulfan sulfate	1		10.92	10.89	10.95	0.526		7.9
	2		11.95	11.93	11.99	0.569		
Endrin ketone	1		11.32	11.29	11.35	0.510		6.1
	2		12.70	12.68	12.74	0.542		

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: 079-0007-0001-SOURCEWATER | Lab Sample ID: 240-21987-1

Matrix: Water | Lab File ID: P3032110.D

Analysis Method: 8081/DOD | Date Collected: 03/14/2013 12:00

Extraction Method: 3520C | Date Extracted: 03/19/2013 09:10

Sample wt/vol: 1000(mL) | Date Analyzed: 03/21/2013 17:36

Con. Extract Vol.: 5.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 79056 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	0.010	U	0.050	0.010	0.0096
72-55-9	4,4'-DDE	0.010	U	0.050	0.010	0.0097
50-29-3	4,4'-DDT	0.030	U	0.050	0.030	0.016
309-00-2	Aldrin	0.010	U	0.050	0.010	0.0082
319-84-6	alpha-BHC	0.010	U	0.050	0.010	0.0070
5103-71-9	alpha-Chlordane	0.014	U	0.050	0.014	0.014
319-85-7	beta-BHC	0.010	U	0.050	0.010	0.0084
319-86-8	delta-BHC	0.010	U	0.050	0.010	0.0087
60-57-1	Dieldrin	0.010	U	0.050	0.010	0.0075
959-98-8	Endosulfan I	0.013	U	0.050	0.013	0.013
33213-65-9	Endosulfan II	0.012	U	0.050	0.012	0.012
1031-07-8	Endosulfan sulfate	0.011	U	0.050	0.011	0.011
72-20-8	Endrin	0.011	U	0.050	0.011	0.011
7421-93-4	Endrin aldehyde	0.011	U	0.050	0.011	0.011
53494-70-5	Endrin ketone	0.010	U	0.050	0.010	0.0078
58-89-9	gamma-BHC (Lindane)	0.010	U	0.050	0.010	0.0064
5103-74-2	gamma-Chlordane	0.012	U	0.050	0.012	0.012
76-44-8	Heptachlor	0.010	U	0.050	0.010	0.0080
1024-57-3	Heptachlor epoxide	0.010	U	0.050	0.010	0.0071
72-43-5	Methoxychlor	0.032	U	0.10	0.032	0.032
8001-35-2	Toxaphene	0.50	U	2.0	0.50	0.32

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	75	M	30-135
877-09-8	Tetrachloro-m-xylene	79		25-140

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032110.D		
Lims ID:	240-21987-N-1-B	Client ID:	079-0007-0001-SOURCEWATER
Inject. Date:	21-Mar-2013 17:36:48	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018156-010		
Misc. Info.:			
Operator:	093905	Instrument ID:	A2HP3
Injection Vol:	1.0 ul	ALS Bottle#:	10
Lims Batch ID:	79056	Lims Sample ID:	10
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\NCChrom\ChromData\A2HP3\20130321-18156.b\PEST3.m		
Last Update:	22-Mar-2013 07:46:59	Calib Date:	18-Mar-2013 13:40:37
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A2HP3\20130318-18048.b\P3031810.D		
Limit Group:	GC 8081 D0D ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK006		
First Level Reviewer: vandorenc		Date:	22-Mar-2013 07:05:49

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.562	3.562	0.000	34837903	0.0317			
2	100	4.180	4.181	-0.001	18646237	0.0309			
						RPD = 2.54			
5 alpha-BHC									
1	100		4.253						
2	100		5.071						
20 gamma-BHC (Lindane)									
1	100		4.639						
2	100		5.692						
7 beta-BHC									
1	100	4.747	4.774	-0.027	348856	0.000564			
2	100	5.881	5.888	-0.007	3113500	0.0105			
						RPD = 179.66			
11 delta-BHC									
1	100		4.995						
2	100		6.513						
22 Heptachlor									
1	100		5.288						
2	100		6.583						
4 Aldrin									
1	100		5.755						
2	100		7.384						
23 Heptachlor epoxide									
1	100		7.028						
2	100		8.824						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
21 gamma-Chlordane									
1	100		7.343						
2	100		9.217						
6 alpha-Chlordane									
1	100		7.685						
2	100		9.515						
14 Endosulfan I									1
1	100		7.957						
2	100		9.583						
2 4,4'-DDE									
1	100		8.050						
2	100		9.947						
13 Dieldrin									1
1	100		8.509						
2	100		10.099						
17 Endrin									
1	100		8.960						
2	100		10.614						
1 4,4'-DDD									
1	100		9.313						
2	100		10.938						
15 Endosulfan II									1
1	100		9.404						
2	100		10.982						
3 4,4'-DDT									1
1	100		9.831						
2	100		11.418						
18 Endrin aldehyde									1
1	100		10.197						
2	100		11.540						
30 Toxaphene									1
1	1		10.383						
1	2		10.726						
1	3		10.874						
1	4		11.289						
1	5		11.556						
2	100		10.537						
2	2		11.123						
2	3		11.542						
2	4		12.283						
2	5		12.841						
27 Methoxychlor									
1	100		10.776						
2	100		12.493						
16 Endosulfan sulfate									
1	100		10.920						
2	100		11.956						
19 Endrin ketone									
1	100		11.318						
2	100		12.705						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 10 DCB Decachlorobiphenyl									M
1	100	12.927	12.927	0.000	28926643	0.0301			M
2	100	14.421	14.421	0.000	14088582	0.0293			
						RPD = 2.75			

QC Flag Legend

Processing Flags
1 - Missing Peaks

Review Flags
M - Manually Integrated

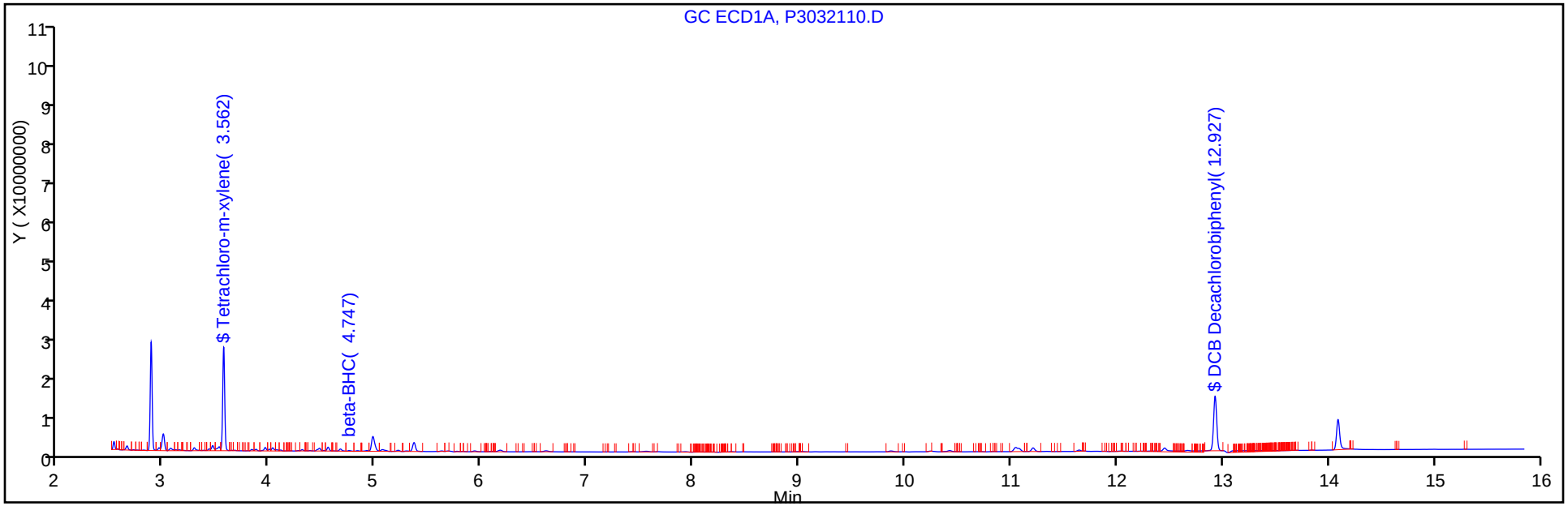
Report Date: 22-Mar-2013 07:47:05 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

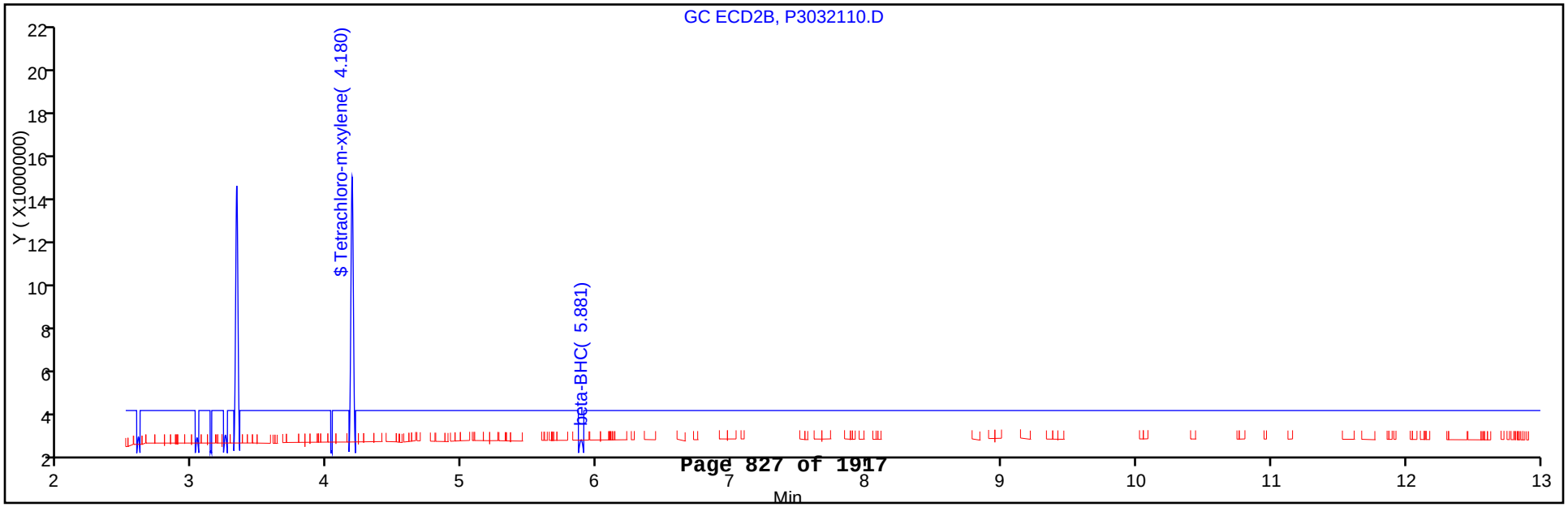
Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032110.D

Injection Date:	21-Mar-2013 17:36:48	Limit Group:	GC 8081 D0D ICAL
Client ID:	079-0007-0001-SOURCEWATER	Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	10
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

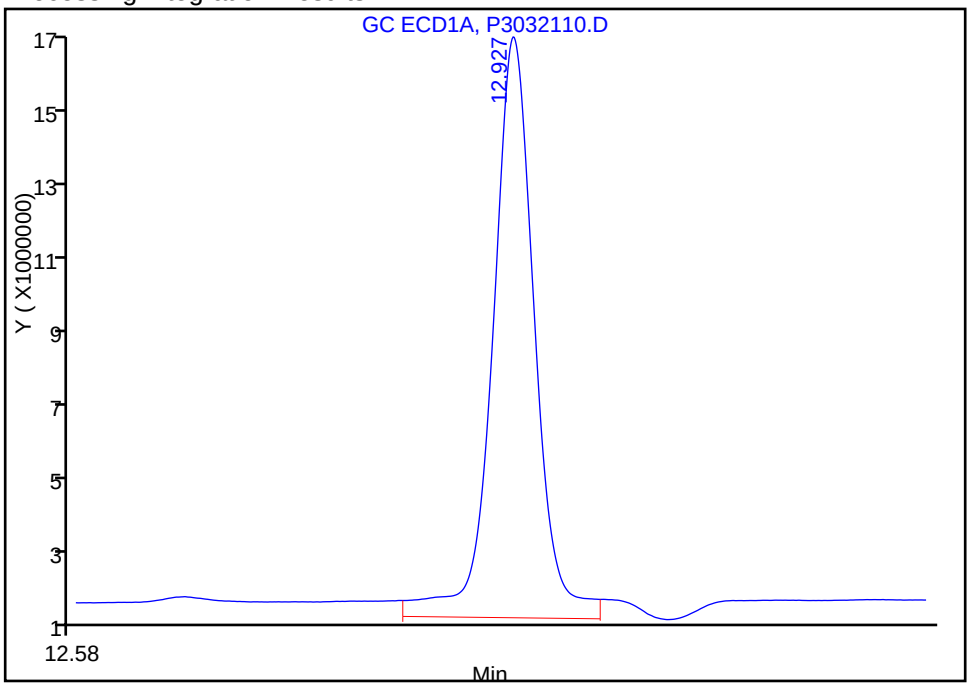
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032110.D		
Injection Date:	21-Mar-2013 17:36:48	Limit Group:	GC 8081 D0D ICAL
Client ID:	079-0007-0001-SOURCEWATER	Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	10
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

$ 10 DCB Decachlorobiphenyl, Signal: 1, Type: quant, RT: 12.93, Det: GC ECD1A

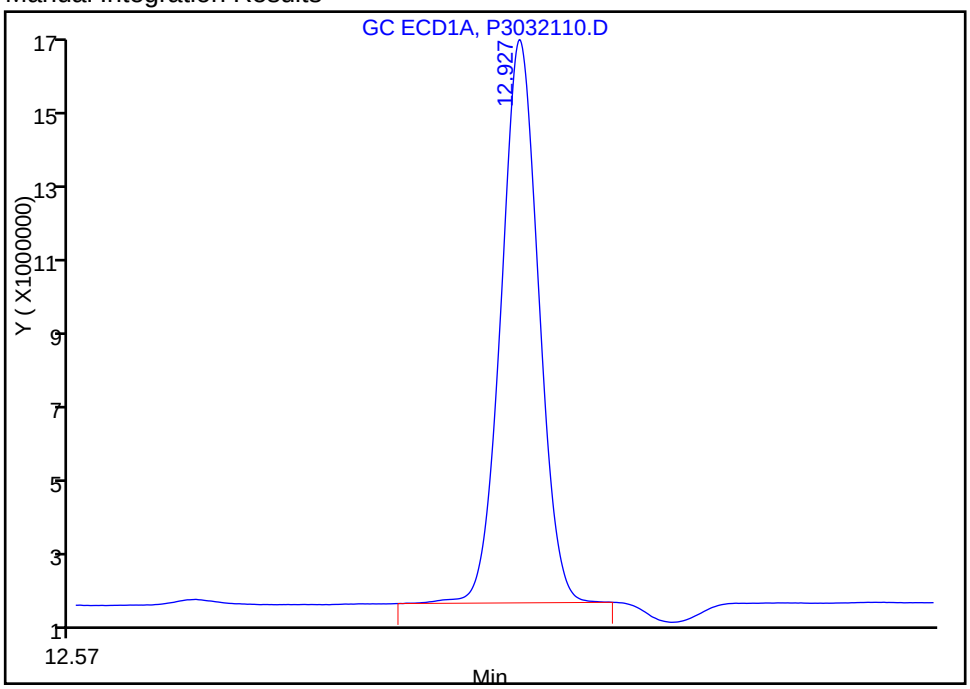
Processing Integration Results

RT: 12.93
Response: 32904397
Amount: 0.034267



Manual Integration Results

RT: 12.93
Response: 28926643
Amount: 0.030124



Reviewer: vandorenc, 22-Mar-2013 07:05:49
Audit Action: Manually Integrated
Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: 079-0007-0001-SOURCEWATER Lab Sample ID: 240-21987-1

Matrix: Water Lab File ID: P3032110.D

Analysis Method: 8081/DOD Date Collected: 03/14/2013 12:00

Extraction Method: 3520C Date Extracted: 03/19/2013 09:10

Sample wt/vol: 1000(mL) Date Analyzed: 03/21/2013 17:36

Con. Extract Vol.: 5.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 79056 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	73		30-135
877-09-8	Tetrachloro-m-xylene	77		25-140

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032110.D		
Lims ID:	240-21987-N-1-B	Client ID:	079-0007-0001-SOURCEWATER
Inject. Date:	21-Mar-2013 17:36:48	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018156-010		
Misc. Info.:			
Operator:	093905	Instrument ID:	A2HP3
Injection Vol:	1.0 ul	ALS Bottle#:	10
Lims Batch ID:	79056	Lims Sample ID:	10
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\NCChrom\ChromData\A2HP3\20130321-18156.b\PEST3.m		
Last Update:	22-Mar-2013 07:46:59	Calib Date:	18-Mar-2013 13:40:37
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A2HP3\20130318-18048.b\P3031810.D		
Limit Group:	GC 8081 D0D ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK006		
First Level Reviewer: vandorenc		Date:	22-Mar-2013 07:05:49

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.562	3.562	0.000	34837903	0.0317			
2	100	4.180	4.181	-0.001	18646237	0.0309			
						RPD = 2.54			
5 alpha-BHC									
1	100		4.253						
2	100		5.071						
20 gamma-BHC (Lindane)									
1	100		4.639						
2	100		5.692						
7 beta-BHC									
1	100	4.747	4.774	-0.027	348856	0.000564			
2	100	5.881	5.888	-0.007	3113500	0.0105			
						RPD = 179.66			
11 delta-BHC									
1	100		4.995						
2	100		6.513						
22 Heptachlor									
1	100		5.288						
2	100		6.583						
4 Aldrin									
1	100		5.755						
2	100		7.384						
23 Heptachlor epoxide									
1	100		7.028						
2	100		8.824						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
21 gamma-Chlordane									
1	100		7.343						
2	100		9.217						
6 alpha-Chlordane									
1	100		7.685						
2	100		9.515						
14 Endosulfan I									1
1	100		7.957						
2	100		9.583						
2 4,4'-DDE									
1	100		8.050						
2	100		9.947						
13 Dieldrin									1
1	100		8.509						
2	100		10.099						
17 Endrin									
1	100		8.960						
2	100		10.614						
1 4,4'-DDD									
1	100		9.313						
2	100		10.938						
15 Endosulfan II									1
1	100		9.404						
2	100		10.982						
3 4,4'-DDT									1
1	100		9.831						
2	100		11.418						
18 Endrin aldehyde									1
1	100		10.197						
2	100		11.540						
30 Toxaphene									1
1	1		10.383						
1	2		10.726						
1	3		10.874						
1	4		11.289						
1	5		11.556						
2	100		10.537						
2	2		11.123						
2	3		11.542						
2	4		12.283						
2	5		12.841						
27 Methoxychlor									
1	100		10.776						
2	100		12.493						
16 Endosulfan sulfate									
1	100		10.920						
2	100		11.956						
19 Endrin ketone									
1	100		11.318						
2	100		12.705						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 10 DCB Decachlorobiphenyl									M
1	100	12.927	12.927	0.000	28926643	0.0301			M
2	100	14.421	14.421	0.000	14088582	0.0293			
						RPD = 2.75			

QC Flag Legend

Processing Flags
1 - Missing Peaks

Review Flags
M - Manually Integrated

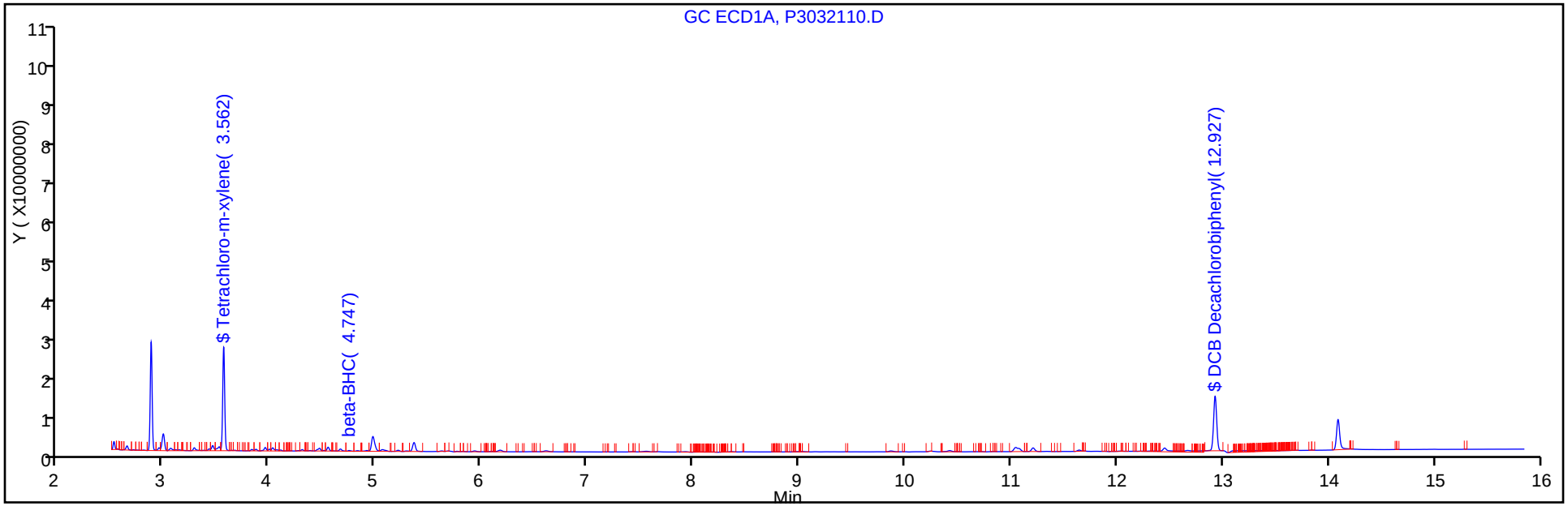
Report Date: 22-Mar-2013 07:47:05 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

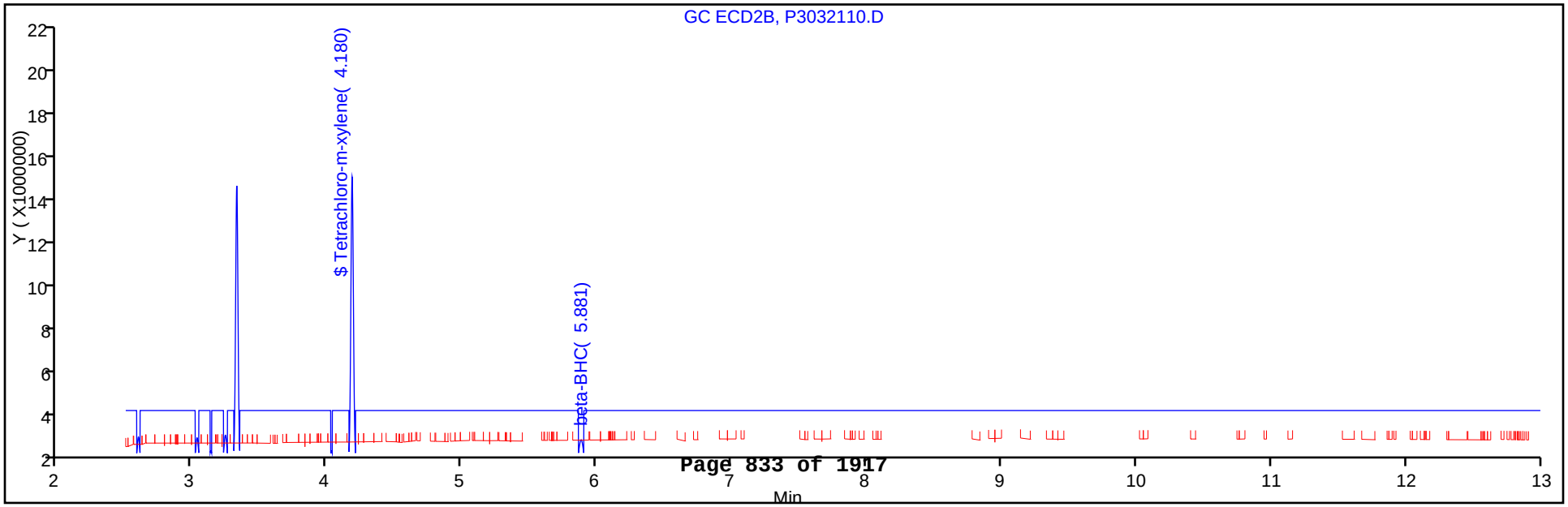
Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032110.D

Injection Date:	21-Mar-2013 17:36:48	Limit Group:	GC 8081 D0D ICAL
Client ID:	079-0007-0001-SOURCEWATER	Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	10
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 78295

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2013 14:20 Calibration End Date: 03/14/2013 16:00 Calibration ID: 14138

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-78295/13	P3031413.D
Level 2	STD 240-78295/14	P3031414.D
Level 3	STD 240-78295/15	P3031415.D
Level 4	STD 240-78295/16	P3031416.D
Level 5	STD 240-78295/17	P3031417.D
Level 6	STD 240-78295/18	P3031418.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
alpha-BHC	4.255	4.255	4.255	4.255	4.256	4.255					4.225 - 4.285	4.255
gamma-BHC (Lindane)	4.643	4.642	4.643	4.643	4.643	4.642					4.613 - 4.673	4.643
beta-BHC	4.777	4.777	4.777	4.777	4.777	4.777					4.747 - 4.807	4.777
delta-BHC	4.998	4.999	4.999	4.998	4.998	4.999					4.969 - 5.029	4.999
Heptachlor	5.293	5.293	5.293	5.293	5.294	5.293					5.263 - 5.323	5.293
Aldrin	5.761	5.761	5.761	5.760	5.761	5.761					5.731 - 5.791	5.761
Heptachlor epoxide	7.038	7.038	7.039	7.038	7.038	7.038					7.009 - 7.069	7.038
gamma-Chlordane	7.354	7.354	7.355	7.353	7.353	7.354					7.325 - 7.385	7.354
alpha-Chlordane	7.695	7.696	7.695	7.694	7.697	7.697					7.665 - 7.725	7.696
Endosulfan I	7.967	7.967	7.965	7.967	7.967	7.967					7.935 - 7.995	7.967
4,4'-DDE	8.060	8.061	8.060	8.060	8.059	8.060					8.030 - 8.090	8.060
Dieldrin	8.515	8.518	8.517	8.516	8.518	8.517					8.487 - 8.547	8.517
Endrin	8.966	8.968	8.966	8.965	8.966	8.966					8.936 - 8.996	8.966
4,4'-DDD	9.318	9.319	9.318	9.319	9.319	9.320					9.288 - 9.348	9.319
Endosulfan II	9.411	9.412	9.411	9.410	9.411	9.411					9.381 - 9.441	9.411
4,4'-DDT	9.836	9.835	9.835	9.834	9.837	9.835					9.805 - 9.865	9.835
Endrin aldehyde	10.202	10.202	10.201	10.200	10.201	10.202					10.171 - 10.231	10.201
Methoxychlor	10.778	10.781	10.780	10.780	10.780	10.780					10.750 - 10.810	10.780
Endosulfan sulfate	10.923	10.924	10.925	10.923	10.924	10.924					10.895 - 10.955	10.924
Endrin ketone	11.323	11.321	11.322	11.322	11.323	11.321					11.292 - 11.352	11.322
Tetrachloro-m-xylene	3.565	3.564	3.565	3.564	3.564	3.565					3.535 - 3.595	3.565
DCB Decachlorobiphenyl	12.928	12.929	12.929	12.930	12.930	12.928					12.899 - 12.959	12.929

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 78295

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2013 14:20 Calibration End Date: 03/14/2013 16:00 Calibration ID: 14138

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-78295/13	P3031413.D
Level 2	STD 240-78295/14	P3031414.D
Level 3	STD 240-78295/15	P3031415.D
Level 4	STD 240-78295/16	P3031416.D
Level 5	STD 240-78295/17	P3031417.D
Level 6	STD 240-78295/18	P3031418.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 6	LVL 3	LVL 4		B	M1	M2								
alpha-BHC	1544769800 1690692800	1524899800 1672417590	1644364640	1665099600	Ave		1623707372				4.4		20.0			
gamma-BHC (Lindane)	1417744400 1501926510	1378442900 1481973740	1468554520	1482578700	Ave		1455203462				3.2		20.0			
beta-BHC	678196400 600546050	624566600 590400845	615022400	602187540	Ave		618486639				5.1		20.0			
delta-BHC	1404369000 1552117740	1378180300 1534786665	1494198800	1517528980	Ave		1480196914				4.9		20.0			
Heptachlor	1288833600 1316203450	1237078800 1281109570	1297983120	1307145780	Ave		1288059053				2.2		20.0			
Aldrin	1350281400 1398310960	1289978400 1373043395	1370533640	1377777840	Ave		1359987606				2.8		20.0			
Heptachlor epoxide	1280655800 1236075190	1206356600 1200415095	1233572120	1222850640	Ave		1229987574				2.3		20.0			
gamma-Chlordane	1286423200 1294621690	1203639700 1290675280	1249806640	1255788880	Ave		1263492565				2.8		20.0			
alpha-Chlordane	1325189600 1306126340	1254470500 1294410275	1278767600	1279252660	Ave		1289702829				1.9		20.0			
Endosulfan I	1206226800 1162654990	1120315700 1129918135	1149599160	1147106020	Ave		1152636801				2.6		20.0			
4,4'-DDE	1240758800 1322668830	1184579600 1315693210	1252161800	1283169120	Ave		1266505227				4.1		20.0			
Dieldrin	1257225600 1308452920	1207129500 1279917105	1271915720	1285901660	Ave		1268423751				2.7		20.0			
Endrin	1196360800 1213622860	1144530800 1176253715	1200121440	1203943800	Ave		1189138903				2.1		20.0			
4,4'-DDD	945067600 1014758370	904031600 1012783375	964648160	980653040	Ave		970323691				4.4		20.0			
Endosulfan II	1138061000 1101688000	1063426300 1072290315	1100547240	1091431080	Ave		1094573989				2.4		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 CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 78295

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2013 14:20 Calibration End Date: 03/14/2013 16:00 Calibration ID: 14138

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 6	LVL 3	LVL 4		B	M1	M2								
4,4'-DDT	911290800 958993380	861675100 963505760	908985640	928813980	Ave		922210777				4.1		20.0			
Endrin aldehyde	943808800 870453990	870258300 845513910	879537280	874618680	Ave		880698493				3.8		20.0			
Methoxychlor	509085400 440176890	473070400 430410895	460264440	455509000	Ave		461419504				6.0		20.0			
Endosulfan sulfate	1045223000 970494050	973968700 946241900	974521640	975919460	Ave		981061458				3.4		20.0			
Endrin ketone	1201932400 1137969370	1134181200 1098332050	1152991760	1142482520	Ave		1144648217				2.9		20.0			
Tetrachloro-m-xylene	1157227800 1084982200	1085397000 1064616540	1110185480	1098572060	Ave		1100163513				2.9		20.0			
DCB Decachlorobiphenyl	1090868000 909471330	989344400 889526895	954699080	927521040	Ave		960238458				7.6		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.: 240-21987-1 Analy Batch No.: 78295

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2013 14:20 Calibration End Date: 03/14/2013 16:00 Calibration ID: 14138

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-78295/13	P3031413.D
Level 2	STD 240-78295/14	P3031414.D
Level 3	STD 240-78295/15	P3031415.D
Level 4	STD 240-78295/16	P3031416.D
Level 5	STD 240-78295/17	P3031417.D
Level 6	STD 240-78295/18	P3031418.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	Ave	7723849 334483518	15248998	41109116	83254980	169069280	0.00500 0.200	0.0100	0.0250	0.0500	0.100
gamma-BHC (Lindane)	Ave	7088722 296394748	13784429	36713863	74128935	150192651	0.00500 0.200	0.0100	0.0250	0.0500	0.100
beta-BHC	Ave	3390982 118080169	6245666	15375560	30109377	60054605	0.00500 0.200	0.0100	0.0250	0.0500	0.100
delta-BHC	Ave	7021845 306957333	13781803	37354970	75876449	155211774	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Heptachlor	Ave	6444168 256221914	12370788	32449578	65357289	131620345	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Aldrin	Ave	6751407 274608679	12899784	34263341	68888892	139831096	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Heptachlor epoxide	Ave	6403279 240083019	12063566	30839303	61142532	123607519	0.00500 0.200	0.0100	0.0250	0.0500	0.100
gamma-Chlordane	Ave	6432116 258135056	12036397	31245166	62789444	129462169	0.00500 0.200	0.0100	0.0250	0.0500	0.100
alpha-Chlordane	Ave	6625948 258882055	12544705	31969190	63962633	130612634	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Endosulfan I	Ave	6031134 225983627	11203157	28739979	57355301	116265499	0.00500 0.200	0.0100	0.0250	0.0500	0.100
4,4'-DDE	Ave	6203794 263138642	11845796	31304045	64158456	132266883	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Dieldrin	Ave	6286128 255983421	12071295	31797893	64295083	130845292	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Endrin	Ave	5981804 235250743	11445308	30003036	60197190	121362286	0.00500 0.200	0.0100	0.0250	0.0500	0.100
4,4'-DDD	Ave	4725338 202556675	9040316	24116204	49032652	101475837	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Endosulfan II	Ave	5690305 214458063	10634263	27513681	54571554	110168800	0.00500 0.200	0.0100	0.0250	0.0500	0.100
4,4'-DDT	Ave	4556454 192701152	8616751	22724641	46440699	95899338	0.00500 0.200	0.0100	0.0250	0.0500	0.100

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 78295

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2013 14:20 Calibration End Date: 03/14/2013 16:00 Calibration ID: 14138

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Endrin aldehyde	Ave	4719044 169102782	8702583	21988432	43730934	87045399	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Methoxychlor	Ave	2545427 86082179	4730704	11506611	22775450	44017689	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Endosulfan sulfate	Ave	5226115 189248380	9739687	24363041	48795973	97049405	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Endrin ketone	Ave	6009662 219666410	11341812	28824794	57124126	113796937	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Tetrachloro-m-xylene	Ave	5786139 212923308	10853970	27754637	54928603	108498220	0.00500 0.200	0.0100	0.0250	0.0500	0.100
DCB Decachlorobiphenyl	Ave	5454340 177905379	9893444	23867477	46376052	90947133	0.00500 0.200	0.0100	0.0250	0.0500	0.100

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031413.D		
Lims ID:	STD AB L1	Client ID:	
Inject. Date:	14-Mar-2013 14:20:21	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	240-0017984-013		
Misc. Info.:			
Operator:	402582	Instrument ID:	A2HP3
Injection Vol:	1.0 ul	ALS Bottle#:	13
Lims Batch ID:	78295	Lims Sample ID:	13
Sublist:	chrom-PEST3*sub7		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m		
Last Update:	15-Mar-2013 07:54:30	Calib Date:	14-Mar-2013 20:00:25
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D		
Limit Group:	GC 8081 D0D ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK032		
First Level Reviewer: shockr		Date:	14-Mar-2013 14:44:49

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.565	3.565	0.000	5786139	0.005259			
2	100	4.180	4.180	0.000	3011824	0.004987			
						RPD = 5.32			
5 alpha-BHC									
1	100	4.255	4.255	0.000	7723849	0.004757			
2	100	5.068	5.068	0.000	3454865	0.004487			
						RPD = 5.83			
20 gamma-BHC (Lindane)									
1	100	4.643	4.643	0.000	7088722	0.004871			
2	100	5.688	5.688	0.000	3183529	0.004702			
						RPD = 3.54			
7 beta-BHC									
1	100	4.777	4.777	0.000	3390982	0.005483			
2	100	5.883	5.883	0.000	1601411	0.005416			
						RPD = 1.23			
11 delta-BHC									
1	100	4.998	4.999	-0.001	7021845	0.004744			
2	100	6.508	6.508	0.000	3208106	0.004612			
						RPD = 2.82			
22 Heptachlor									
1	100	5.293	5.293	0.000	6444168	0.005003			
2	100	6.579	6.580	-0.001	2883043	0.004945			
						RPD = 1.16			
4 Aldrin									
1	100	5.761	5.761	0.000	6751407	0.004964			
2	100	7.382	7.382	0.000	3202302	0.004808			
						RPD = 3.21			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.038	7.039	-0.001	6403279	0.005206			
2	100	8.821	8.821	0.000	2933899	0.005047			
						RPD = 3.10			
21 gamma-Chlordane									
1	100	7.354	7.355	-0.001	6432116	0.005091			
2	100	9.211	9.210	0.001	2883307	0.004915			
						RPD = 3.51			
6 alpha-Chlordane									
1	100	7.695	7.695	0.000	6625948	0.005138			
2	100	9.513	9.511	0.002	3025984	0.004958			
						RPD = 3.56			
14 Endosulfan I									
1	100	7.967	7.965	0.002	6031134	0.005232			
2	100	9.577	9.578	-0.001	2669936	0.005025			
						RPD = 4.04			
2 4,4'-DDE									
1	100	8.060	8.060	0.000	6203794	0.004898			
2	100	9.940	9.940	0.000	2826430	0.004635			
						RPD = 5.53			
13 Dieldrin									
1	100	8.515	8.517	-0.002	6286128	0.004956			
2	100	10.093	10.092	0.001	2836740	0.004773			
						RPD = 3.77			
17 Endrin									
1	100	8.966	8.966	0.000	5981804	0.005030			
2	100	10.608	10.608	0.000	2601220	0.004855			
						RPD = 3.55			
1 4,4'-DDD									
1	100	9.318	9.318	0.000	4725338	0.004870			
2	100	10.930	10.930	0.000	2010016	0.004701			
						RPD = 3.52			
15 Endosulfan II									
1	100	9.411	9.411	0.000	5690305	0.005199			
2	100	10.975	10.975	0.000	2471875	0.005092			
						RPD = 2.08			
3 4,4'-DDT									
1	100	9.836	9.835	0.001	4556454	0.004941			
2	100	11.411	11.410	0.001	1917038	0.004847			
						RPD = 1.93			
18 Endrin aldehyde									
1	100	10.202	10.201	0.001	4719044	0.005358			
2	100	11.533	11.532	0.001	2051347	0.005192			
						RPD = 3.15			
27 Methoxychlor									
1	100	10.778	10.780	-0.002	2545427	0.005517			
2	100	12.487	12.487	0.000	1067535	0.005351			
						RPD = 3.05			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	10.923	10.925	-0.002	5226115	0.005327			
2	100	11.949	11.948	0.001	2308704	0.005221			
						RPD = 2.02			
19 Endrin ketone									
1	100	11.323	11.322	0.001	6009662	0.005250			
2	100	12.700	12.699	0.001	2606409	0.005197			
						RPD = 1.02			
$ 10 DCB Decachlorobiphenyl									
1	100	12.928	12.929	-0.001	5454340	0.005680			
2	100	14.416	14.415	0.001	2781857	0.005787			
						RPD = 1.86			

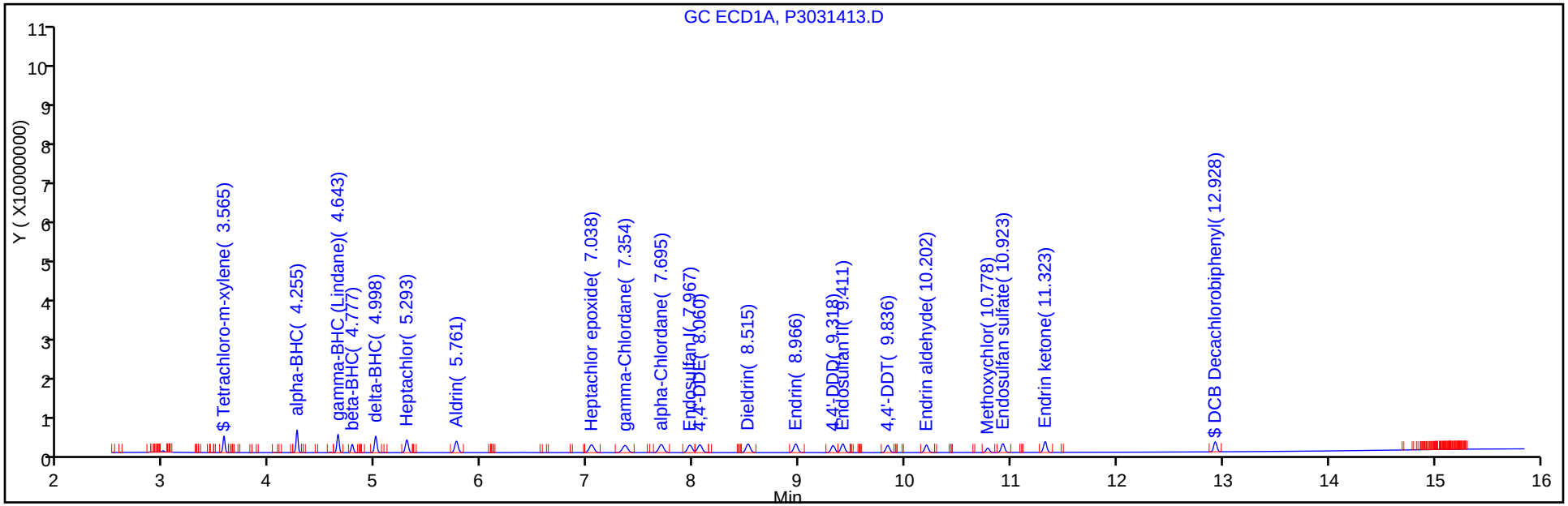
Report Date: 15-Mar-2013 07:54:31 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

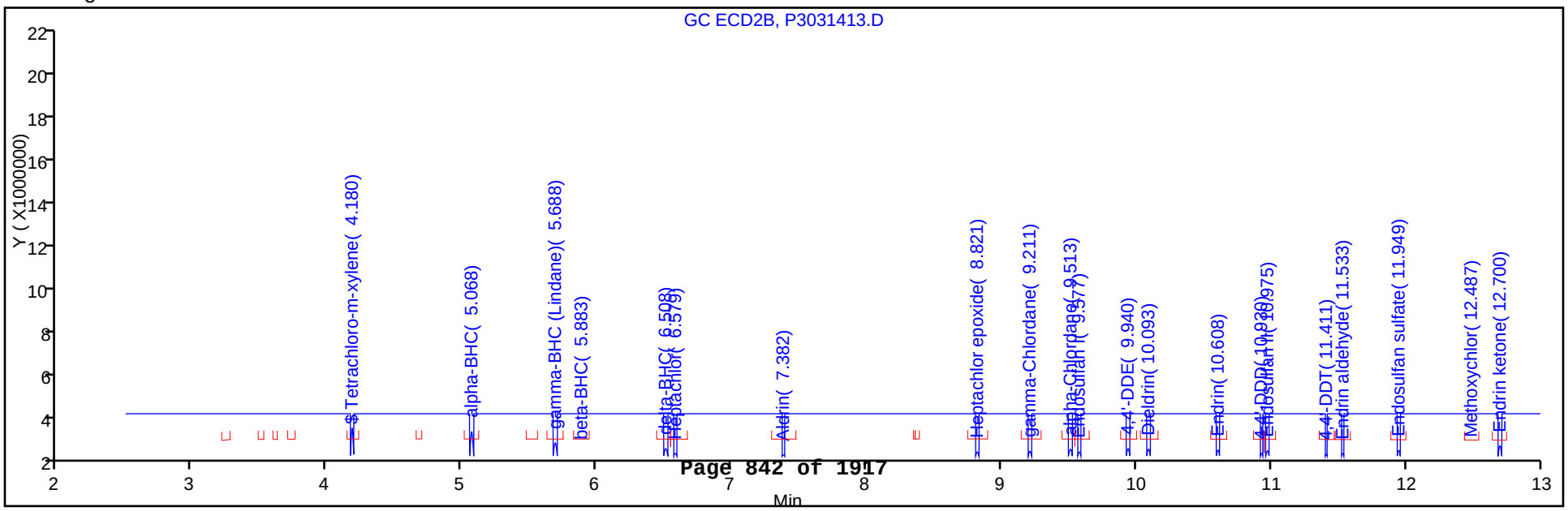
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031413.D

Injection Date:	14-Mar-2013 14:20:21	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	13
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031414.D
Lims ID: STD AB L2 Client ID:
Inject. Date: 14-Mar-2013 14:40:20 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0017984-014
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 14
Lims Batch ID: 78295 Lims Sample ID: 14
Sublist: chrom-PEST3*sub7
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m
Last Update: 15-Mar-2013 07:54:32 Calib Date: 14-Mar-2013 20:00:25
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK032

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.564	3.565	-0.001	10853970	0.009866			
2	100	4.179	4.180	-0.001	5702672	0.009442			
						RPD = 4.39			
5 alpha-BHC									
1	100	4.255	4.255	0.000	15248998	0.009391			
2	100	5.068	5.068	0.000	6853421	0.008901			
						RPD = 5.36			
20 gamma-BHC (Lindane)									
1	100	4.642	4.643	-0.001	13784429	0.009473			
2	100	5.686	5.688	-0.002	6168534	0.009111			
						RPD = 3.89			
7 beta-BHC									
1	100	4.777	4.777	0.000	6245666	0.0101			
2	100	5.883	5.883	0.000	2970864	0.0100			
						RPD = 0.51			
11 delta-BHC									
1	100	4.999	4.999	0.000	13781803	0.009311			
2	100	6.507	6.508	-0.001	6236042	0.008965			
						RPD = 3.79			
22 Heptachlor									
1	100	5.293	5.293	0.000	12370788	0.009604			
2	100	6.579	6.580	-0.001	5428603	0.009312			
						RPD = 3.09			
4 Aldrin									
1	100	5.761	5.761	0.000	12899784	0.009485			
2	100	7.381	7.382	-0.001	6142993	0.009223			
						RPD = 2.81			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.038	7.039	-0.001	12063566	0.009808			
2	100	8.822	8.821	0.001	5518990	0.009494			
						RPD = 3.25			
21 gamma-Chlordane									
1	100	7.354	7.355	-0.001	12036397	0.009526			
2	100	9.213	9.210	0.003	5470133	0.009325			
						RPD = 2.13			
6 alpha-Chlordane									
1	100	7.696	7.695	0.001	12544705	0.009727			
2	100	9.512	9.511	0.001	5720847	0.009373			
						RPD = 3.70			
14 Endosulfan I									
1	100	7.967	7.965	0.002	11203157	0.009720			
2	100	9.579	9.578	0.001	5007678	0.009425			
						RPD = 3.08			
2 4,4'-DDE									
1	100	8.061	8.060	0.001	11845796	0.009353			
2	100	9.940	9.940	0.000	5500244	0.009019			
						RPD = 3.64			
13 Dieldrin									
1	100	8.518	8.517	0.001	12071295	0.009517			
2	100	10.092	10.092	0.000	5437292	0.009148			
						RPD = 3.95			
17 Endrin									
1	100	8.968	8.966	0.002	11445308	0.009625			
2	100	10.608	10.608	0.000	4964610	0.009266			
						RPD = 3.80			
1 4,4'-DDD									
1	100	9.319	9.318	0.001	9040316	0.009317			
2	100	10.929	10.930	-0.001	3843604	0.008990			
						RPD = 3.57			
15 Endosulfan II									
1	100	9.412	9.411	0.001	10634263	0.009715			
2	100	10.974	10.975	-0.001	4665020	0.009609			
						RPD = 1.10			
3 4,4'-DDT									
1	100	9.835	9.835	0.000	8616751	0.009344			
2	100	11.412	11.410	0.002	3637635	0.009196			
						RPD = 1.59			
18 Endrin aldehyde									
1	100	10.202	10.201	0.001	8702583	0.009881			
2	100	11.533	11.532	0.001	3823662	0.009678			
						RPD = 2.08			
27 Methoxychlor									
1	100	10.781	10.780	0.001	4730704	0.0103			
2	100	12.486	12.487	-0.001	2005309	0.0101			
						RPD = 1.99			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	10.924	10.925	-0.001	9739687	0.0099			
2	100	11.949	11.948	0.001	4287527	0.009695			
						RPD = 2.37			
19 Endrin ketone									
1	100	11.321	11.322	-0.001	11341812	0.0099			
2	100	12.699	12.699	0.000	4880140	0.009730			
						RPD = 1.82			
$ 10 DCB Decachlorobiphenyl									
1	100	12.929	12.929	0.000	9893444	0.0103			
2	100	14.415	14.415	0.000	4961295	0.0103			
						RPD = 0.17			

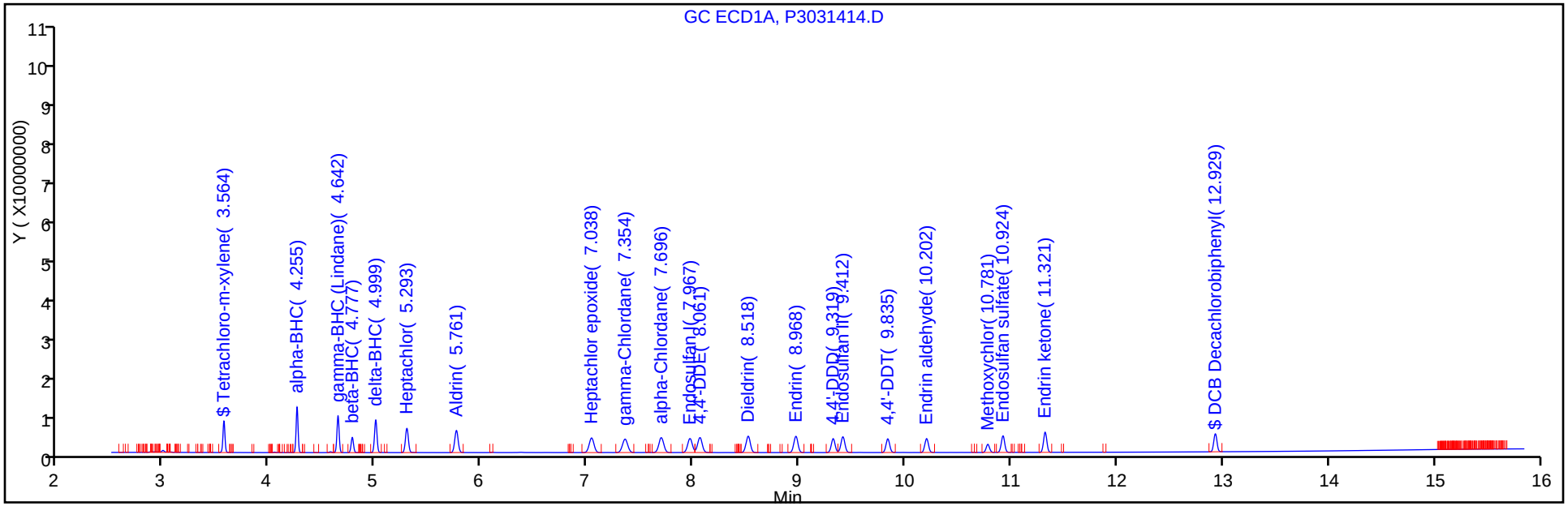
Report Date: 15-Mar-2013 07:54:33 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

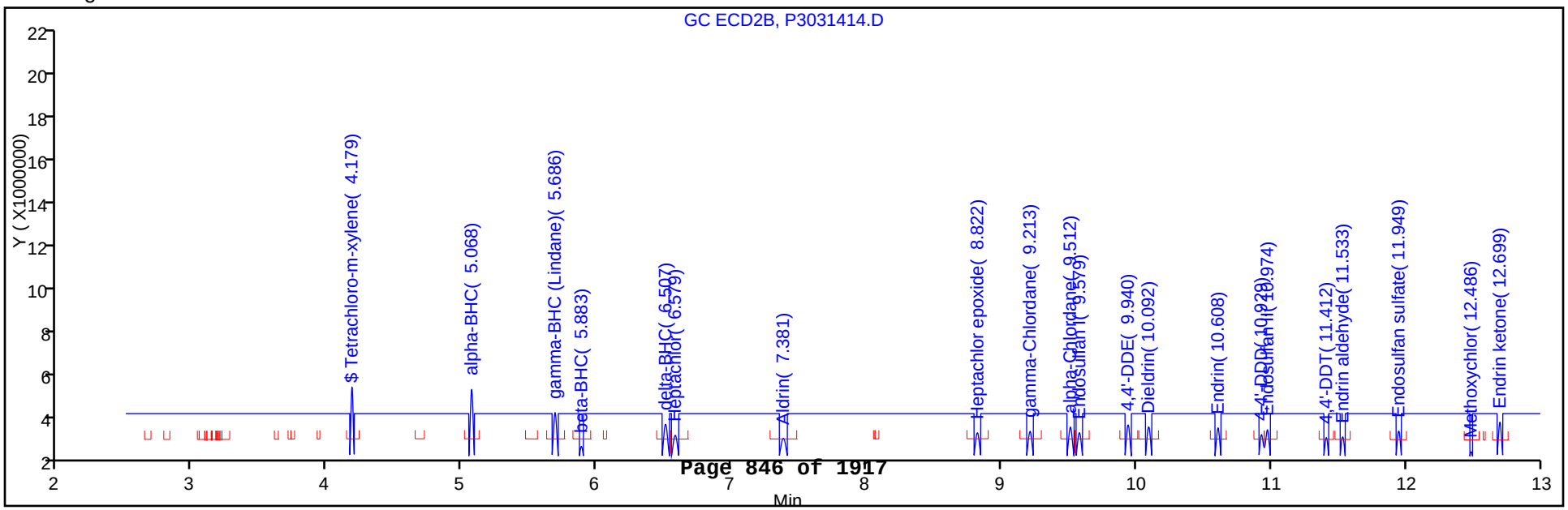
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031414.D

Injection Date:	14-Mar-2013 14:40:20	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	14
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031415.D		
Lims ID:	STD AB L3	Client ID:	
Inject. Date:	14-Mar-2013 15:00:19	Dil. Factor:	1.0000
Sample Type:	ICRT	Calib Level:	3
Sample ID:	240-0017984-015		
Misc. Info.:			
Operator:	402582	Instrument ID:	A2HP3
Injection Vol:	1.0 ul	ALS Bottle#:	15
Lims Batch ID:	78295	Lims Sample ID:	15
Sublist:	chrom-PEST3*sub7		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m		
Last Update:	15-Mar-2013 07:54:34	Calib Date:	14-Mar-2013 20:00:25
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D		
Limit Group:	GC 8081 D0D ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK032		
First Level Reviewer: shockr		Date:	14-Mar-2013 15:41:02

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.565	3.565	0.000	27754637	0.0252			
2	100	4.180	4.180	0.000	14906362	0.0247			
						RPD = 2.19			
5 alpha-BHC									
1	100	4.255	4.255	0.000	41109116	0.0253			
2	100	5.068	5.068	0.000	18954736	0.0246			
						RPD = 2.80			
20 gamma-BHC (Lindane)									
1	100	4.643	4.643	0.000	36713863	0.0252			
2	100	5.688	5.688	0.000	16553033	0.0244			
						RPD = 3.14			
7 beta-BHC									
1	100	4.777	4.777	0.000	15375560	0.0249			
2	100	5.883	5.883	0.000	7291460	0.0247			
						RPD = 0.82			
11 delta-BHC									
1	100	4.999	4.999	0.000	37354970	0.0252			
2	100	6.508	6.508	0.000	16933296	0.0243			
						RPD = 3.61			
22 Heptachlor									
1	100	5.293	5.293	0.000	32449578	0.0252			
2	100	6.580	6.580	0.000	14236051	0.0244			
						RPD = 3.12			
4 Aldrin									
1	100	5.761	5.761	0.000	34263341	0.0252			
2	100	7.382	7.382	0.000	16200307	0.0243			
						RPD = 3.52			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.039	7.039	0.000	30839303	0.0251			
2	100	8.821	8.821	0.000	14246942	0.0245			
						RPD = 2.28			
21 gamma-Chlordane									
1	100	7.355	7.355	0.000	31245166	0.0247			
2	100	9.210	9.210	0.000	14290617	0.0244			
						RPD = 1.50			
6 alpha-Chlordane									M
1	100	7.695	7.695	0.000	31969190	0.0248			M
2	100	9.511	9.511	0.000	14946818	0.0245			
						RPD = 1.21			
14 Endosulfan I									
1	100	7.965	7.965	0.000	28739979	0.0249			
2	100	9.578	9.578	0.000	12998289	0.0245			
						RPD = 1.90			
2 4,4'-DDE									
1	100	8.060	8.060	0.000	31304045	0.0247			
2	100	9.940	9.940	0.000	14909439	0.0244			
						RPD = 1.10			
13 Dieldrin									
1	100	8.517	8.517	0.000	31797893	0.0251			
2	100	10.092	10.092	0.000	14570978	0.0245			
						RPD = 2.24			
17 Endrin									
1	100	8.966	8.966	0.000	30003036	0.0252			
2	100	10.608	10.608	0.000	13183902	0.0246			
						RPD = 2.51			
1 4,4'-DDD									
1	100	9.318	9.318	0.000	24116204	0.0249			
2	100	10.930	10.930	0.000	10482730	0.0245			
						RPD = 1.36			
15 Endosulfan II									
1	100	9.411	9.411	0.000	27513681	0.0251			
2	100	10.975	10.975	0.000	11876887	0.0245			
						RPD = 2.71			
3 4,4'-DDT									
1	100	9.835	9.835	0.000	22724641	0.0246			
2	100	11.410	11.410	0.000	9589094	0.0242			
						RPD = 1.63			
18 Endrin aldehyde									
1	100	10.201	10.201	0.000	21988432	0.0250			
2	100	11.532	11.532	0.000	9668493	0.0245			
						RPD = 2.00			
27 Methoxychlor									
1	100	10.780	10.780	0.000	11506611	0.0249			
2	100	12.487	12.487	0.000	4949088	0.0248			
						RPD = 0.53			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	10.925	10.925	0.000	24363041	0.0248			
2	100	11.948	11.948	0.000	10831997	0.0245			
						RPD = 1.38			
19 Endrin ketone									
1	100	11.322	11.322	0.000	28824794	0.0252			
2	100	12.699	12.699	0.000	12376918	0.0247			
						RPD = 2.02			
$ 10 DCB Decachlorobiphenyl									
1	100	12.929	12.929	0.000	23867477	0.0249			
2	100	14.415	14.415	0.000	11801499	0.0246			
						RPD = 1.23			

QC Flag Legend

Review Flags
M - Manually Integrated

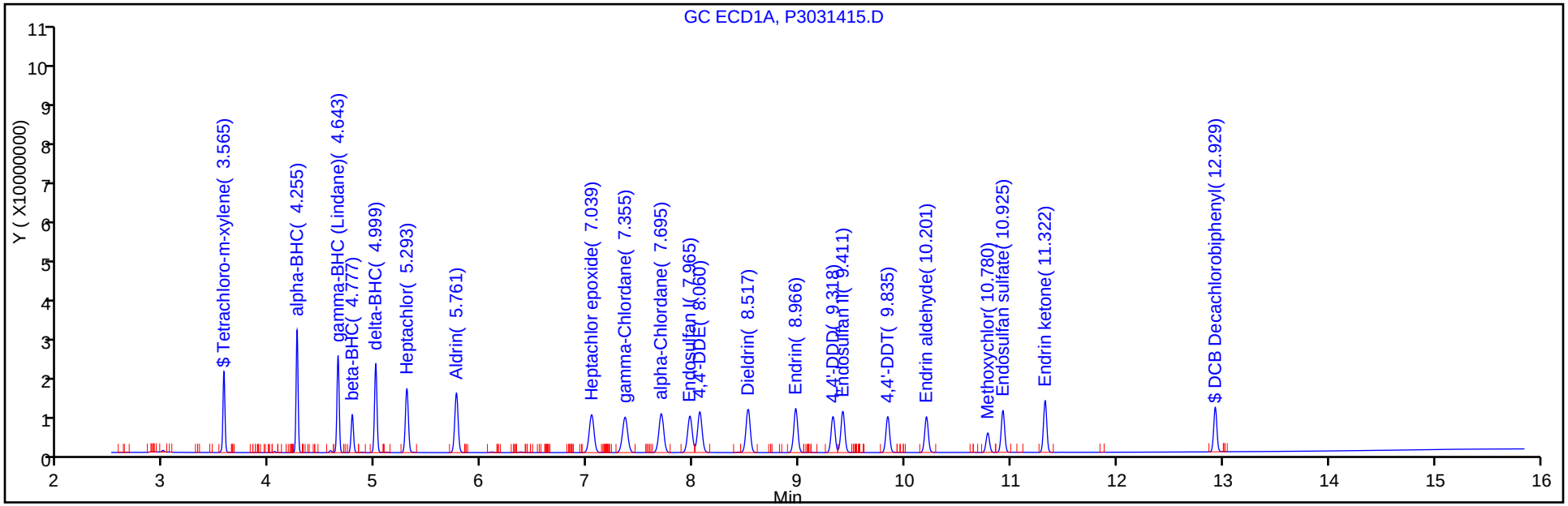
Report Date: 15-Mar-2013 07:54:35 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

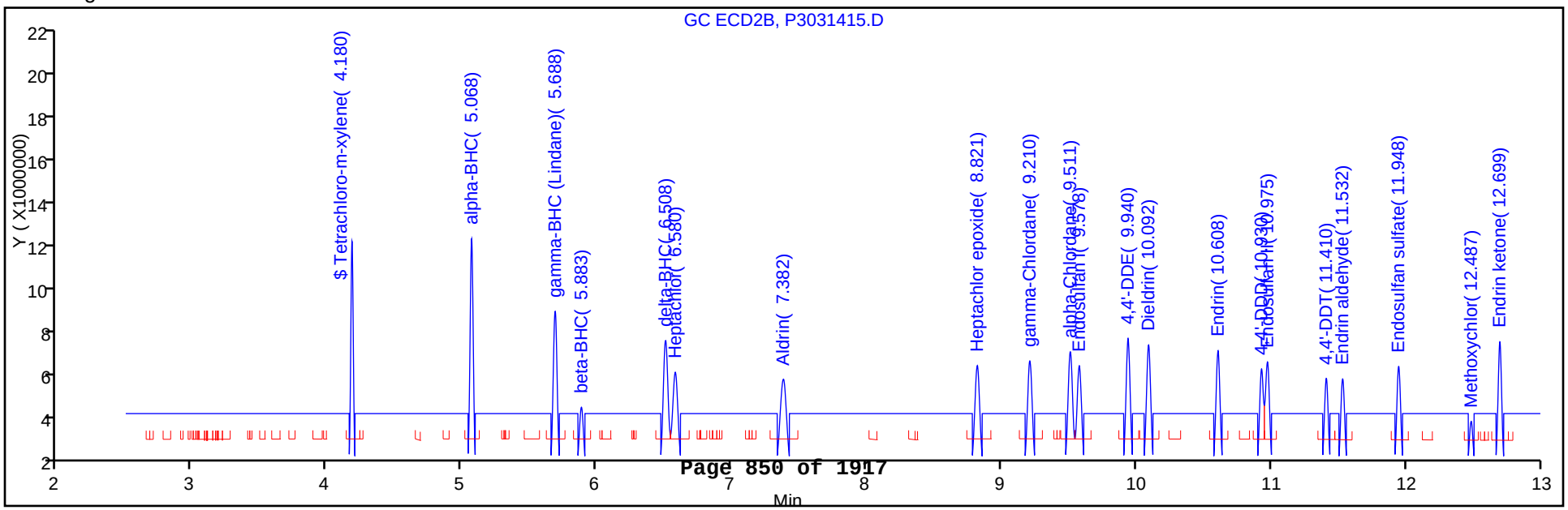
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031415.D

Injection Date:	14-Mar-2013 15:00:19	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	15
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

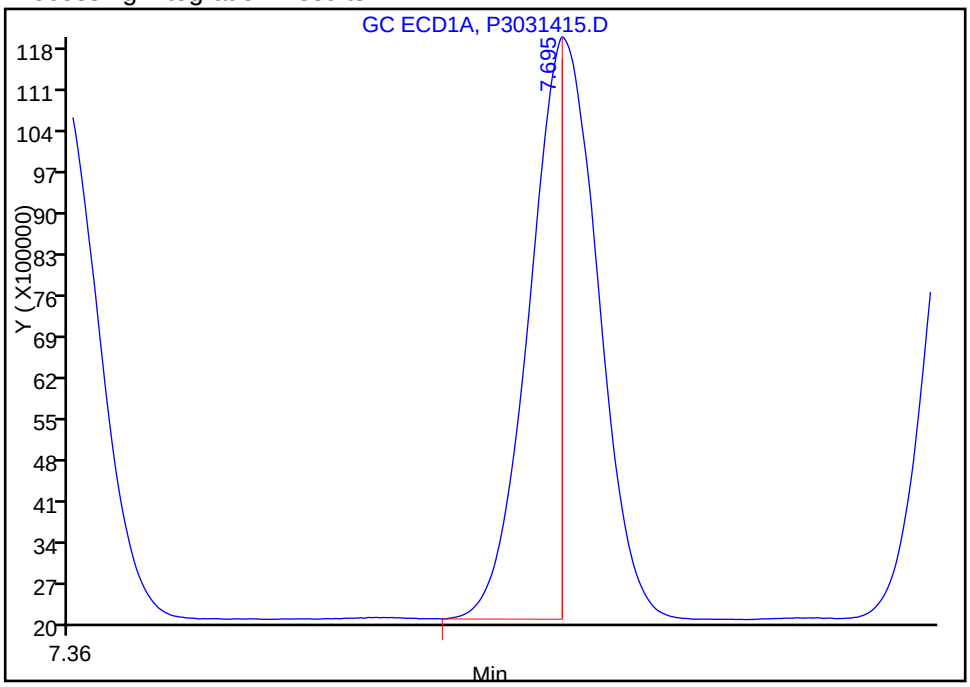
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031415.D		
Injection Date:	14-Mar-2013 15:00:19	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	15
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

6 alpha-Chlordane, Signal: 1, Type: quant, RT: 7.69, Det: GC ECD1A

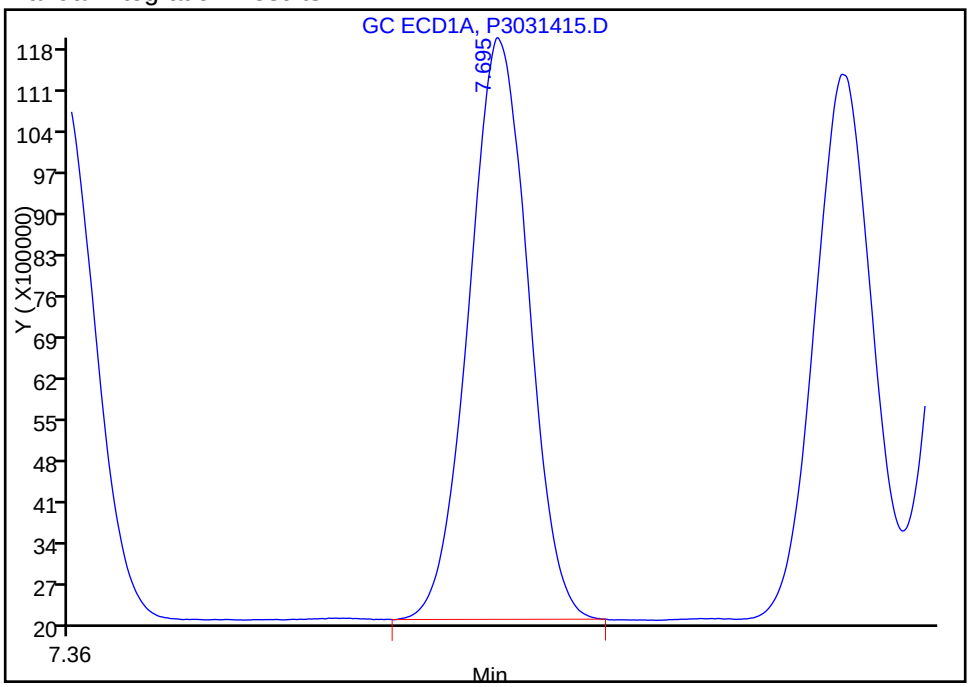
Processing Integration Results

RT: 7.69
Response: 15174928
Amount: 0.014286



Manual Integration Results

RT: 7.69
Response: 31969190
Amount: 0.024788



Reviewer: shockr, 14-Mar-2013 15:41:02
Audit Action: Manually Integrated
Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031416.D		
Lims ID:	STD AB L4	Client ID:	
Inject. Date:	14-Mar-2013 15:20:21	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	240-0017984-016		
Misc. Info.:			
Operator:	402582	Instrument ID:	A2HP3
Injection Vol:	1.0 ul	ALS Bottle#:	16
Lims Batch ID:	78295	Lims Sample ID:	16
Sublist:	chrom-PEST3*sub7		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m		
Last Update:	15-Mar-2013 07:54:36	Calib Date:	14-Mar-2013 20:00:25
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D		
Limit Group:	GC 8081 D0D ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK032		

First Level Reviewer: shockr Date: 14-Mar-2013 16:05:12

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.564	3.565	-0.001	54928603	0.0499			
2	100	4.179	4.180	-0.001	30437726	0.0504			
						RPD = 0.94			
5 alpha-BHC									
1	100	4.255	4.255	0.000	83254980	0.0513			
2	100	5.068	5.068	0.000	39687017	0.0515			
						RPD = 0.53			
20 gamma-BHC (Lindane)									
1	100	4.643	4.643	0.000	74128935	0.0509			
2	100	5.687	5.688	-0.001	34332874	0.0507			
						RPD = 0.46			
7 beta-BHC									
1	100	4.777	4.777	0.000	30109377	0.0487			
2	100	5.882	5.883	-0.001	14280872	0.0483			
						RPD = 0.80			
11 delta-BHC									
1	100	4.998	4.999	-0.001	75876449	0.0513			
2	100	6.508	6.508	0.000	35380167	0.0509			
						RPD = 0.78			
22 Heptachlor									
1	100	5.293	5.293	0.000	65357289	0.0507			
2	100	6.579	6.580	-0.001	29140848	0.0500			
						RPD = 1.50			
4 Aldrin									
1	100	5.760	5.761	-0.001	68888892	0.0507			
2	100	7.380	7.382	-0.002	33339061	0.0501			
						RPD = 1.19			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.038	7.039	-0.001	61142532	0.0497			
2	100	8.820	8.821	-0.001	28806716	0.0496			
						RPD = 0.31			
21 gamma-Chlordane									
1	100	7.353	7.355	-0.002	62789444	0.0497			
2	100	9.211	9.210	0.001	29175157	0.0497			
						RPD = 0.08			
6 alpha-Chlordane									
1	100	7.694	7.695	-0.001	63962633	0.0496			
2	100	9.510	9.511	-0.001	30210613	0.0495			
						RPD = 0.19			
14 Endosulfan I									
1	100	7.967	7.965	0.002	57355301	0.0498			
2	100	9.578	9.578	0.000	26468245	0.0498			
						RPD = 0.11			
2 4,4'-DDE									
1	100	8.060	8.060	0.000	64158456	0.0507			
2	100	9.940	9.940	0.000	31031644	0.0509			
						RPD = 0.45			
13 Dieldrin									
1	100	8.516	8.517	-0.001	64295083	0.0507			
2	100	10.092	10.092	0.000	30001382	0.0505			
						RPD = 0.42			
17 Endrin									
1	100	8.965	8.966	-0.001	60197190	0.0506			
2	100	10.606	10.608	-0.002	26944971	0.0503			
						RPD = 0.66			
1 4,4'-DDD									
1	100	9.319	9.318	0.001	49032652	0.0505			
2	100	10.928	10.930	-0.002	21704045	0.0508			
						RPD = 0.46			
15 Endosulfan II									
1	100	9.410	9.411	-0.001	54571554	0.0499			
2	100	10.974	10.975	-0.001	24090696	0.0496			
						RPD = 0.47			
3 4,4'-DDT									
1	100	9.834	9.835	-0.001	46440699	0.0504			
2	100	11.410	11.410	0.000	19827190	0.0501			
						RPD = 0.46			
18 Endrin aldehyde									
1	100	10.200	10.201	-0.001	43730934	0.0497			
2	100	11.532	11.532	0.000	19532823	0.0494			
						RPD = 0.43			
27 Methoxychlor									
1	100	10.780	10.780	0.000	22775450	0.0494			
2	100	12.486	12.487	-0.001	9817056	0.0492			
						RPD = 0.32			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	10.923	10.925	-0.002	48795973	0.0497			
2	100	11.948	11.948	0.000	21745192	0.0492			
						RPD = 1.15			
19 Endrin ketone									
1	100	11.322	11.322	0.000	57124126	0.0499			
2	100	12.700	12.699	0.001	24790369	0.0494			
						RPD = 0.96			
$ 10 DCB Decachlorobiphenyl									
1	100	12.930	12.929	0.001	46376052	0.0483			
2	100	14.417	14.415	0.002	22823566	0.0475			
						RPD = 1.70			

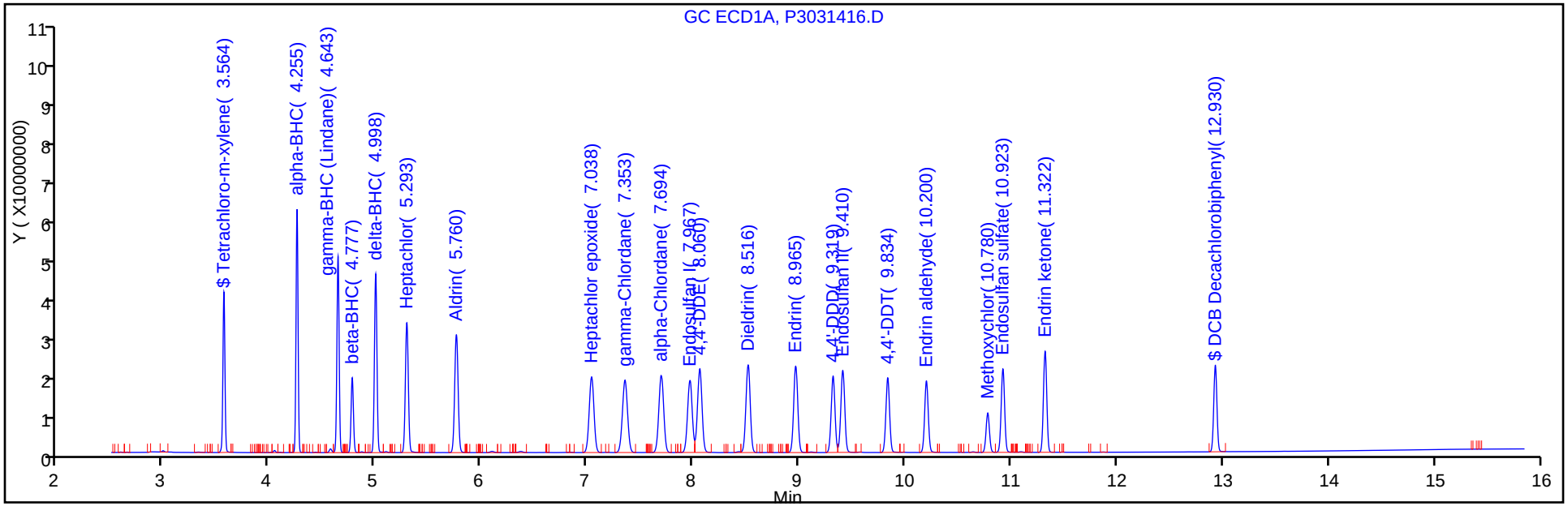
Report Date: 15-Mar-2013 07:54:37 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

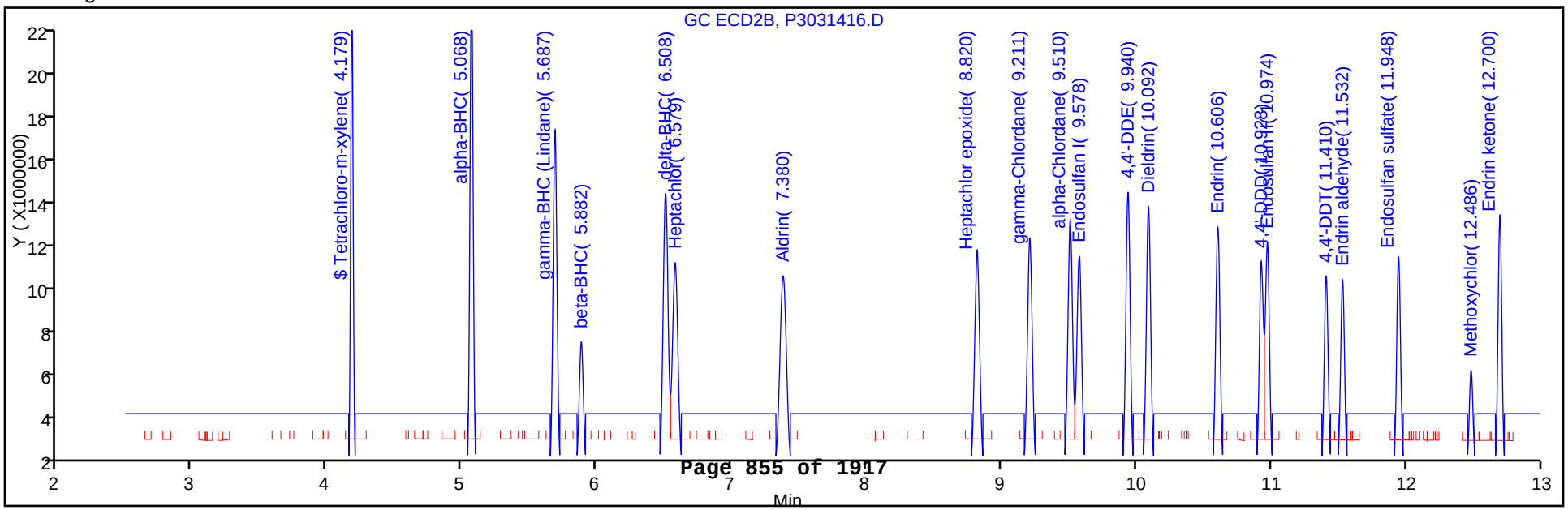
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031416.D

Injection Date:	14-Mar-2013 15:20:21	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	16
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031417.D
Lims ID: STD AB L5 Client ID:
Inject. Date: 14-Mar-2013 15:40:26 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0017984-017
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 17
Lims Batch ID: 78295 Lims Sample ID: 17
Sublist: chrom-PEST3*sub7
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m
Last Update: 15-Mar-2013 07:54:38 Calib Date: 14-Mar-2013 20:00:25
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK032

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.564	3.565	-0.001	108498220	0.0986			
2	100	4.179	4.180	-0.001	62181454	0.1030			
						RPD = 4.30			
5 alpha-BHC									
1	100	4.256	4.255	0.001	169069280	0.1041			
2	100	5.068	5.068	0.000	83756504	0.1088			
						RPD = 4.38			
20 gamma-BHC (Lindane)									
1	100	4.643	4.643	0.000	150192651	0.1032			
2	100	5.688	5.688	0.000	72308864	0.1068			
						RPD = 3.42			
7 beta-BHC									
1	100	4.777	4.777	0.000	60054605	0.0971			
2	100	5.883	5.883	0.000	28891924	0.0977			
						RPD = 0.62			
11 delta-BHC									
1	100	4.998	4.999	-0.001	155211774	0.1049			
2	100	6.508	6.508	0.000	75035996	0.1079			
						RPD = 2.83			
22 Heptachlor									
1	100	5.294	5.293	0.001	131620345	0.1022			
2	100	6.579	6.580	-0.001	60486311	0.1038			
						RPD = 1.53			
4 Aldrin									
1	100	5.761	5.761	0.000	139831096	0.1028			
2	100	7.381	7.382	-0.001	70399564	0.1057			
						RPD = 2.76			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.038	7.039	-0.001	123607519	0.1005			
2	100	8.821	8.821	0.000	59935339	0.1031			
						RPD = 2.56			
21 gamma-Chlordane									
1	100	7.353	7.355	-0.002	129462169	0.1025			
2	100	9.213	9.210	0.003	61228950	0.1044			
						RPD = 1.85			
6 alpha-Chlordane									
1	100	7.697	7.695	0.002	130612634	0.1013			
2	100	9.513	9.511	0.002	63433868	0.1039			
						RPD = 2.59			
14 Endosulfan I									
1	100	7.967	7.965	0.002	116265499	0.1009			
2	100	9.578	9.578	0.000	54856402	0.1032			
						RPD = 2.33			
2 4,4'-DDE									
1	100	8.059	8.060	-0.001	132266883	0.1044			
2	100	9.941	9.940	0.001	65438107	0.1073			
						RPD = 2.71			
13 Dieldrin									
1	100	8.518	8.517	0.001	130845292	0.1032			
2	100	10.093	10.092	0.001	63014184	0.1060			
						RPD = 2.73			
17 Endrin									
1	100	8.966	8.966	0.000	121362286	0.1021			
2	100	10.608	10.608	0.000	56195128	0.1049			
						RPD = 2.73			
1 4,4'-DDD									
1	100	9.319	9.318	0.001	101475837	0.1046			
2	100	10.931	10.930	0.001	45380274	0.1061			
						RPD = 1.48			
15 Endosulfan II									
1	100	9.411	9.411	0.000	110168800	0.1006			
2	100	10.975	10.975	0.000	49795219	0.1026			
						RPD = 1.89			
3 4,4'-DDT									
1	100	9.837	9.835	0.002	95899338	0.1040			
2	100	11.411	11.410	0.001	41520195	0.1050			
						RPD = 0.94			
18 Endrin aldehyde									
1	100	10.201	10.201	0.000	87045399	0.0988			
2	100	11.533	11.532	0.001	39689339	0.1005			
						RPD = 1.63			
27 Methoxychlor									
1	100	10.780	10.780	0.000	44017689	0.0954			
2	100	12.487	12.487	0.000	19442887	0.0974			
						RPD = 2.13			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	10.924	10.925	-0.001	97049405	0.0989			
2	100	11.949	11.948	0.001	44455758	0.1005			
						RPD = 1.61			
19 Endrin ketone									
1	100	11.323	11.322	0.001	113796937	0.0994			
2	100	12.700	12.699	0.001	50377770	0.1004			
						RPD = 1.03			
$ 10 DCB Decachlorobiphenyl									
1	100	12.930	12.929	0.001	90947133	0.0947			
2	100	14.416	14.415	0.001	45130190	0.0939			
						RPD = 0.88			

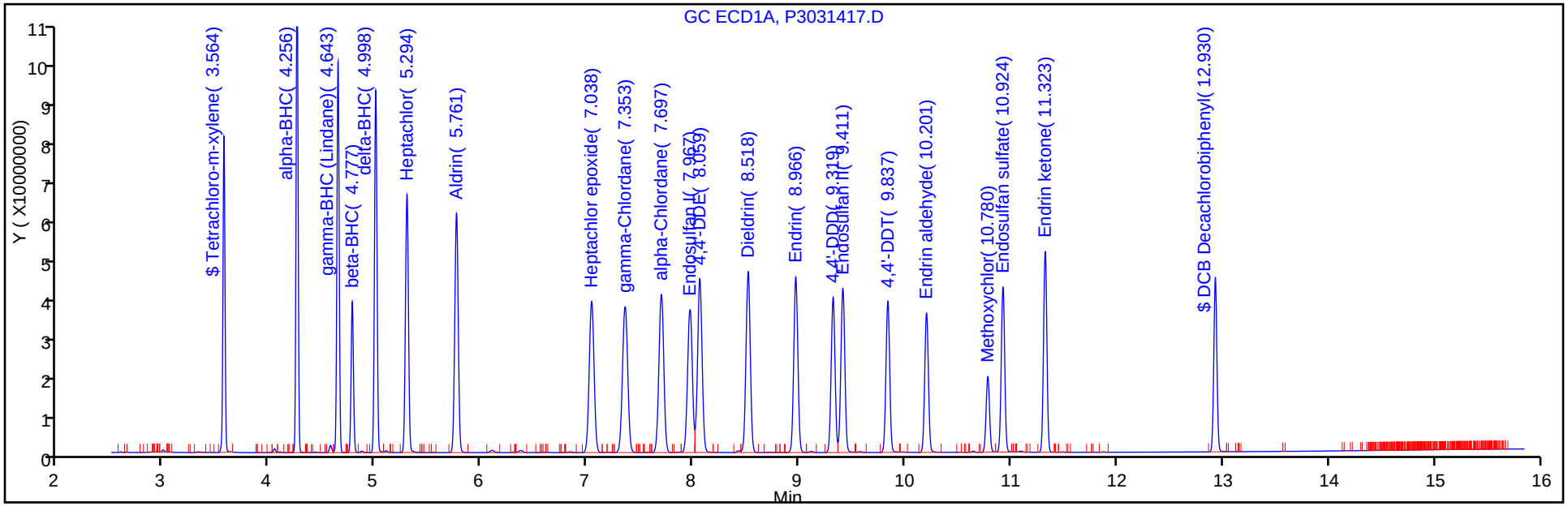
Report Date: 15-Mar-2013 07:54:38 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

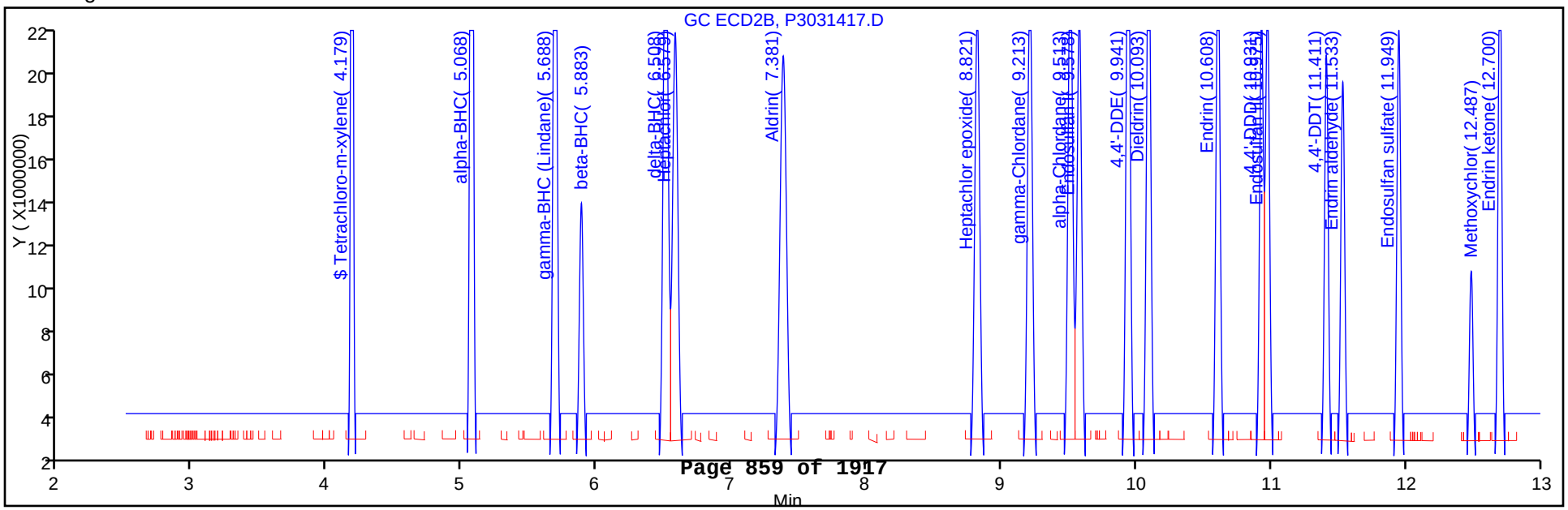
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031417.D

Injection Date:	14-Mar-2013 15:40:26	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	17
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031418.D		
Lims ID:	STD AB L6	Client ID:	
Inject. Date:	14-Mar-2013 16:00:25	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	240-0017984-018		
Misc. Info.:			
Operator:	402582	Instrument ID:	A2HP3
Injection Vol:	1.0 ul	ALS Bottle#:	18
Lims Batch ID:	78295	Lims Sample ID:	18
Sublist:	chrom-PEST3*sub7		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m		
Last Update:	15-Mar-2013 07:54:39	Calib Date:	14-Mar-2013 20:00:25
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D		
Limit Group:	GC 8081 D0D ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK032		

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.565	3.565	0.000	212923308	0.1935			
2	100	4.180	4.180	0.000	124861403	0.2067			
						RPD = 6.60			
5 alpha-BHC									
1	100	4.255	4.255	0.000	334483518	0.2060			
2	100	5.068	5.068	0.000	170744897	0.2218			
						RPD = 7.37			
20 gamma-BHC (Lindane)									
1	100	4.642	4.643	-0.001	296394748	0.2037			
2	100	5.688	5.688	0.000	147384358	0.2177			
						RPD = 6.65			
7 beta-BHC									
1	100	4.777	4.777	0.000	118080169	0.1909			
2	100	5.882	5.883	-0.001	58136075	0.1966			
						RPD = 2.93			
11 delta-BHC									
1	100	4.999	4.999	0.000	306957333	0.2074			
2	100	6.507	6.508	-0.001	154642052	0.2223			
						RPD = 6.95			
22 Heptachlor									
1	100	5.293	5.293	0.000	256221914	0.1989			
2	100	6.578	6.580	-0.002	124246413	0.2131			
						RPD = 6.90			
4 Aldrin									
1	100	5.761	5.761	0.000	274608679	0.2019			
2	100	7.381	7.382	-0.001	144590532	0.2171			
						RPD = 7.23			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.038	7.039	-0.001	240083019	0.1952			
2	100	8.821	8.821	0.000	120775880	0.2078			
						RPD = 6.24			
21 gamma-Chlordane									
1	100	7.354	7.355	-0.001	258135056	0.2043			
2	100	9.212	9.210	0.002	125706508	0.2143			
						RPD = 4.77			
6 alpha-Chlordane									
1	100	7.697	7.695	0.002	258882055	0.2007			
2	100	9.511	9.511	0.000	129650177	0.2124			
						RPD = 5.66			
14 Endosulfan I									
1	100	7.967	7.965	0.002	225983627	0.1961			
2	100	9.580	9.578	0.002	111067818	0.2090			
						RPD = 6.41			
2 4,4'-DDE									
1	100	8.060	8.060	0.000	263138642	0.2078			
2	100	9.940	9.940	0.000	134480335	0.2205			
						RPD = 5.95			
13 Dieldrin									
1	100	8.517	8.517	0.000	255983421	0.2018			
2	100	10.093	10.092	0.001	128443491	0.2161			
						RPD = 6.84			
17 Endrin									
1	100	8.966	8.966	0.000	235250743	0.1978			
2	100	10.608	10.608	0.000	113969943	0.2127			
						RPD = 7.25			
1 4,4'-DDD									
1	100	9.320	9.318	0.002	202556675	0.2088			
2	100	10.930	10.930	0.000	94344525	0.2207			
						RPD = 5.55			
15 Endosulfan II									
1	100	9.411	9.411	0.000	214458063	0.1959			
2	100	10.975	10.975	0.000	99422834	0.2048			
						RPD = 4.43			
3 4,4'-DDT									
1	100	9.835	9.835	0.000	192701152	0.2090			
2	100	11.412	11.410	0.002	86159827	0.2178			
						RPD = 4.16			
18 Endrin aldehyde									
1	100	10.202	10.201	0.001	169102782	0.1920			
2	100	11.534	11.532	0.002	80703275	0.2043			
						RPD = 6.19			
27 Methoxychlor									
1	100	10.780	10.780	0.000	86082179	0.1866			
2	100	12.486	12.487	-0.001	38867941	0.1948			
						RPD = 4.33			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	10.924	10.925	-0.001	189248380	0.1929			
2	100	11.949	11.948	0.001	90036300	0.2036			
						RPD = 5.39			
19 Endrin ketone									
1	100	11.321	11.322	-0.001	219666410	0.1919			
2	100	12.698	12.699	-0.001	101055206	0.2015			
						RPD = 4.87			
$ 10 DCB Decachlorobiphenyl									
1	100	12.928	12.929	-0.001	177905379	0.1853			
2	100	14.416	14.415	0.001	90371817	0.1880			
						RPD = 1.46			

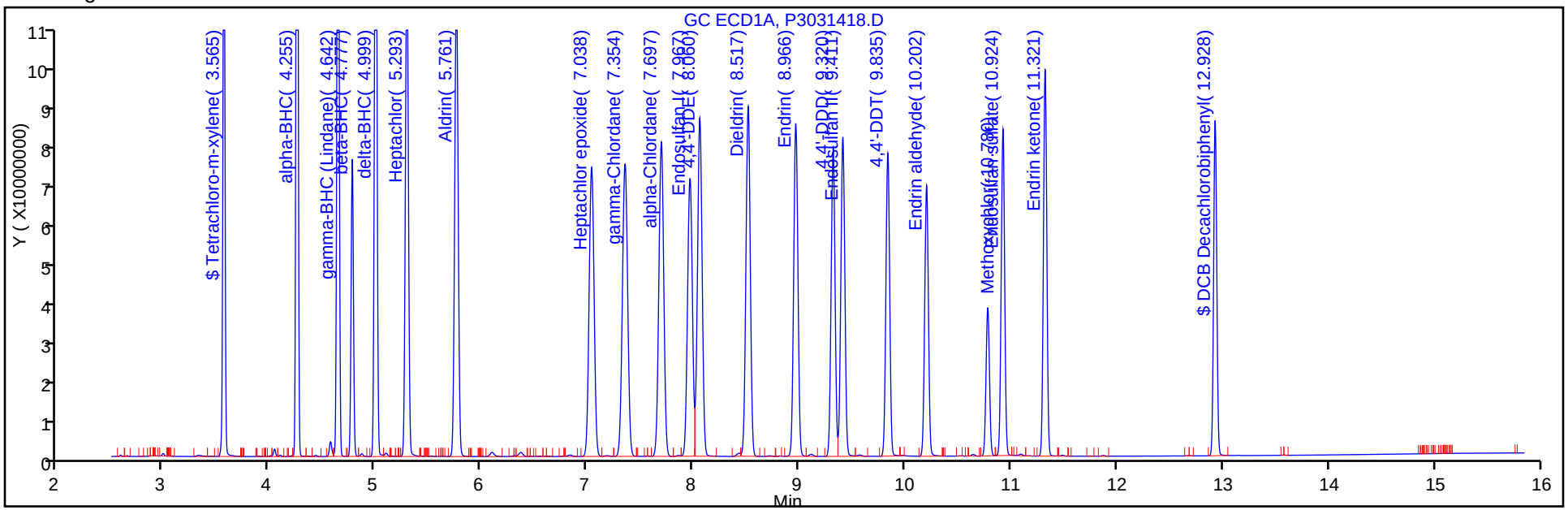
Report Date: 15-Mar-2013 07:54:40 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

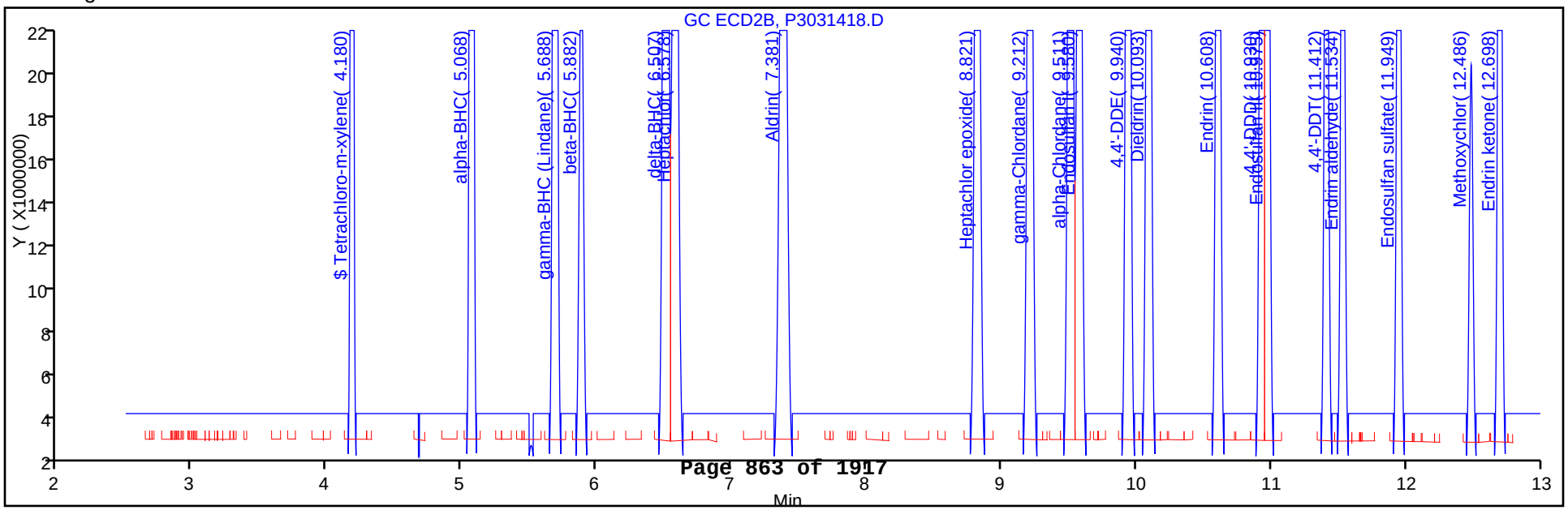
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031418.D

Injection Date:	14-Mar-2013 16:00:25	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	18
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 78295

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2013 14:20 Calibration End Date: 03/14/2013 16:00 Calibration ID: 14139

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-78295/13	P3031413.D
Level 2	STD 240-78295/14	P3031414.D
Level 3	STD 240-78295/15	P3031415.D
Level 4	STD 240-78295/16	P3031416.D
Level 5	STD 240-78295/17	P3031417.D
Level 6	STD 240-78295/18	P3031418.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
alpha-BHC	5.068	5.068	5.068	5.068	5.068	5.068					5.038 - 5.098	5.068
gamma-BHC (Lindane)	5.688	5.686	5.688	5.687	5.688	5.688					5.658 - 5.718	5.688
beta-BHC	5.883	5.883	5.883	5.882	5.883	5.882					5.853 - 5.913	5.883
delta-BHC	6.508	6.507	6.508	6.508	6.508	6.507					6.478 - 6.538	6.508
Heptachlor	6.579	6.579	6.580	6.579	6.579	6.578					6.550 - 6.610	6.579
Aldrin	7.382	7.381	7.382	7.380	7.381	7.381					7.352 - 7.412	7.381
Heptachlor epoxide	8.821	8.822	8.821	8.820	8.821	8.821					8.791 - 8.851	8.821
gamma-Chlordane	9.211	9.213	9.210	9.211	9.213	9.212					9.180 - 9.240	9.212
alpha-Chlordane	9.513	9.512	9.511	9.510	9.513	9.511					9.481 - 9.541	9.512
Endosulfan I	9.577	9.579	9.578	9.578	9.578	9.580					9.548 - 9.608	9.578
4,4'-DDE	9.940	9.940	9.940	9.940	9.941	9.940					9.910 - 9.970	9.940
Dieldrin	10.093	10.092	10.092	10.092	10.093	10.093					10.062 - 10.122	10.093
Endrin	10.608	10.608	10.608	10.606	10.608	10.608					10.578 - 10.638	10.608
4,4'-DDD	10.930	10.929	10.930	10.928	10.931	10.930					10.900 - 10.960	10.930
Endosulfan II	10.975	10.974	10.975	10.974	10.975	10.975					10.945 - 11.005	10.975
4,4'-DDT	11.411	11.412	11.410	11.410	11.411	11.412					11.380 - 11.440	11.411
Endrin aldehyde	11.533	11.533	11.532	11.532	11.533	11.534					11.502 - 11.562	11.533
Endosulfan sulfate	11.949	11.949	11.948	11.948	11.949	11.949					11.918 - 11.978	11.949
Methoxychlor	12.487	12.486	12.487	12.486	12.487	12.486					12.457 - 12.517	12.487
Endrin ketone	12.700	12.699	12.699	12.700	12.700	12.698					12.669 - 12.729	12.699
Tetrachloro-m-xylene	4.180	4.179	4.180	4.179	4.179	4.180					4.150 - 4.210	4.180
DCB Decachlorobiphenyl	14.416	14.415	14.415	14.417	14.416	14.416					14.385 - 14.445	14.416

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 78295

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2013 14:20 Calibration End Date: 03/14/2013 16:00 Calibration ID: 14139

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-78295/13	P3031413.D
Level 2	STD 240-78295/14	P3031414.D
Level 3	STD 240-78295/15	P3031415.D
Level 4	STD 240-78295/16	P3031416.D
Level 5	STD 240-78295/17	P3031417.D
Level 6	STD 240-78295/18	P3031418.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 6	LVL 3	LVL 4		B	M1	M2								
alpha-BHC	690973000 837565040	685342100 853724485	758189440	793740340	Ave		769922401				9.3		20.0			
gamma-BHC (Lindane)	636705800 723088640	616853400 736921790	662121320	686657480	Ave		677058072				7.0		20.0			
beta-BHC	320282200 288919240	297086400 290680375	291658400	285617440	Ave		295707343				4.3		20.0			
delta-BHC	641621200 750359960	623604200 773210260	677331840	707603340	Ave		695621800				8.5		20.0			
Heptachlor	576608600 604863110	542860300 621232065	569442040	582816960	Ave		582970513				4.7		20.0			
Aldrin	640460400 703995640	614299300 722952660	648012280	666781220	Ave		666083583				6.1		20.0			
Heptachlor epoxide	586779800 599353390	551899000 603879400	569877680	576134320	Ave		581320598				3.3		20.0			
gamma-Chlordane	576661400 612289500	547013300 628532540	571624680	583503140	Ave		586604093				5.0		20.0			
alpha-Chlordane	605196800 634338680	572084700 648250885	597872720	604212260	Ave		610326008				4.5		20.0			
Endosulfan I	533987200 548564020	500767800 555339090	519931560	529364900	Ave		531325762				3.7		20.0			
4,4'-DDE	565286000 654381070	550024400 672401675	596377560	620632880	Ave		609850598				8.0		20.0			
Dieldrin	567348000 630141840	543729200 642217455	582839120	600027640	Ave		594383876				6.3		20.0			
Endrin	520244000 561951280	496461000 569849715	527356080	538899420	Ave		535793583				5.1		20.0			
4,4'-DDD	402003200 453802740	384360400 471722625	419309200	434080900	Ave		427546511				7.6		20.0			
Endosulfan II	494375000 497952190	466502000 497114170	475075480	481813920	Ave		485472127				2.7		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 CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 78295

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2013 14:20 Calibration End Date: 03/14/2013 16:00 Calibration ID: 14139

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 6	LVL 3	LVL 4		B	M1	M2								
4,4'-DDT	383407600 415201950	363763500 430799135	383563760	396543800	Ave		395546624				6.1		20.0			
Endrin aldehyde	410269400 396893390	382366200 403516375	386739720	390656460	Ave		395073591				2.7		20.0			
Endosulfan sulfate	461740800 444557580	428752700 450181500	433279880	434903840	Ave		442236050				2.8		20.0			
Methoxychlor	213507000 194428870	200530900 194339705	197963520	196341120	Ave		199518519				3.6		20.0			
Endrin ketone	521281800 503777700	488014000 505276030	495076720	495807380	Ave		501538938				2.3		20.0			
Tetrachloro-m-xylene	602364800 621814540	570267200 624307015	596254480	608754520	Ave		603960426				3.3		20.0			
DCB Decachlorobiphenyl	556371400 451301900	496129500 451859085	472059960	456471320	Ave		480698861				8.5		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.: 240-21987-1 Analy Batch No.: 78295

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2013 14:20 Calibration End Date: 03/14/2013 16:00 Calibration ID: 14139

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-78295/13	P3031413.D
Level 2	STD 240-78295/14	P3031414.D
Level 3	STD 240-78295/15	P3031415.D
Level 4	STD 240-78295/16	P3031416.D
Level 5	STD 240-78295/17	P3031417.D
Level 6	STD 240-78295/18	P3031418.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	Ave	3454865 170744897	6853421	18954736	39687017	83756504	0.00500 0.200	0.0100	0.0250	0.0500	0.100
gamma-BHC (Lindane)	Ave	3183529 147384358	6168534	16553033	34332874	72308864	0.00500 0.200	0.0100	0.0250	0.0500	0.100
beta-BHC	Ave	1601411 58136075	2970864	7291460	14280872	28891924	0.00500 0.200	0.0100	0.0250	0.0500	0.100
delta-BHC	Ave	3208106 154642052	6236042	16933296	35380167	75035996	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Heptachlor	Ave	2883043 124246413	5428603	14236051	29140848	60486311	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Aldrin	Ave	3202302 144590532	6142993	16200307	33339061	70399564	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Heptachlor epoxide	Ave	2933899 120775880	5518990	14246942	28806716	59935339	0.00500 0.200	0.0100	0.0250	0.0500	0.100
gamma-Chlordane	Ave	2883307 125706508	5470133	14290617	29175157	61228950	0.00500 0.200	0.0100	0.0250	0.0500	0.100
alpha-Chlordane	Ave	3025984 129650177	5720847	14946818	30210613	63433868	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Endosulfan I	Ave	2669936 111067818	5007678	12998289	26468245	54856402	0.00500 0.200	0.0100	0.0250	0.0500	0.100
4,4'-DDE	Ave	2826430 134480335	5500244	14909439	31031644	65438107	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Dieldrin	Ave	2836740 128443491	5437292	14570978	30001382	63014184	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Endrin	Ave	2601220 113969943	4964610	13183902	26944971	56195128	0.00500 0.200	0.0100	0.0250	0.0500	0.100
4,4'-DDD	Ave	2010016 94344525	3843604	10482730	21704045	45380274	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Endosulfan II	Ave	2471875 99422834	4665020	11876887	24090696	49795219	0.00500 0.200	0.0100	0.0250	0.0500	0.100
4,4'-DDT	Ave	1917038 86159827	3637635	9589094	19827190	41520195	0.00500 0.200	0.0100	0.0250	0.0500	0.100

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 78295

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2013 14:20 Calibration End Date: 03/14/2013 16:00 Calibration ID: 14139

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Endrin aldehyde	Ave	2051347 80703275	3823662	9668493	19532823	39689339	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Endosulfan sulfate	Ave	2308704 90036300	4287527	10831997	21745192	44455758	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Methoxychlor	Ave	1067535 38867941	2005309	4949088	9817056	19442887	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Endrin ketone	Ave	2606409 101055206	4880140	12376918	24790369	50377770	0.00500 0.200	0.0100	0.0250	0.0500	0.100
Tetrachloro-m-xylene	Ave	3011824 124861403	5702672	14906362	30437726	62181454	0.00500 0.200	0.0100	0.0250	0.0500	0.100
DCB Decachlorobiphenyl	Ave	2781857 90371817	4961295	11801499	22823566	45130190	0.00500 0.200	0.0100	0.0250	0.0500	0.100

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031413.D		
Lims ID:	STD AB L1	Client ID:	
Inject. Date:	14-Mar-2013 14:20:21	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	240-0017984-013		
Misc. Info.:			
Operator:	402582	Instrument ID:	A2HP3
Injection Vol:	1.0 ul	ALS Bottle#:	13
Lims Batch ID:	78295	Lims Sample ID:	13
Sublist:	chrom-PEST3*sub7		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m		
Last Update:	15-Mar-2013 07:54:30	Calib Date:	14-Mar-2013 20:00:25
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D		
Limit Group:	GC 8081 D0D ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK032		
First Level Reviewer: shockr		Date:	14-Mar-2013 14:44:49

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.565	3.565	0.000	5786139	0.005259			
2	100	4.180	4.180	0.000	3011824	0.004987			
						RPD = 5.32			
5 alpha-BHC									
1	100	4.255	4.255	0.000	7723849	0.004757			
2	100	5.068	5.068	0.000	3454865	0.004487			
						RPD = 5.83			
20 gamma-BHC (Lindane)									
1	100	4.643	4.643	0.000	7088722	0.004871			
2	100	5.688	5.688	0.000	3183529	0.004702			
						RPD = 3.54			
7 beta-BHC									
1	100	4.777	4.777	0.000	3390982	0.005483			
2	100	5.883	5.883	0.000	1601411	0.005416			
						RPD = 1.23			
11 delta-BHC									
1	100	4.998	4.999	-0.001	7021845	0.004744			
2	100	6.508	6.508	0.000	3208106	0.004612			
						RPD = 2.82			
22 Heptachlor									
1	100	5.293	5.293	0.000	6444168	0.005003			
2	100	6.579	6.580	-0.001	2883043	0.004945			
						RPD = 1.16			
4 Aldrin									
1	100	5.761	5.761	0.000	6751407	0.004964			
2	100	7.382	7.382	0.000	3202302	0.004808			
						RPD = 3.21			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.038	7.039	-0.001	6403279	0.005206			
2	100	8.821	8.821	0.000	2933899	0.005047			
						RPD = 3.10			
21 gamma-Chlordane									
1	100	7.354	7.355	-0.001	6432116	0.005091			
2	100	9.211	9.210	0.001	2883307	0.004915			
						RPD = 3.51			
6 alpha-Chlordane									
1	100	7.695	7.695	0.000	6625948	0.005138			
2	100	9.513	9.511	0.002	3025984	0.004958			
						RPD = 3.56			
14 Endosulfan I									
1	100	7.967	7.965	0.002	6031134	0.005232			
2	100	9.577	9.578	-0.001	2669936	0.005025			
						RPD = 4.04			
2 4,4'-DDE									
1	100	8.060	8.060	0.000	6203794	0.004898			
2	100	9.940	9.940	0.000	2826430	0.004635			
						RPD = 5.53			
13 Dieldrin									
1	100	8.515	8.517	-0.002	6286128	0.004956			
2	100	10.093	10.092	0.001	2836740	0.004773			
						RPD = 3.77			
17 Endrin									
1	100	8.966	8.966	0.000	5981804	0.005030			
2	100	10.608	10.608	0.000	2601220	0.004855			
						RPD = 3.55			
1 4,4'-DDD									
1	100	9.318	9.318	0.000	4725338	0.004870			
2	100	10.930	10.930	0.000	2010016	0.004701			
						RPD = 3.52			
15 Endosulfan II									
1	100	9.411	9.411	0.000	5690305	0.005199			
2	100	10.975	10.975	0.000	2471875	0.005092			
						RPD = 2.08			
3 4,4'-DDT									
1	100	9.836	9.835	0.001	4556454	0.004941			
2	100	11.411	11.410	0.001	1917038	0.004847			
						RPD = 1.93			
18 Endrin aldehyde									
1	100	10.202	10.201	0.001	4719044	0.005358			
2	100	11.533	11.532	0.001	2051347	0.005192			
						RPD = 3.15			
27 Methoxychlor									
1	100	10.778	10.780	-0.002	2545427	0.005517			
2	100	12.487	12.487	0.000	1067535	0.005351			
						RPD = 3.05			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	10.923	10.925	-0.002	5226115	0.005327			
2	100	11.949	11.948	0.001	2308704	0.005221			
						RPD = 2.02			
19 Endrin ketone									
1	100	11.323	11.322	0.001	6009662	0.005250			
2	100	12.700	12.699	0.001	2606409	0.005197			
						RPD = 1.02			
$ 10 DCB Decachlorobiphenyl									
1	100	12.928	12.929	-0.001	5454340	0.005680			
2	100	14.416	14.415	0.001	2781857	0.005787			
						RPD = 1.86			

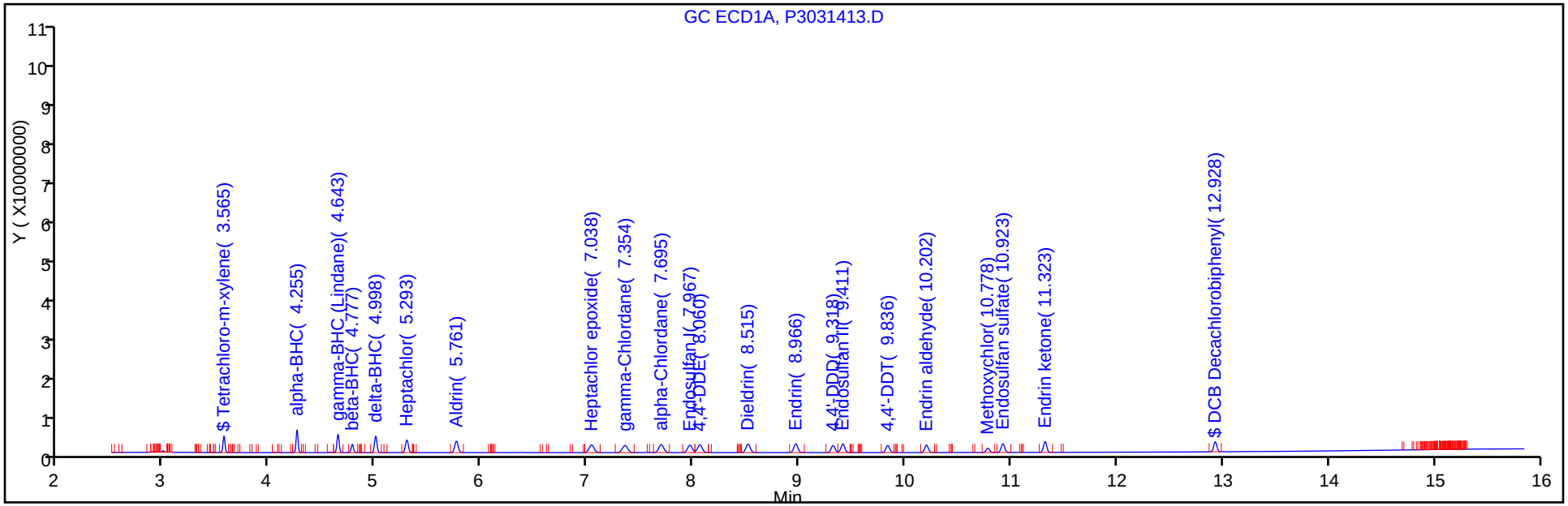
Report Date: 15-Mar-2013 07:54:31 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

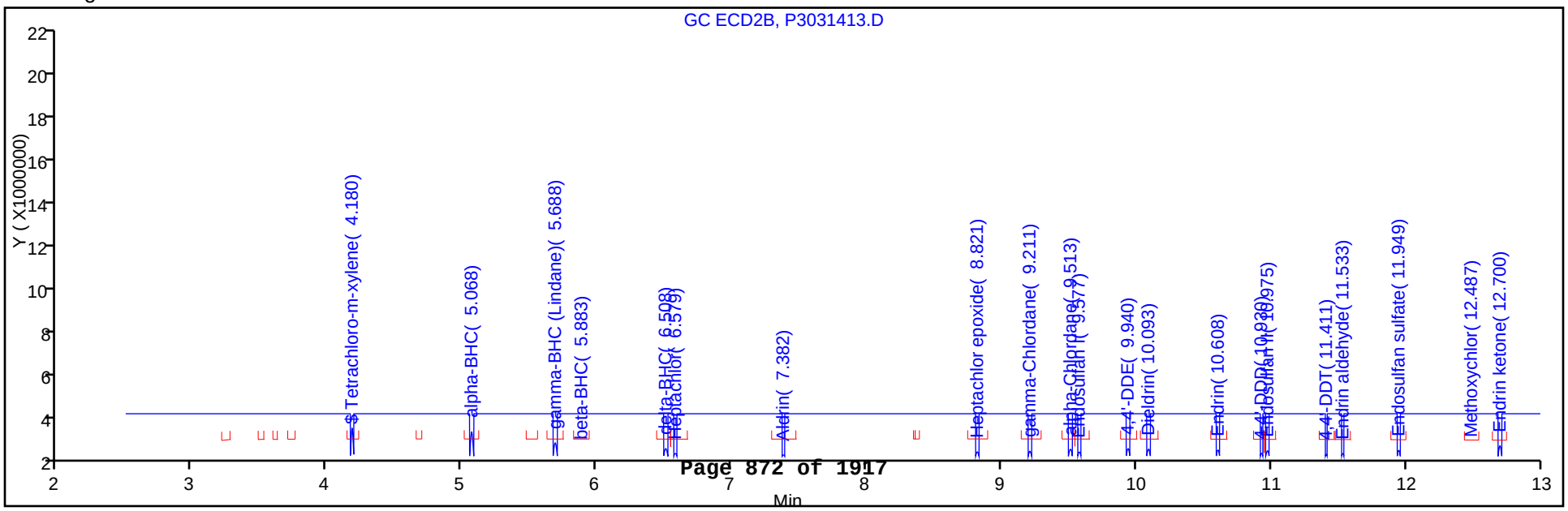
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031413.D

Injection Date:	14-Mar-2013 14:20:21	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	13
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031414.D
Lims ID: STD AB L2 Client ID:
Inject. Date: 14-Mar-2013 14:40:20 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0017984-014
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 14
Lims Batch ID: 78295 Lims Sample ID: 14
Sublist: chrom-PEST3*sub7
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m
Last Update: 15-Mar-2013 07:54:32 Calib Date: 14-Mar-2013 20:00:25
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK032

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.564	3.565	-0.001	10853970	0.009866			
2	100	4.179	4.180	-0.001	5702672	0.009442			
						RPD = 4.39			
5 alpha-BHC									
1	100	4.255	4.255	0.000	15248998	0.009391			
2	100	5.068	5.068	0.000	6853421	0.008901			
						RPD = 5.36			
20 gamma-BHC (Lindane)									
1	100	4.642	4.643	-0.001	13784429	0.009473			
2	100	5.686	5.688	-0.002	6168534	0.009111			
						RPD = 3.89			
7 beta-BHC									
1	100	4.777	4.777	0.000	6245666	0.0101			
2	100	5.883	5.883	0.000	2970864	0.0100			
						RPD = 0.51			
11 delta-BHC									
1	100	4.999	4.999	0.000	13781803	0.009311			
2	100	6.507	6.508	-0.001	6236042	0.008965			
						RPD = 3.79			
22 Heptachlor									
1	100	5.293	5.293	0.000	12370788	0.009604			
2	100	6.579	6.580	-0.001	5428603	0.009312			
						RPD = 3.09			
4 Aldrin									
1	100	5.761	5.761	0.000	12899784	0.009485			
2	100	7.381	7.382	-0.001	6142993	0.009223			
						RPD = 2.81			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.038	7.039	-0.001	12063566	0.009808			
2	100	8.822	8.821	0.001	5518990	0.009494			
						RPD = 3.25			
21 gamma-Chlordane									
1	100	7.354	7.355	-0.001	12036397	0.009526			
2	100	9.213	9.210	0.003	5470133	0.009325			
						RPD = 2.13			
6 alpha-Chlordane									
1	100	7.696	7.695	0.001	12544705	0.009727			
2	100	9.512	9.511	0.001	5720847	0.009373			
						RPD = 3.70			
14 Endosulfan I									
1	100	7.967	7.965	0.002	11203157	0.009720			
2	100	9.579	9.578	0.001	5007678	0.009425			
						RPD = 3.08			
2 4,4'-DDE									
1	100	8.061	8.060	0.001	11845796	0.009353			
2	100	9.940	9.940	0.000	5500244	0.009019			
						RPD = 3.64			
13 Dieldrin									
1	100	8.518	8.517	0.001	12071295	0.009517			
2	100	10.092	10.092	0.000	5437292	0.009148			
						RPD = 3.95			
17 Endrin									
1	100	8.968	8.966	0.002	11445308	0.009625			
2	100	10.608	10.608	0.000	4964610	0.009266			
						RPD = 3.80			
1 4,4'-DDD									
1	100	9.319	9.318	0.001	9040316	0.009317			
2	100	10.929	10.930	-0.001	3843604	0.008990			
						RPD = 3.57			
15 Endosulfan II									
1	100	9.412	9.411	0.001	10634263	0.009715			
2	100	10.974	10.975	-0.001	4665020	0.009609			
						RPD = 1.10			
3 4,4'-DDT									
1	100	9.835	9.835	0.000	8616751	0.009344			
2	100	11.412	11.410	0.002	3637635	0.009196			
						RPD = 1.59			
18 Endrin aldehyde									
1	100	10.202	10.201	0.001	8702583	0.009881			
2	100	11.533	11.532	0.001	3823662	0.009678			
						RPD = 2.08			
27 Methoxychlor									
1	100	10.781	10.780	0.001	4730704	0.0103			
2	100	12.486	12.487	-0.001	2005309	0.0101			
						RPD = 1.99			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	10.924	10.925	-0.001	9739687	0.0099			
2	100	11.949	11.948	0.001	4287527	0.009695			
						RPD = 2.37			
19 Endrin ketone									
1	100	11.321	11.322	-0.001	11341812	0.0099			
2	100	12.699	12.699	0.000	4880140	0.009730			
						RPD = 1.82			
$ 10 DCB Decachlorobiphenyl									
1	100	12.929	12.929	0.000	9893444	0.0103			
2	100	14.415	14.415	0.000	4961295	0.0103			
						RPD = 0.17			

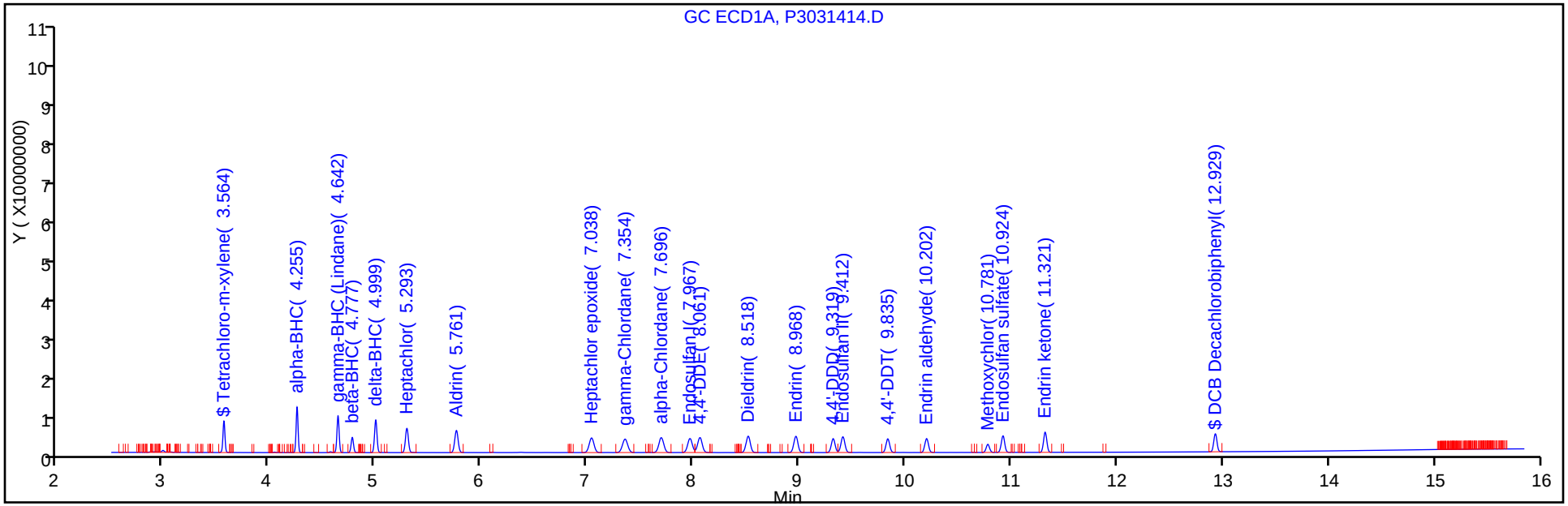
Report Date: 15-Mar-2013 07:54:33 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

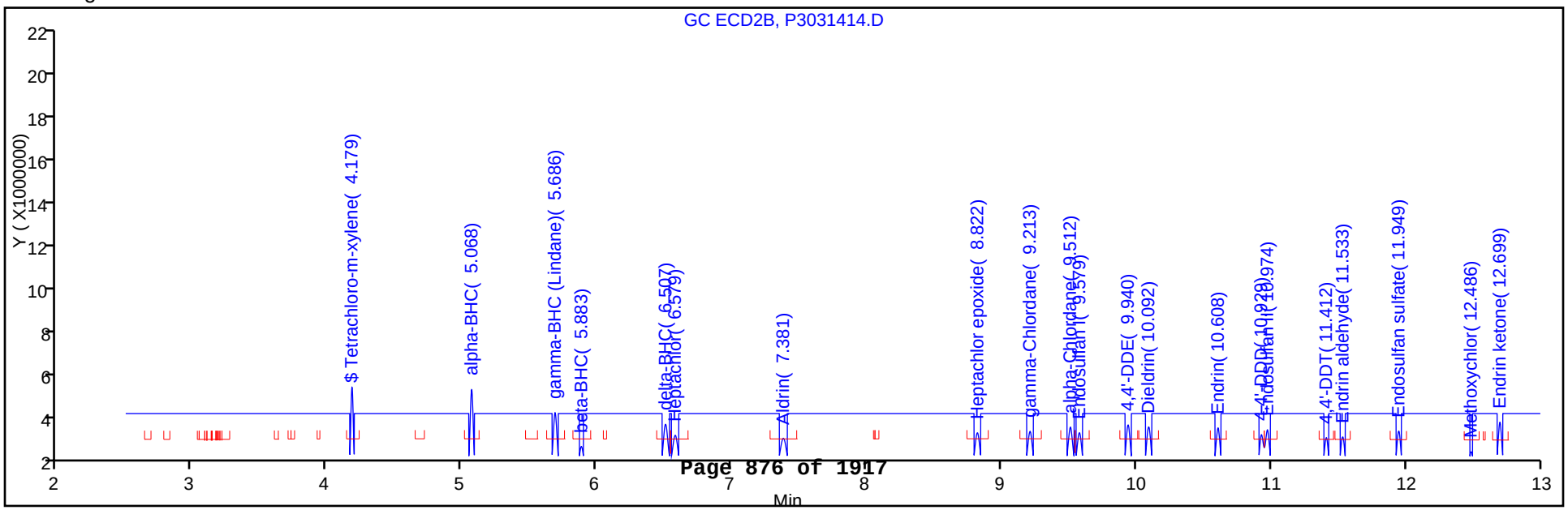
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031414.D

Injection Date:	14-Mar-2013 14:40:20	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	14
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031415.D
Lims ID: STD AB L3 Client ID:
Inject. Date: 14-Mar-2013 15:00:19 Dil. Factor: 1.0000
Sample Type: ICRT Calib Level: 3
Sample ID: 240-0017984-015
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 15
Lims Batch ID: 78295 Lims Sample ID: 15
Sublist: chrom-PEST3*sub7
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m
Last Update: 15-Mar-2013 07:54:34 Calib Date: 14-Mar-2013 20:00:25
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK032

First Level Reviewer: shockr Date: 14-Mar-2013 15:41:02

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.565	3.565	0.000	27754637	0.0252			
2	100	4.180	4.180	0.000	14906362	0.0247			
						RPD = 2.19			
5 alpha-BHC									
1	100	4.255	4.255	0.000	41109116	0.0253			
2	100	5.068	5.068	0.000	18954736	0.0246			
						RPD = 2.80			
20 gamma-BHC (Lindane)									
1	100	4.643	4.643	0.000	36713863	0.0252			
2	100	5.688	5.688	0.000	16553033	0.0244			
						RPD = 3.14			
7 beta-BHC									
1	100	4.777	4.777	0.000	15375560	0.0249			
2	100	5.883	5.883	0.000	7291460	0.0247			
						RPD = 0.82			
11 delta-BHC									
1	100	4.999	4.999	0.000	37354970	0.0252			
2	100	6.508	6.508	0.000	16933296	0.0243			
						RPD = 3.61			
22 Heptachlor									
1	100	5.293	5.293	0.000	32449578	0.0252			
2	100	6.580	6.580	0.000	14236051	0.0244			
						RPD = 3.12			
4 Aldrin									
1	100	5.761	5.761	0.000	34263341	0.0252			
2	100	7.382	7.382	0.000	16200307	0.0243			
						RPD = 3.52			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.039	7.039	0.000	30839303	0.0251			
2	100	8.821	8.821	0.000	14246942	0.0245			
						RPD = 2.28			
21 gamma-Chlordane									
1	100	7.355	7.355	0.000	31245166	0.0247			
2	100	9.210	9.210	0.000	14290617	0.0244			
						RPD = 1.50			
6 alpha-Chlordane									M
1	100	7.695	7.695	0.000	31969190	0.0248			M
2	100	9.511	9.511	0.000	14946818	0.0245			
						RPD = 1.21			
14 Endosulfan I									
1	100	7.965	7.965	0.000	28739979	0.0249			
2	100	9.578	9.578	0.000	12998289	0.0245			
						RPD = 1.90			
2 4,4'-DDE									
1	100	8.060	8.060	0.000	31304045	0.0247			
2	100	9.940	9.940	0.000	14909439	0.0244			
						RPD = 1.10			
13 Dieldrin									
1	100	8.517	8.517	0.000	31797893	0.0251			
2	100	10.092	10.092	0.000	14570978	0.0245			
						RPD = 2.24			
17 Endrin									
1	100	8.966	8.966	0.000	30003036	0.0252			
2	100	10.608	10.608	0.000	13183902	0.0246			
						RPD = 2.51			
1 4,4'-DDD									
1	100	9.318	9.318	0.000	24116204	0.0249			
2	100	10.930	10.930	0.000	10482730	0.0245			
						RPD = 1.36			
15 Endosulfan II									
1	100	9.411	9.411	0.000	27513681	0.0251			
2	100	10.975	10.975	0.000	11876887	0.0245			
						RPD = 2.71			
3 4,4'-DDT									
1	100	9.835	9.835	0.000	22724641	0.0246			
2	100	11.410	11.410	0.000	9589094	0.0242			
						RPD = 1.63			
18 Endrin aldehyde									
1	100	10.201	10.201	0.000	21988432	0.0250			
2	100	11.532	11.532	0.000	9668493	0.0245			
						RPD = 2.00			
27 Methoxychlor									
1	100	10.780	10.780	0.000	11506611	0.0249			
2	100	12.487	12.487	0.000	4949088	0.0248			
						RPD = 0.53			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	10.925	10.925	0.000	24363041	0.0248			
2	100	11.948	11.948	0.000	10831997	0.0245			
						RPD = 1.38			
19 Endrin ketone									
1	100	11.322	11.322	0.000	28824794	0.0252			
2	100	12.699	12.699	0.000	12376918	0.0247			
						RPD = 2.02			
$ 10 DCB Decachlorobiphenyl									
1	100	12.929	12.929	0.000	23867477	0.0249			
2	100	14.415	14.415	0.000	11801499	0.0246			
						RPD = 1.23			

QC Flag Legend

Review Flags
M - Manually Integrated

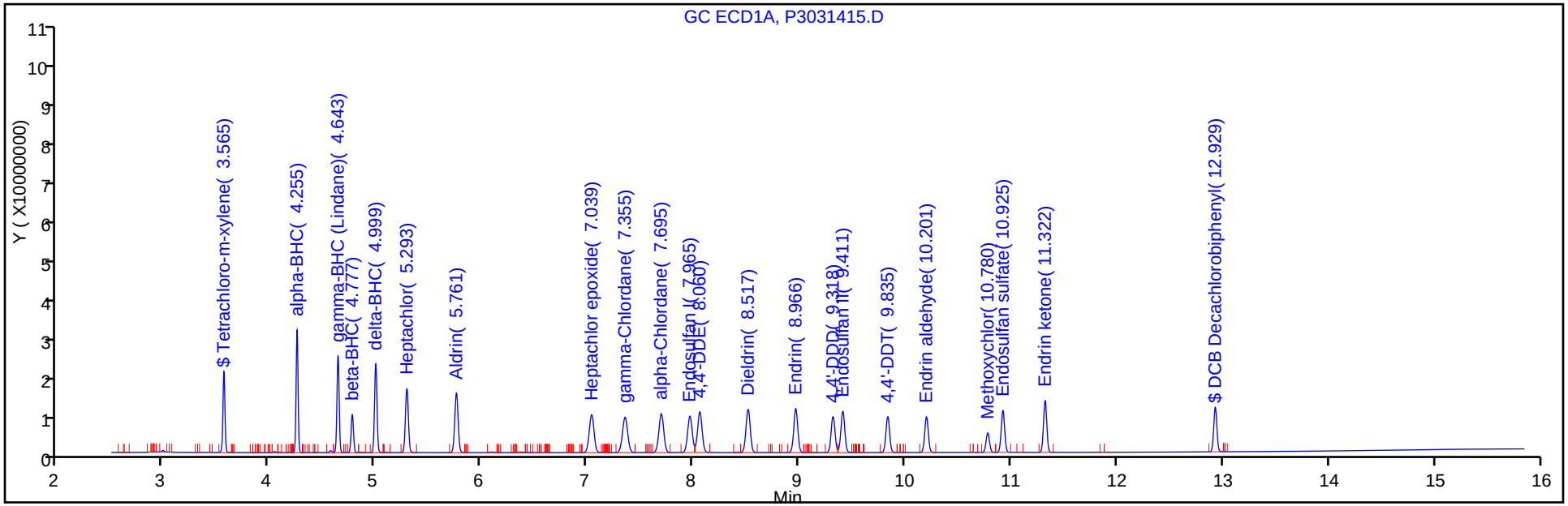
Report Date: 15-Mar-2013 07:54:35 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

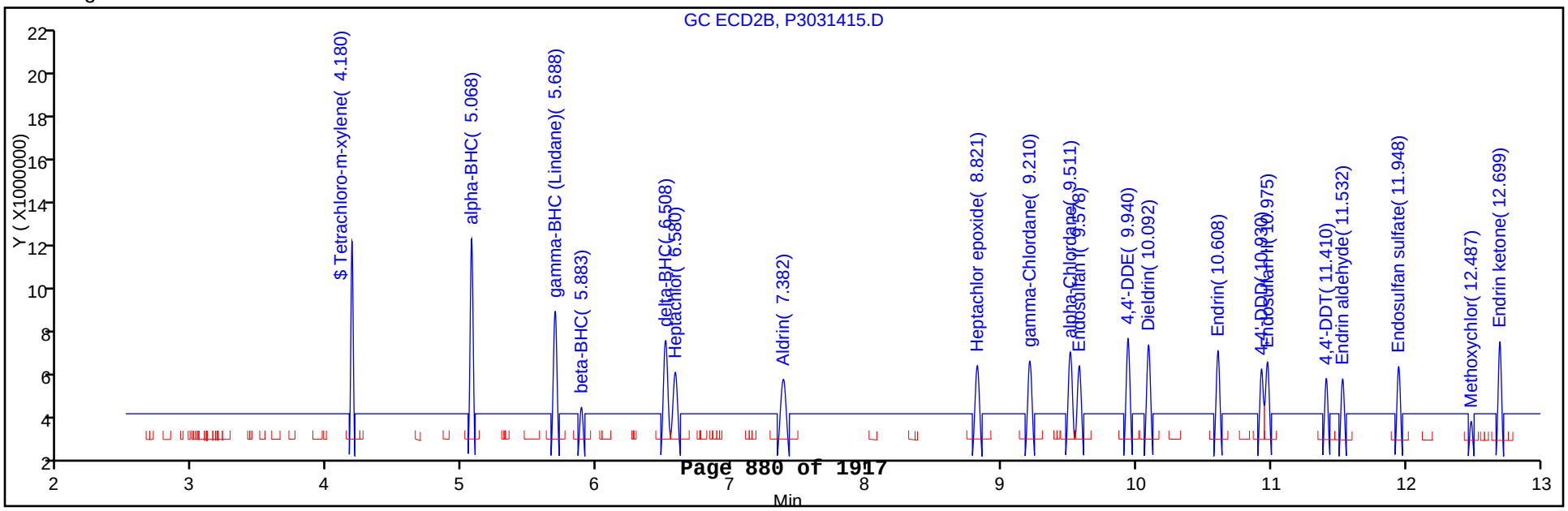
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031415.D

Injection Date:	14-Mar-2013 15:00:19	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	15
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031416.D		
Lims ID:	STD AB L4	Client ID:	
Inject. Date:	14-Mar-2013 15:20:21	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	240-0017984-016		
Misc. Info.:			
Operator:	402582	Instrument ID:	A2HP3
Injection Vol:	1.0 ul	ALS Bottle#:	16
Lims Batch ID:	78295	Lims Sample ID:	16
Sublist:	chrom-PEST3*sub7		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m		
Last Update:	15-Mar-2013 07:54:36	Calib Date:	14-Mar-2013 20:00:25
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D		
Limit Group:	GC 8081 D0D ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK032		

First Level Reviewer: shockr Date: 14-Mar-2013 16:05:12

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.564	3.565	-0.001	54928603	0.0499			
2	100	4.179	4.180	-0.001	30437726	0.0504			
						RPD = 0.94			
5 alpha-BHC									
1	100	4.255	4.255	0.000	83254980	0.0513			
2	100	5.068	5.068	0.000	39687017	0.0515			
						RPD = 0.53			
20 gamma-BHC (Lindane)									
1	100	4.643	4.643	0.000	74128935	0.0509			
2	100	5.687	5.688	-0.001	34332874	0.0507			
						RPD = 0.46			
7 beta-BHC									
1	100	4.777	4.777	0.000	30109377	0.0487			
2	100	5.882	5.883	-0.001	14280872	0.0483			
						RPD = 0.80			
11 delta-BHC									
1	100	4.998	4.999	-0.001	75876449	0.0513			
2	100	6.508	6.508	0.000	35380167	0.0509			
						RPD = 0.78			
22 Heptachlor									
1	100	5.293	5.293	0.000	65357289	0.0507			
2	100	6.579	6.580	-0.001	29140848	0.0500			
						RPD = 1.50			
4 Aldrin									
1	100	5.760	5.761	-0.001	68888892	0.0507			
2	100	7.380	7.382	-0.002	33339061	0.0501			
						RPD = 1.19			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.038	7.039	-0.001	61142532	0.0497			
2	100	8.820	8.821	-0.001	28806716	0.0496			
						RPD = 0.31			
21 gamma-Chlordane									
1	100	7.353	7.355	-0.002	62789444	0.0497			
2	100	9.211	9.210	0.001	29175157	0.0497			
						RPD = 0.08			
6 alpha-Chlordane									
1	100	7.694	7.695	-0.001	63962633	0.0496			
2	100	9.510	9.511	-0.001	30210613	0.0495			
						RPD = 0.19			
14 Endosulfan I									
1	100	7.967	7.965	0.002	57355301	0.0498			
2	100	9.578	9.578	0.000	26468245	0.0498			
						RPD = 0.11			
2 4,4'-DDE									
1	100	8.060	8.060	0.000	64158456	0.0507			
2	100	9.940	9.940	0.000	31031644	0.0509			
						RPD = 0.45			
13 Dieldrin									
1	100	8.516	8.517	-0.001	64295083	0.0507			
2	100	10.092	10.092	0.000	30001382	0.0505			
						RPD = 0.42			
17 Endrin									
1	100	8.965	8.966	-0.001	60197190	0.0506			
2	100	10.606	10.608	-0.002	26944971	0.0503			
						RPD = 0.66			
1 4,4'-DDD									
1	100	9.319	9.318	0.001	49032652	0.0505			
2	100	10.928	10.930	-0.002	21704045	0.0508			
						RPD = 0.46			
15 Endosulfan II									
1	100	9.410	9.411	-0.001	54571554	0.0499			
2	100	10.974	10.975	-0.001	24090696	0.0496			
						RPD = 0.47			
3 4,4'-DDT									
1	100	9.834	9.835	-0.001	46440699	0.0504			
2	100	11.410	11.410	0.000	19827190	0.0501			
						RPD = 0.46			
18 Endrin aldehyde									
1	100	10.200	10.201	-0.001	43730934	0.0497			
2	100	11.532	11.532	0.000	19532823	0.0494			
						RPD = 0.43			
27 Methoxychlor									
1	100	10.780	10.780	0.000	22775450	0.0494			
2	100	12.486	12.487	-0.001	9817056	0.0492			
						RPD = 0.32			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	10.923	10.925	-0.002	48795973	0.0497			
2	100	11.948	11.948	0.000	21745192	0.0492			
						RPD = 1.15			
19 Endrin ketone									
1	100	11.322	11.322	0.000	57124126	0.0499			
2	100	12.700	12.699	0.001	24790369	0.0494			
						RPD = 0.96			
$ 10 DCB Decachlorobiphenyl									
1	100	12.930	12.929	0.001	46376052	0.0483			
2	100	14.417	14.415	0.002	22823566	0.0475			
						RPD = 1.70			

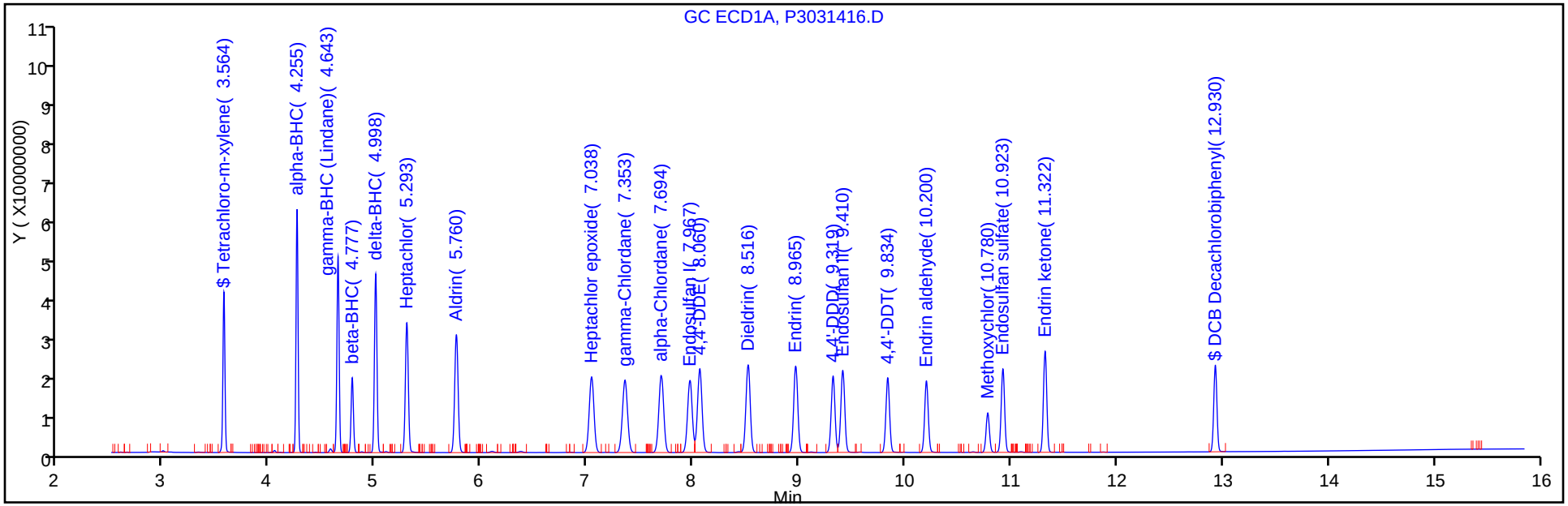
Report Date: 15-Mar-2013 07:54:37 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

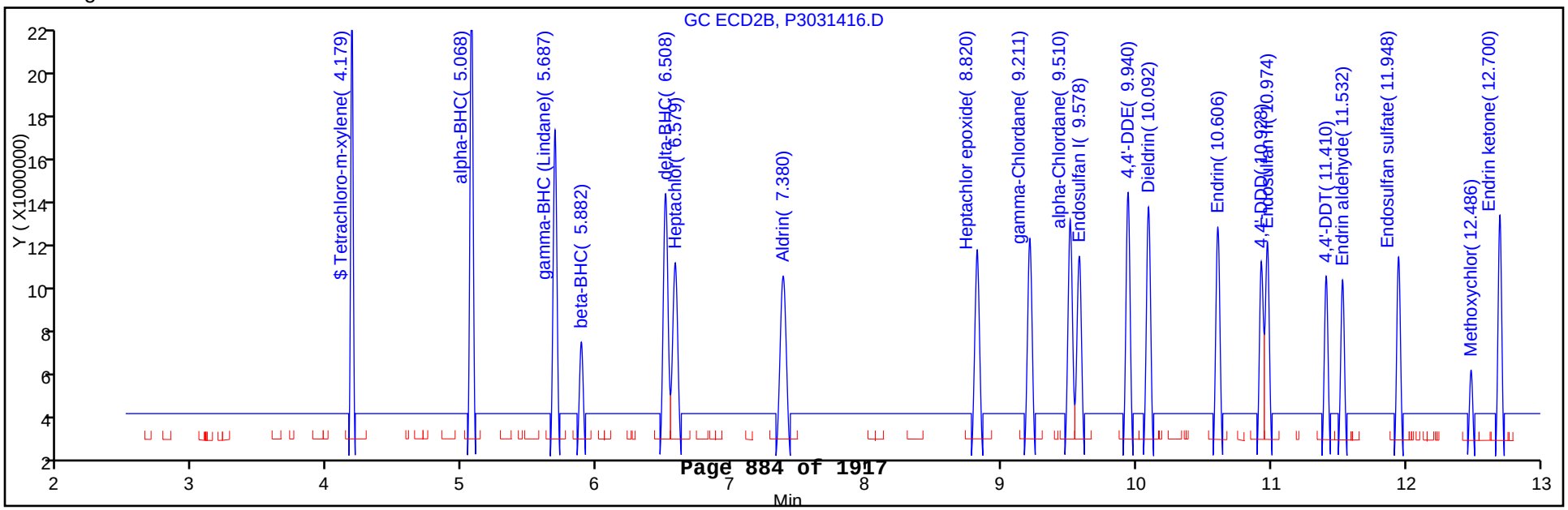
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031416.D

Injection Date:	14-Mar-2013 15:20:21	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	16
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031417.D
Lims ID: STD AB L5 Client ID:
Inject. Date: 14-Mar-2013 15:40:26 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0017984-017
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 17
Lims Batch ID: 78295 Lims Sample ID: 17
Sublist: chrom-PEST3*sub7
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m
Last Update: 15-Mar-2013 07:54:38 Calib Date: 14-Mar-2013 20:00:25
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK032

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.564	3.565	-0.001	108498220	0.0986			
2	100	4.179	4.180	-0.001	62181454	0.1030			
						RPD = 4.30			
5 alpha-BHC									
1	100	4.256	4.255	0.001	169069280	0.1041			
2	100	5.068	5.068	0.000	83756504	0.1088			
						RPD = 4.38			
20 gamma-BHC (Lindane)									
1	100	4.643	4.643	0.000	150192651	0.1032			
2	100	5.688	5.688	0.000	72308864	0.1068			
						RPD = 3.42			
7 beta-BHC									
1	100	4.777	4.777	0.000	60054605	0.0971			
2	100	5.883	5.883	0.000	28891924	0.0977			
						RPD = 0.62			
11 delta-BHC									
1	100	4.998	4.999	-0.001	155211774	0.1049			
2	100	6.508	6.508	0.000	75035996	0.1079			
						RPD = 2.83			
22 Heptachlor									
1	100	5.294	5.293	0.001	131620345	0.1022			
2	100	6.579	6.580	-0.001	60486311	0.1038			
						RPD = 1.53			
4 Aldrin									
1	100	5.761	5.761	0.000	139831096	0.1028			
2	100	7.381	7.382	-0.001	70399564	0.1057			
						RPD = 2.76			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.038	7.039	-0.001	123607519	0.1005			
2	100	8.821	8.821	0.000	59935339	0.1031			
						RPD = 2.56			
21 gamma-Chlordane									
1	100	7.353	7.355	-0.002	129462169	0.1025			
2	100	9.213	9.210	0.003	61228950	0.1044			
						RPD = 1.85			
6 alpha-Chlordane									
1	100	7.697	7.695	0.002	130612634	0.1013			
2	100	9.513	9.511	0.002	63433868	0.1039			
						RPD = 2.59			
14 Endosulfan I									
1	100	7.967	7.965	0.002	116265499	0.1009			
2	100	9.578	9.578	0.000	54856402	0.1032			
						RPD = 2.33			
2 4,4'-DDE									
1	100	8.059	8.060	-0.001	132266883	0.1044			
2	100	9.941	9.940	0.001	65438107	0.1073			
						RPD = 2.71			
13 Dieldrin									
1	100	8.518	8.517	0.001	130845292	0.1032			
2	100	10.093	10.092	0.001	63014184	0.1060			
						RPD = 2.73			
17 Endrin									
1	100	8.966	8.966	0.000	121362286	0.1021			
2	100	10.608	10.608	0.000	56195128	0.1049			
						RPD = 2.73			
1 4,4'-DDD									
1	100	9.319	9.318	0.001	101475837	0.1046			
2	100	10.931	10.930	0.001	45380274	0.1061			
						RPD = 1.48			
15 Endosulfan II									
1	100	9.411	9.411	0.000	110168800	0.1006			
2	100	10.975	10.975	0.000	49795219	0.1026			
						RPD = 1.89			
3 4,4'-DDT									
1	100	9.837	9.835	0.002	95899338	0.1040			
2	100	11.411	11.410	0.001	41520195	0.1050			
						RPD = 0.94			
18 Endrin aldehyde									
1	100	10.201	10.201	0.000	87045399	0.0988			
2	100	11.533	11.532	0.001	39689339	0.1005			
						RPD = 1.63			
27 Methoxychlor									
1	100	10.780	10.780	0.000	44017689	0.0954			
2	100	12.487	12.487	0.000	19442887	0.0974			
						RPD = 2.13			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	10.924	10.925	-0.001	97049405	0.0989			
2	100	11.949	11.948	0.001	44455758	0.1005			
						RPD = 1.61			
19 Endrin ketone									
1	100	11.323	11.322	0.001	113796937	0.0994			
2	100	12.700	12.699	0.001	50377770	0.1004			
						RPD = 1.03			
$ 10 DCB Decachlorobiphenyl									
1	100	12.930	12.929	0.001	90947133	0.0947			
2	100	14.416	14.415	0.001	45130190	0.0939			
						RPD = 0.88			

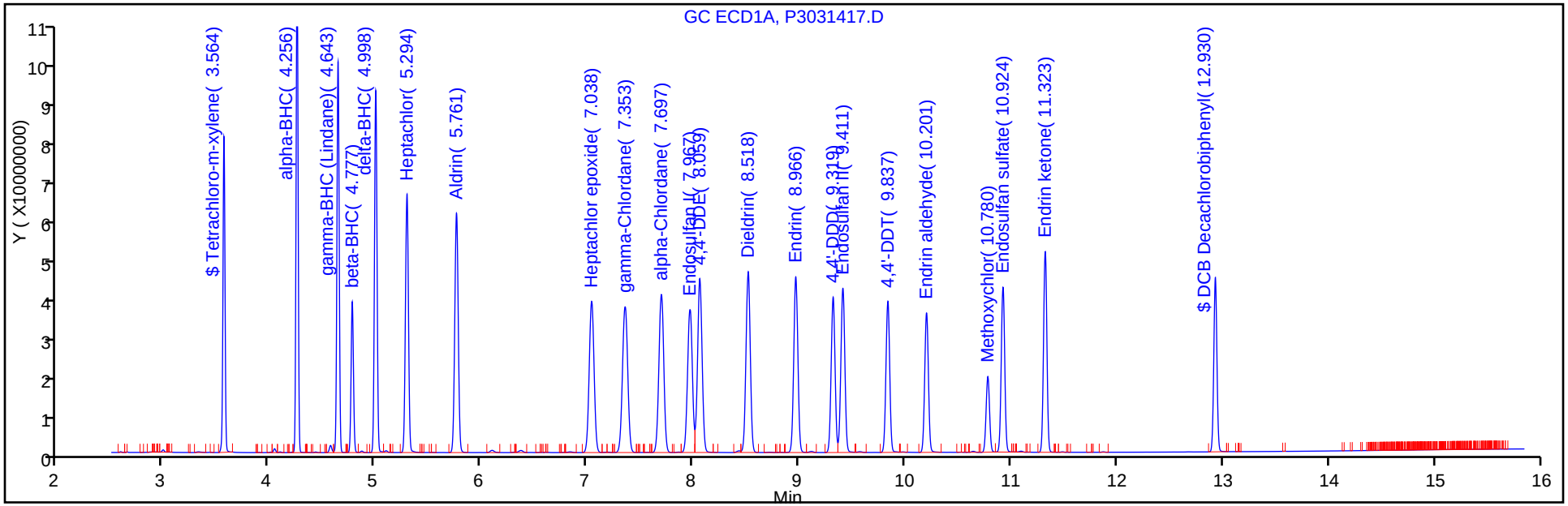
Report Date: 15-Mar-2013 07:54:39 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

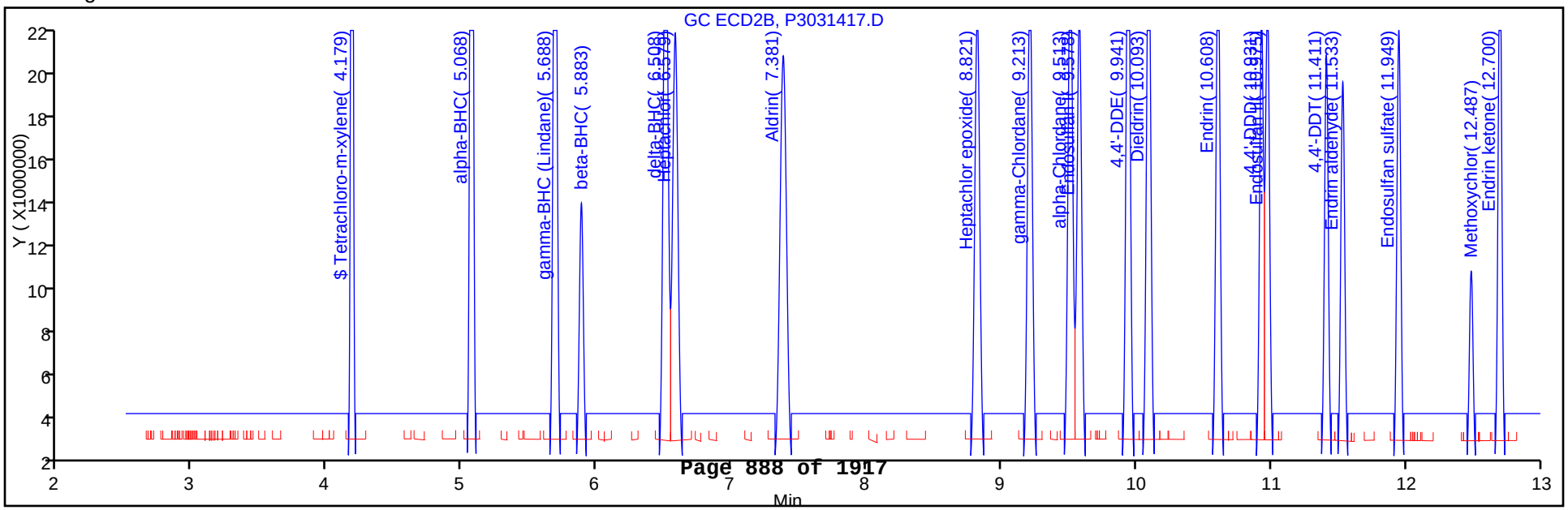
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031417.D

Injection Date:	14-Mar-2013 15:40:26	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	17
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031418.D
Lims ID: STD AB L6 Client ID:
Inject. Date: 14-Mar-2013 16:00:25 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0017984-018
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 18
Lims Batch ID: 78295 Lims Sample ID: 18
Sublist: chrom-PEST3*sub7
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m
Last Update: 15-Mar-2013 07:54:39 Calib Date: 14-Mar-2013 20:00:25
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK032

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.565	3.565	0.000	212923308	0.1935			
2	100	4.180	4.180	0.000	124861403	0.2067			
						RPD = 6.60			
5 alpha-BHC									
1	100	4.255	4.255	0.000	334483518	0.2060			
2	100	5.068	5.068	0.000	170744897	0.2218			
						RPD = 7.37			
20 gamma-BHC (Lindane)									
1	100	4.642	4.643	-0.001	296394748	0.2037			
2	100	5.688	5.688	0.000	147384358	0.2177			
						RPD = 6.65			
7 beta-BHC									
1	100	4.777	4.777	0.000	118080169	0.1909			
2	100	5.882	5.883	-0.001	58136075	0.1966			
						RPD = 2.93			
11 delta-BHC									
1	100	4.999	4.999	0.000	306957333	0.2074			
2	100	6.507	6.508	-0.001	154642052	0.2223			
						RPD = 6.95			
22 Heptachlor									
1	100	5.293	5.293	0.000	256221914	0.1989			
2	100	6.578	6.580	-0.002	124246413	0.2131			
						RPD = 6.90			
4 Aldrin									
1	100	5.761	5.761	0.000	274608679	0.2019			
2	100	7.381	7.382	-0.001	144590532	0.2171			
						RPD = 7.23			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.038	7.039	-0.001	240083019	0.1952			
2	100	8.821	8.821	0.000	120775880	0.2078			
						RPD = 6.24			
21 gamma-Chlordane									
1	100	7.354	7.355	-0.001	258135056	0.2043			
2	100	9.212	9.210	0.002	125706508	0.2143			
						RPD = 4.77			
6 alpha-Chlordane									
1	100	7.697	7.695	0.002	258882055	0.2007			
2	100	9.511	9.511	0.000	129650177	0.2124			
						RPD = 5.66			
14 Endosulfan I									
1	100	7.967	7.965	0.002	225983627	0.1961			
2	100	9.580	9.578	0.002	111067818	0.2090			
						RPD = 6.41			
2 4,4'-DDE									
1	100	8.060	8.060	0.000	263138642	0.2078			
2	100	9.940	9.940	0.000	134480335	0.2205			
						RPD = 5.95			
13 Dieldrin									
1	100	8.517	8.517	0.000	255983421	0.2018			
2	100	10.093	10.092	0.001	128443491	0.2161			
						RPD = 6.84			
17 Endrin									
1	100	8.966	8.966	0.000	235250743	0.1978			
2	100	10.608	10.608	0.000	113969943	0.2127			
						RPD = 7.25			
1 4,4'-DDD									
1	100	9.320	9.318	0.002	202556675	0.2088			
2	100	10.930	10.930	0.000	94344525	0.2207			
						RPD = 5.55			
15 Endosulfan II									
1	100	9.411	9.411	0.000	214458063	0.1959			
2	100	10.975	10.975	0.000	99422834	0.2048			
						RPD = 4.43			
3 4,4'-DDT									
1	100	9.835	9.835	0.000	192701152	0.2090			
2	100	11.412	11.410	0.002	86159827	0.2178			
						RPD = 4.16			
18 Endrin aldehyde									
1	100	10.202	10.201	0.001	169102782	0.1920			
2	100	11.534	11.532	0.002	80703275	0.2043			
						RPD = 6.19			
27 Methoxychlor									
1	100	10.780	10.780	0.000	86082179	0.1866			
2	100	12.486	12.487	-0.001	38867941	0.1948			
						RPD = 4.33			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	10.924	10.925	-0.001	189248380	0.1929			
2	100	11.949	11.948	0.001	90036300	0.2036			
						RPD = 5.39			
19 Endrin ketone									
1	100	11.321	11.322	-0.001	219666410	0.1919			
2	100	12.698	12.699	-0.001	101055206	0.2015			
						RPD = 4.87			
$ 10 DCB Decachlorobiphenyl									
1	100	12.928	12.929	-0.001	177905379	0.1853			
2	100	14.416	14.415	0.001	90371817	0.1880			
						RPD = 1.46			

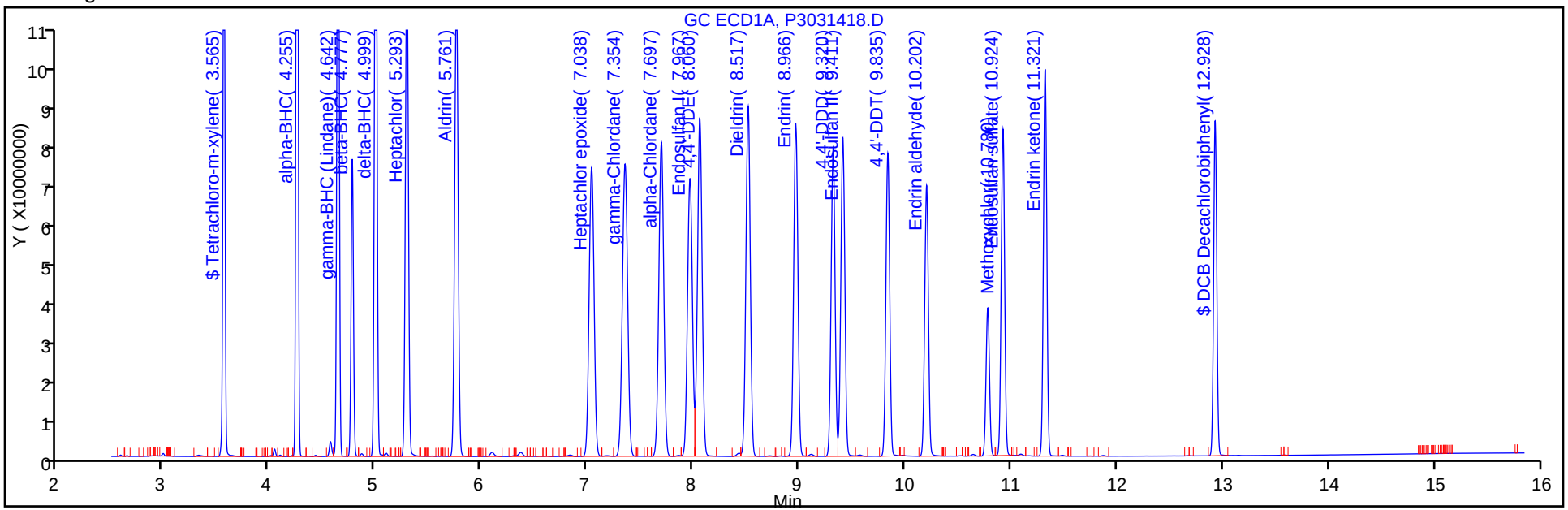
Report Date: 15-Mar-2013 07:54:41 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

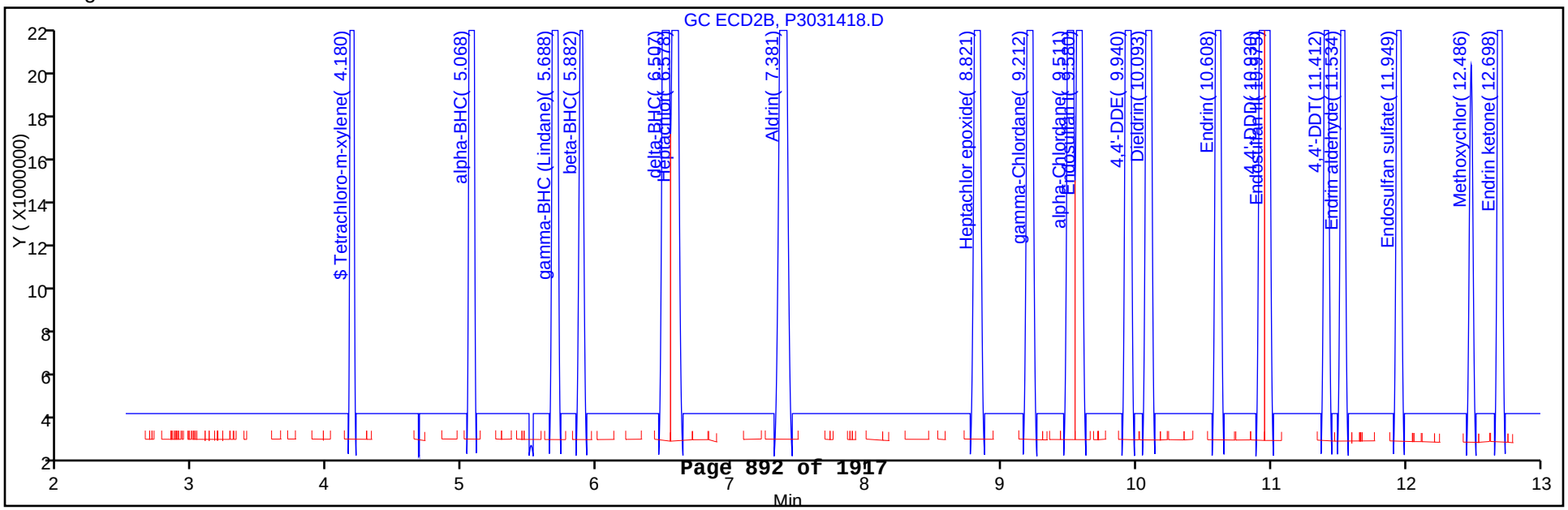
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031418.D

Injection Date:	14-Mar-2013 16:00:25	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	18
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 78295

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2013 16:40 Calibration End Date: 03/14/2013 18:00 Calibration ID: 14144

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-78295/20	P3031420.D
Level 2	STD 240-78295/21	P3031421.D
Level 3	STD 240-78295/22	P3031422.D
Level 4	STD 240-78295/23	P3031423.D
Level 5	STD 240-78295/24	P3031424.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Toxaphene Peak 1	10.390	10.388	10.386	10.389	10.388						10.356 - 10.416	10.388
Toxaphene Peak 2	10.729	10.729	10.729	10.730	10.728						10.699 - 10.759	10.729
Toxaphene Peak 3	10.878	10.880	10.879	10.878	10.878						10.849 - 10.909	10.879
Toxaphene Peak 4	11.293	11.293	11.292	11.293	11.293						11.262 - 11.322	11.293
Toxaphene Peak 5	11.559	11.560	11.560	11.560	11.560						11.530 - 11.590	11.560

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 78295

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2013 16:40 Calibration End Date: 03/14/2013 18:00 Calibration ID: 14144

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-78295/20	P3031420.D
Level 2	STD 240-78295/21	P3031421.D
Level 3	STD 240-78295/22	P3031422.D
Level 4	STD 240-78295/23	P3031423.D
Level 5	STD 240-78295/24	P3031424.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								
Toxaphene Peak 1	46430205 52746961	45477078	49314516	50796553	Ave		48953062.5				6.2		20.0			
Toxaphene Peak 2	48131625 53752604	46814060	49873719	50406411	Ave		49795683.8				5.3		20.0			
Toxaphene Peak 3	38899190 44421911	38060400	41893479	41797883	Ave		41014572.5				6.2		20.0			
Toxaphene Peak 4	29212980 34956196	28727320	31123539	31863835	Ave		31176773.8				8.0		20.0			
Toxaphene Peak 5	23685020 30462781	23897404	25877371	26865579	Ave		26157631.0				11.0		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.: 240-21987-1 Analy Batch No.: 78295

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2013 16:40 Calibration End Date: 03/14/2013 18:00 Calibration ID: 14144

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-78295/20	P3031420.D
Level 2	STD 240-78295/21	P3031421.D
Level 3	STD 240-78295/22	P3031422.D
Level 4	STD 240-78295/23	P3031423.D
Level 5	STD 240-78295/24	P3031424.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
Toxaphene Peak 1	Ave	9286041	22738539	49314516	101593105	263734805	0.200	0.500	1.00	2.00	5.00
Toxaphene Peak 2	Ave	9626325	23407030	49873719	100812821	268763022	0.200	0.500	1.00	2.00	5.00
Toxaphene Peak 3	Ave	7779838	19030200	41893479	83595765	222109554	0.200	0.500	1.00	2.00	5.00
Toxaphene Peak 4	Ave	5842596	14363660	31123539	63727669	174780978	0.200	0.500	1.00	2.00	5.00
Toxaphene Peak 5	Ave	4737004	11948702	25877371	53731158	152313906	0.200	0.500	1.00	2.00	5.00

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031420.D
Lims ID: STD TOX 1 Client ID:
Inject. Date: 14-Mar-2013 16:40:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0017984-020
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 20
Lims Batch ID: 78295 Lims Sample ID: 20
Sublist: chrom-PEST3*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m
Last Update: 15-Mar-2013 07:54:42 Calib Date: 14-Mar-2013 20:00:25
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK032

First Level Reviewer: shockr Date: 15-Mar-2013 07:29:23

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	1	10.390	10.386	0.004	9286041	0.1897		100.0	M
1	2	10.729	10.729	0.000	9626325	0.1933	81.1- 121.1	103.7	M
1	3	10.878	10.879	-0.001	7779838	0.1897	65.0- 105.0	83.8	M
1	4	11.293	11.292	0.001	5842596	0.1874	43.1- 83.1	62.9	M
1	5	11.559	11.560	-0.001	4737004	0.1811	32.5- 72.5	51.0	M
			Average of Peak Amounts =			0.1882			
2	100	10.531	10.532	-0.001	3281298	0.1944		100.0	M
2	2	11.116	11.117	-0.001	4109675	0.1908	108.3- 148.3	125.2	M
2	3	11.534	11.535	-0.001	4939341	0.1898	134.7- 174.7	150.5	M
2	4	12.277	12.278	-0.001	5869539	0.1936	157.2- 197.2	178.9	M
2	5	12.838	12.837	0.001	2401522	0.1965	51.7- 91.7	73.2	M
			Average of Peak Amounts =			0.1930			
						RPD = 2.50			

QC Flag Legend

Review Flags
M - Manually Integrated

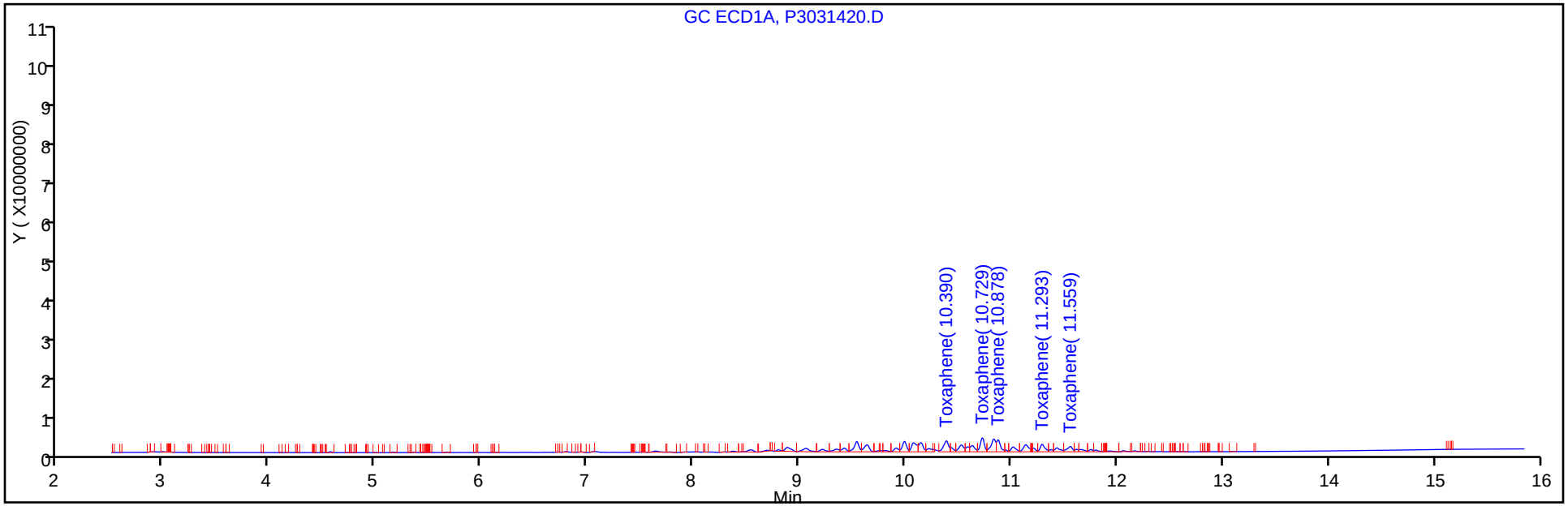
Report Date: 15-Mar-2013 07:54:43 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

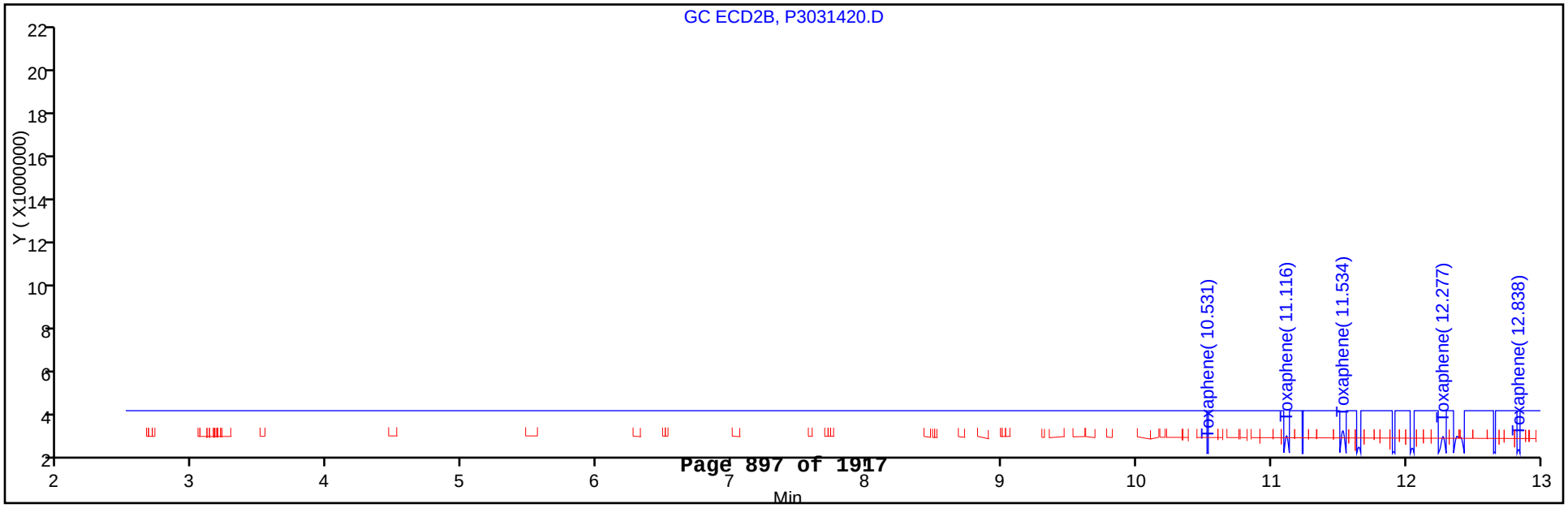
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031420.D

Injection Date:	14-Mar-2013 16:40:30	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	20
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



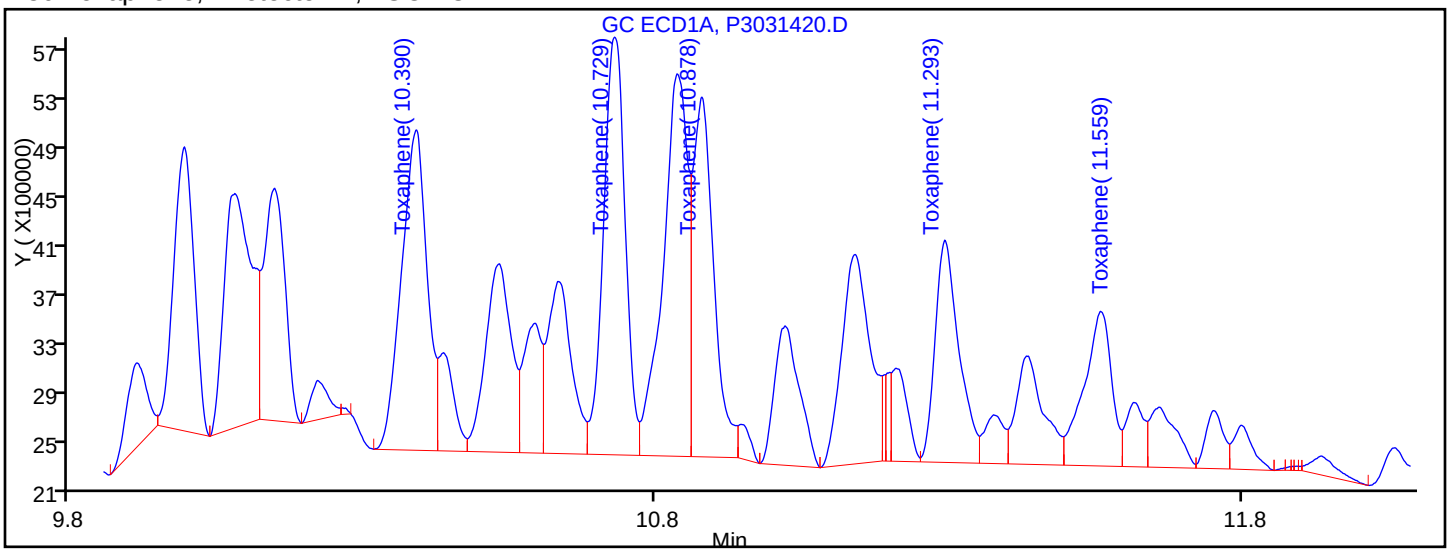
Report Date: 15-Mar-2013 07:54:44 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031420.D

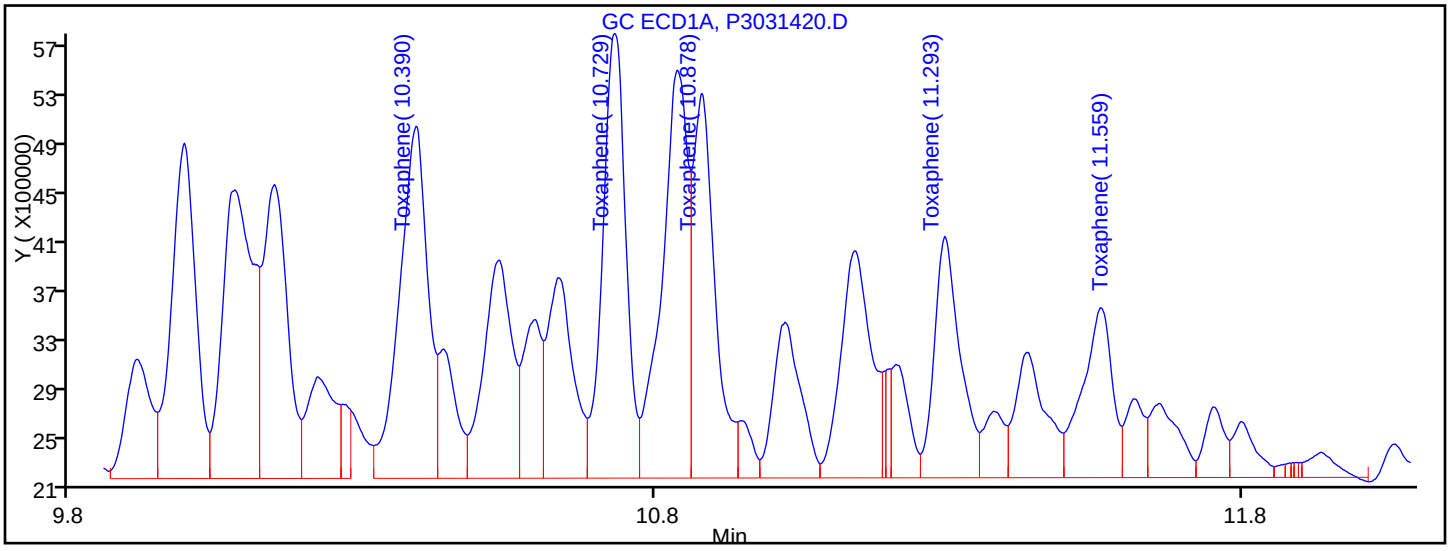
Injection Date:	14-Mar-2013 16:40:30	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	20
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 1, GC ECD1A



Processing Integration Results

RT = 10.390	Response = 7643281	M
RT = 10.729	Response = 8493936	M
RT = 10.878	Response = 6855372	M
RT = 11.293	Response = 4945590	M
RT = 11.559	Response = 4009207	M



Manual Integration Results

RT = 10.390	Response = 9286041	M
RT = 10.729	Response = 9626325	M
RT = 10.878	Response = 7779838	M
RT = 11.293	Response = 5842596	M
RT = 11.559	Response = 4737004	M

Reviewer: shockr, 15-Mar-2013 07:29:23

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031421.D
Lims ID: STD TOX2 Client ID:
Inject. Date: 14-Mar-2013 17:00:29 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0017984-021
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 21
Lims Batch ID: 78295 Lims Sample ID: 21
Sublist: chrom-PEST3*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m
Last Update: 15-Mar-2013 07:54:44 Calib Date: 14-Mar-2013 20:00:25
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK032

First Level Reviewer: shockr Date: 15-Mar-2013 07:29:05

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	1	10.388	10.386	0.002	22738539	0.4645		100.0	M
1	2	10.729	10.729	0.000	23407030	0.4701	81.1- 121.1	102.9	M
1	3	10.880	10.879	0.001	19030200	0.4640	65.0- 105.0	83.7	M
1	4	11.293	11.292	0.001	14363660	0.4607	43.1- 83.1	63.2	M
1	5	11.560	11.560	0.000	11948702	0.4568	32.5- 72.5	52.5	M
			Average of Peak Amounts =			0.4632			
2	100	10.530	10.532	-0.002	8055636	0.4771		100.0	
2	2	11.117	11.117	0.000	10189844	0.4732	108.3- 148.3	126.5	
2	3	11.533	11.535	-0.002	12265920	0.4712	134.7- 174.7	152.3	
2	4	12.277	12.278	-0.001	14593260	0.4814	157.2- 197.2	181.2	
2	5	12.836	12.837	-0.001	5822614	0.4764	51.7- 91.7	72.3	
			Average of Peak Amounts =			0.4759			
						RPD = 2.69			

QC Flag Legend

Review Flags
M - Manually Integrated

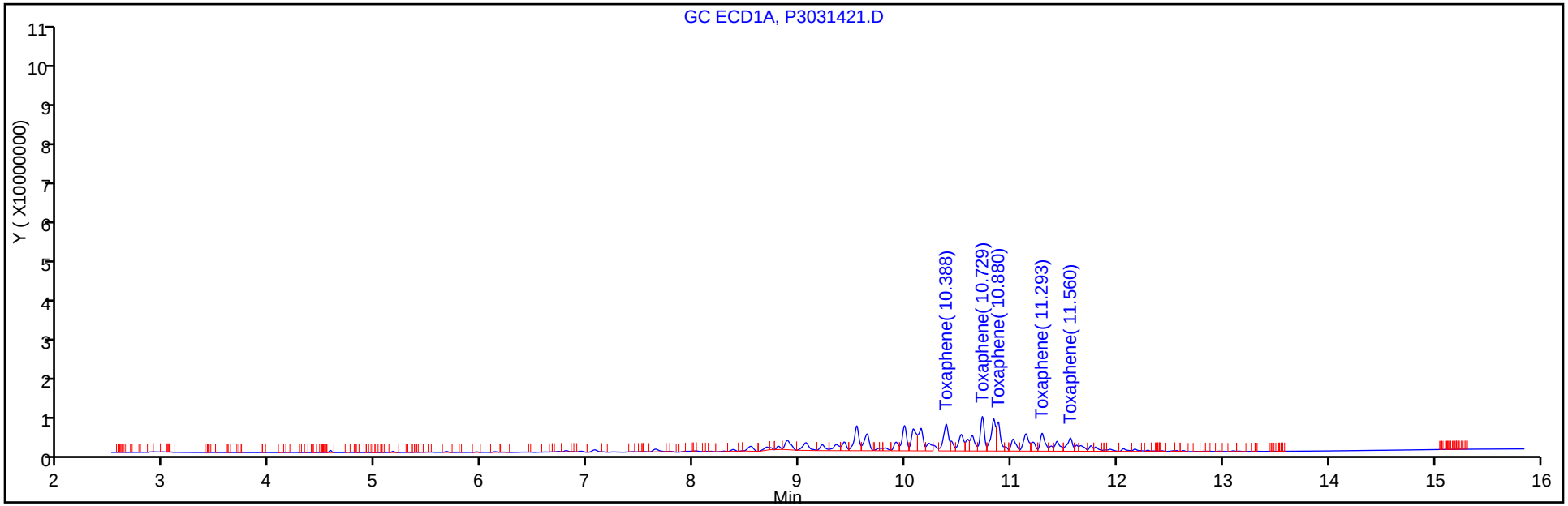
Report Date: 15-Mar-2013 07:54:45 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

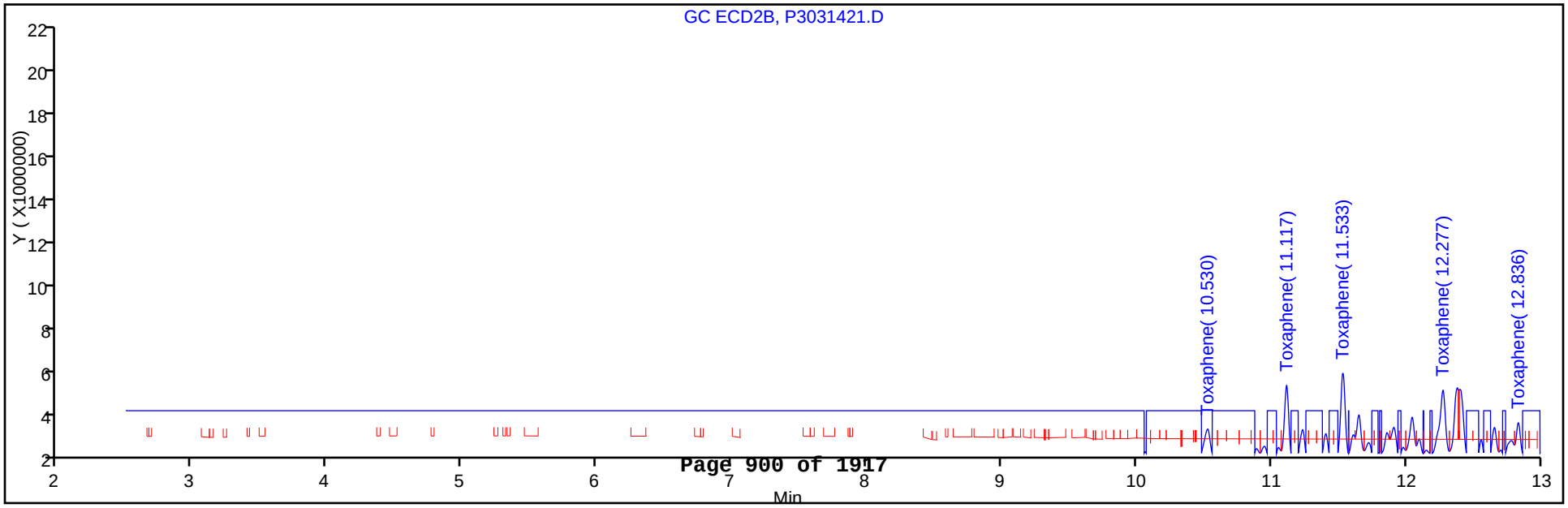
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031421.D

Injection Date:	14-Mar-2013 17:00:29	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	21
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



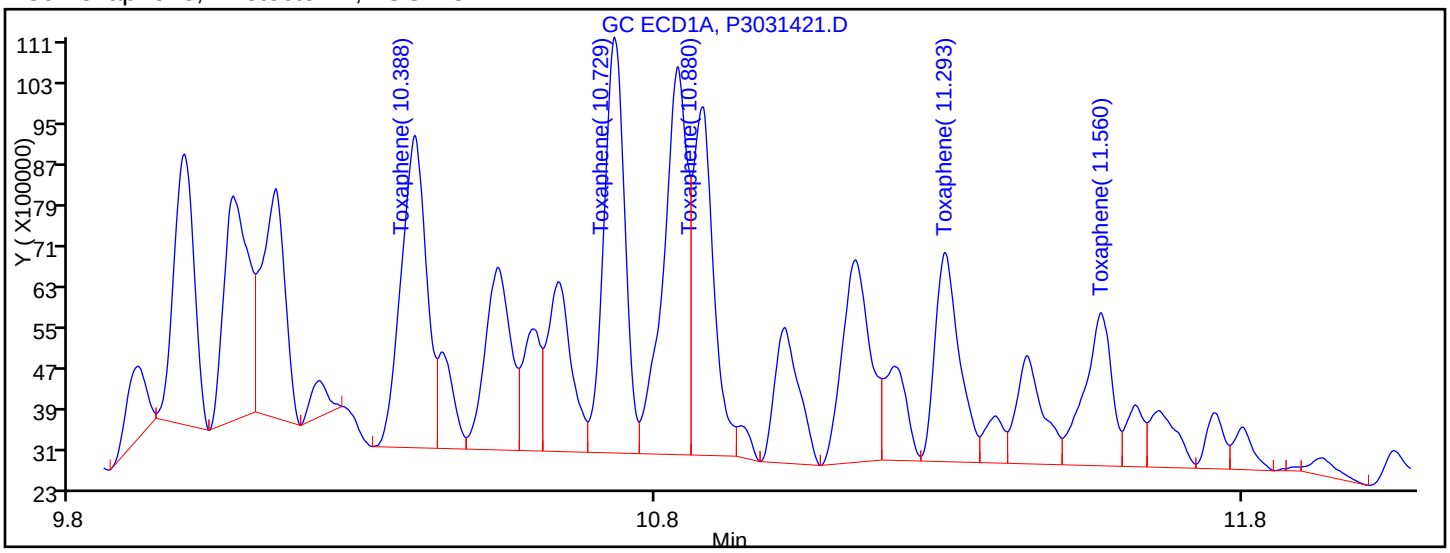
Report Date: 15-Mar-2013 07:54:45 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031421.D

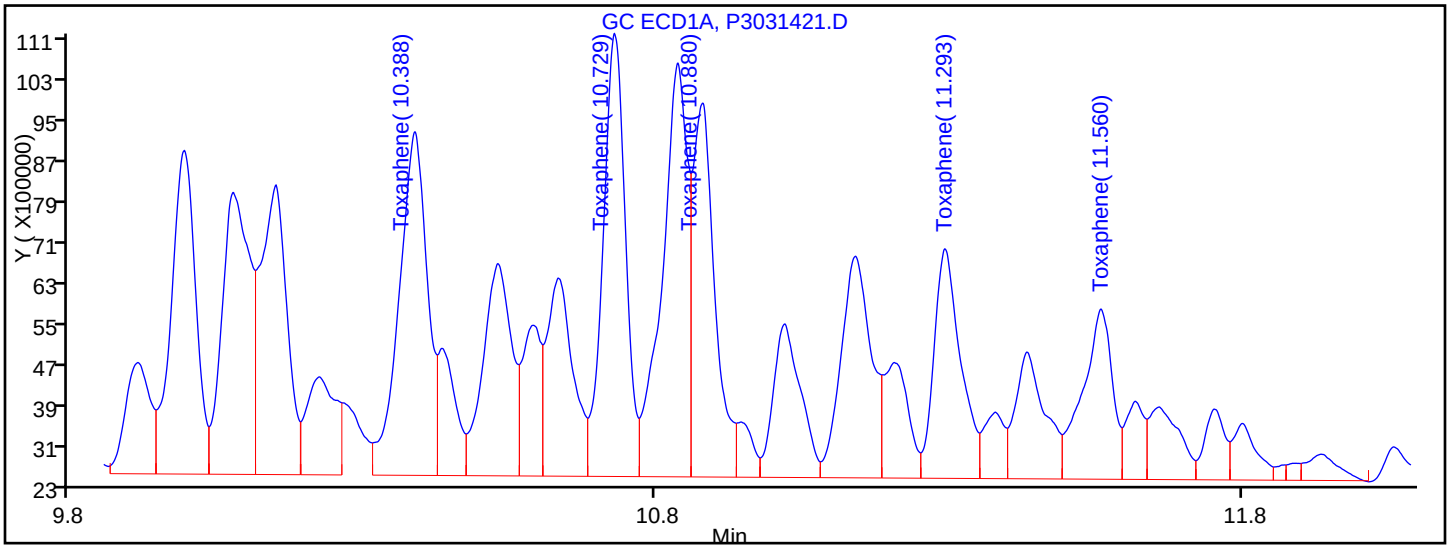
Injection Date:	14-Mar-2013 17:00:29	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	21
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 1, GC ECD1A



Processing Integration Results

RT = 10.388	Response = 18610725	M
RT = 10.729	Response = 20567473	M
RT = 10.880	Response = 16728794	M
RT = 11.293	Response = 11952490	M
RT = 11.560	Response = 9853335	M



Manual Integration Results

RT = 10.388	Response = 22738539	M
RT = 10.729	Response = 23407030	M
RT = 10.880	Response = 19030200	M
RT = 11.293	Response = 14363660	M
RT = 11.560	Response = 11948702	M

Reviewer: shockr, 15-Mar-2013 07:33:59

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031422.D
Lims ID: STD TOX3 Client ID:
Inject. Date: 14-Mar-2013 17:20:29 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0017984-022
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 22
Lims Batch ID: 78295 Lims Sample ID: 22
Sublist: chrom-PEST3*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m
Last Update: 15-Mar-2013 07:54:46 Calib Date: 14-Mar-2013 20:00:25
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK032

First Level Reviewer: shockr Date: 15-Mar-2013 07:28:50

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	1	10.386	10.386	0.000	49314516	1.01		100.0	M
1	2	10.729	10.729	0.000	49873719	1.00	81.1- 121.1	101.1	M
1	3	10.879	10.879	0.000	41893479	1.02	65.0- 105.0	85.0	M
1	4	11.292	11.292	0.000	31123539	1.00	43.1- 83.1	63.1	M
1	5	11.560	11.560	0.000	25877371	0.9893	32.5- 72.5	52.5	M
			Average of Peak Amounts =			1.00			
2	100	10.532	10.532	0.000	16682993	0.9881		100.0	M
2	2	11.117	11.117	0.000	21412233	0.99	108.3- 148.3	128.3	M
2	3	11.535	11.535	0.000	25814822	0.99	134.7- 174.7	154.7	M
2	4	12.278	12.278	0.000	29558438	0.9750	157.2- 197.2	177.2	M
2	5	12.837	12.837	0.000	11963681	0.9788	51.7- 91.7	71.7	M
			Average of Peak Amounts =			0.9856			
						RPD = 1.81			

QC Flag Legend

Review Flags
M - Manually Integrated

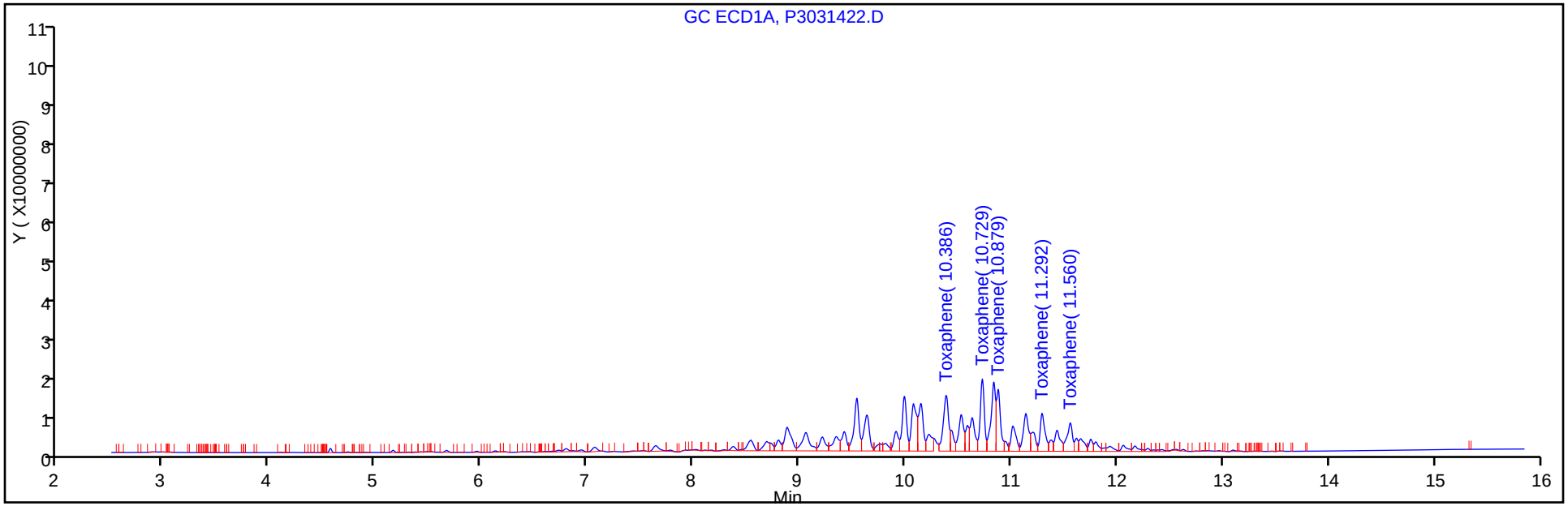
Report Date: 15-Mar-2013 07:54:47 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

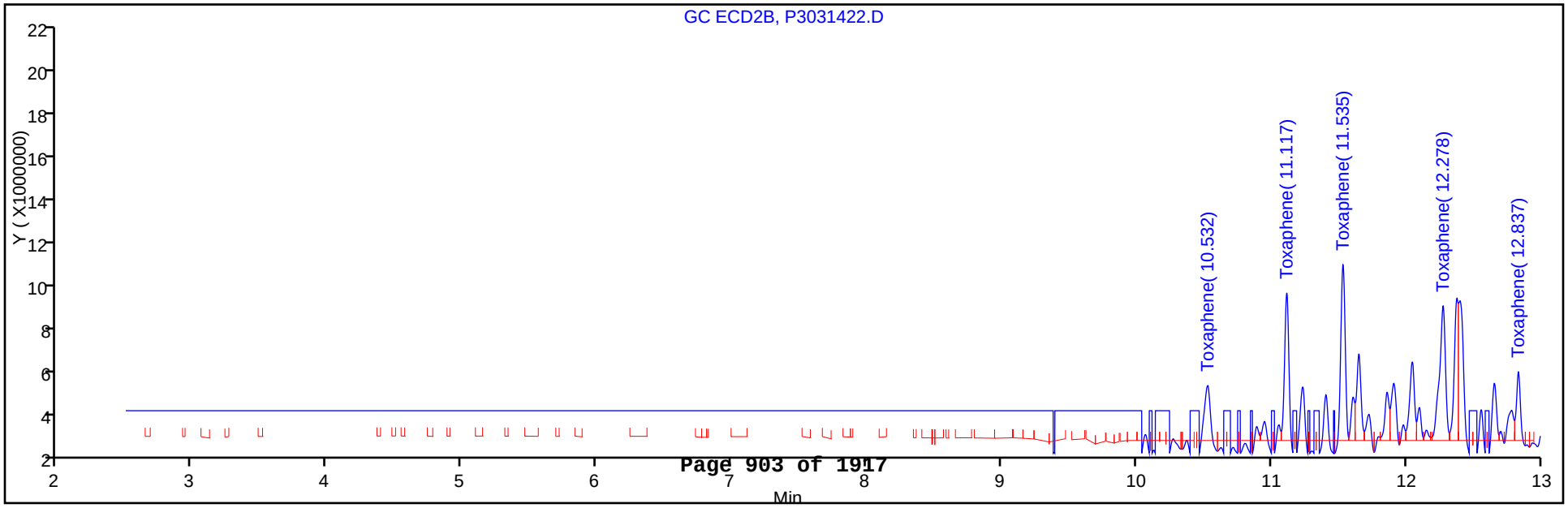
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031422.D

Injection Date:	14-Mar-2013 17:20:29	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	22
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



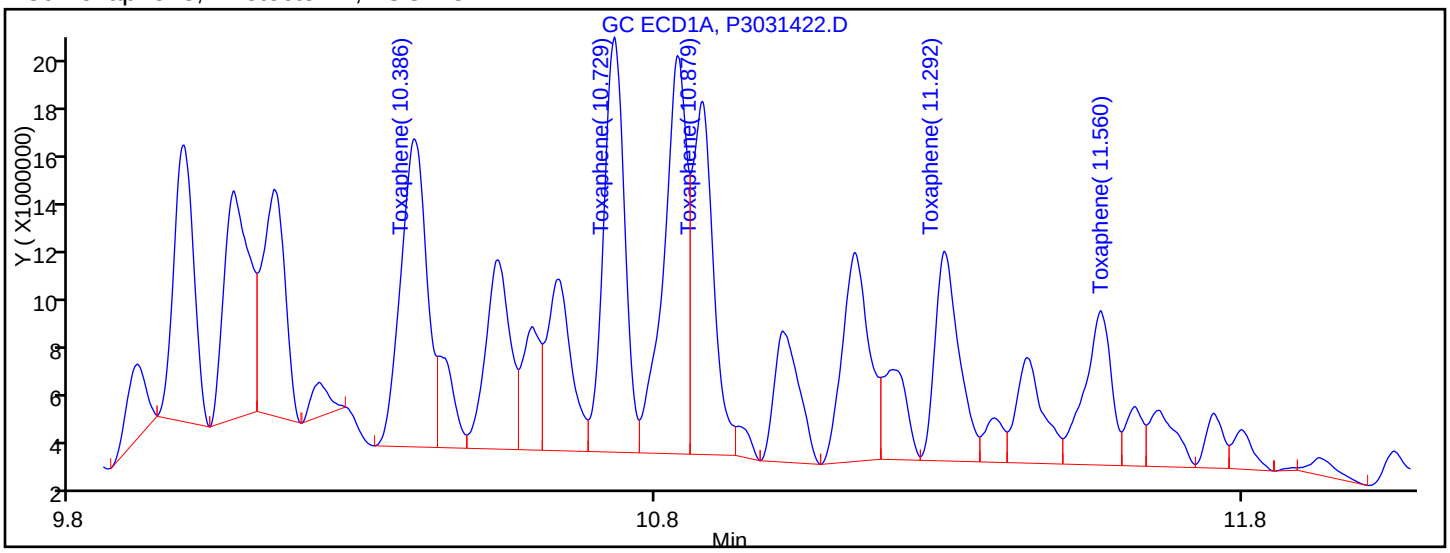
Report Date: 15-Mar-2013 07:54:47 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031422.D

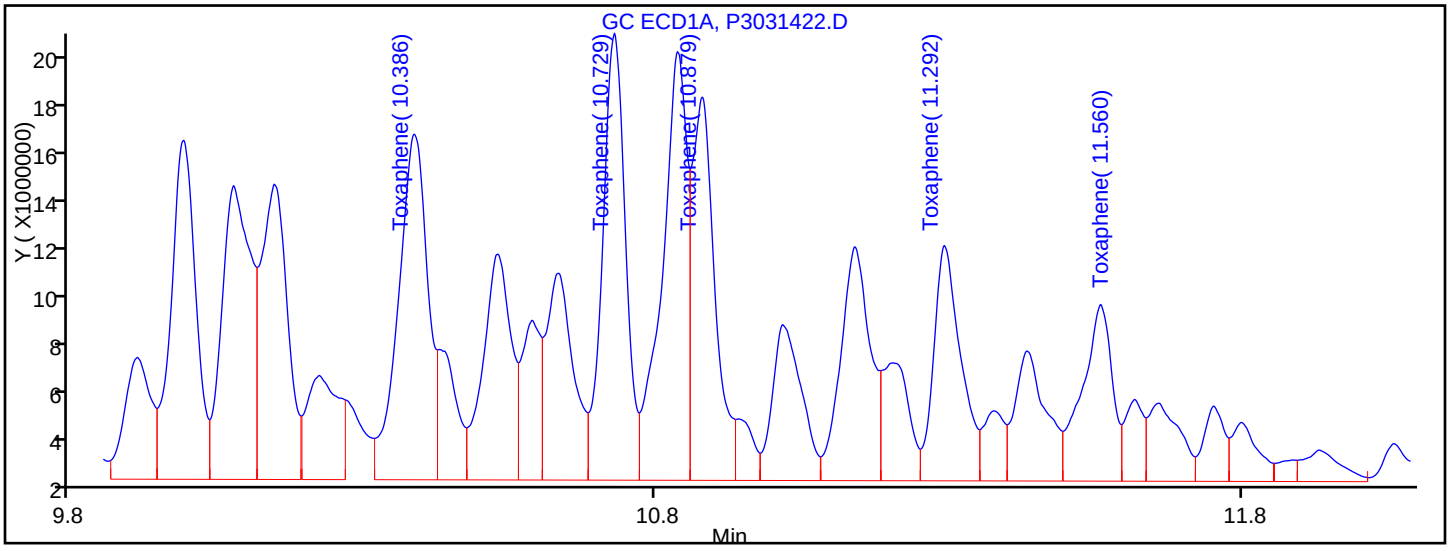
Injection Date:	14-Mar-2013 17:20:29	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	22
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 1, GC ECD1A



Processing Integration Results

RT = 10.386	Response = 38637322	M
RT = 10.729	Response = 42263636	M
RT = 10.879	Response = 35609227	M
RT = 11.292	Response = 24313624	M
RT = 11.560	Response = 19975418	M



Manual Integration Results

RT = 10.386	Response = 49314516	M
RT = 10.729	Response = 49873719	M
RT = 10.879	Response = 41893479	M
RT = 11.292	Response = 31123539	M
RT = 11.560	Response = 25877371	M

Reviewer: shockr, 15-Mar-2013 07:28:50

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031423.D		
Lims ID:	STD TOX4	Client ID:	
Inject. Date:	14-Mar-2013 17:40:27	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	240-0017984-023		
Misc. Info.:			
Operator:	402582	Instrument ID:	A2HP3
Injection Vol:	1.0 ul	ALS Bottle#:	23
Lims Batch ID:	78295	Lims Sample ID:	23
Sublist:	chrom-PEST3*sub5		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m		
Last Update:	15-Mar-2013 07:54:47	Calib Date:	14-Mar-2013 20:00:25
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D		
Limit Group:	GC 8081 D0D ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK032		

First Level Reviewer: shockr Date: 15-Mar-2013 07:34:35

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									
1	1	10.389	10.386	0.003	101593105	2.08		100.0	
1	2	10.730	10.729	0.001	100812821	2.02	81.1- 121.1	99.2	
1	3	10.878	10.879	-0.001	83595765	2.04	65.0- 105.0	82.3	
1	4	11.293	11.292	0.001	63727669	2.04	43.1- 83.1	62.7	
1	5	11.560	11.560	0.000	53731158	2.05	32.5- 72.5	52.9	
			Average of Peak Amounts =			2.05			
2	100	10.531	10.532	-0.001	31704777	1.88		100.0	
2	2	11.116	11.117	-0.001	42103609	1.96	108.3- 148.3	132.8	
2	3	11.534	11.535	-0.001	51048064	1.96	134.7- 174.7	161.0	
2	4	12.277	12.278	-0.001	58482091	1.93	157.2- 197.2	184.5	A
2	5	12.835	12.837	-0.002	23411889	1.92	51.7- 91.7	73.8	A
			Average of Peak Amounts =			1.93			
						RPD = 6.01			

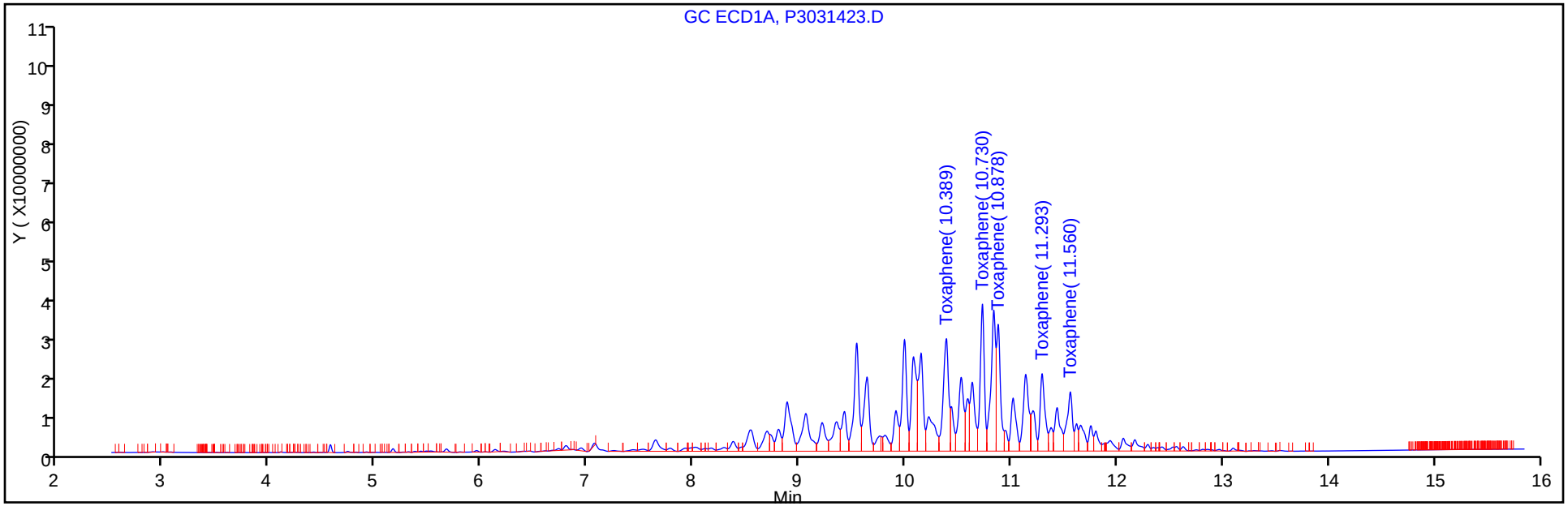
Report Date: 15-Mar-2013 07:54:48 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

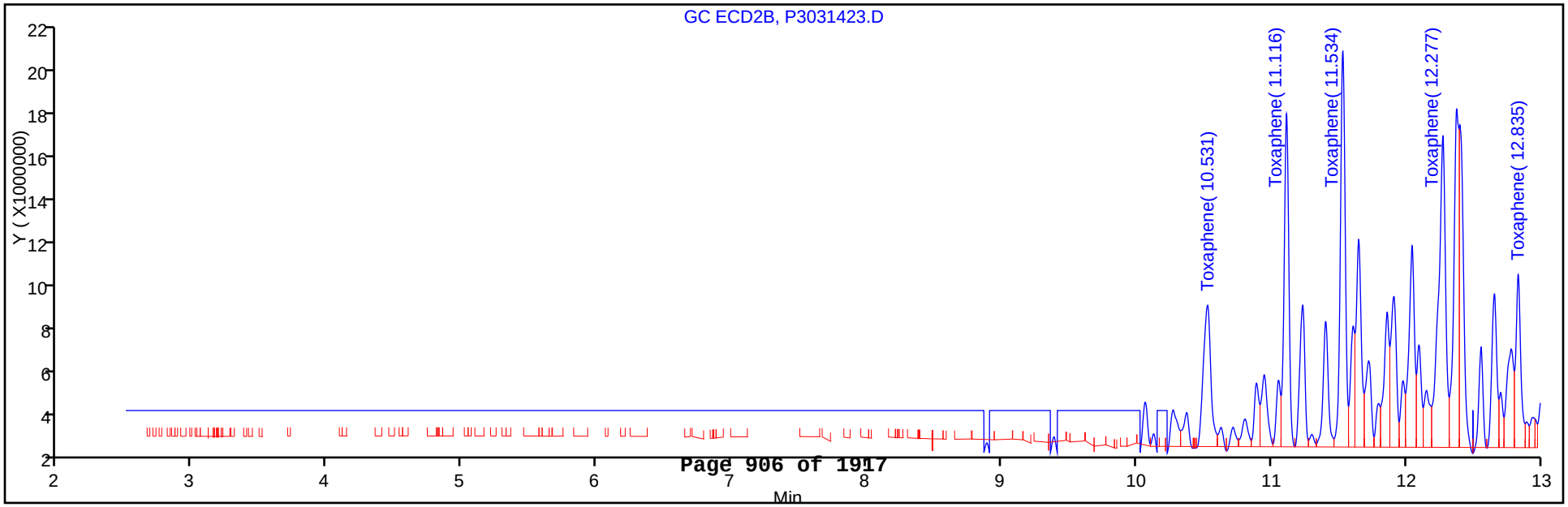
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031423.D

Injection Date:	14-Mar-2013 17:40:27	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	23
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031424.D
Lims ID: STD TOX5 Client ID:
Inject. Date: 14-Mar-2013 18:00:27 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0017984-024
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 24
Lims Batch ID: 78295 Lims Sample ID: 24
Sublist: chrom-PEST3*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m
Last Update: 15-Mar-2013 07:54:49 Calib Date: 14-Mar-2013 20:00:25
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK032

First Level Reviewer: shockr Date: 15-Mar-2013 07:28:30

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	1	10.388	10.386	0.002	263734805	5.39		100.0	M
1	2	10.728	10.729	-0.001	268763022	5.40	81.1- 121.1	101.9	M
1	3	10.878	10.879	-0.001	222109554	5.42	65.0- 105.0	84.2	M
1	4	11.293	11.292	0.001	174780978	5.61	43.1- 83.1	66.3	M
1	5	11.560	11.560	0.000	152313906	5.82	32.5- 72.5	57.8	M
			Average of Peak Amounts =			5.53			
2	100	10.530	10.532	-0.002	96812641	5.73		100.0	M
2	2	11.117	11.117	0.000	121391530	5.64	108.3- 148.3	125.4	M
2	3	11.533	11.535	-0.002	147899283	5.68	134.7- 174.7	152.8	M
2	4	12.277	12.278	-0.001	171218541	5.65	157.2- 197.2	176.9	M
2	5	12.837	12.837	0.000	68962047	5.64	51.7- 91.7	71.2	M
			Average of Peak Amounts =			5.67			
						RPD = 2.55			

QC Flag Legend

Review Flags
M - Manually Integrated

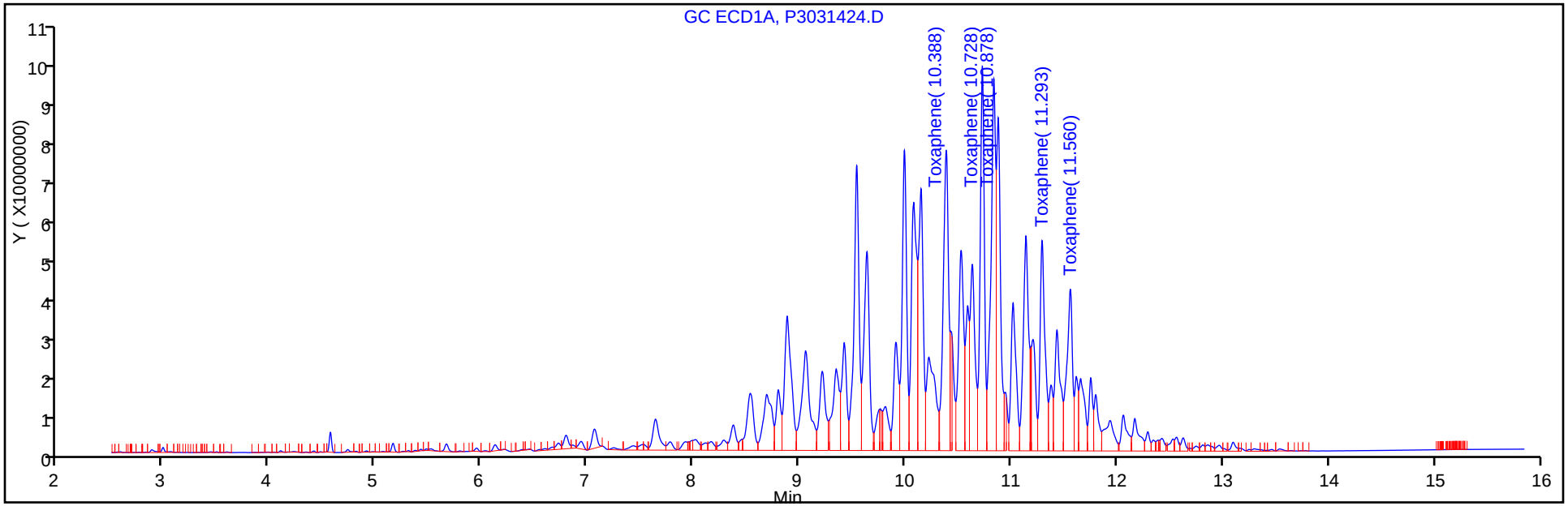
Report Date: 15-Mar-2013 07:54:50 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

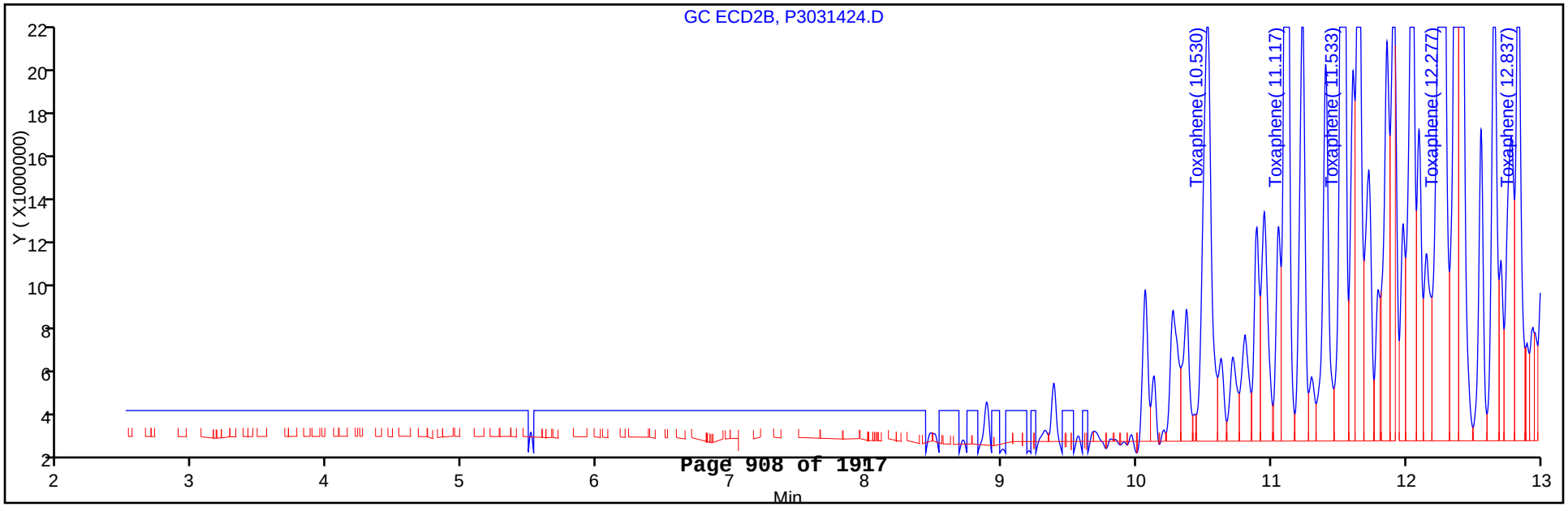
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031424.D

Injection Date:	14-Mar-2013 18:00:27	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	24
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



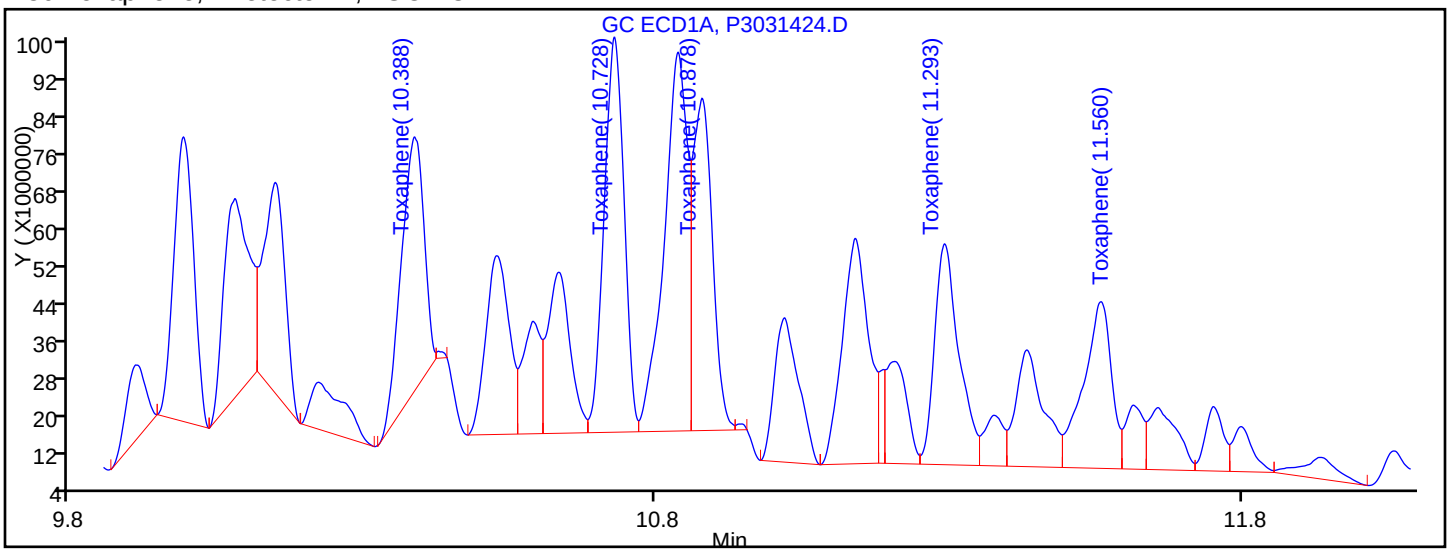
Report Date: 15-Mar-2013 07:54:50 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031424.D

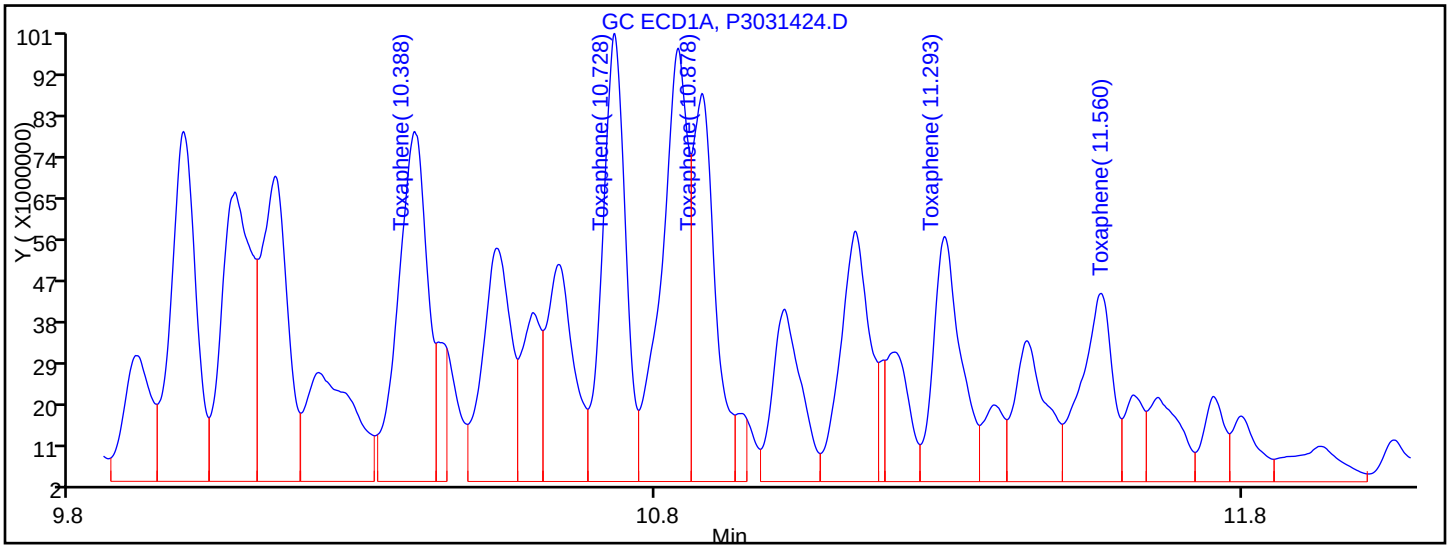
Injection Date:	14-Mar-2013 18:00:27	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	24
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 1, GC ECD1A



Processing Integration Results

RT = 10.388	Response = 147514841	M
RT = 10.728	Response = 201031410	M
RT = 10.878	Response = 161632618	M
RT = 11.293	Response = 137646578	M
RT = 11.560	Response = 119465882	M



Manual Integration Results

RT = 10.388	Response = 263734805	M
RT = 10.728	Response = 268763022	M
RT = 10.878	Response = 222109554	M
RT = 11.293	Response = 174780978	M
RT = 11.560	Response = 152313906	M

Reviewer: shockr, 15-Mar-2013 07:28:30

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 78295

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2013 16:40 Calibration End Date: 03/14/2013 18:00 Calibration ID: 14145

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-78295/20	P3031420.D
Level 2	STD 240-78295/21	P3031421.D
Level 3	STD 240-78295/22	P3031422.D
Level 4	STD 240-78295/23	P3031423.D
Level 5	STD 240-78295/24	P3031424.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Toxaphene Peak 1	10.531	10.530	10.532	10.531	10.530						10.502 - 10.562	10.531
Toxaphene Peak 2	11.116	11.117	11.117	11.116	11.117						11.087 - 11.147	11.117
Toxaphene Peak 3	11.534	11.533	11.535	11.534	11.533						11.505 - 11.565	11.534
Toxaphene Peak 4	12.277	12.277	12.278	12.277	12.277						12.248 - 12.308	12.277
Toxaphene Peak 5	12.838	12.836	12.837	12.835	12.837						12.807 - 12.867	12.837

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 78295

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2013 16:40 Calibration End Date: 03/14/2013 18:00 Calibration ID: 14145

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-78295/20	P3031420.D
Level 2	STD 240-78295/21	P3031421.D
Level 3	STD 240-78295/22	P3031422.D
Level 4	STD 240-78295/23	P3031423.D
Level 5	STD 240-78295/24	P3031424.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								
Toxaphene Peak 1	16406490 19362528	16111272	16682993	15852389	Ave		16883134.3				8.4		20.0			
Toxaphene Peak 2	20548375 24278306	20379688	21412233	21051805	Ave		21534081.3				7.4		20.0			
Toxaphene Peak 3	24696705 29579857	24531840	25814822	25524032	Ave		26029451.1				7.9		20.0			
Toxaphene Peak 4	29347695 34243708	29186520	29558438	29241046	Ave		30315481.3				7.3		20.0			
Toxaphene Peak 5	12007610 13792409	11645228	11963681	11705945	Ave		12222974.6				7.3		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.: 240-21987-1 Analy Batch No.: 78295

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2013 16:40 Calibration End Date: 03/14/2013 18:00 Calibration ID: 14145

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-78295/20	P3031420.D
Level 2	STD 240-78295/21	P3031421.D
Level 3	STD 240-78295/22	P3031422.D
Level 4	STD 240-78295/23	P3031423.D
Level 5	STD 240-78295/24	P3031424.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
Toxaphene Peak 1	Ave	3281298	8055636	16682993	31704777	96812641	0.200	0.500	1.00	2.00	5.00
Toxaphene Peak 2	Ave	4109675	10189844	21412233	42103609	121391530	0.200	0.500	1.00	2.00	5.00
Toxaphene Peak 3	Ave	4939341	12265920	25814822	51048064	147899283	0.200	0.500	1.00	2.00	5.00
Toxaphene Peak 4	Ave	5869539	14593260	29558438	58482091	171218541	0.200	0.500	1.00	2.00	5.00
Toxaphene Peak 5	Ave	2401522	5822614	11963681	23411889	68962047	0.200	0.500	1.00	2.00	5.00

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031420.D
Lims ID: STD TOX 1 Client ID:
Inject. Date: 14-Mar-2013 16:40:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0017984-020
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 20
Lims Batch ID: 78295 Lims Sample ID: 20
Sublist: chrom-PEST3*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m
Last Update: 15-Mar-2013 07:54:42 Calib Date: 14-Mar-2013 20:00:25
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK032

First Level Reviewer: shockr Date: 15-Mar-2013 07:29:23

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	1	10.390	10.386	0.004	9286041	0.1897		100.0	M
1	2	10.729	10.729	0.000	9626325	0.1933	81.1- 121.1	103.7	M
1	3	10.878	10.879	-0.001	7779838	0.1897	65.0- 105.0	83.8	M
1	4	11.293	11.292	0.001	5842596	0.1874	43.1- 83.1	62.9	M
1	5	11.559	11.560	-0.001	4737004	0.1811	32.5- 72.5	51.0	M
			Average of Peak Amounts =			0.1882			
2	100	10.531	10.532	-0.001	3281298	0.1944		100.0	M
2	2	11.116	11.117	-0.001	4109675	0.1908	108.3- 148.3	125.2	M
2	3	11.534	11.535	-0.001	4939341	0.1898	134.7- 174.7	150.5	M
2	4	12.277	12.278	-0.001	5869539	0.1936	157.2- 197.2	178.9	M
2	5	12.838	12.837	0.001	2401522	0.1965	51.7- 91.7	73.2	M
			Average of Peak Amounts =			0.1930			
						RPD = 2.50			

QC Flag Legend

Review Flags
M - Manually Integrated

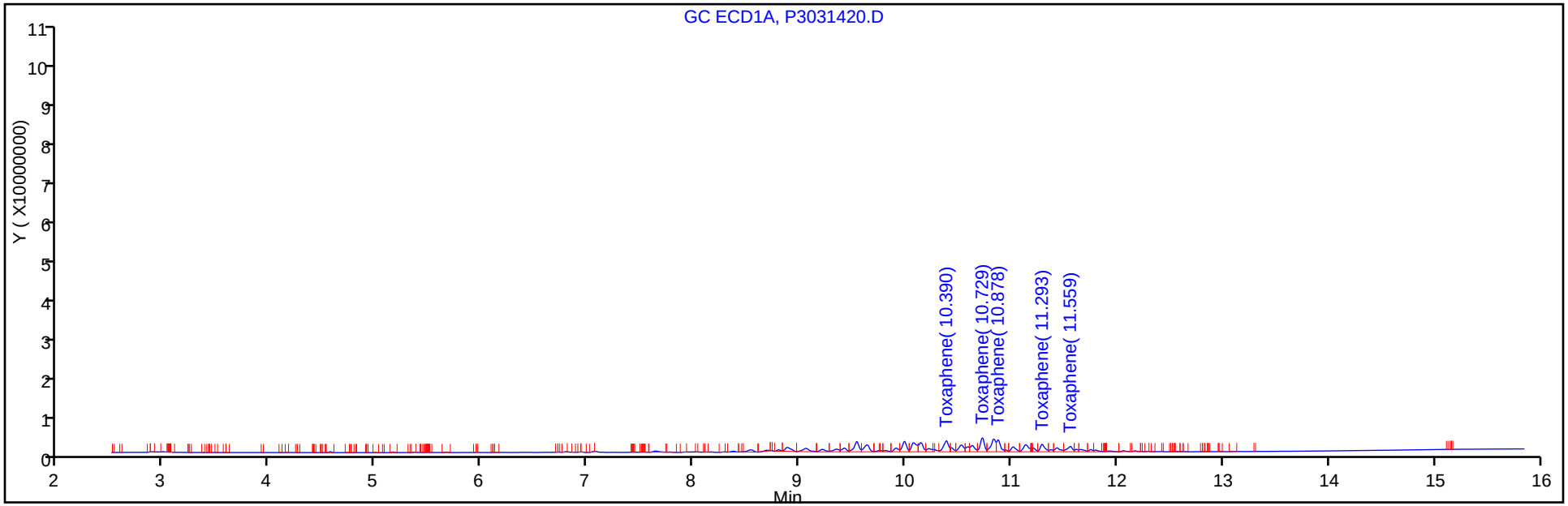
Report Date: 15-Mar-2013 07:54:44 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

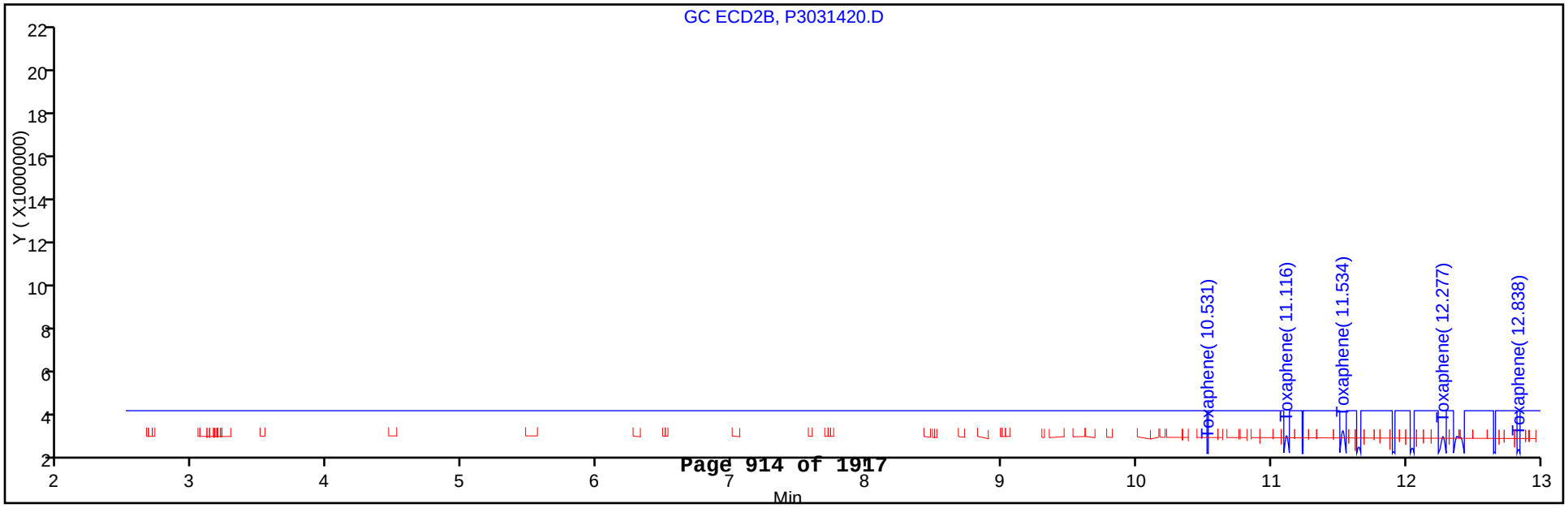
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031420.D

Injection Date:	14-Mar-2013 16:40:30	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	20
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



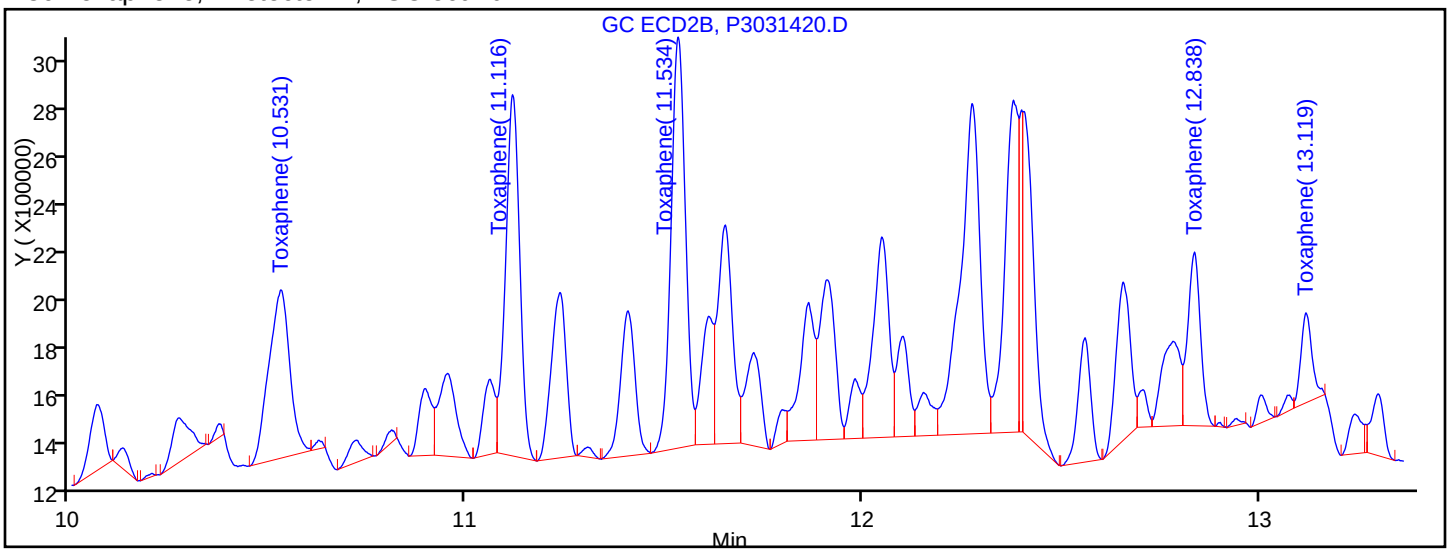
Report Date: 15-Mar-2013 07:54:44 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031420.D

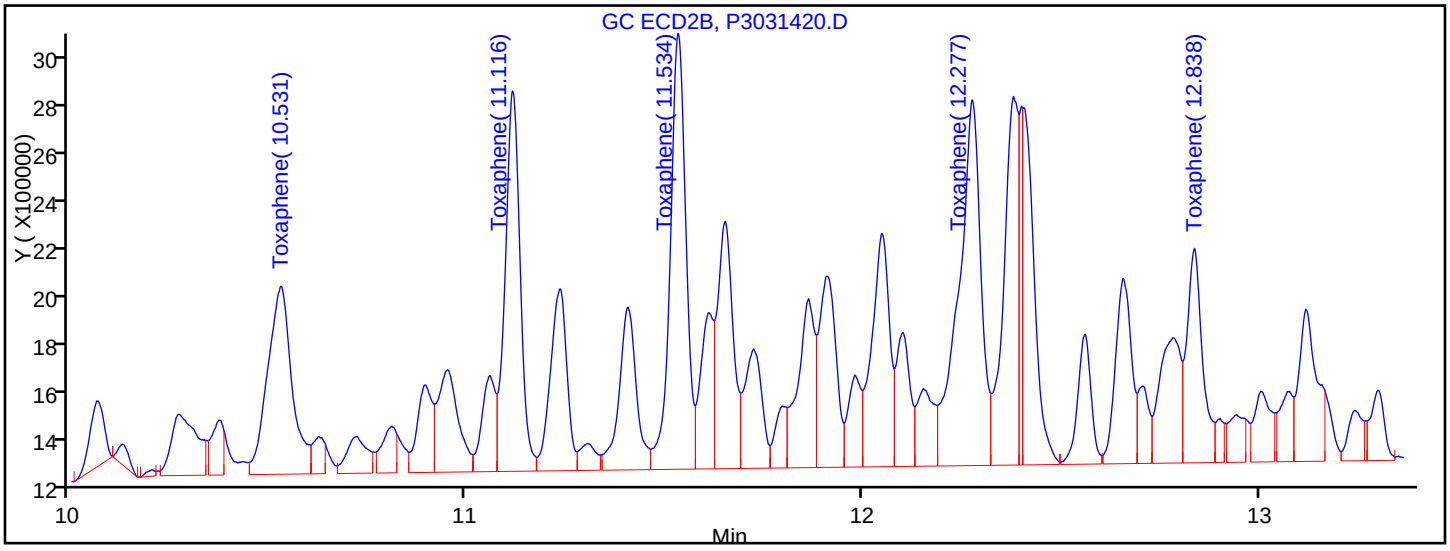
Injection Date:	14-Mar-2013 16:40:30	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	20
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 2, GC ecd2b



Processing Integration Results

RT = 10.531	Response = 2533892	M
RT = 11.116	Response = 3668956	M
RT = 11.534	Response = 4275134	M
RT = 12.838	Response = 1590281	M
RT = 13.119	Response = 719443	M



Manual Integration Results

RT = 10.531	Response = 3281298	M
RT = 11.116	Response = 4109675	M
RT = 11.534	Response = 4939341	M
RT = 12.277	Response = 5869539	M
RT = 12.838	Response = 2401522	M

Reviewer: shockr, 15-Mar-2013 07:29:23

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031421.D
Lims ID: STD TOX2 Client ID:
Inject. Date: 14-Mar-2013 17:00:29 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0017984-021
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 21
Lims Batch ID: 78295 Lims Sample ID: 21
Sublist: chrom-PEST3*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m
Last Update: 15-Mar-2013 07:54:44 Calib Date: 14-Mar-2013 20:00:25
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK032

First Level Reviewer: shockr Date: 15-Mar-2013 07:29:05

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	1	10.388	10.386	0.002	22738539	0.4645		100.0	M
1	2	10.729	10.729	0.000	23407030	0.4701	81.1- 121.1	102.9	M
1	3	10.880	10.879	0.001	19030200	0.4640	65.0- 105.0	83.7	M
1	4	11.293	11.292	0.001	14363660	0.4607	43.1- 83.1	63.2	M
1	5	11.560	11.560	0.000	11948702	0.4568	32.5- 72.5	52.5	M
			Average of Peak Amounts =			0.4632			
2	100	10.530	10.532	-0.002	8055636	0.4771		100.0	
2	2	11.117	11.117	0.000	10189844	0.4732	108.3- 148.3	126.5	
2	3	11.533	11.535	-0.002	12265920	0.4712	134.7- 174.7	152.3	
2	4	12.277	12.278	-0.001	14593260	0.4814	157.2- 197.2	181.2	
2	5	12.836	12.837	-0.001	5822614	0.4764	51.7- 91.7	72.3	
			Average of Peak Amounts =			0.4759			
						RPD = 2.69			

QC Flag Legend

Review Flags
M - Manually Integrated

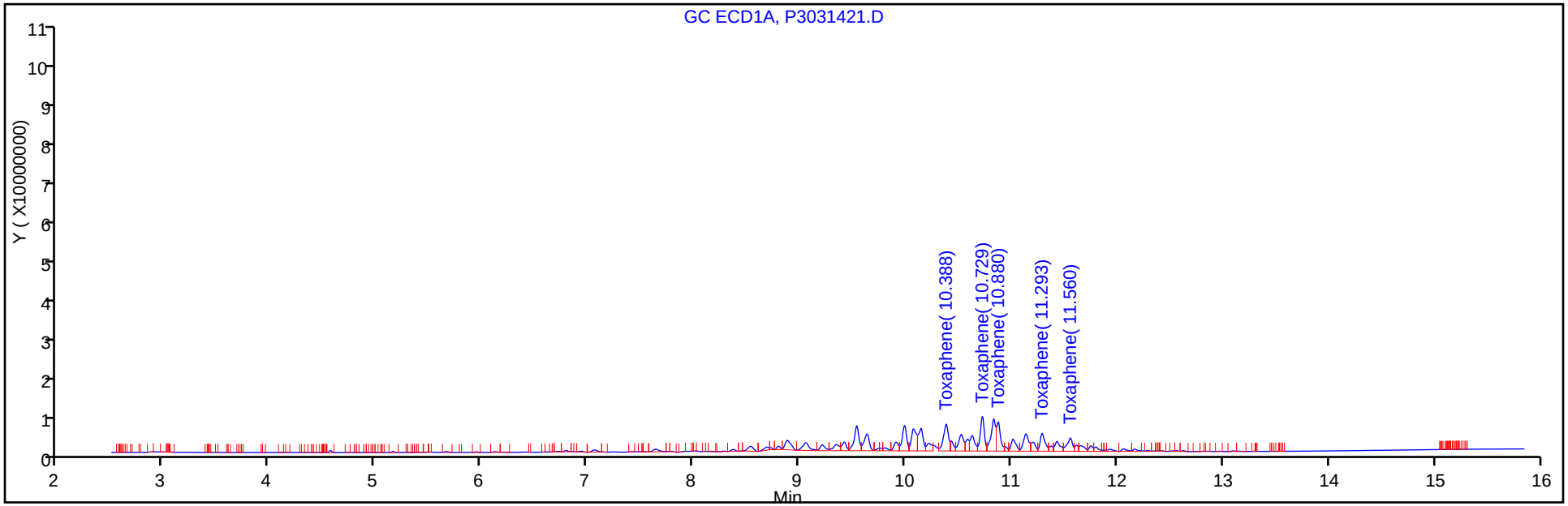
Report Date: 15-Mar-2013 07:54:45 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

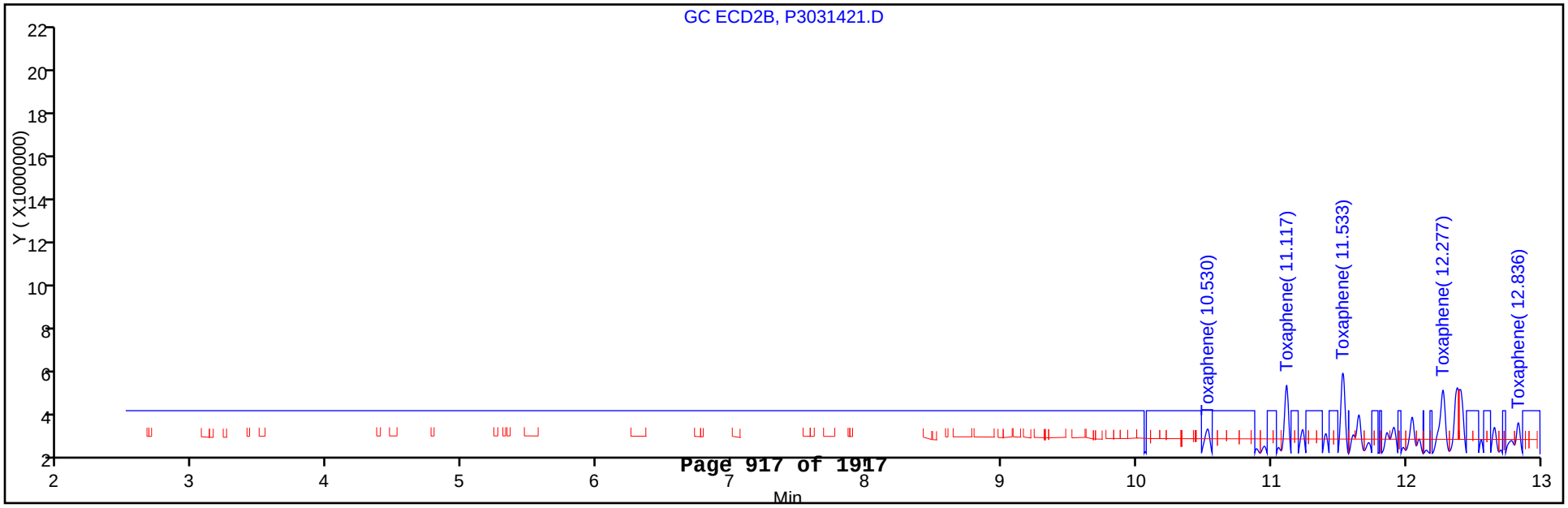
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031421.D

Injection Date:	14-Mar-2013 17:00:29	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	21
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031422.D
Lims ID: STD TOX3 Client ID:
Inject. Date: 14-Mar-2013 17:20:29 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0017984-022
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 22
Lims Batch ID: 78295 Lims Sample ID: 22
Sublist: chrom-PEST3*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m
Last Update: 15-Mar-2013 07:54:46 Calib Date: 14-Mar-2013 20:00:25
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK032

First Level Reviewer: shockr Date: 15-Mar-2013 07:28:50

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	1	10.386	10.386	0.000	49314516	1.01		100.0	M
1	2	10.729	10.729	0.000	49873719	1.00	81.1- 121.1	101.1	M
1	3	10.879	10.879	0.000	41893479	1.02	65.0- 105.0	85.0	M
1	4	11.292	11.292	0.000	31123539	1.00	43.1- 83.1	63.1	M
1	5	11.560	11.560	0.000	25877371	0.9893	32.5- 72.5	52.5	M
			Average of Peak Amounts =			1.00			
2	100	10.532	10.532	0.000	16682993	0.9881		100.0	M
2	2	11.117	11.117	0.000	21412233	0.99	108.3- 148.3	128.3	M
2	3	11.535	11.535	0.000	25814822	0.99	134.7- 174.7	154.7	M
2	4	12.278	12.278	0.000	29558438	0.9750	157.2- 197.2	177.2	M
2	5	12.837	12.837	0.000	11963681	0.9788	51.7- 91.7	71.7	M
			Average of Peak Amounts =			0.9856			
						RPD = 1.81			

QC Flag Legend

Review Flags
M - Manually Integrated

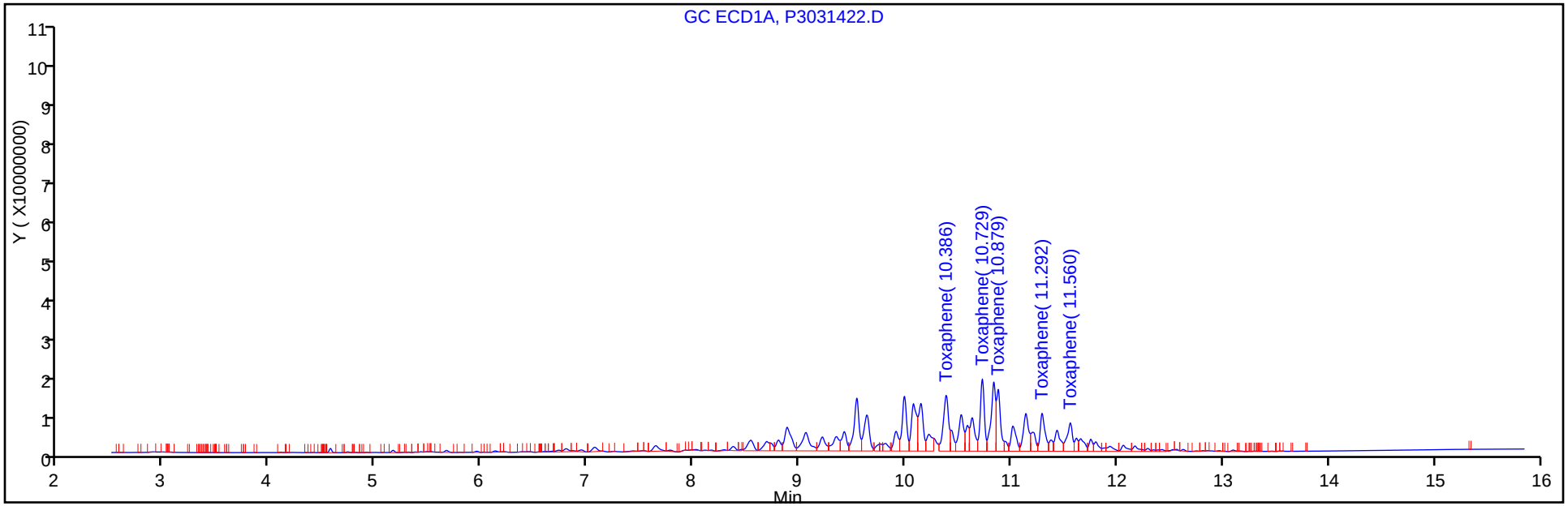
Report Date: 15-Mar-2013 07:54:47 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

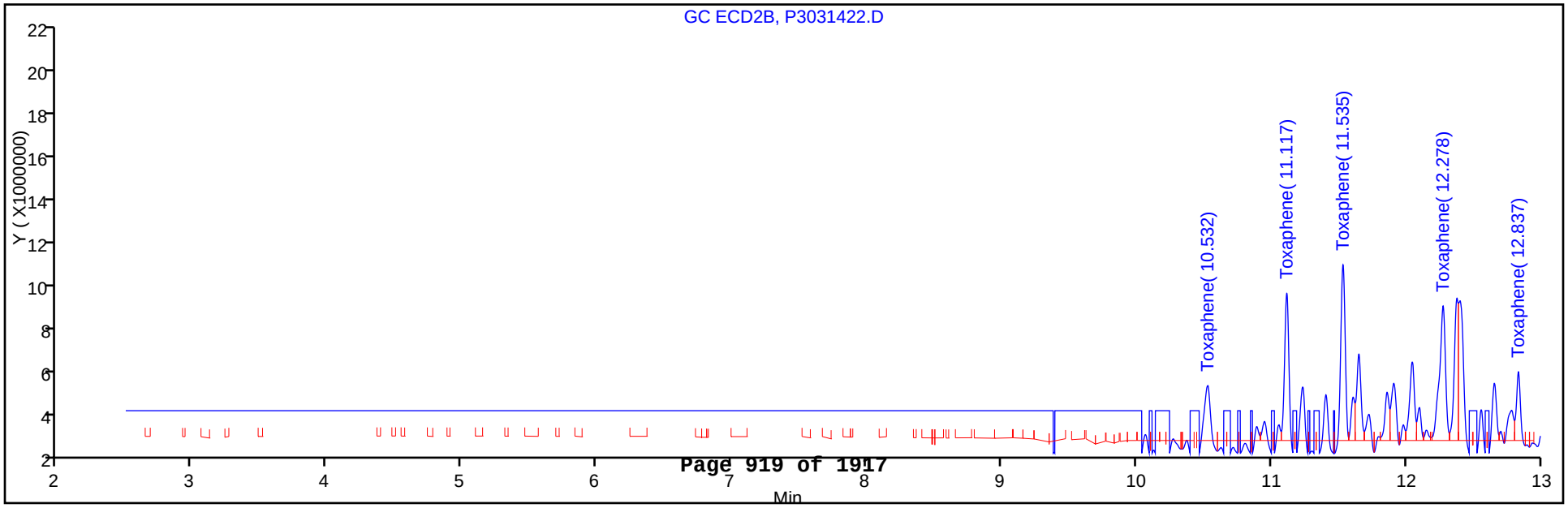
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031422.D

Injection Date:	14-Mar-2013 17:20:29	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	22
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



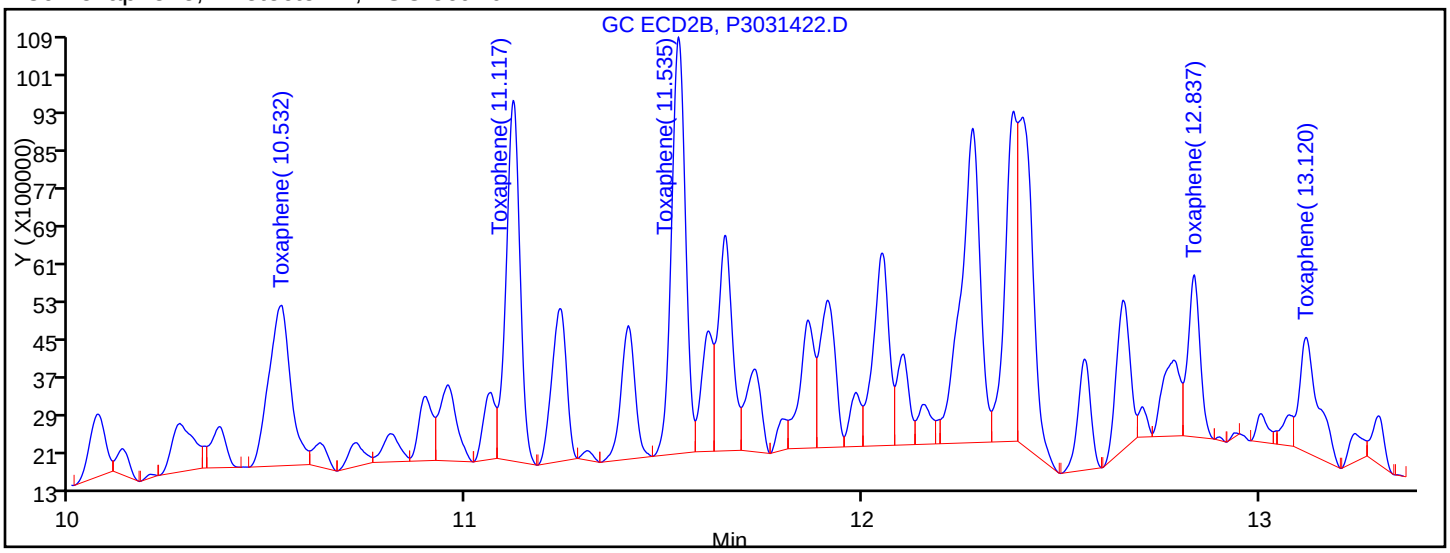
Report Date: 15-Mar-2013 07:54:47 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031422.D

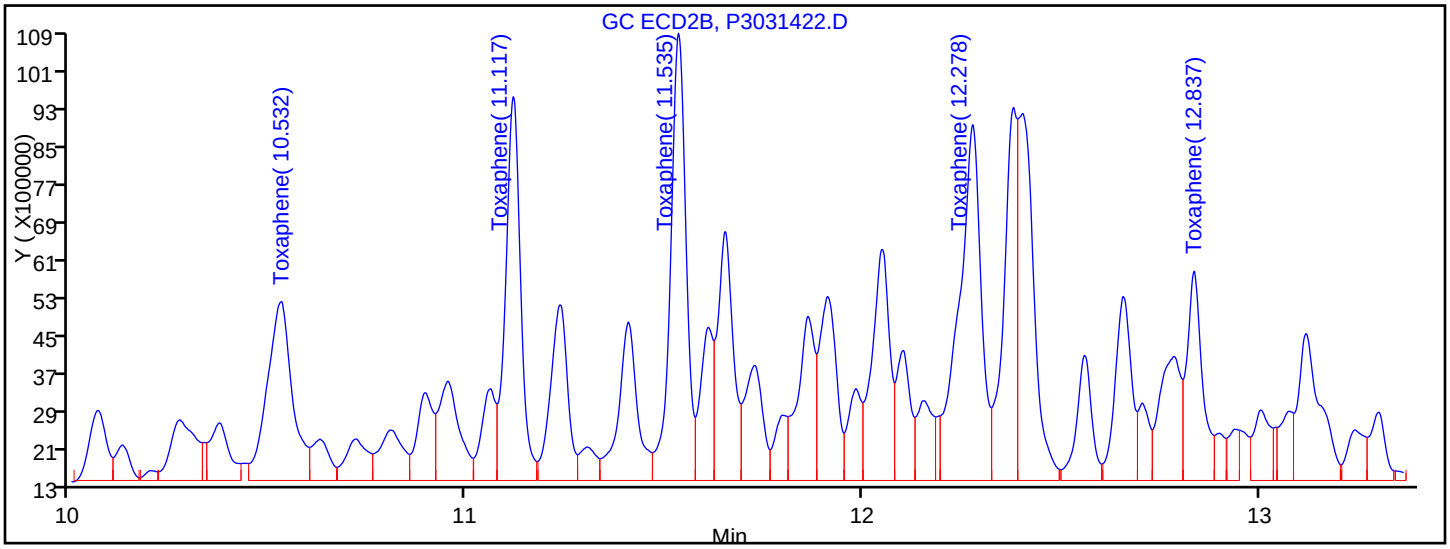
Injection Date:	14-Mar-2013 17:20:29	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	22
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 2, GC ecd2b



Processing Integration Results

RT = 10.532	Response = 13108775	M
RT = 11.117	Response = 18571539	M
RT = 11.535	Response = 21688550	M
RT = 12.837	Response = 7266496	M
RT = 13.120	Response = 8015270	M



Manual Integration Results

RT = 10.532	Response = 16682993	M
RT = 11.117	Response = 21412233	M
RT = 11.535	Response = 25814822	M
RT = 12.278	Response = 29558438	M
RT = 12.837	Response = 11963681	M

Reviewer: shockr, 15-Mar-2013 07:28:50

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031423.D
Lims ID: STD TOX4 Client ID:
Inject. Date: 14-Mar-2013 17:40:27 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0017984-023
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 23
Lims Batch ID: 78295 Lims Sample ID: 23
Sublist: chrom-PEST3*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m
Last Update: 15-Mar-2013 07:54:47 Calib Date: 14-Mar-2013 20:00:25
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK032

First Level Reviewer: shockr Date: 15-Mar-2013 07:34:35

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									
1	1	10.389	10.386	0.003	101593105	2.08		100.0	
1	2	10.730	10.729	0.001	100812821	2.02	81.1- 121.1	99.2	
1	3	10.878	10.879	-0.001	83595765	2.04	65.0- 105.0	82.3	
1	4	11.293	11.292	0.001	63727669	2.04	43.1- 83.1	62.7	
1	5	11.560	11.560	0.000	53731158	2.05	32.5- 72.5	52.9	
			Average of Peak Amounts =			2.05			
2	100	10.531	10.532	-0.001	31704777	1.88		100.0	
2	2	11.116	11.117	-0.001	42103609	1.96	108.3- 148.3	132.8	
2	3	11.534	11.535	-0.001	51048064	1.96	134.7- 174.7	161.0	
2	4	12.277	12.278	-0.001	58482091	1.93	157.2- 197.2	184.5	A
2	5	12.835	12.837	-0.002	23411889	1.92	51.7- 91.7	73.8	A
			Average of Peak Amounts =			1.93			
						RPD = 6.01			

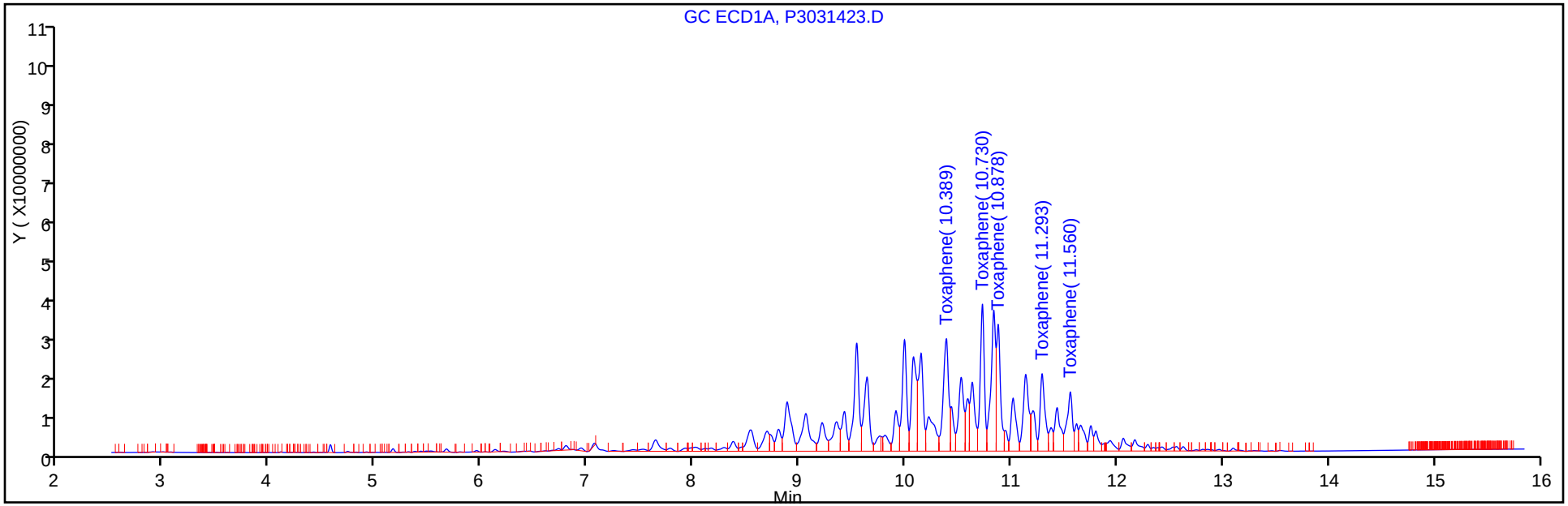
Report Date: 15-Mar-2013 07:54:49 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

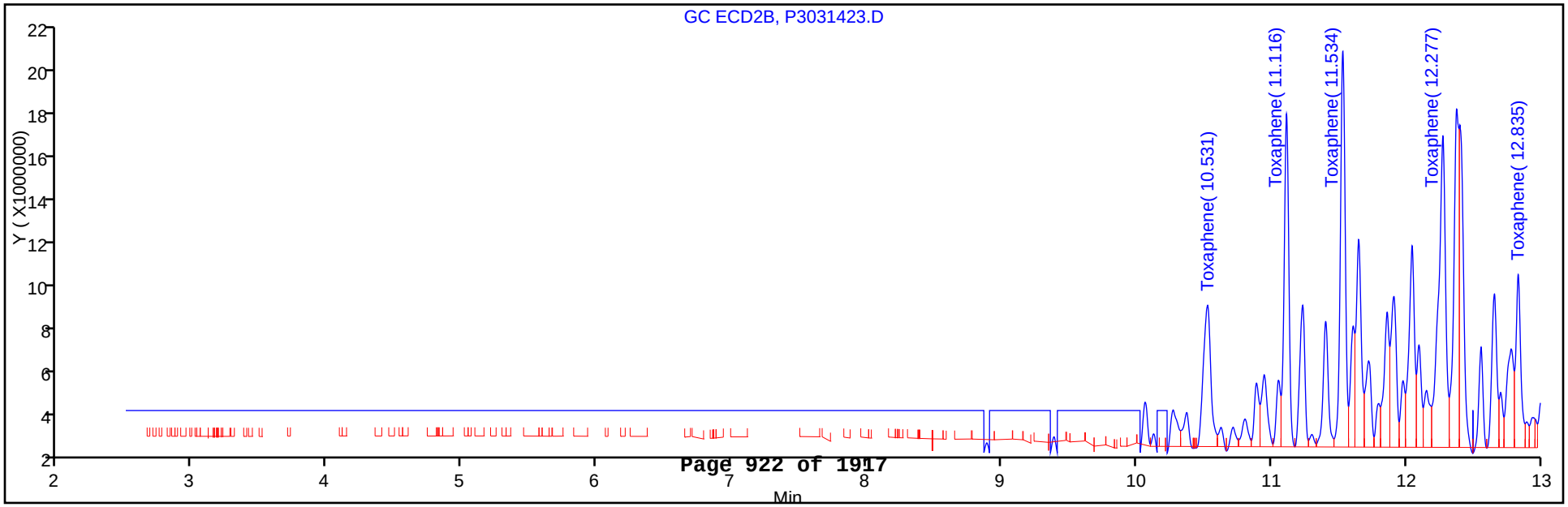
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031423.D

Injection Date:	14-Mar-2013 17:40:27	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	23
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031424.D
Lims ID: STD TOX5 Client ID:
Inject. Date: 14-Mar-2013 18:00:27 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0017984-024
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 24
Lims Batch ID: 78295 Lims Sample ID: 24
Sublist: chrom-PEST3*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m
Last Update: 15-Mar-2013 07:54:49 Calib Date: 14-Mar-2013 20:00:25
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK032

First Level Reviewer: shockr Date: 15-Mar-2013 07:28:30

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	1	10.388	10.386	0.002	263734805	5.39		100.0	M
1	2	10.728	10.729	-0.001	268763022	5.40	81.1- 121.1	101.9	M
1	3	10.878	10.879	-0.001	222109554	5.42	65.0- 105.0	84.2	M
1	4	11.293	11.292	0.001	174780978	5.61	43.1- 83.1	66.3	M
1	5	11.560	11.560	0.000	152313906	5.82	32.5- 72.5	57.8	M
			Average of Peak Amounts =			5.53			
2	100	10.530	10.532	-0.002	96812641	5.73		100.0	M
2	2	11.117	11.117	0.000	121391530	5.64	108.3- 148.3	125.4	M
2	3	11.533	11.535	-0.002	147899283	5.68	134.7- 174.7	152.8	M
2	4	12.277	12.278	-0.001	171218541	5.65	157.2- 197.2	176.9	M
2	5	12.837	12.837	0.000	68962047	5.64	51.7- 91.7	71.2	M
			Average of Peak Amounts =			5.67			
						RPD = 2.55			

QC Flag Legend

Review Flags
M - Manually Integrated

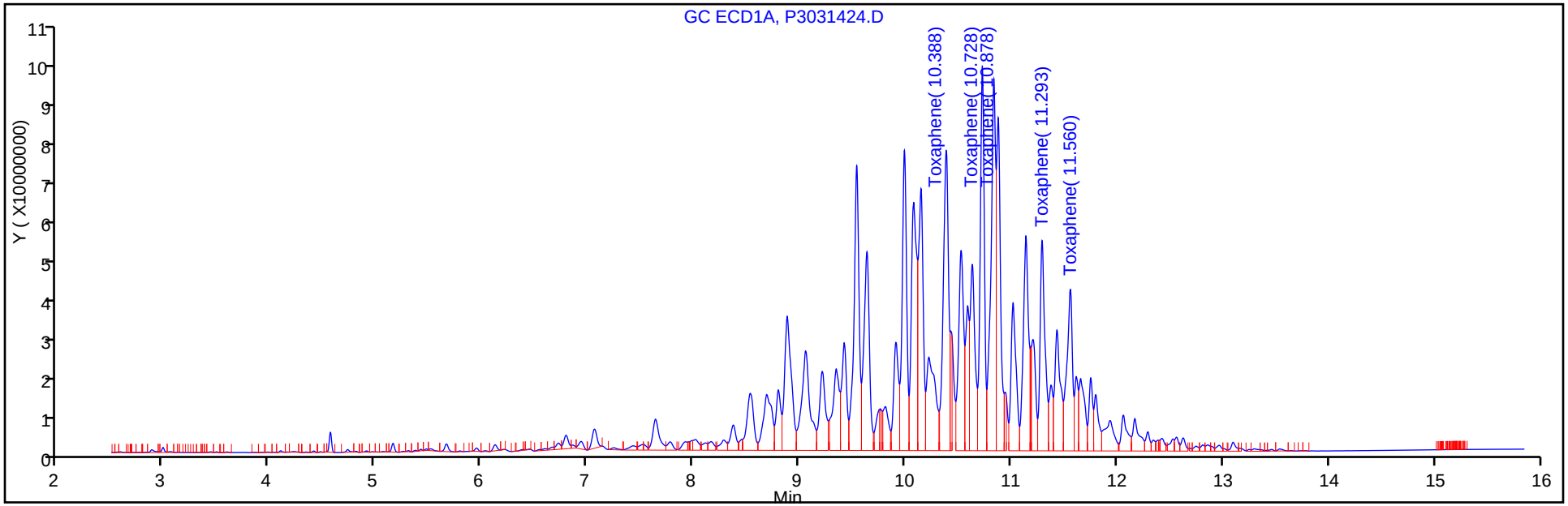
Report Date: 15-Mar-2013 07:54:50 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

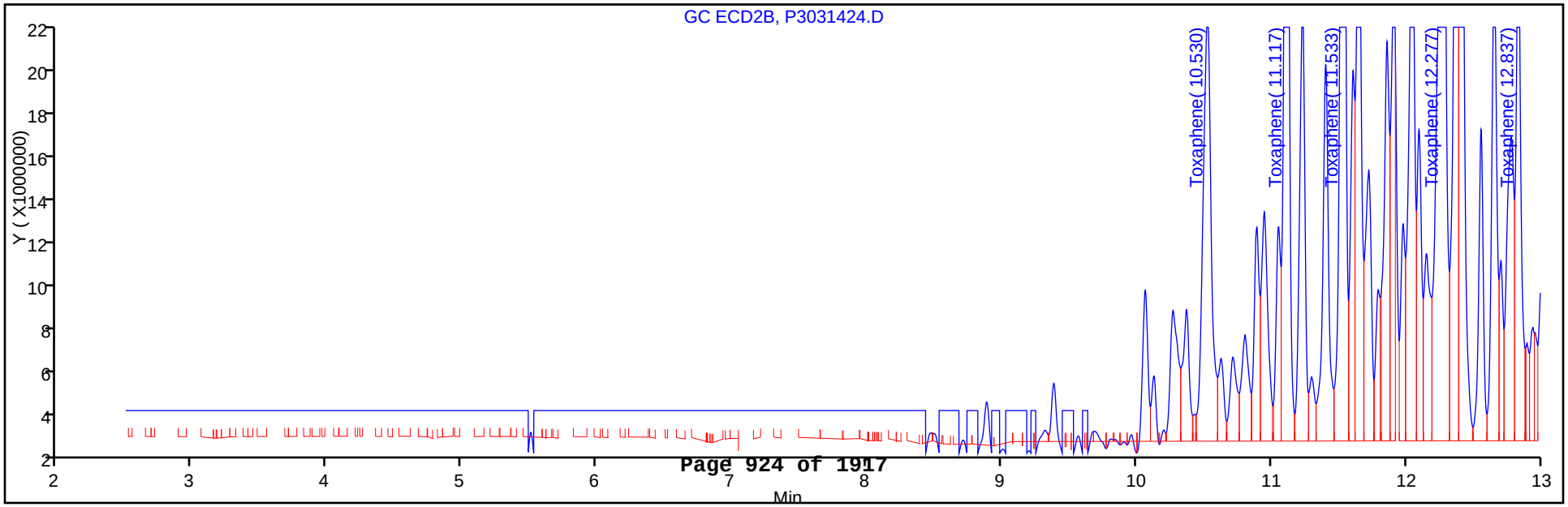
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031424.D

Injection Date:	14-Mar-2013 18:00:27	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	24
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



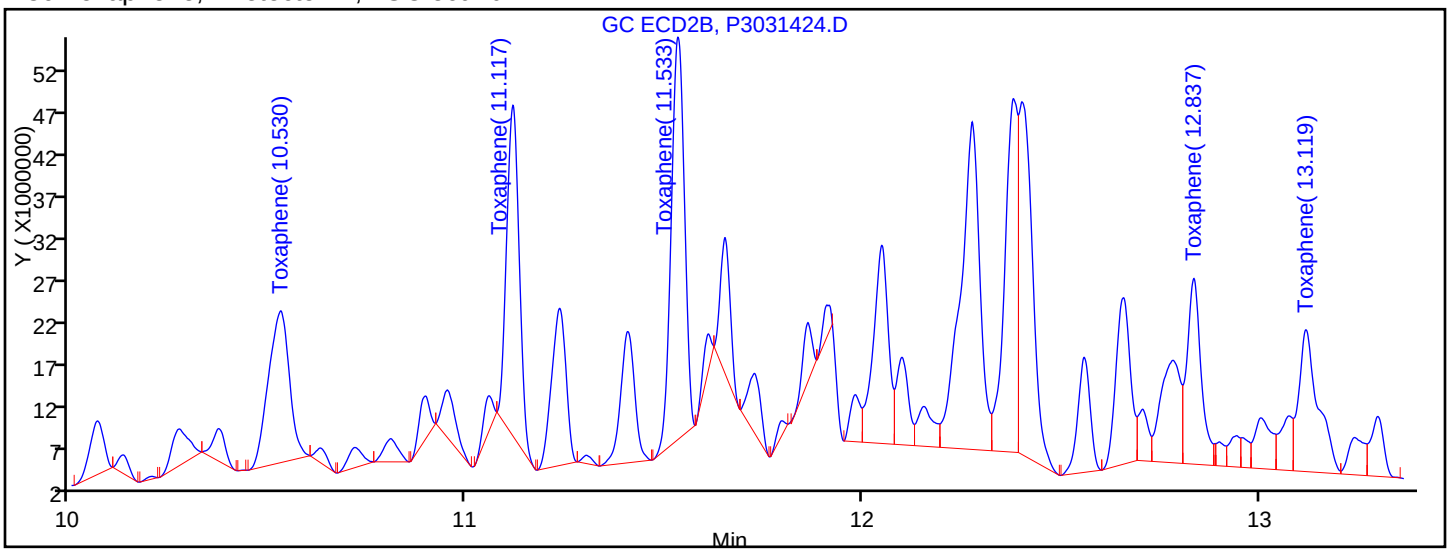
Report Date: 15-Mar-2013 07:54:50 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031424.D

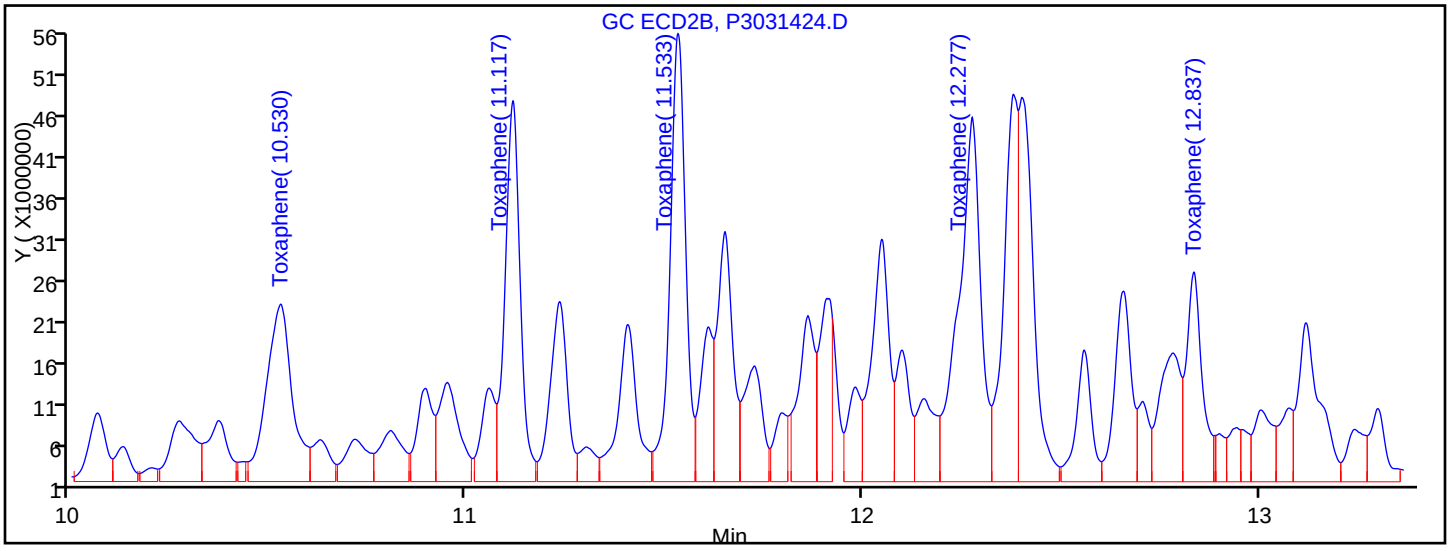
Injection Date:	14-Mar-2013 18:00:27	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	24
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 2, GC ecd2b



Processing Integration Results

RT = 10.530	Response = 66451035	M
RT = 11.117	Response = 86905564	M
RT = 11.533	Response = 111786784	M
RT = 12.837	Response = 54466868	M
RT = 13.119	Response = 57371553	M



Manual Integration Results

RT = 10.530	Response = 96812641	M
RT = 11.117	Response = 121391530	M
RT = 11.533	Response = 147899283	M
RT = 12.277	Response = 171218541	M
RT = 12.837	Response = 68962047	M

Reviewer: shockr, 15-Mar-2013 07:28:30

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: PEM 240-79056/4 Calibration Date: 03/21/2013 15:36

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 14:20

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/14/2013 16:00

Lab File ID: P3032104.D Conc. Units: ng/uL

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	8.95	60599426	3.28	15	
Endrin aldehyde	10.19	563517			
Endrin ketone	11.31	1488486			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	9.82	102086036	3.38	15	
4,4'-DDD	9.30	3376299			
4,4'-DDE	8.03	196731			

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032104.D
Lims ID: PEM Client ID:
Inject. Date: 21-Mar-2013 15:36:19 Dil. Factor: 1.0000
Sample Type: PEM
Sample ID: 240-0018156-004
Misc. Info.:
Operator: 093905 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 4
Lims Batch ID: 79056 Lims Sample ID: 4
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130321-18156.b\PEST3.m
Last Update: 22-Mar-2013 07:46:54 Calib Date: 18-Mar-2013 13:40:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130318-18048.b\P3031810.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK006

First Level Reviewer: vandorenc Date: 22-Mar-2013 06:56:08

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.557	3.562	-0.005	20988555	0.0191			
2	100	4.181	4.181	0.000	11012841	0.0182			
						RPD = 4.52			
5 alpha-BHC									
1	100	4.248	4.253	-0.005	14639040	0.009016			
2	100	5.069	5.071	-0.002	7084489	0.009202			
						RPD = 2.04			
20 gamma-BHC (Lindane)									
1	100	4.634	4.639	-0.005	13528954	0.009297			
2	100	5.689	5.692	-0.003	6562631	0.009693			
						RPD = 4.17			
7 beta-BHC									
1	100	4.768	4.774	-0.006	6389698	0.0103			
2	100	5.884	5.888	-0.004	3290853	0.0111			
						RPD = 7.43			
2 4,4'-DDE									M
1	100	8.034	8.050	-0.016	196731	0.000155			M
2	100	9.943	9.947	-0.004	86435	0.000142			M
						RPD = 9.16			
17 Endrin									
1	100	8.949	8.960	-0.011	60599426	0.0510			
2	100	10.612	10.614	-0.002	28989727	0.0541			
						RPD = 5.99			
1 4,4'-DDD									
1	100	9.304	9.313	-0.009	3376299	0.003480			
2	100	10.934	10.938	-0.004	1579776	0.003695			
						RPD = 6.01			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 4,4'-DDT									
1	100	9.822	9.831	-0.009	102086036	0.1107			
2	100	11.415	11.418	-0.003	43744112	0.1106			
						RPD = 0.10			
18 Endrin aldehyde									M
1	100	10.190	10.197	-0.007	563517	0.000640			7
2	100	11.535	11.540	-0.005	147836	0.000374			7M
						RPD = 52.39			
LOD = 0.000500									
27 Methoxychlor									
1	100		10.776						
2	100		12.493						
19 Endrin ketone									
1	100	11.310	11.318	-0.008	1488486	0.001300			
2	100	12.703	12.705	-0.002	885767	0.001766			
						RPD = 30.37			

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
M - Manually Integrated

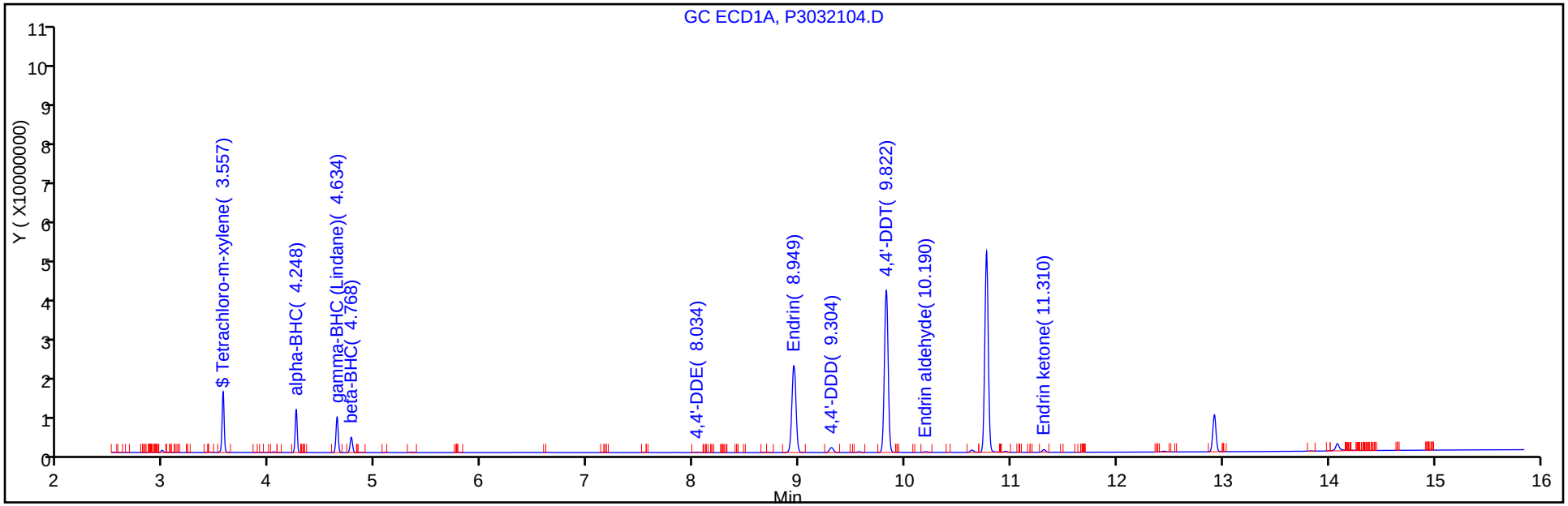
Report Date: 22-Mar-2013 07:46:55 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

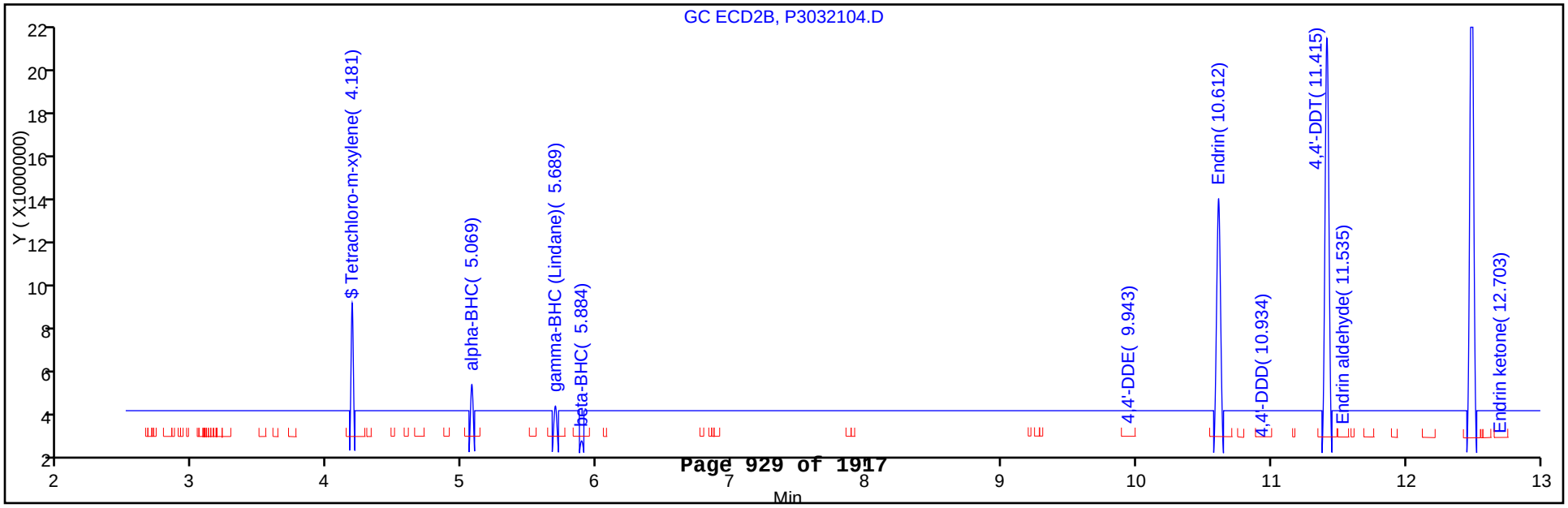
Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032104.D

Injection Date:	21-Mar-2013 15:36:19	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	4
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

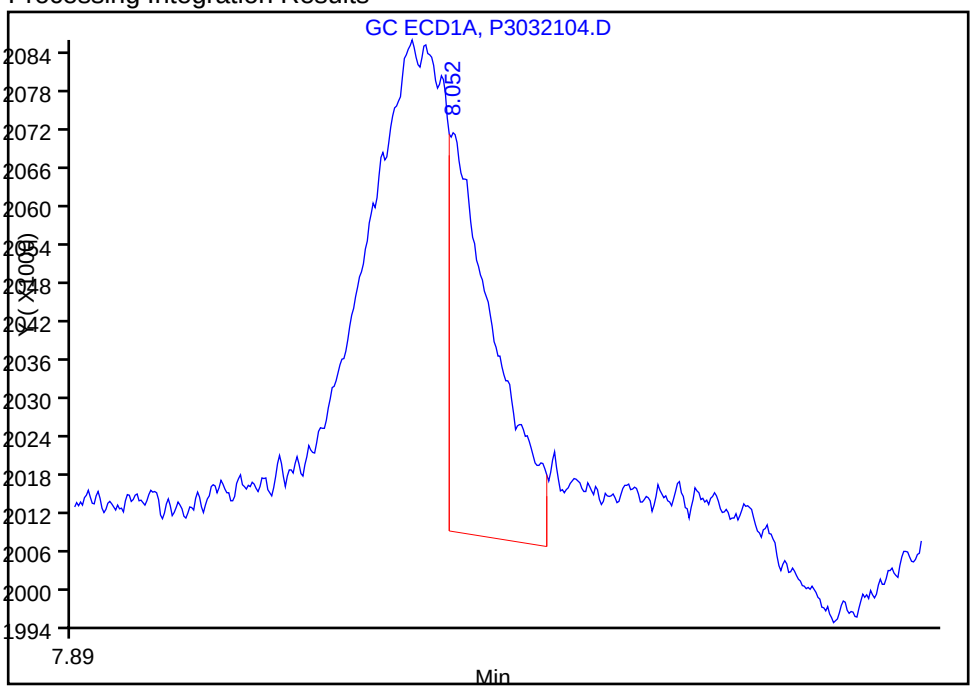
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032104.D		
Injection Date:	21-Mar-2013 15:36:19	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	4
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

2 4,4'-DDE, Signal: 1, Type: quant, RT: 8.05, Det: GC ECD1A

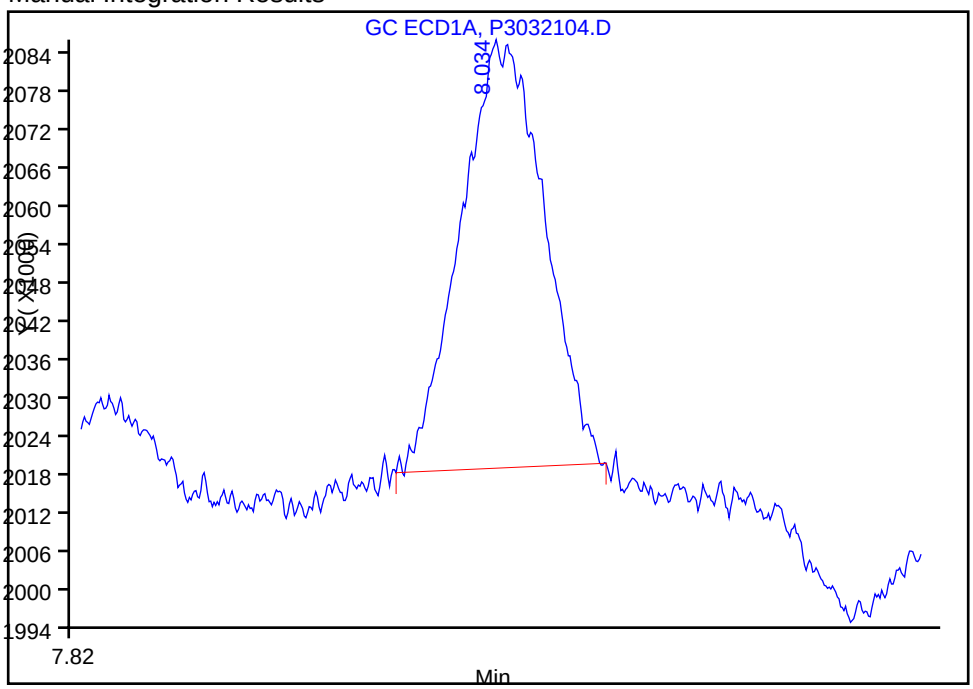
Processing Integration Results

RT: 8.05
Response: 81292
Amount: 0.000064



Manual Integration Results

RT: 8.03
Response: 196731
Amount: 0.000155



Reviewer: vandorenc, 22-Mar-2013 06:56:08
Audit Action: Manually Integrated
Audit Reason: Baseline Event

Manual Integration/User Assign Peak Report

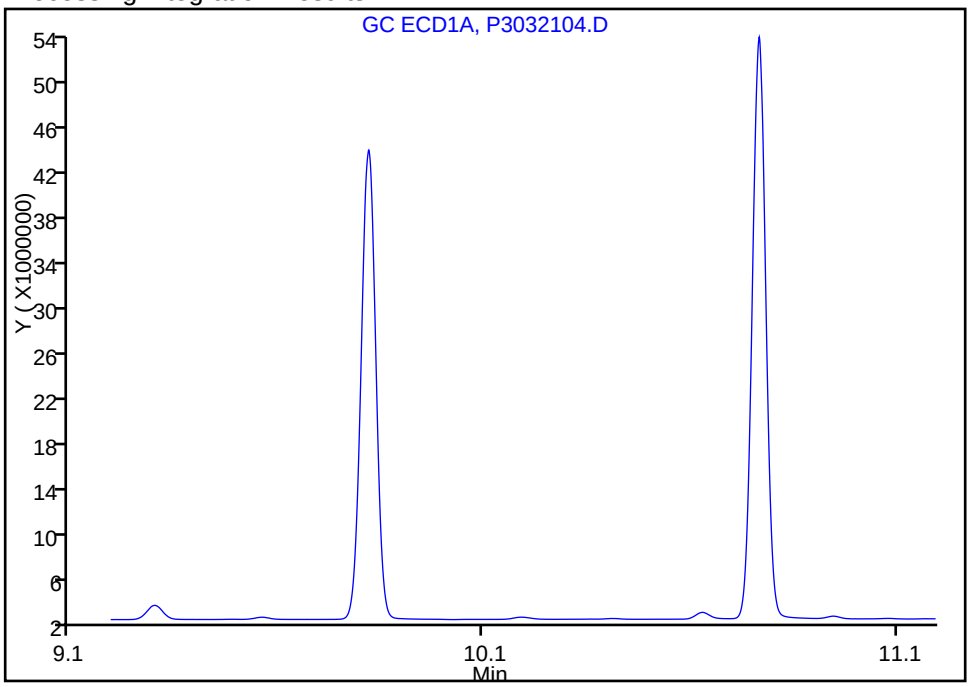
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032104.D		
Injection Date:	21-Mar-2013 15:36:19	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	4
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

18 Endrin aldehyde, Signal: 1, Type: quant, RT: 10.20, Det: GC ECD1A

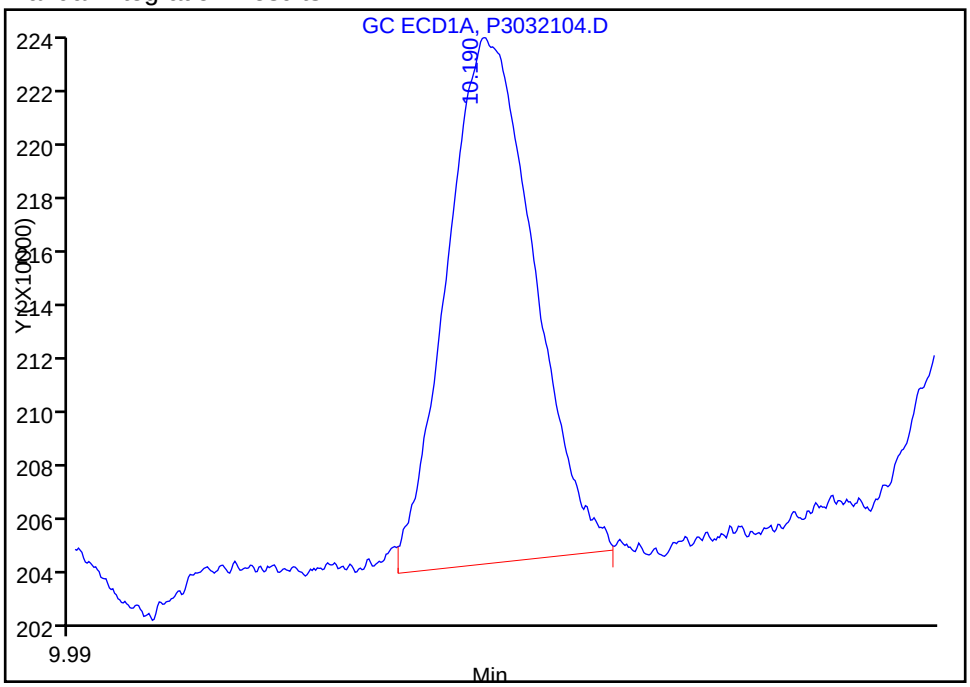
Not Detected
Expected RT: 10.20

Processing Integration Results



Manual Integration Results

RT: 10.19
Response: 563517
Amount: 0.000640



Reviewer: vandorenc, 22-Mar-2013 06:56:08
Audit Action: Assigned Compound ID
Audit Reason: Baseline Event

FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: PEM 240-79056/4 Calibration Date: 03/21/2013 15:36

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 14:20

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/14/2013 16:00

Lab File ID: P3032104.D Conc. Units: ng/uL

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	10.61	28989727	3.44	15	
Endrin aldehyde	11.54	147836			
Endrin ketone	12.70	885767			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	11.42	43744112	3.67	15	
4,4'-DDD	10.93	1579776			
4,4'-DDE	9.94	86435			

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032104.D
Lims ID: PEM Client ID:
Inject. Date: 21-Mar-2013 15:36:19 Dil. Factor: 1.0000
Sample Type: PEM
Sample ID: 240-0018156-004
Misc. Info.:
Operator: 093905 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 4
Lims Batch ID: 79056 Lims Sample ID: 4
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130321-18156.b\PEST3.m
Last Update: 22-Mar-2013 07:46:54 Calib Date: 18-Mar-2013 13:40:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130318-18048.b\P3031810.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK006

First Level Reviewer: vandorenc Date: 22-Mar-2013 06:56:08

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.557	3.562	-0.005	20988555	0.0191			
2	100	4.181	4.181	0.000	11012841	0.0182			
						RPD = 4.52			
5 alpha-BHC									
1	100	4.248	4.253	-0.005	14639040	0.009016			
2	100	5.069	5.071	-0.002	7084489	0.009202			
						RPD = 2.04			
20 gamma-BHC (Lindane)									
1	100	4.634	4.639	-0.005	13528954	0.009297			
2	100	5.689	5.692	-0.003	6562631	0.009693			
						RPD = 4.17			
7 beta-BHC									
1	100	4.768	4.774	-0.006	6389698	0.0103			
2	100	5.884	5.888	-0.004	3290853	0.0111			
						RPD = 7.43			
2 4,4'-DDE									M
1	100	8.034	8.050	-0.016	196731	0.000155			M
2	100	9.943	9.947	-0.004	86435	0.000142			M
						RPD = 9.16			
17 Endrin									
1	100	8.949	8.960	-0.011	60599426	0.0510			
2	100	10.612	10.614	-0.002	28989727	0.0541			
						RPD = 5.99			
1 4,4'-DDD									
1	100	9.304	9.313	-0.009	3376299	0.003480			
2	100	10.934	10.938	-0.004	1579776	0.003695			
						RPD = 6.01			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 4,4'-DDT									
1	100	9.822	9.831	-0.009	102086036	0.1107			
2	100	11.415	11.418	-0.003	43744112	0.1106			
						RPD = 0.10			
18 Endrin aldehyde									M
1	100	10.190	10.197	-0.007	563517	0.000640			7
2	100	11.535	11.540	-0.005	147836	0.000374			7M
						RPD = 52.39			
LOD = 0.000500									
27 Methoxychlor									
1	100		10.776						
2	100		12.493						
19 Endrin ketone									
1	100	11.310	11.318	-0.008	1488486	0.001300			
2	100	12.703	12.705	-0.002	885767	0.001766			
						RPD = 30.37			

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
M - Manually Integrated

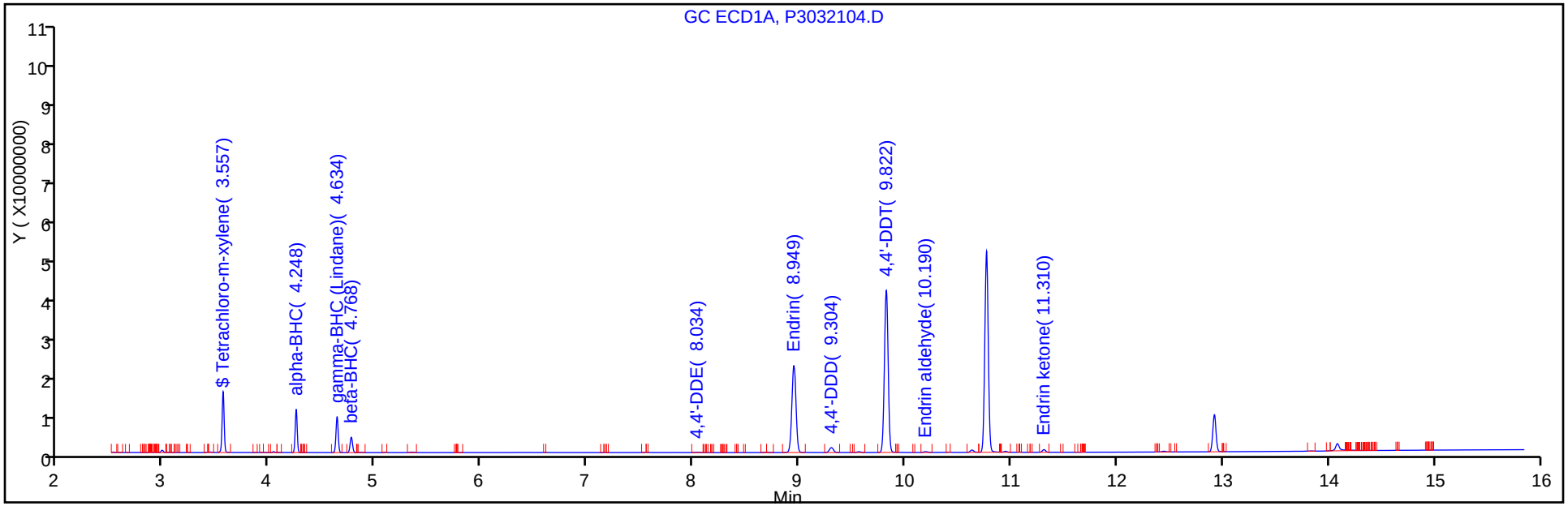
Report Date: 22-Mar-2013 07:46:55 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

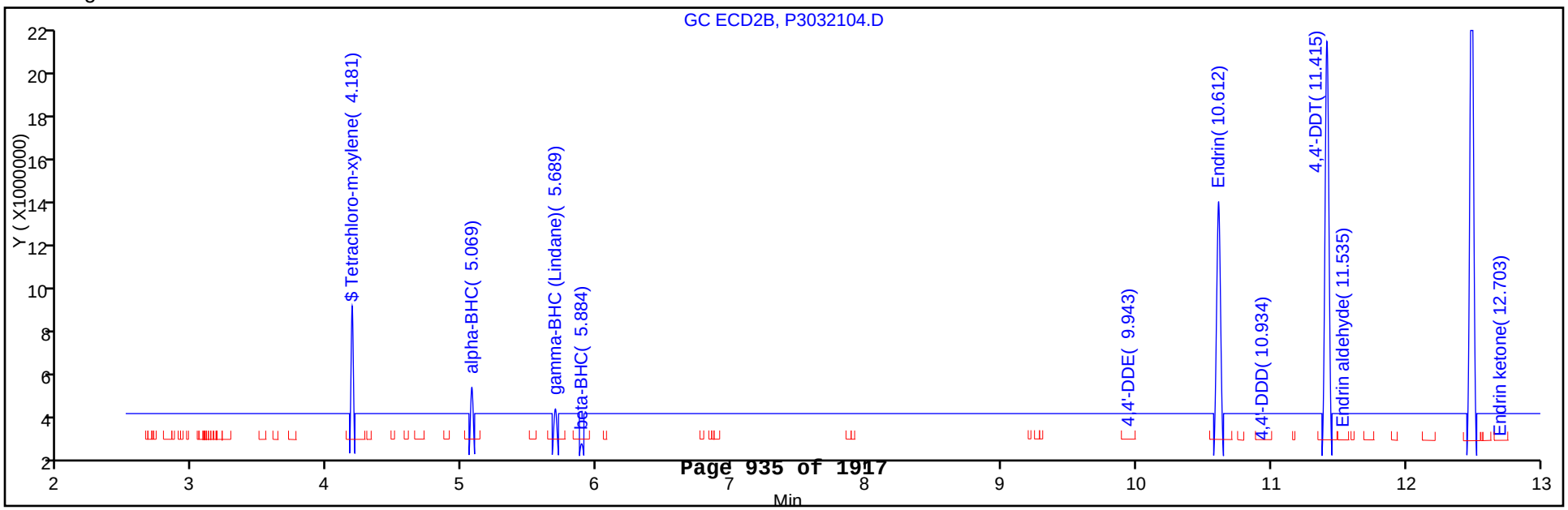
Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032104.D

Injection Date:	21-Mar-2013 15:36:19	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	4
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

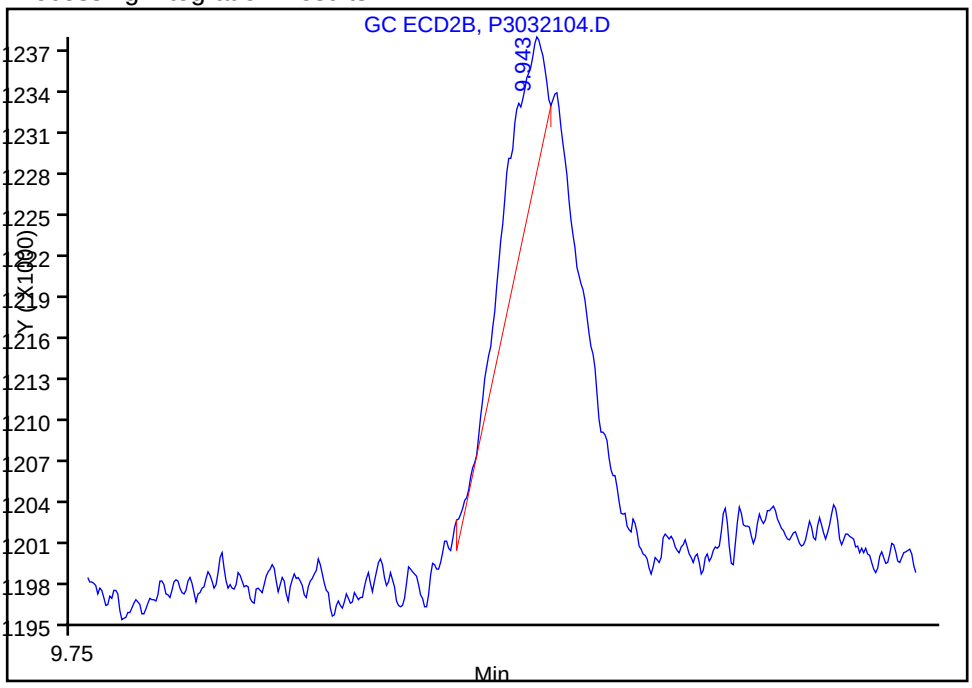
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032104.D		
Injection Date:	21-Mar-2013 15:36:19	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	4
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

2 4,4'-DDE, Signal: 2, Type: quant, RT: 9.95, Det: GC ecd2b

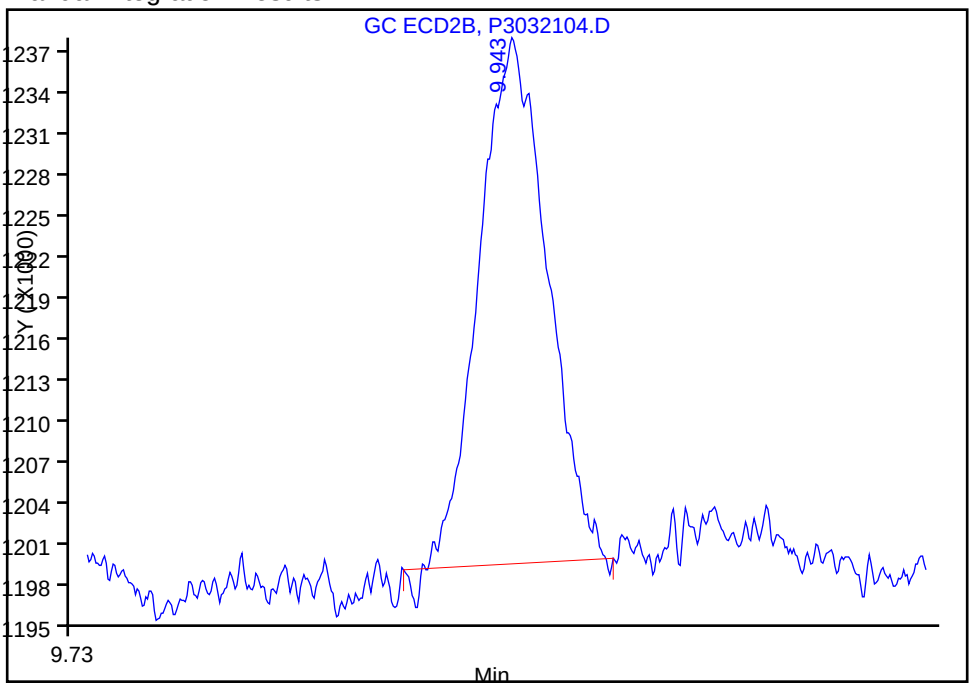
Processing Integration Results

RT: 9.94
Response: 13162
Amount: 0.000022



Manual Integration Results

RT: 9.94
Response: 86435
Amount: 0.000142



Reviewer: vandorenc, 22-Mar-2013 06:56:08
Audit Action: Manually Integrated
Audit Reason: Baseline Event

Manual Integration/User Assign Peak Report

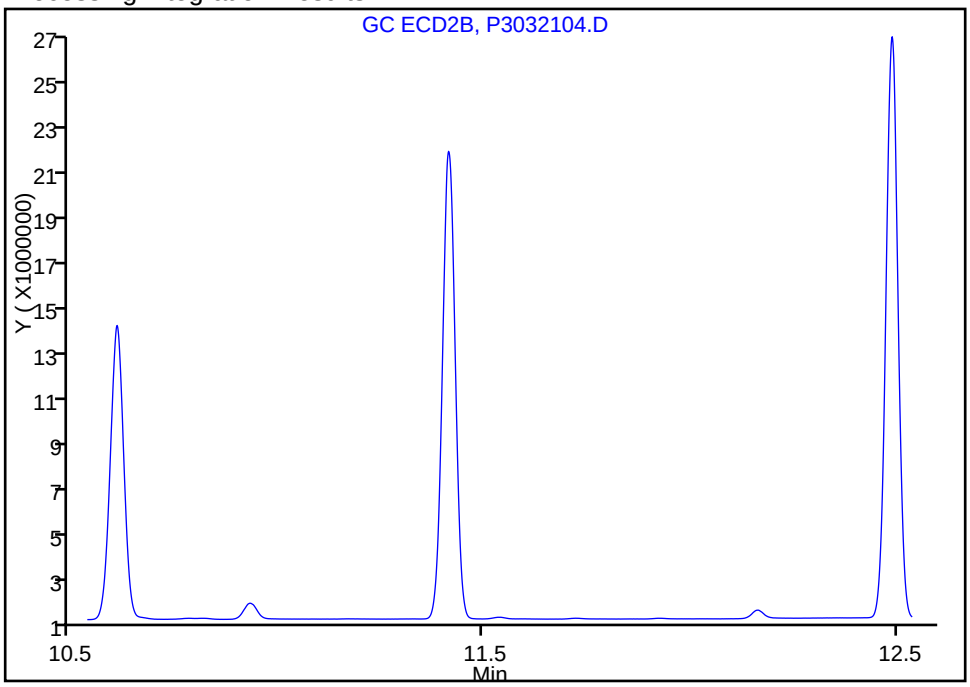
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032104.D		
Injection Date:	21-Mar-2013 15:36:19	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	4
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

18 Endrin aldehyde, Signal: 2, Type: quant, RT: 11.54, Det: GC ecd2b

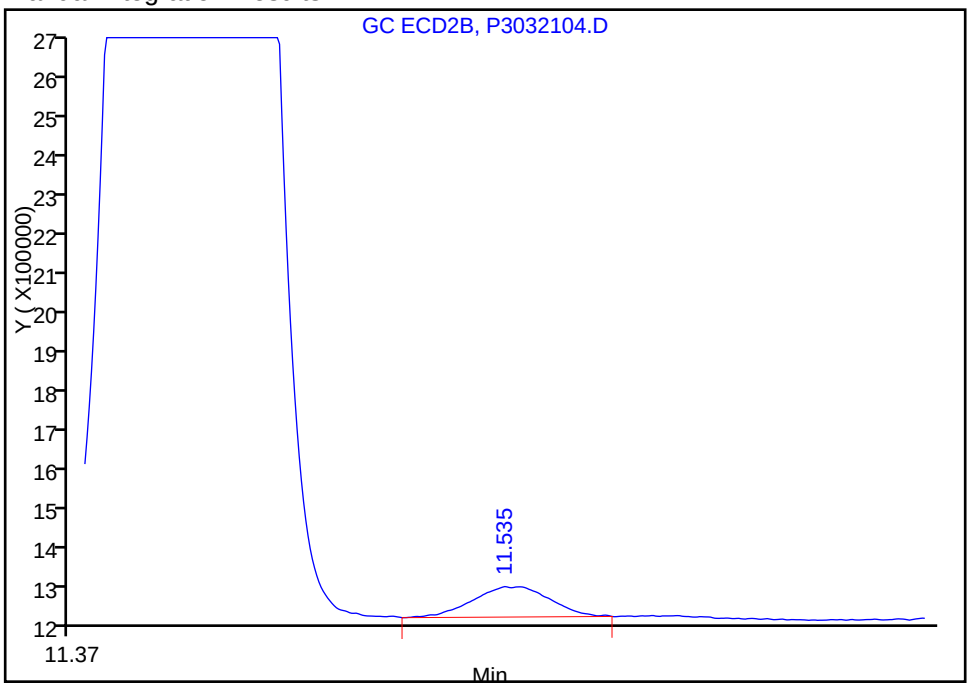
Processing Integration Results

Not Detected
Expected RT: 11.54



Manual Integration Results

RT: 11.54
Response: 147836
Amount: 0.000374



Reviewer: vandorenc, 22-Mar-2013 06:56:08
Audit Action: Manually Integrated/Assigned Compound ID
Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-78295/19 Calibration Date: 03/14/2013 16:20

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 14:20

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/14/2013 16:00

Lab File ID: P3031419.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1623707372	1657587240		0.0255	0.0250	2.1	20.0
gamma-BHC (Lindane)	Ave	1455203462	1481817360		0.0255	0.0250	1.8	20.0
beta-BHC	Ave	618486639	622075960		0.0251	0.0250	0.6	20.0
delta-BHC	Ave	1480196914	1511043880		0.0255	0.0250	2.1	20.0
Heptachlor	Ave	1288059053	1306268120		0.0254	0.0250	1.4	20.0
Aldrin	Ave	1359987606	1402096240		0.0258	0.0250	3.1	20.0
Heptachlor epoxide	Ave	1229987574	1235797240		0.0251	0.0250	0.5	20.0
gamma-Chlordane	Ave	1263492565	1263679720		0.0250	0.0250	0.0	20.0
alpha-Chlordane	Ave	1289702829	1260713000		0.0244	0.0250	-2.2	20.0
Endosulfan I	Ave	1152636801	1161963920		0.0252	0.0250	0.8	20.0
4,4'-DDE	Ave	1266505227	1264201160		0.0250	0.0250	-0.2	20.0
Dieldrin	Ave	1268423751	1270559640		0.0250	0.0250	0.2	20.0
Endrin	Ave	1189138903	1165252080		0.0245	0.0250	-2.0	20.0
4,4'-DDD	Ave	970323691	966925320		0.0249	0.0250	-0.4	20.0
Endosulfan II	Ave	1094573989	1088347480		0.0249	0.0250	-0.6	20.0
4,4'-DDT	Ave	922210777	935210280		0.0254	0.0250	1.4	20.0
Endrin aldehyde	Ave	880698493	871829840		0.0247	0.0250	-1.0	20.0
Methoxychlor	Ave	461419504	466384360		0.0253	0.0250	1.1	20.0
Endosulfan sulfate	Ave	981061458	986783840		0.0251	0.0250	0.6	20.0
Endrin ketone	Ave	1144648217	1116671120		0.0244	0.0250	-2.4	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-78295/19 Calibration Date: 03/14/2013 16:20

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 14:20

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/14/2013 16:00

Lab File ID: P3031419.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.26	4.23	4.29
gamma-BHC (Lindane)	4.64	4.61	4.67
beta-BHC	4.78	4.75	4.81
delta-BHC	5.00	4.97	5.03
Heptachlor	5.29	5.26	5.32
Aldrin	5.76	5.73	5.79
Heptachlor epoxide	7.04	7.01	7.07
gamma-Chlordane	7.35	7.33	7.39
alpha-Chlordane	7.70	7.67	7.73
Endosulfan I	7.97	7.94	8.00
4,4'-DDE	8.06	8.03	8.09
Dieldrin	8.52	8.49	8.55
Endrin	8.97	8.94	9.00
4,4'-DDD	9.32	9.29	9.35
Endosulfan II	9.41	9.38	9.44
4,4'-DDT	9.84	9.81	9.87
Endrin aldehyde	10.20	10.17	10.23
Methoxychlor	10.78	10.75	10.81
Endosulfan sulfate	10.92	10.90	10.96
Endrin ketone	11.32	11.29	11.35

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031419.D
Lims ID: ICV Client ID:
Inject. Date: 14-Mar-2013 16:20:26 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0017984-019
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 19
Lims Batch ID: 78295 Lims Sample ID: 19
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m
Last Update: 15-Mar-2013 07:54:39 Calib Date: 14-Mar-2013 20:00:25
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK032

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 alpha-BHC									
1	100	4.255	4.255	0.000	41439681	0.0255			
2	100	5.068	5.068	0.000	19171424	0.0249			
						RPD = 2.46			
20 gamma-BHC (Lindane)									
1	100	4.643	4.643	0.000	37045434	0.0255			
2	100	5.688	5.688	0.000	16712092	0.0247			
						RPD = 3.09			
7 beta-BHC									
1	100	4.777	4.777	0.000	15551899	0.0251			
2	100	5.883	5.883	0.000	7375532	0.0249			
						RPD = 0.81			
11 delta-BHC									
1	100	4.998	4.999	-0.001	37776097	0.0255			
2	100	6.507	6.508	-0.001	17185298	0.0247			
						RPD = 3.25			
22 Heptachlor									
1	100	5.293	5.293	0.000	32656703	0.0254			
2	100	6.579	6.580	-0.001	14171302	0.0243			
						RPD = 4.21			
4 Aldrin									
1	100	5.761	5.761	0.000	35052406	0.0258			
2	100	7.381	7.382	-0.001	16713132	0.0251			
						RPD = 2.68			
23 Heptachlor epoxide									
1	100	7.038	7.039	-0.001	30894931	0.0251			
2	100	8.820	8.821	-0.001	14386509	0.0247			
						RPD = 1.48			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
21 gamma-Chlordane									
1	100	7.353	7.355	-0.002	31591993	0.0250			
2	100	9.210	9.210	0.000	14442979	0.0246			
						RPD = 1.54			
6 alpha-Chlordane									
1	100	7.697	7.695	0.002	31517825	0.0244			
2	100	9.512	9.511	0.001	14616654	0.0239			
						RPD = 2.02			
14 Endosulfan I									
1	100	7.967	7.965	0.002	29049098	0.0252			
2	100	9.578	9.578	0.000	13055420	0.0246			
						RPD = 2.54			
2 4,4'-DDE									
1	100	8.058	8.060	-0.002	31605029	0.0250			
2	100	9.940	9.940	0.000	14935409	0.0245			
						RPD = 1.88			
13 Dieldrin									
1	100	8.516	8.517	-0.001	31763991	0.0250			
2	100	10.092	10.092	0.000	14573820	0.0245			
						RPD = 2.11			
17 Endrin									
1	100	8.967	8.966	0.001	29131302	0.0245			
2	100	10.607	10.608	-0.001	12970695	0.0242			
						RPD = 1.19			
1 4,4'-DDD									
1	100	9.320	9.318	0.002	24173133	0.0249			
2	100	10.931	10.930	0.001	10526065	0.0246			
						RPD = 1.18			
15 Endosulfan II									
1	100	9.412	9.411	0.001	27208687	0.0249			
2	100	10.975	10.975	0.000	11765233	0.0242			
						RPD = 2.54			
3 4,4'-DDT									
1	100	9.835	9.835	0.000	23380257	0.0254			
2	100	11.412	11.410	0.002	9853382	0.0249			
						RPD = 1.76			
18 Endrin aldehyde									
1	100	10.202	10.201	0.001	21795746	0.0247			
2	100	11.532	11.532	0.000	9579162	0.0242			
						RPD = 2.05			
27 Methoxychlor									
1	100	10.782	10.780	0.002	11659609	0.0253			
2	100	12.487	12.487	0.000	4975273	0.0249			
						RPD = 1.32			
16 Endosulfan sulfate									
1	100	10.924	10.925	-0.001	24669596	0.0251			
2	100	11.949	11.948	0.001	10968685	0.0248			
						RPD = 1.37			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
19 Endrin ketone									
1	100	11.322	11.322	0.000	27916778	0.0244			
2	100	12.699	12.699	0.000	11934924	0.0238			
						RPD = 2.46			

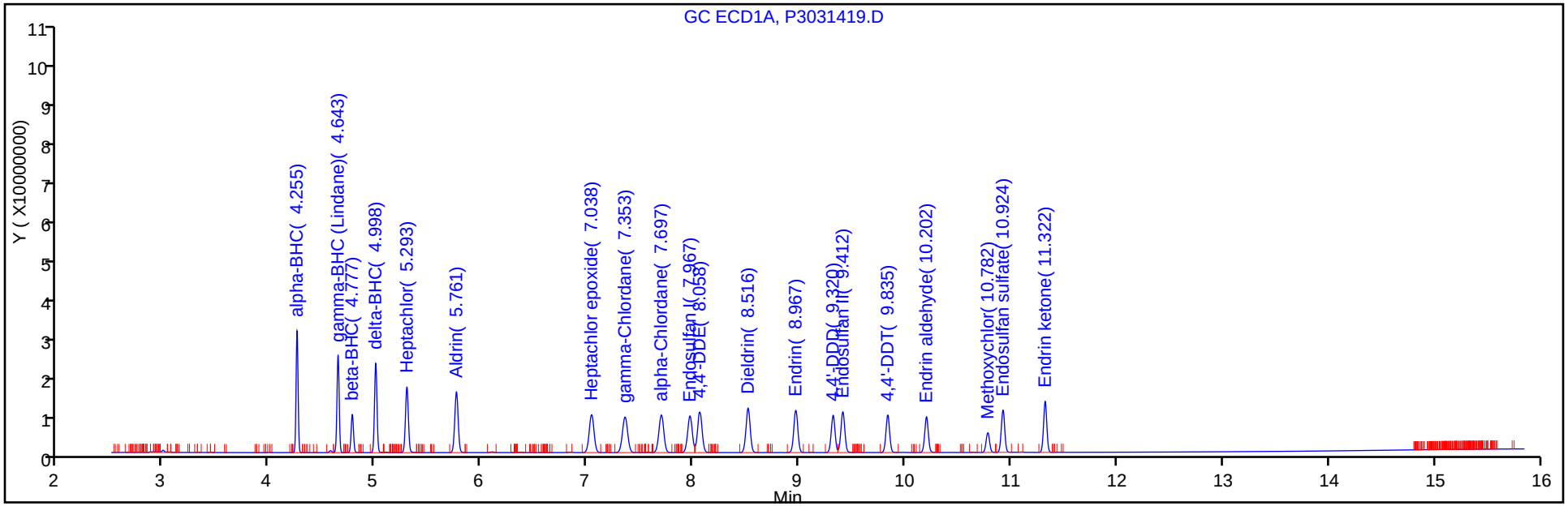
Report Date: 15-Mar-2013 07:54:42 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

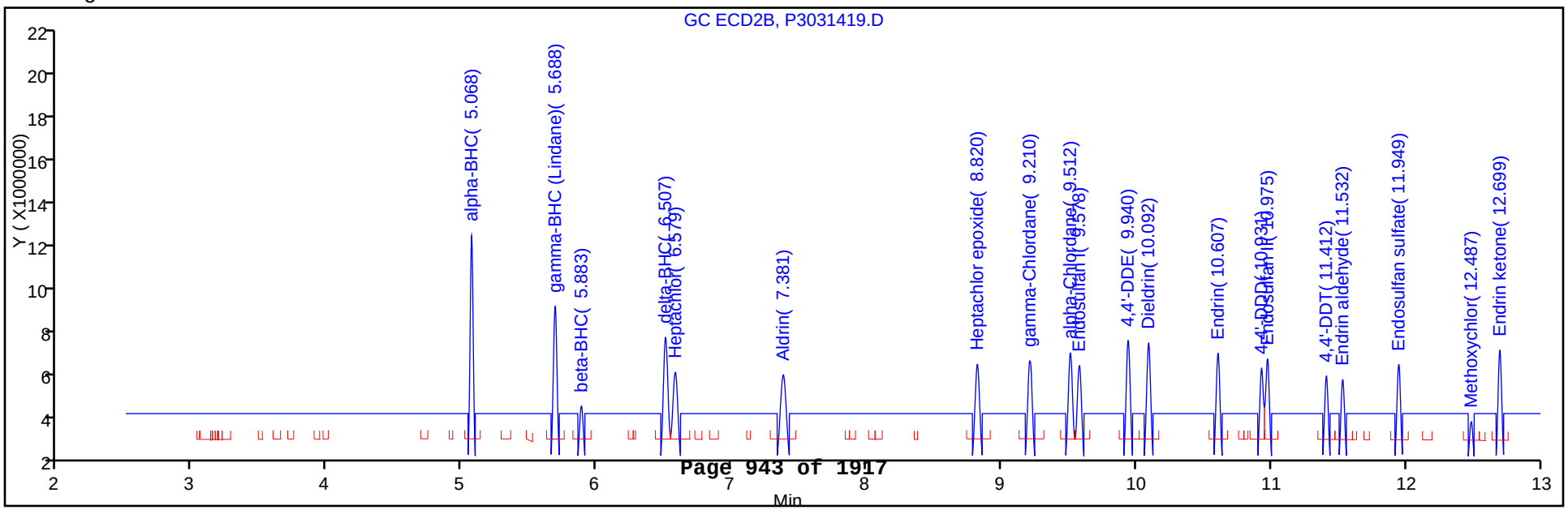
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031419.D

Injection Date:	14-Mar-2013 16:20:26	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	19
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-78295/19 Calibration Date: 03/14/2013 16:20

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 14:20

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/14/2013 16:00

Lab File ID: P3031419.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	769922401	766856960		0.0249	0.0250	-0.4	20.0
gamma-BHC (Lindane)	Ave	677058072	668483680		0.0247	0.0250	-1.3	20.0
beta-BHC	Ave	295707343	295021280		0.0249	0.0250	-0.2	20.0
delta-BHC	Ave	695621800	687411920		0.0247	0.0250	-1.2	20.0
Heptachlor	Ave	582970513	566852080		0.0243	0.0250	-2.8	20.0
Aldrin	Ave	666083583	668525280		0.0251	0.0250	0.4	20.0
Heptachlor epoxide	Ave	581320598	575460360		0.0247	0.0250	-1.0	20.0
gamma-Chlordane	Ave	586604093	577719160		0.0246	0.0250	-1.5	20.0
alpha-Chlordane	Ave	610326008	584666160		0.0239	0.0250	-4.2	20.0
Endosulfan I	Ave	531325762	522216800		0.0246	0.0250	-1.7	20.0
4,4'-DDE	Ave	609850598	597416360		0.0245	0.0250	-2.0	20.0
Dieldrin	Ave	594383876	582952800		0.0245	0.0250	-1.9	20.0
Endrin	Ave	535793583	518827800		0.0242	0.0250	-3.2	20.0
4,4'-DDD	Ave	427546511	421042600		0.0246	0.0250	-1.5	20.0
Endosulfan II	Ave	485472127	470609320		0.0242	0.0250	-3.1	20.0
4,4'-DDT	Ave	395546624	394135280		0.0249	0.0250	-0.4	20.0
Endrin aldehyde	Ave	395073591	383166480		0.0242	0.0250	-3.0	20.0
Endosulfan sulfate	Ave	442236050	438747400		0.0248	0.0250	-0.8	20.0
Methoxychlor	Ave	199518519	199010920		0.0249	0.0250	-0.3	20.0
Endrin ketone	Ave	501538938	477396960		0.0238	0.0250	-4.8	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-78295/19 Calibration Date: 03/14/2013 16:20

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 14:20

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/14/2013 16:00

Lab File ID: P3031419.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.07	5.04	5.10
gamma-BHC (Lindane)	5.69	5.66	5.72
beta-BHC	5.88	5.85	5.91
delta-BHC	6.51	6.48	6.54
Heptachlor	6.58	6.55	6.61
Aldrin	7.38	7.35	7.41
Heptachlor epoxide	8.82	8.79	8.85
gamma-Chlordane	9.21	9.18	9.24
alpha-Chlordane	9.51	9.48	9.54
Endosulfan I	9.58	9.55	9.61
4,4'-DDE	9.94	9.91	9.97
Dieldrin	10.09	10.06	10.12
Endrin	10.61	10.58	10.64
4,4'-DDD	10.93	10.90	10.96
Endosulfan II	10.98	10.95	11.01
4,4'-DDT	11.41	11.38	11.44
Endrin aldehyde	11.53	11.50	11.56
Endosulfan sulfate	11.95	11.92	11.98
Methoxychlor	12.49	12.46	12.52
Endrin ketone	12.70	12.67	12.73

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031419.D
Lims ID: ICV Client ID:
Inject. Date: 14-Mar-2013 16:20:26 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0017984-019
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 19
Lims Batch ID: 78295 Lims Sample ID: 19
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m
Last Update: 15-Mar-2013 07:54:39 Calib Date: 14-Mar-2013 20:00:25
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK032

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 alpha-BHC									
1	100	4.255	4.255	0.000	41439681	0.0255			
2	100	5.068	5.068	0.000	19171424	0.0249			
						RPD = 2.46			
20 gamma-BHC (Lindane)									
1	100	4.643	4.643	0.000	37045434	0.0255			
2	100	5.688	5.688	0.000	16712092	0.0247			
						RPD = 3.09			
7 beta-BHC									
1	100	4.777	4.777	0.000	15551899	0.0251			
2	100	5.883	5.883	0.000	7375532	0.0249			
						RPD = 0.81			
11 delta-BHC									
1	100	4.998	4.999	-0.001	37776097	0.0255			
2	100	6.507	6.508	-0.001	17185298	0.0247			
						RPD = 3.25			
22 Heptachlor									
1	100	5.293	5.293	0.000	32656703	0.0254			
2	100	6.579	6.580	-0.001	14171302	0.0243			
						RPD = 4.21			
4 Aldrin									
1	100	5.761	5.761	0.000	35052406	0.0258			
2	100	7.381	7.382	-0.001	16713132	0.0251			
						RPD = 2.68			
23 Heptachlor epoxide									
1	100	7.038	7.039	-0.001	30894931	0.0251			
2	100	8.820	8.821	-0.001	14386509	0.0247			
						RPD = 1.48			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
21 gamma-Chlordane									
1	100	7.353	7.355	-0.002	31591993	0.0250			
2	100	9.210	9.210	0.000	14442979	0.0246			
						RPD = 1.54			
6 alpha-Chlordane									
1	100	7.697	7.695	0.002	31517825	0.0244			
2	100	9.512	9.511	0.001	14616654	0.0239			
						RPD = 2.02			
14 Endosulfan I									
1	100	7.967	7.965	0.002	29049098	0.0252			
2	100	9.578	9.578	0.000	13055420	0.0246			
						RPD = 2.54			
2 4,4'-DDE									
1	100	8.058	8.060	-0.002	31605029	0.0250			
2	100	9.940	9.940	0.000	14935409	0.0245			
						RPD = 1.88			
13 Dieldrin									
1	100	8.516	8.517	-0.001	31763991	0.0250			
2	100	10.092	10.092	0.000	14573820	0.0245			
						RPD = 2.11			
17 Endrin									
1	100	8.967	8.966	0.001	29131302	0.0245			
2	100	10.607	10.608	-0.001	12970695	0.0242			
						RPD = 1.19			
1 4,4'-DDD									
1	100	9.320	9.318	0.002	24173133	0.0249			
2	100	10.931	10.930	0.001	10526065	0.0246			
						RPD = 1.18			
15 Endosulfan II									
1	100	9.412	9.411	0.001	27208687	0.0249			
2	100	10.975	10.975	0.000	11765233	0.0242			
						RPD = 2.54			
3 4,4'-DDT									
1	100	9.835	9.835	0.000	23380257	0.0254			
2	100	11.412	11.410	0.002	9853382	0.0249			
						RPD = 1.76			
18 Endrin aldehyde									
1	100	10.202	10.201	0.001	21795746	0.0247			
2	100	11.532	11.532	0.000	9579162	0.0242			
						RPD = 2.05			
27 Methoxychlor									
1	100	10.782	10.780	0.002	11659609	0.0253			
2	100	12.487	12.487	0.000	4975273	0.0249			
						RPD = 1.32			
16 Endosulfan sulfate									
1	100	10.924	10.925	-0.001	24669596	0.0251			
2	100	11.949	11.948	0.001	10968685	0.0248			
						RPD = 1.37			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
19 Endrin ketone									
1	100	11.322	11.322	0.000	27916778	0.0244			
2	100	12.699	12.699	0.000	11934924	0.0238			
						RPD = 2.46			

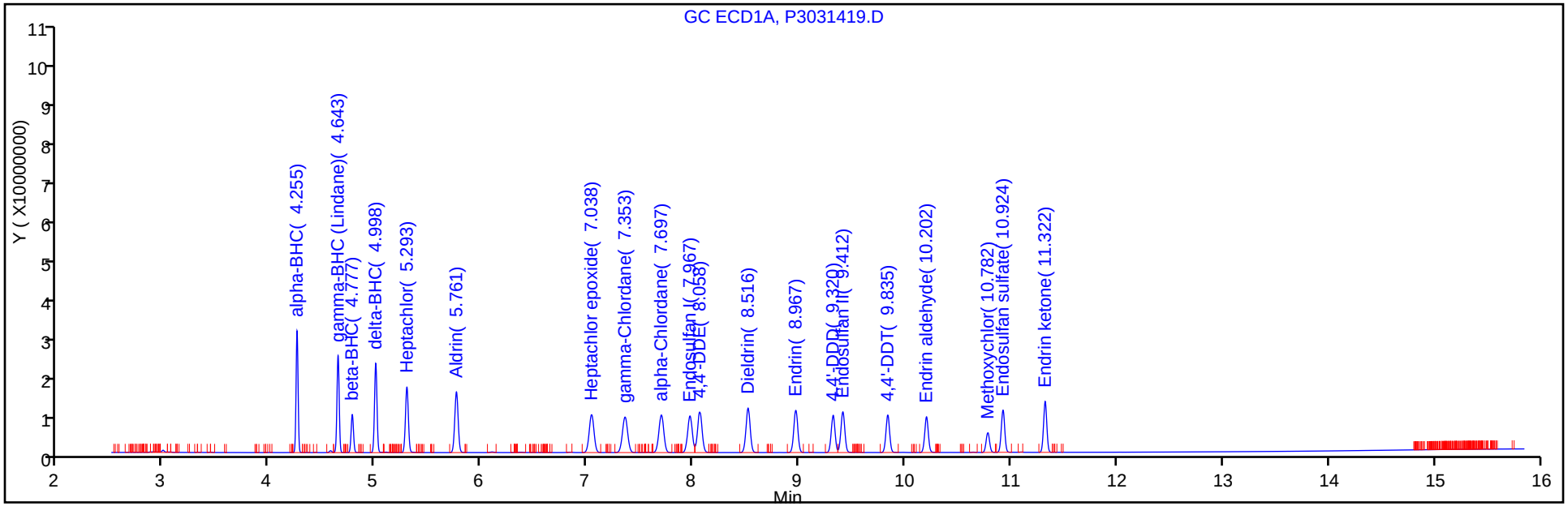
Report Date: 15-Mar-2013 07:54:42 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

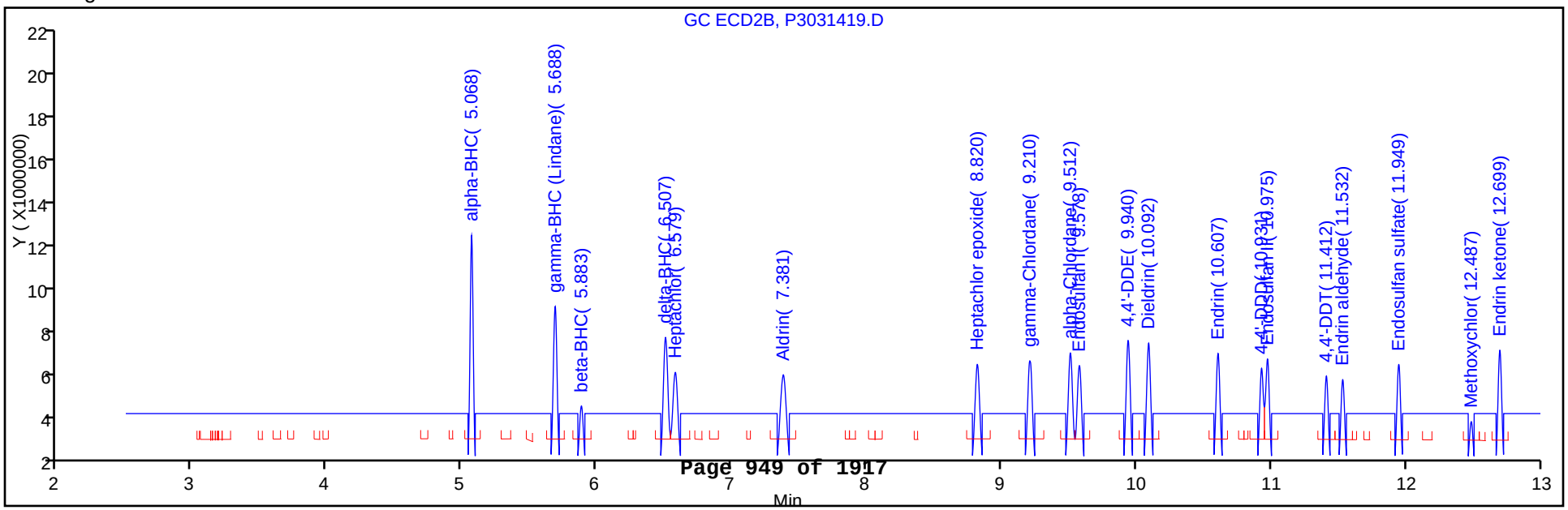
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031419.D

Injection Date:	14-Mar-2013 16:20:26	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	19
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-78295/25 Calibration Date: 03/14/2013 18:20

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 16:40

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/14/2013 18:00

Lab File ID: P3031425.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	48953063	60802538		1.24	1.00	24.2*	20.0
Toxaphene Peak 2	Ave	49795684	56394244		1.13	1.00	13.3	20.0
Toxaphene Peak 3	Ave	41014572	58762037		1.43	1.00	43.3*	20.0
Toxaphene Peak 4	Ave	31176774	48676390		1.56	1.00	56.1*	20.0
Toxaphene Peak 5	Ave	26157631	41188374		1.57	1.00	57.5*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-78295/25 Calibration Date: 03/14/2013 18:20

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 16:40

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/14/2013 18:00

Lab File ID: P3031425.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	10.39	10.36	10.42
Toxaphene Peak 2	10.73	10.70	10.76
Toxaphene Peak 3	10.88	10.85	10.91
Toxaphene Peak 4	11.29	11.26	11.32
Toxaphene Peak 5	11.56	11.53	11.59

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031425.D
Lims ID: ICV
Client ID:
Inject. Date: 14-Mar-2013 18:20:24
Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0017984-025
Misc. Info.:
Operator: 402582
Instrument ID: A2HP3
Injection Vol: 1.0 ul
ALS Bottle#: 25
Lims Batch ID: 78295
Lims Sample ID: 25
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m
Last Update: 15-Mar-2013 07:54:49
Calib Date: 14-Mar-2013 20:00:25
Quant Method: External Standard
Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type:
Column Dia:
Process Host: XAWRK032

First Level Reviewer: shockr
Date: 15-Mar-2013 07:29:46

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	1	10.386	10.386	0.000	60802538	1.24		100.0	M
1	2	10.729	10.729	0.000	56394244	1.13	81.1- 121.1	92.7	M
1	3	10.880	10.879	0.001	58762037	1.43	65.0- 105.0	96.6	M
1	4	11.292	11.292	0.000	48676390	1.56	43.1- 83.1	80.1	M
1	5	11.562	11.560	0.002	41188374	1.57	32.5- 72.5	67.7	M
			Average of Peak Amounts =			1.39			
2	100	10.528	10.532	-0.004	15650408	0.9270		100.0	M
2	2	11.115	11.117	-0.002	14476115	0.6722	108.3- 148.3	92.5	M
2	3	11.536	11.535	0.001	16561763	0.6363	134.7- 174.7	105.8	M
2	4	12.836	12.278	0.558	20209953	0.6667	157.2- 197.2	129.1	M
2	5	13.118	12.837	0.281	21049372	1.72	51.7- 91.7	134.5	M
			Average of Peak Amounts =			0.9249			
						RPD = 40.09			

QC Flag Legend

Review Flags
M - Manually Integrated

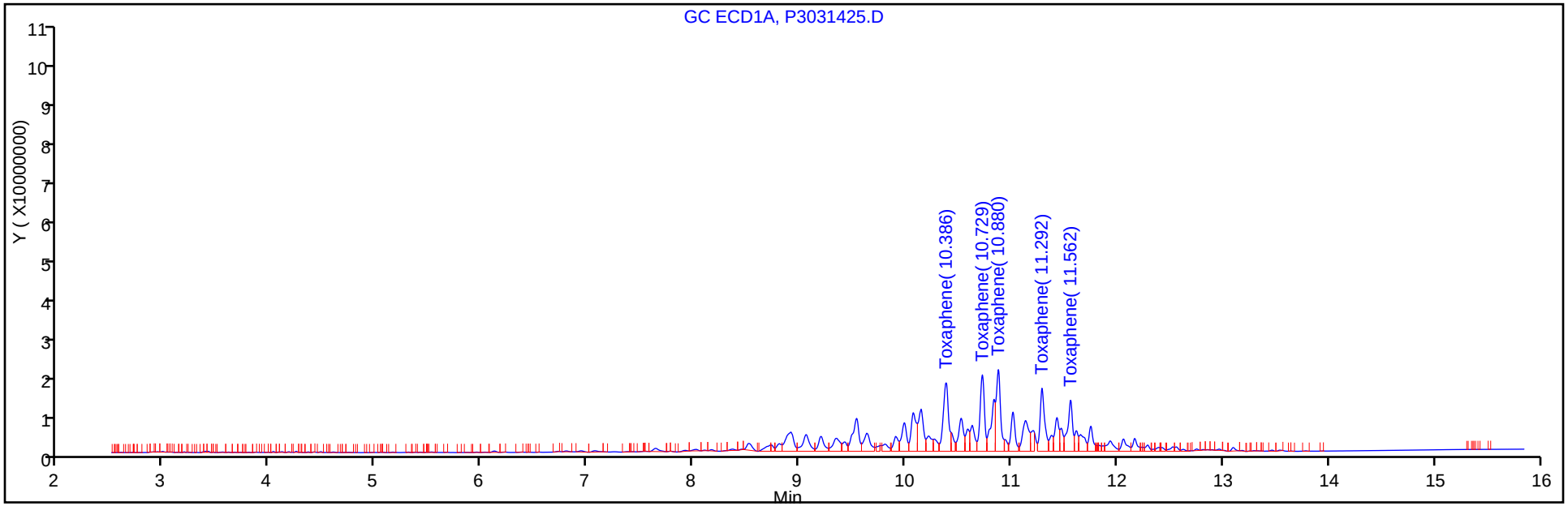
Report Date: 15-Mar-2013 07:54:52 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

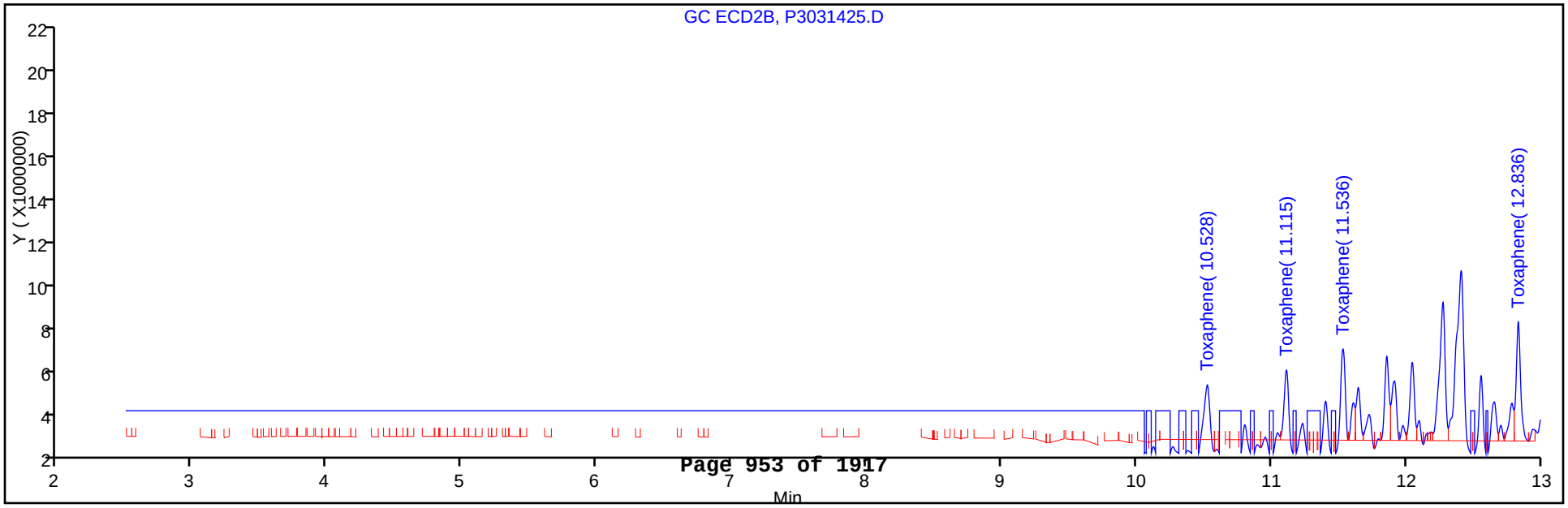
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031425.D

Injection Date:	14-Mar-2013 18:20:24	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	25
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



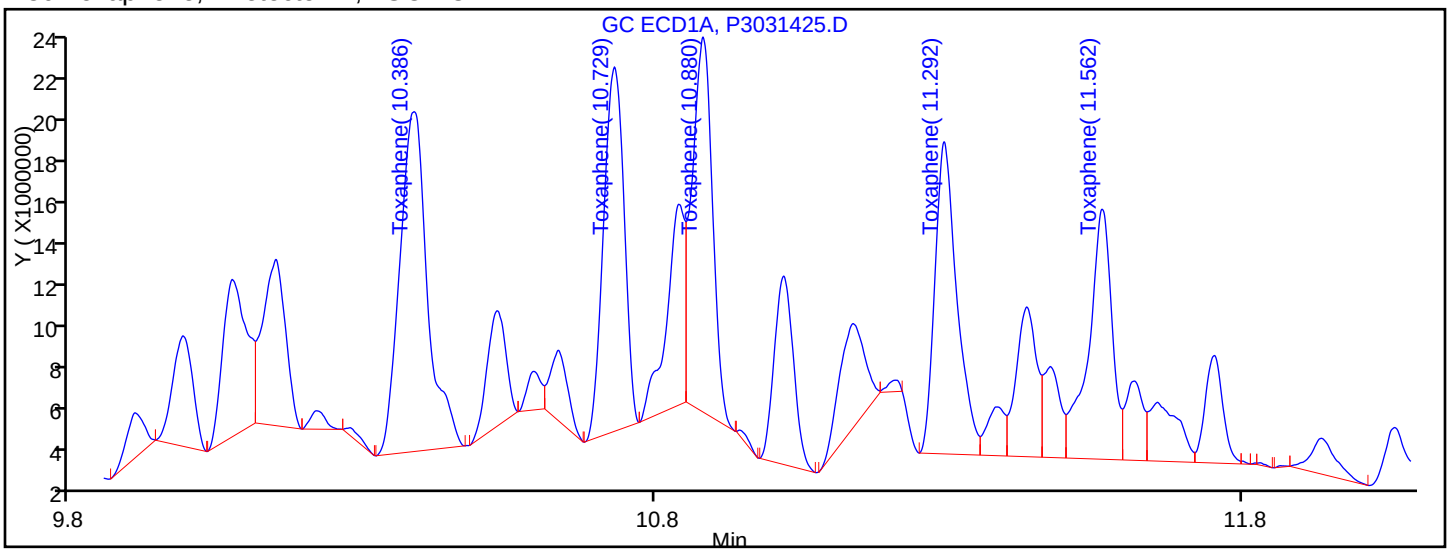
Report Date: 15-Mar-2013 07:54:53 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031425.D

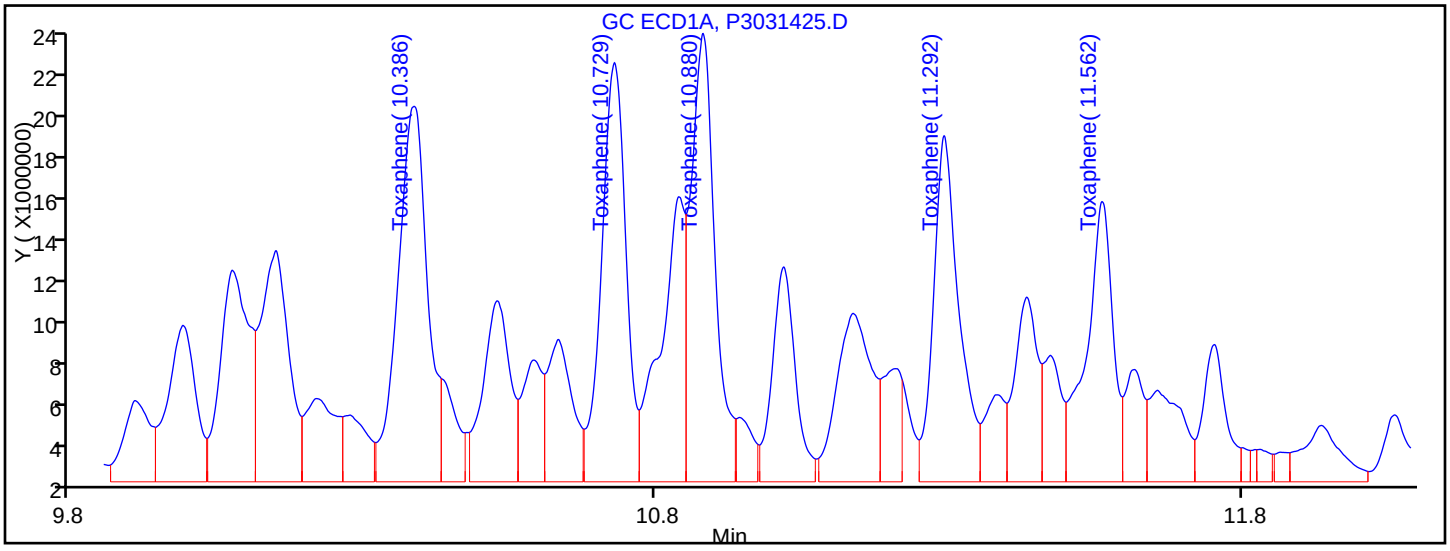
Injection Date:	14-Mar-2013 18:20:24	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	25
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 1, GC ECD1A



Processing Integration Results

RT = 10.386	Response = 50641286	M
RT = 10.729	Response = 40186783	M
RT = 10.880	Response = 40717571	M
RT = 11.292	Response = 36881446	M
RT = 11.562	Response = 31520528	M



Manual Integration Results

RT = 10.386	Response = 60802538	M
RT = 10.729	Response = 56394244	M
RT = 10.880	Response = 58762037	M
RT = 11.292	Response = 48676390	M
RT = 11.562	Response = 41188374	M

Reviewer: shockr, 15-Mar-2013 07:29:46

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-78295/25 Calibration Date: 03/14/2013 18:20

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 16:40

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/14/2013 18:00

Lab File ID: P3031425.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	16883134	15650408		0.927	1.00	-7.3	20.0
Toxaphene Peak 2	Ave	21534081	14476115		0.672	1.00	-32.8*	20.0
Toxaphene Peak 3	Ave	26029451	16561763		0.636	1.00	-36.4*	20.0
Toxaphene Peak 4	Ave	30315481	20209953		0.667	1.00	-33.3*	20.0
Toxaphene Peak 5	Ave	12222975	21049372		1.72	1.00	72.2*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-78295/25 Calibration Date: 03/14/2013 18:20

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 16:40

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/14/2013 18:00

Lab File ID: P3031425.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	10.53	10.50	10.56
Toxaphene Peak 2	11.12	11.09	11.15
Toxaphene Peak 3	11.54	11.51	11.57
Toxaphene Peak 4	12.84	12.25	12.31
Toxaphene Peak 5	13.12	12.81	12.87

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031425.D
Lims ID: ICV
Client ID:
Inject. Date: 14-Mar-2013 18:20:24
Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0017984-025
Misc. Info.:
Operator: 402582
Instrument ID: A2HP3
Injection Vol: 1.0 ul
ALS Bottle#: 25
Lims Batch ID: 78295
Lims Sample ID: 25
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130314-17984.b\PEST3.m
Last Update: 15-Mar-2013 07:54:49
Calib Date: 14-Mar-2013 20:00:25
Quant Method: External Standard
Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031430.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type:
Column Dia:
Process Host: XAWRK032

First Level Reviewer: shockr
Date: 15-Mar-2013 07:29:46

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	1	10.386	10.386	0.000	60802538	1.24		100.0	M
1	2	10.729	10.729	0.000	56394244	1.13	81.1- 121.1	92.7	M
1	3	10.880	10.879	0.001	58762037	1.43	65.0- 105.0	96.6	M
1	4	11.292	11.292	0.000	48676390	1.56	43.1- 83.1	80.1	M
1	5	11.562	11.560	0.002	41188374	1.57	32.5- 72.5	67.7	M
			Average of Peak Amounts =			1.39			
2	100	10.528	10.532	-0.004	15650408	0.9270		100.0	M
2	2	11.115	11.117	-0.002	14476115	0.6722	108.3- 148.3	92.5	M
2	3	11.536	11.535	0.001	16561763	0.6363	134.7- 174.7	105.8	M
2	4	12.836	12.278	0.558	20209953	0.6667	157.2- 197.2	129.1	M
2	5	13.118	12.837	0.281	21049372	1.72	51.7- 91.7	134.5	M
			Average of Peak Amounts =			0.9249			
						RPD = 40.09			

QC Flag Legend

Review Flags
M - Manually Integrated

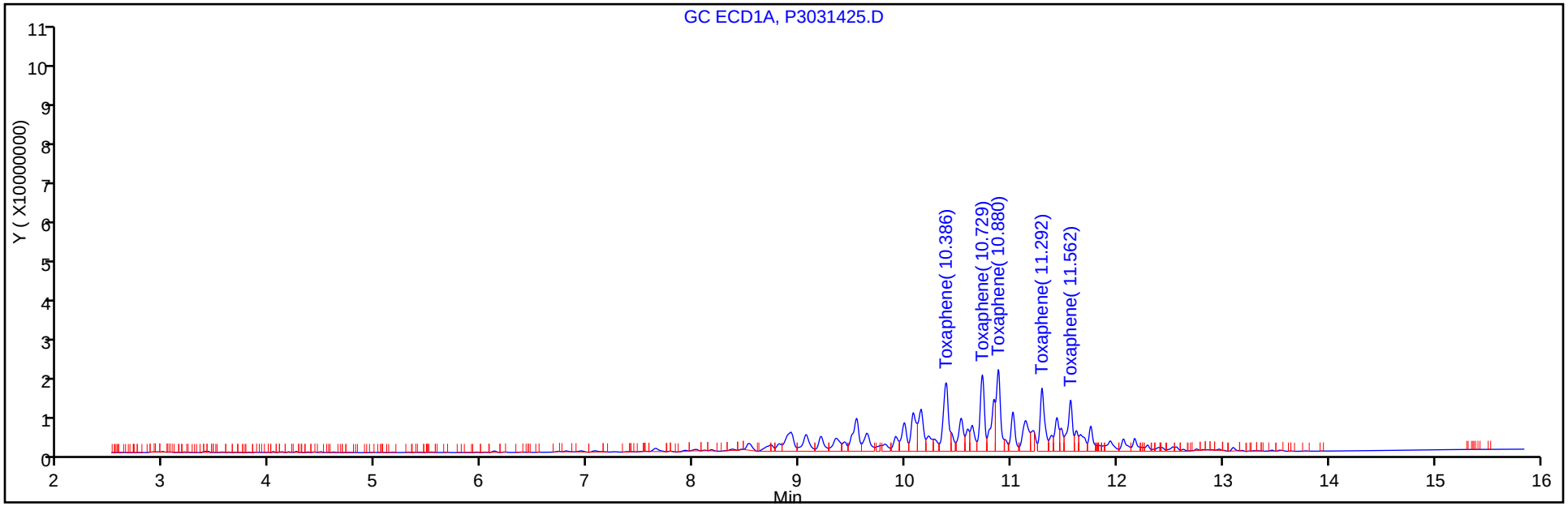
Report Date: 15-Mar-2013 07:54:53 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

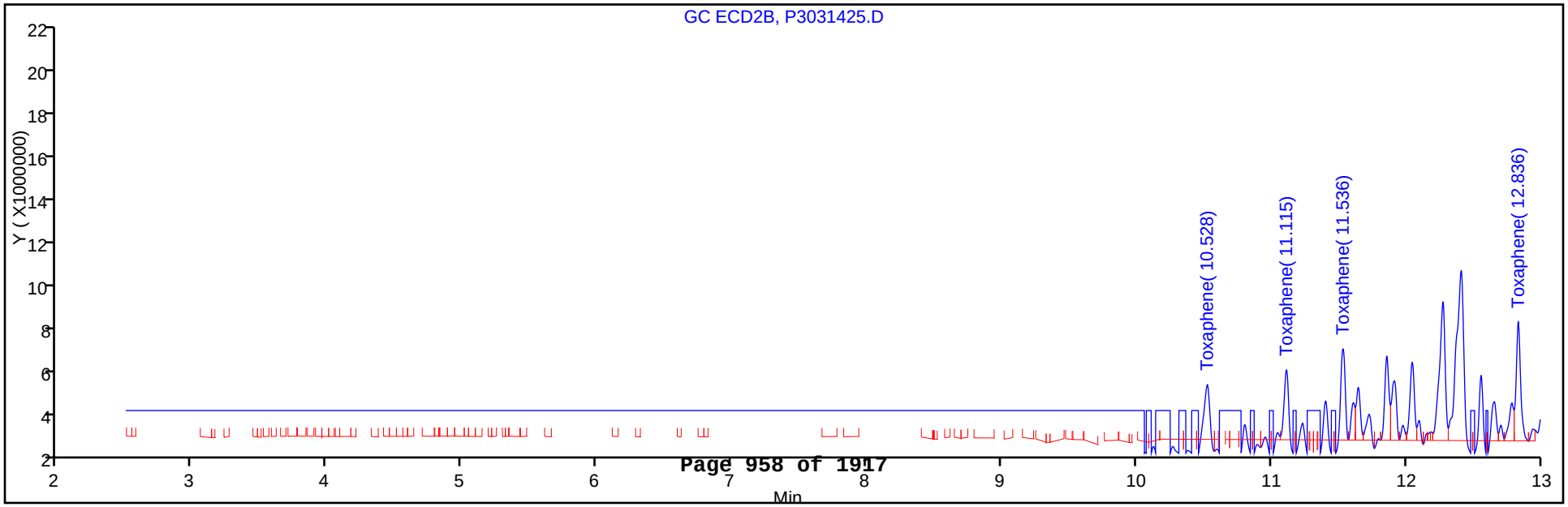
Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031425.D

Injection Date:	14-Mar-2013 18:20:24	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	25
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



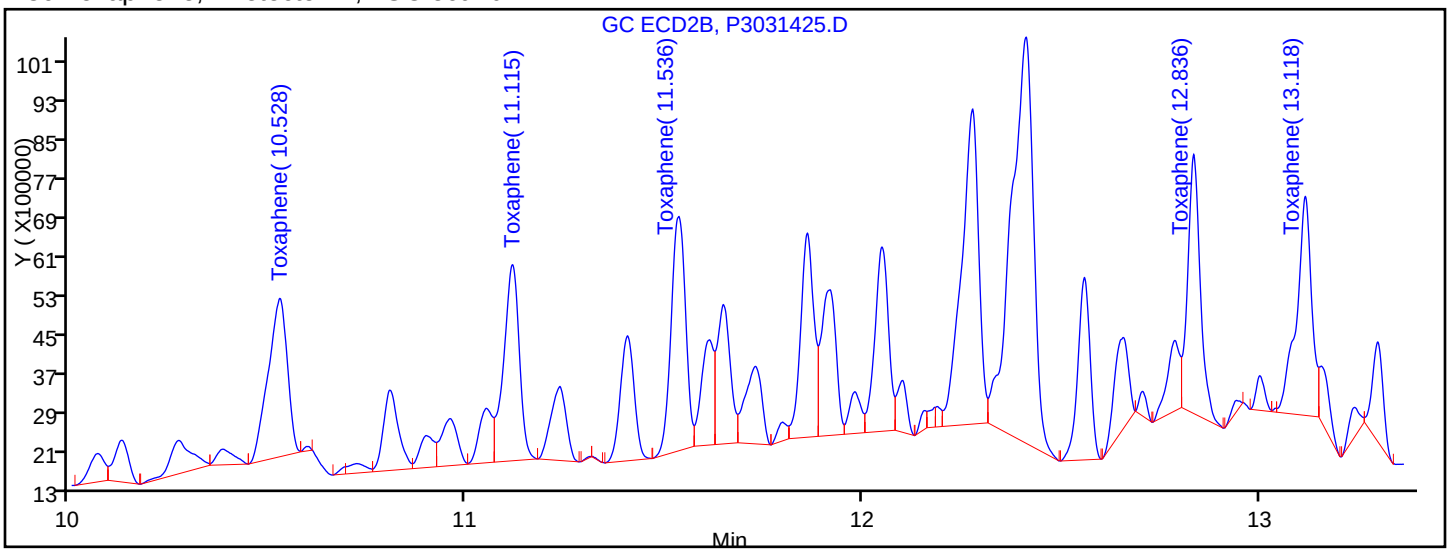
Report Date: 15-Mar-2013 07:54:53 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20130314-17984.b\P3031425.D

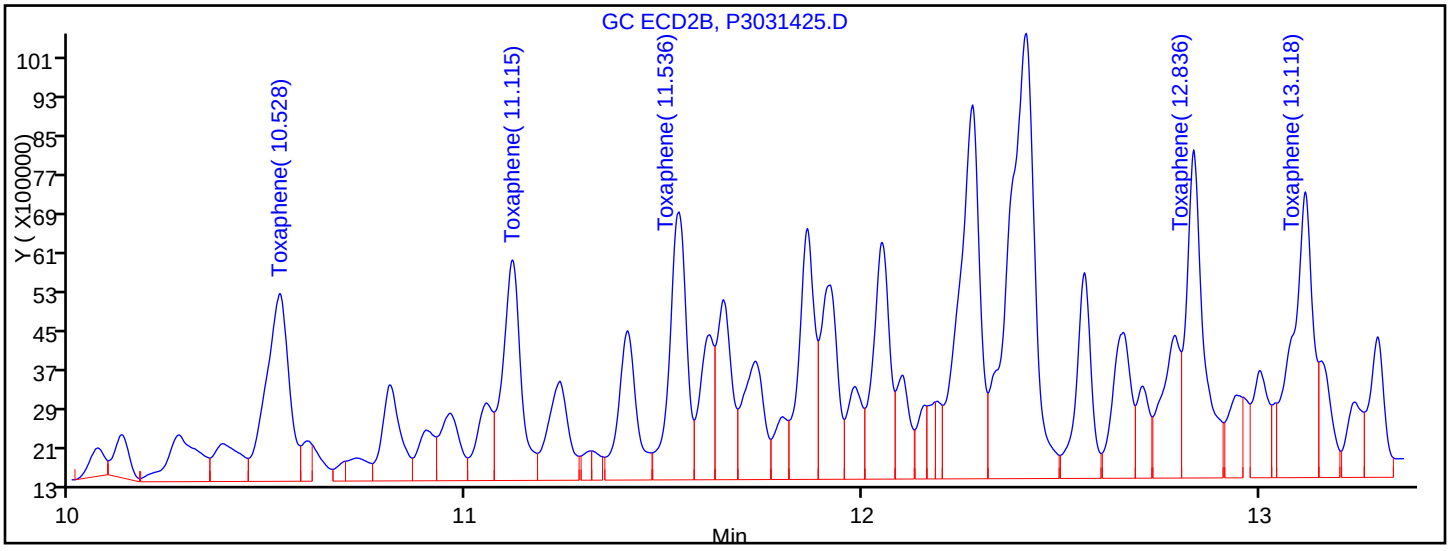
Injection Date:	14-Mar-2013 18:20:24	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	78295	Lims Sample ID:	25
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 2, GC ecd2b



Processing Integration Results

RT = 10.528	Response = 10952045	M
RT = 11.115	Response = 11039703	M
RT = 11.536	Response = 12277980	M
RT = 12.836	Response = 11715269	M
RT = 13.118	Response = 12039318	M



Manual Integration Results

RT = 10.528	Response = 15650408	M
RT = 11.115	Response = 14476115	M
RT = 11.536	Response = 16561763	M
RT = 12.836	Response = 20209953	M
RT = 13.118	Response = 21049372	M

Reviewer: shockr, 15-Mar-2013 07:29:46

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79056/5 Calibration Date: 03/21/2013 15:56

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 14:20

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/14/2013 16:00

Lab File ID: P3032105.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1623707372	1514296960		0.0233	0.0250	-6.7	20.0
gamma-BHC (Lindane)	Ave	1455203462	1380270360		0.0237	0.0250	-5.1	20.0
beta-BHC	Ave	618486639	602069600		0.0243	0.0250	-2.7	20.0
delta-BHC	Ave	1480196914	1465809640		0.0248	0.0250	-1.0	20.0
Heptachlor	Ave	1288059053	1317232400		0.0256	0.0250	2.3	20.0
Aldrin	Ave	1359987606	1329375520		0.0244	0.0250	-2.3	20.0
Heptachlor epoxide	Ave	1229987574	1226975560		0.0249	0.0250	-0.2	20.0
gamma-Chlordane	Ave	1263492565	1246548240		0.0247	0.0250	-1.3	20.0
alpha-Chlordane	Ave	1289702829	1289594520		0.0250	0.0250	-0.0	20.0
Endosulfan I	Ave	1152636801	1156217720		0.0251	0.0250	0.3	20.0
4,4'-DDE	Ave	1266505227	1243306920		0.0245	0.0250	-1.8	20.0
Dieldrin	Ave	1268423751	1291548040		0.0255	0.0250	1.8	20.0
Endrin	Ave	1189138903	1259841640		0.0265	0.0250	5.9	20.0
4,4'-DDD	Ave	970323691	1020306800		0.0263	0.0250	5.2	20.0
Endosulfan II	Ave	1094573989	1153804800		0.0264	0.0250	5.4	20.0
4,4'-DDT	Ave	922210777	1006374680		0.0273	0.0250	9.1	20.0
Endrin aldehyde	Ave	880698493	916452000		0.0260	0.0250	4.1	20.0
Methoxychlor	Ave	461419504	527179040		0.0286	0.0250	14.3	20.0
Endosulfan sulfate	Ave	981061458	1053855200		0.0269	0.0250	7.4	20.0
Endrin ketone	Ave	1144648217	1255954080		0.0274	0.0250	9.7	20.0
Tetrachloro-m-xylene	Ave	1100163513	1040594560		0.0236	0.0250	-5.4	20.0
DCB Decachlorobiphenyl	Ave	960238458	1013526160		0.0264	0.0250	5.5	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79056/5 Calibration Date: 03/21/2013 15:56

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 14:20

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/14/2013 16:00

Lab File ID: P3032105.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.25	4.22	4.28
gamma-BHC (Lindane)	4.64	4.61	4.67
beta-BHC	4.77	4.74	4.80
delta-BHC	5.00	4.97	5.03
Heptachlor	5.29	5.26	5.32
Aldrin	5.76	5.73	5.79
Heptachlor epoxide	7.03	7.00	7.06
gamma-Chlordane	7.34	7.31	7.37
alpha-Chlordane	7.69	7.66	7.72
Endosulfan I	7.96	7.93	7.99
4,4'-DDE	8.05	8.02	8.08
Dieldrin	8.51	8.48	8.54
Endrin	8.96	8.93	8.99
4,4'-DDD	9.31	9.28	9.34
Endosulfan II	9.40	9.37	9.43
4,4'-DDT	9.83	9.80	9.86
Endrin aldehyde	10.20	10.17	10.23
Methoxychlor	10.78	10.75	10.81
Endosulfan sulfate	10.92	10.89	10.95
Endrin ketone	11.32	11.29	11.35
Tetrachloro-m-xylene	3.56	3.53	3.59
DCB Decachlorobiphenyl	12.93	12.90	12.96

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032105.D
Lims ID: CCV AB3 Client ID:
Inject. Date: 21-Mar-2013 15:56:30 Dil. Factor: 1.0000
Sample Type: CCVRT
Sample ID: 240-0018156-005
Misc. Info.:
Operator: 093905 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 5
Lims Batch ID: 79056 Lims Sample ID: 5
Sublist: chrom-PEST3*sub7
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130321-18156.b\PEST3.m
Last Update: 22-Mar-2013 07:46:56 Calib Date: 18-Mar-2013 13:40:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130318-18048.b\P3031810.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK006

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.562	3.562	0.000	26014864	0.0236			
2	100	4.181	4.181	0.000	13648390	0.0226			
						RPD = 4.53			
5 alpha-BHC									
1	100	4.253	4.253	0.000	37857424	0.0233			
2	100	5.071	5.071	0.000	18542196	0.0241			
						RPD = 3.24			
20 gamma-BHC (Lindane)									
1	100	4.639	4.639	0.000	34506759	0.0237			
2	100	5.692	5.692	0.000	16626068	0.0246			
						RPD = 3.50			
7 beta-BHC									
1	100	4.774	4.774	0.000	15051740	0.0243			
2	100	5.888	5.888	0.000	7622024	0.0258			
						RPD = 5.74			
11 delta-BHC									
1	100	4.995	4.995	0.000	36645241	0.0248			
2	100	6.513	6.513	0.000	17784447	0.0256			
						RPD = 3.22			
22 Heptachlor									
1	100	5.288	5.288	0.000	32930810	0.0256			
2	100	6.583	6.583	0.000	14547857	0.0250			
						RPD = 2.42			
4 Aldrin									
1	100	5.755	5.755	0.000	33234388	0.0244			
2	100	7.384	7.384	0.000	16285063	0.0244			
						RPD = 0.05			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.028	7.028	0.000	30674389	0.0249			
2	100	8.824	8.824	0.000	14859677	0.0256			
						RPD = 2.47			
21 gamma-Chlordane									
1	100	7.343	7.343	0.000	31163706	0.0247			
2	100	9.217	9.217	0.000	15076071	0.0257			
						RPD = 4.11			
6 alpha-Chlordane									
1	100	7.685	7.685	0.000	32239863	0.0250			
2	100	9.515	9.515	0.000	15513400	0.0254			
						RPD = 1.67			
14 Endosulfan I									
1	100	7.957	7.957	0.000	28905443	0.0251			
2	100	9.583	9.583	0.000	13884295	0.0261			
						RPD = 4.12			
2 4,4'-DDE									
1	100	8.050	8.050	0.000	31082673	0.0245			
2	100	9.947	9.947	0.000	15272274	0.0250			
						RPD = 2.02			
13 Dieldrin									
1	100	8.509	8.509	0.000	32288701	0.0255			
2	100	10.099	10.099	0.000	15454821	0.0260			
						RPD = 2.12			
17 Endrin									
1	100	8.960	8.960	0.000	31496041	0.0265			
2	100	10.614	10.614	0.000	14535016	0.0271			
						RPD = 2.39			
1 4,4'-DDD									
1	100	9.313	9.313	0.000	25507670	0.0263			
2	100	10.938	10.938	0.000	11741791	0.0275			
						RPD = 4.37			
15 Endosulfan II									
1	100	9.404	9.404	0.000	28845120	0.0264			
2	100	10.982	10.982	0.000	13523756	0.0279			
						RPD = 5.55			
3 4,4'-DDT									
1	100	9.831	9.831	0.000	25159367	0.0273			
2	100	11.418	11.418	0.000	10428378	0.0264			
						RPD = 3.42			
18 Endrin aldehyde									
1	100	10.197	10.197	0.000	22911300	0.0260			
2	100	11.540	11.540	0.000	10862261	0.0275			
						RPD = 5.53			
27 Methoxychlor									
1	100	10.776	10.776	0.000	13179476	0.0286			
2	100	12.493	12.493	0.000	5396260	0.0270			
						RPD = 5.45			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	10.920	10.920	0.000	26346380	0.0269			
2	100	11.956	11.956	0.000	12335907	0.0279			
						RPD = 3.80			
19 Endrin ketone									
1	100	11.318	11.318	0.000	31398852	0.0274			
2	100	12.705	12.705	0.000	14242334	0.0284			
						RPD = 3.46			
$ 10 DCB Decachlorobiphenyl									
1	100	12.927	12.927	0.000	25338154	0.0264			
2	100	14.421	14.421	0.000	12312187	0.0256			
						RPD = 2.98			

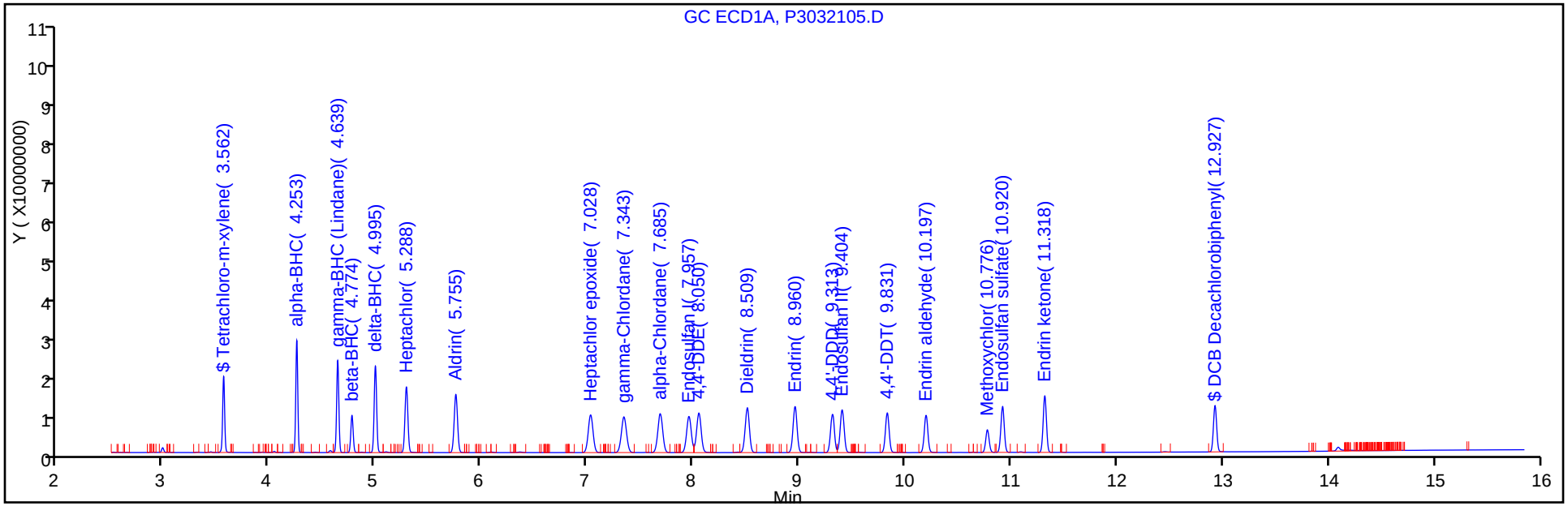
Report Date: 22-Mar-2013 07:46:56 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

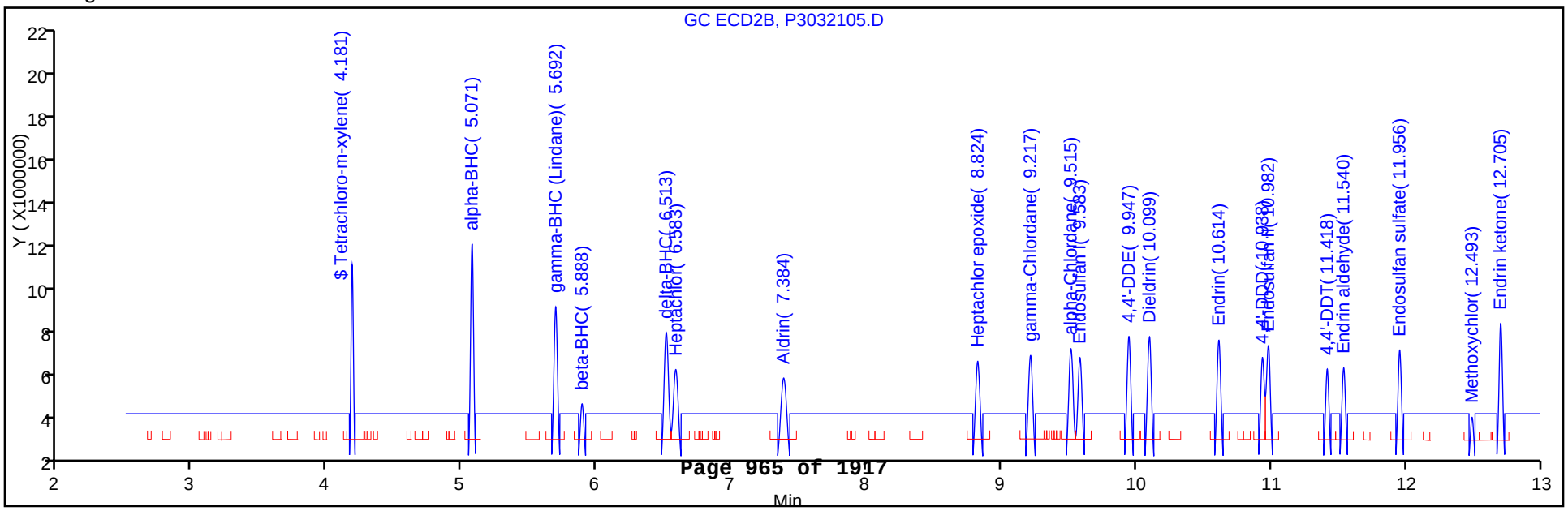
Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032105.D

Injection Date:	21-Mar-2013 15:56:30	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	5
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79056/5 Calibration Date: 03/21/2013 15:56

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 14:20

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/14/2013 16:00

Lab File ID: P3032105.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	769922401	741687840		0.0241	0.0250	-3.7	20.0
gamma-BHC (Lindane)	Ave	677058072	665042720		0.0246	0.0250	-1.8	20.0
beta-BHC	Ave	295707343	304880960		0.0258	0.0250	3.1	20.0
delta-BHC	Ave	695621800	711377880		0.0256	0.0250	2.3	20.0
Heptachlor	Ave	582970513	581914280		0.0250	0.0250	-0.2	20.0
Aldrin	Ave	666083583	651402520		0.0244	0.0250	-2.2	20.0
Heptachlor epoxide	Ave	581320598	594387080		0.0256	0.0250	2.2	20.0
gamma-Chlordane	Ave	586604093	603042840		0.0257	0.0250	2.8	20.0
alpha-Chlordane	Ave	610326008	620536000		0.0254	0.0250	1.7	20.0
Endosulfan I	Ave	531325762	555371800		0.0261	0.0250	4.5	20.0
4,4'-DDE	Ave	609850598	610890960		0.0250	0.0250	0.2	20.0
Dieldrin	Ave	594383876	618192840		0.0260	0.0250	4.0	20.0
Endrin	Ave	535793583	581400640		0.0271	0.0250	8.5	20.0
4,4'-DDD	Ave	427546511	469671640		0.0275	0.0250	9.9	20.0
Endosulfan II	Ave	485472127	540950240		0.0279	0.0250	11.4	20.0
4,4'-DDT	Ave	395546624	417135120		0.0264	0.0250	5.5	20.0
Endrin aldehyde	Ave	395073591	434490440		0.0275	0.0250	10.0	20.0
Endosulfan sulfate	Ave	442236050	493436280		0.0279	0.0250	11.6	20.0
Methoxychlor	Ave	199518519	215850400		0.0270	0.0250	8.2	20.0
Endrin ketone	Ave	501538938	569693360		0.0284	0.0250	13.6	20.0
Tetrachloro-m-xylene	Ave	603960426	545935600		0.0226	0.0250	-9.6	20.0
DCB Decachlorobiphenyl	Ave	480698861	492487480		0.0256	0.0250	2.5	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79056/5 Calibration Date: 03/21/2013 15:56

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 14:20

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/14/2013 16:00

Lab File ID: P3032105.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.07	5.04	5.10
gamma-BHC (Lindane)	5.69	5.66	5.72
beta-BHC	5.89	5.86	5.92
delta-BHC	6.51	6.48	6.54
Heptachlor	6.58	6.55	6.61
Aldrin	7.38	7.35	7.41
Heptachlor epoxide	8.82	8.79	8.85
gamma-Chlordane	9.22	9.19	9.25
alpha-Chlordane	9.52	9.49	9.55
Endosulfan I	9.58	9.55	9.61
4,4'-DDE	9.95	9.92	9.98
Dieldrin	10.10	10.07	10.13
Endrin	10.61	10.58	10.64
4,4'-DDD	10.94	10.91	10.97
Endosulfan II	10.98	10.95	11.01
4,4'-DDT	11.42	11.39	11.45
Endrin aldehyde	11.54	11.51	11.57
Endosulfan sulfate	11.96	11.93	11.99
Methoxychlor	12.49	12.46	12.52
Endrin ketone	12.71	12.68	12.74
Tetrachloro-m-xylene	4.18	4.15	4.21
DCB Decachlorobiphenyl	14.42	14.39	14.45

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032105.D
Lims ID: CCV AB3 Client ID:
Inject. Date: 21-Mar-2013 15:56:30 Dil. Factor: 1.0000
Sample Type: CCVRT
Sample ID: 240-0018156-005
Misc. Info.:
Operator: 093905 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 5
Lims Batch ID: 79056 Lims Sample ID: 5
Sublist: chrom-PEST3*sub7
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130321-18156.b\PEST3.m
Last Update: 22-Mar-2013 07:46:56 Calib Date: 18-Mar-2013 13:40:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130318-18048.b\P3031810.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK006

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.562	3.562	0.000	26014864	0.0236			
2	100	4.181	4.181	0.000	13648390	0.0226			
						RPD = 4.53			
5 alpha-BHC									
1	100	4.253	4.253	0.000	37857424	0.0233			
2	100	5.071	5.071	0.000	18542196	0.0241			
						RPD = 3.24			
20 gamma-BHC (Lindane)									
1	100	4.639	4.639	0.000	34506759	0.0237			
2	100	5.692	5.692	0.000	16626068	0.0246			
						RPD = 3.50			
7 beta-BHC									
1	100	4.774	4.774	0.000	15051740	0.0243			
2	100	5.888	5.888	0.000	7622024	0.0258			
						RPD = 5.74			
11 delta-BHC									
1	100	4.995	4.995	0.000	36645241	0.0248			
2	100	6.513	6.513	0.000	17784447	0.0256			
						RPD = 3.22			
22 Heptachlor									
1	100	5.288	5.288	0.000	32930810	0.0256			
2	100	6.583	6.583	0.000	14547857	0.0250			
						RPD = 2.42			
4 Aldrin									
1	100	5.755	5.755	0.000	33234388	0.0244			
2	100	7.384	7.384	0.000	16285063	0.0244			
						RPD = 0.05			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.028	7.028	0.000	30674389	0.0249			
2	100	8.824	8.824	0.000	14859677	0.0256			
						RPD = 2.47			
21 gamma-Chlordane									
1	100	7.343	7.343	0.000	31163706	0.0247			
2	100	9.217	9.217	0.000	15076071	0.0257			
						RPD = 4.11			
6 alpha-Chlordane									
1	100	7.685	7.685	0.000	32239863	0.0250			
2	100	9.515	9.515	0.000	15513400	0.0254			
						RPD = 1.67			
14 Endosulfan I									
1	100	7.957	7.957	0.000	28905443	0.0251			
2	100	9.583	9.583	0.000	13884295	0.0261			
						RPD = 4.12			
2 4,4'-DDE									
1	100	8.050	8.050	0.000	31082673	0.0245			
2	100	9.947	9.947	0.000	15272274	0.0250			
						RPD = 2.02			
13 Dieldrin									
1	100	8.509	8.509	0.000	32288701	0.0255			
2	100	10.099	10.099	0.000	15454821	0.0260			
						RPD = 2.12			
17 Endrin									
1	100	8.960	8.960	0.000	31496041	0.0265			
2	100	10.614	10.614	0.000	14535016	0.0271			
						RPD = 2.39			
1 4,4'-DDD									
1	100	9.313	9.313	0.000	25507670	0.0263			
2	100	10.938	10.938	0.000	11741791	0.0275			
						RPD = 4.37			
15 Endosulfan II									
1	100	9.404	9.404	0.000	28845120	0.0264			
2	100	10.982	10.982	0.000	13523756	0.0279			
						RPD = 5.55			
3 4,4'-DDT									
1	100	9.831	9.831	0.000	25159367	0.0273			
2	100	11.418	11.418	0.000	10428378	0.0264			
						RPD = 3.42			
18 Endrin aldehyde									
1	100	10.197	10.197	0.000	22911300	0.0260			
2	100	11.540	11.540	0.000	10862261	0.0275			
						RPD = 5.53			
27 Methoxychlor									
1	100	10.776	10.776	0.000	13179476	0.0286			
2	100	12.493	12.493	0.000	5396260	0.0270			
						RPD = 5.45			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	10.920	10.920	0.000	26346380	0.0269			
2	100	11.956	11.956	0.000	12335907	0.0279			
						RPD = 3.80			
19 Endrin ketone									
1	100	11.318	11.318	0.000	31398852	0.0274			
2	100	12.705	12.705	0.000	14242334	0.0284			
						RPD = 3.46			
$ 10 DCB Decachlorobiphenyl									
1	100	12.927	12.927	0.000	25338154	0.0264			
2	100	14.421	14.421	0.000	12312187	0.0256			
						RPD = 2.98			

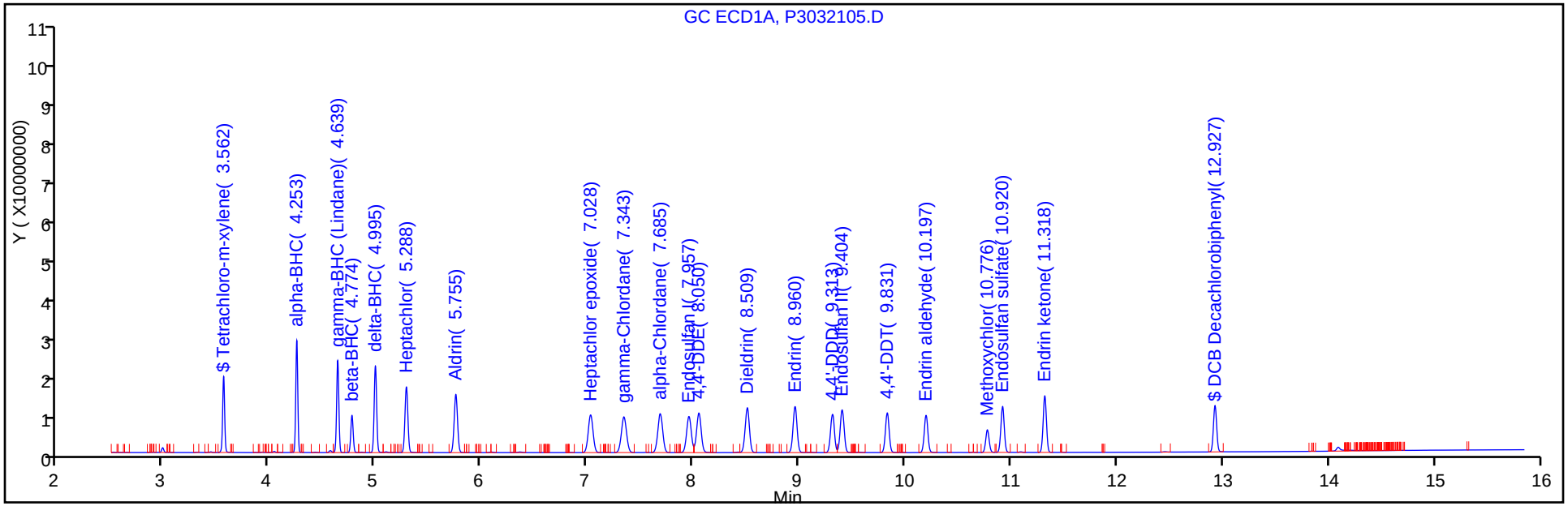
Report Date: 22-Mar-2013 07:46:57 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

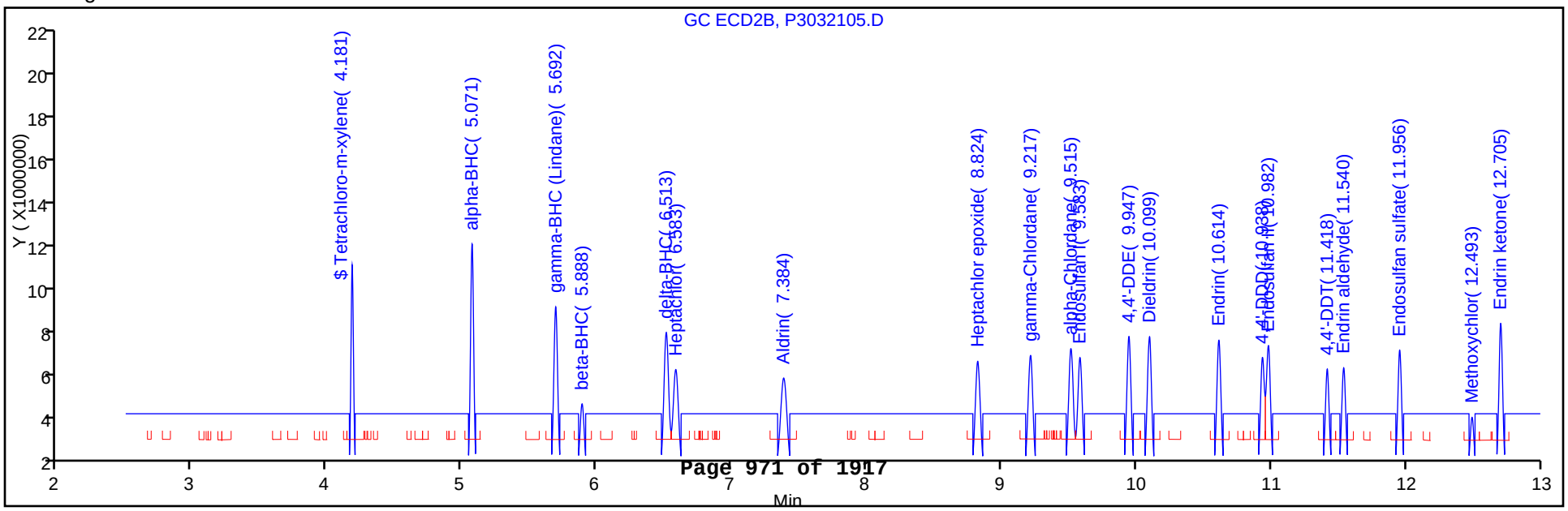
Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032105.D

Injection Date:	21-Mar-2013 15:56:30	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	5
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79056/6 Calibration Date: 03/21/2013 16:16

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 16:40

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/14/2013 18:00

Lab File ID: P3032106.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	48953063	50134382		1.02	1.00	2.4	20.0
Toxaphene Peak 2	Ave	49795684	51342823		1.03	1.00	3.1	20.0
Toxaphene Peak 3	Ave	41014572	42122748		1.03	1.00	2.7	20.0
Toxaphene Peak 4	Ave	31176774	30961034		0.993	1.00	-0.7	20.0
Toxaphene Peak 5	Ave	26157631	24519012		0.937	1.00	-6.3	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79056/6 Calibration Date: 03/21/2013 16:16

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 16:40

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/14/2013 18:00

Lab File ID: P3032106.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	10.38	10.35	10.41
Toxaphene Peak 2	10.73	10.70	10.76
Toxaphene Peak 3	10.87	10.84	10.90
Toxaphene Peak 4	11.29	11.26	11.32
Toxaphene Peak 5	11.56	11.53	11.59

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032106.D
Lims ID: CCV TOX3 Client ID:
Inject. Date: 21-Mar-2013 16:16:31 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018156-006
Misc. Info.:
Operator: 093905 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 6
Lims Batch ID: 79056 Lims Sample ID: 6
Sublist: chrom-PEST3*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130321-18156.b\PEST3.m
Last Update: 22-Mar-2013 07:46:57 Calib Date: 18-Mar-2013 13:40:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130318-18048.b\P3031810.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK006

First Level Reviewer: vandorenc Date: 22-Mar-2013 06:57:16

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	1	10.383	10.383	0.000	50134382	1.02		100.0	
1	2	10.726	10.726	0.000	51342823	1.03	81.1- 121.1	102.4	
1	3	10.874	10.874	0.000	42122748	1.03	65.0- 105.0	84.0	
1	4	11.289	11.289	0.000	30961034	0.99	43.1- 83.1	61.8	
1	5	11.556	11.556	0.000	24519012	0.9374	32.5- 72.5	48.9	
			Average of Peak Amounts =			1.00			
2	100	10.537	10.537	0.000	18768507	1.11		100.0	M
2	2	11.123	11.123	0.000	23825213	1.11	108.3- 148.3	126.9	M
2	3	11.542	11.542	0.000	28215047	1.08	134.7- 174.7	150.3	M
2	4	12.283	12.283	0.000	32311482	1.07	157.2- 197.2	172.2	M
2	5	12.841	12.841	0.000	12539478	1.03	51.7- 91.7	66.8	M
			Average of Peak Amounts =			1.08			
						RPD = 7.32			

QC Flag Legend

Review Flags
M - Manually Integrated

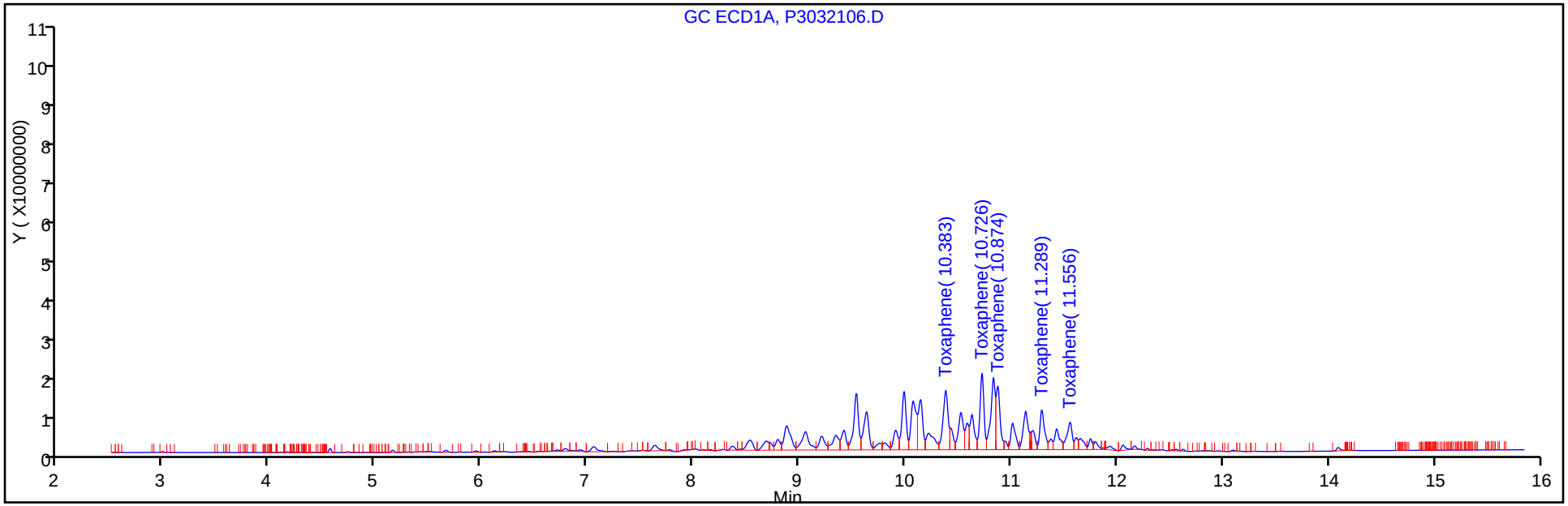
Report Date: 22-Mar-2013 07:46:58 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

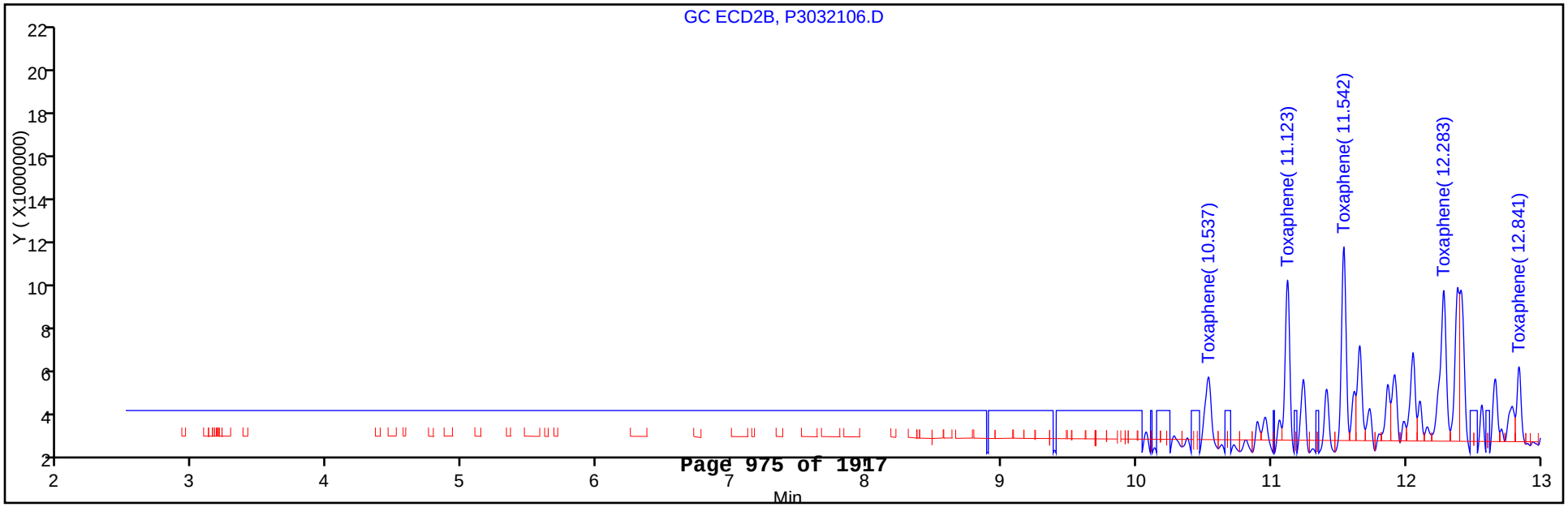
Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032106.D

Injection Date:	21-Mar-2013 16:16:31	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	6
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79056/6 Calibration Date: 03/21/2013 16:16

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 16:40

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/14/2013 18:00

Lab File ID: P3032106.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	16883134	18768507		1.11	1.00	11.2	20.0
Toxaphene Peak 2	Ave	21534081	23825213		1.11	1.00	10.6	20.0
Toxaphene Peak 3	Ave	26029451	28215047		1.08	1.00	8.4	20.0
Toxaphene Peak 4	Ave	30315481	32311482		1.07	1.00	6.6	20.0
Toxaphene Peak 5	Ave	12222975	12539478		1.03	1.00	2.6	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79056/6 Calibration Date: 03/21/2013 16:16

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 16:40

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/14/2013 18:00

Lab File ID: P3032106.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	10.54	10.51	10.57
Toxaphene Peak 2	11.12	11.09	11.15
Toxaphene Peak 3	11.54	11.51	11.57
Toxaphene Peak 4	12.28	12.25	12.31
Toxaphene Peak 5	12.84	12.81	12.87

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032106.D
Lims ID: CCV TOX3 Client ID:
Inject. Date: 21-Mar-2013 16:16:31 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018156-006
Misc. Info.:
Operator: 093905 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 6
Lims Batch ID: 79056 Lims Sample ID: 6
Sublist: chrom-PEST3*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130321-18156.b\PEST3.m
Last Update: 22-Mar-2013 07:46:57 Calib Date: 18-Mar-2013 13:40:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130318-18048.b\P3031810.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK006

First Level Reviewer: vandorenc Date: 22-Mar-2013 06:57:16

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	1	10.383	10.383	0.000	50134382	1.02		100.0	
1	2	10.726	10.726	0.000	51342823	1.03	81.1- 121.1	102.4	
1	3	10.874	10.874	0.000	42122748	1.03	65.0- 105.0	84.0	
1	4	11.289	11.289	0.000	30961034	0.99	43.1- 83.1	61.8	
1	5	11.556	11.556	0.000	24519012	0.9374	32.5- 72.5	48.9	
			Average of Peak Amounts =			1.00			
2	100	10.537	10.537	0.000	18768507	1.11		100.0	M
2	2	11.123	11.123	0.000	23825213	1.11	108.3- 148.3	126.9	M
2	3	11.542	11.542	0.000	28215047	1.08	134.7- 174.7	150.3	M
2	4	12.283	12.283	0.000	32311482	1.07	157.2- 197.2	172.2	M
2	5	12.841	12.841	0.000	12539478	1.03	51.7- 91.7	66.8	M
			Average of Peak Amounts =			1.08			
						RPD = 7.32			

QC Flag Legend

Review Flags
M - Manually Integrated

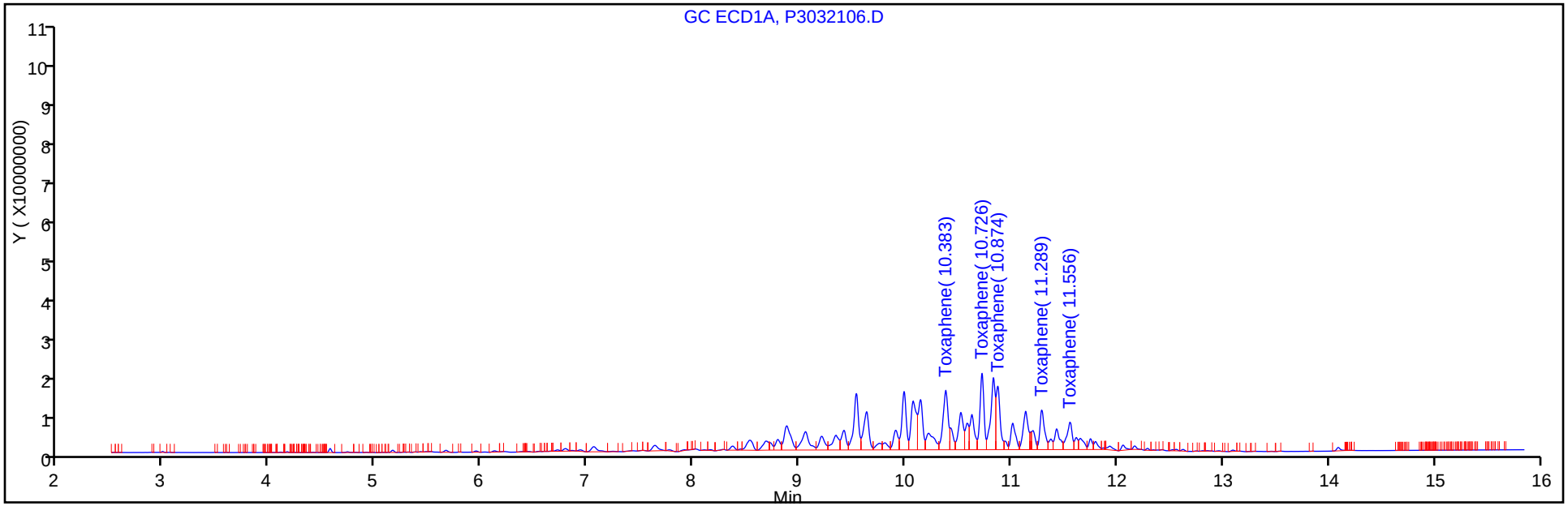
Report Date: 22-Mar-2013 07:46:59 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

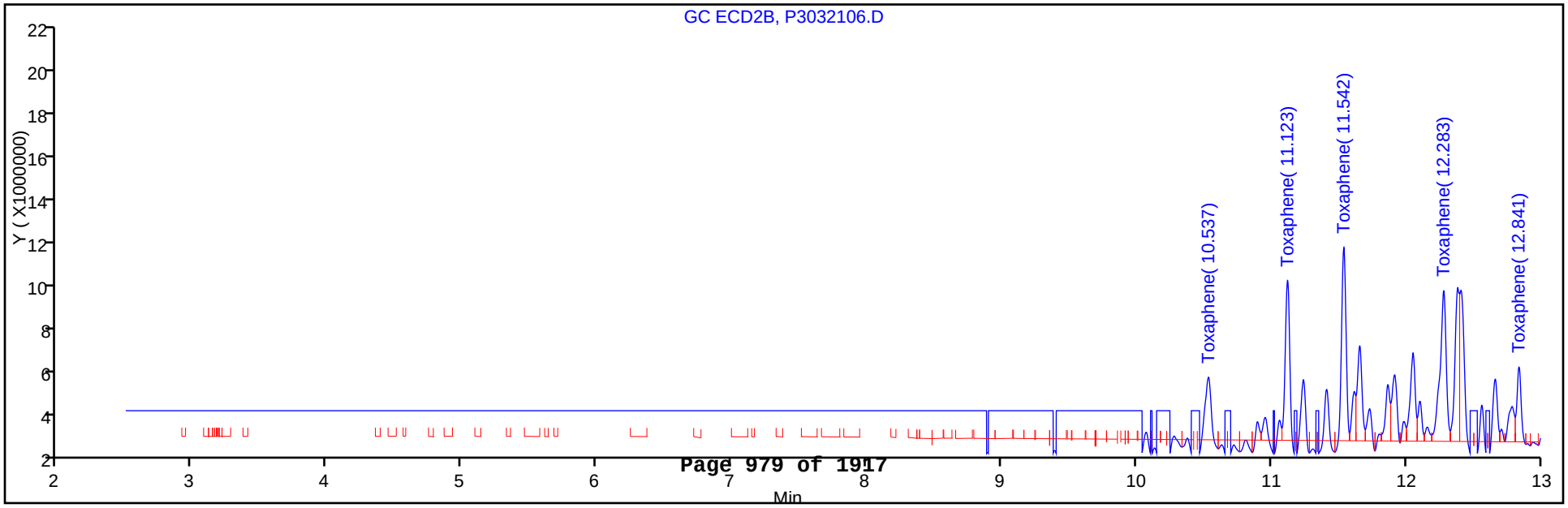
Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032106.D

Injection Date:	21-Mar-2013 16:16:31	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	6
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



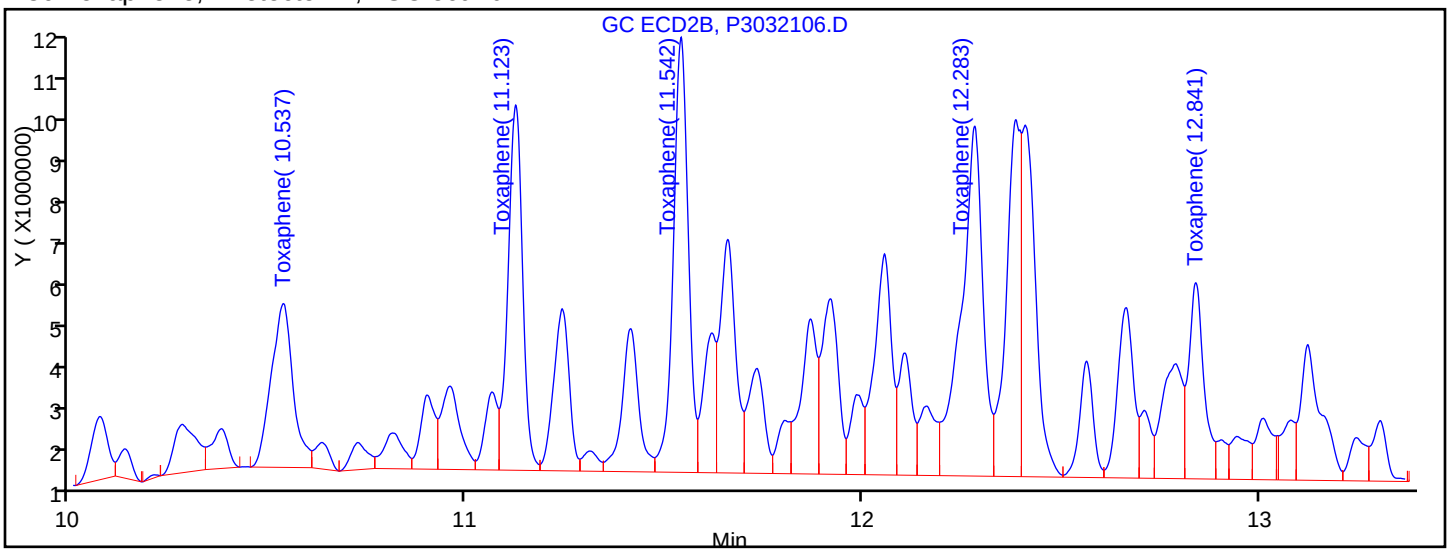
Report Date: 22-Mar-2013 07:46:59 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032106.D

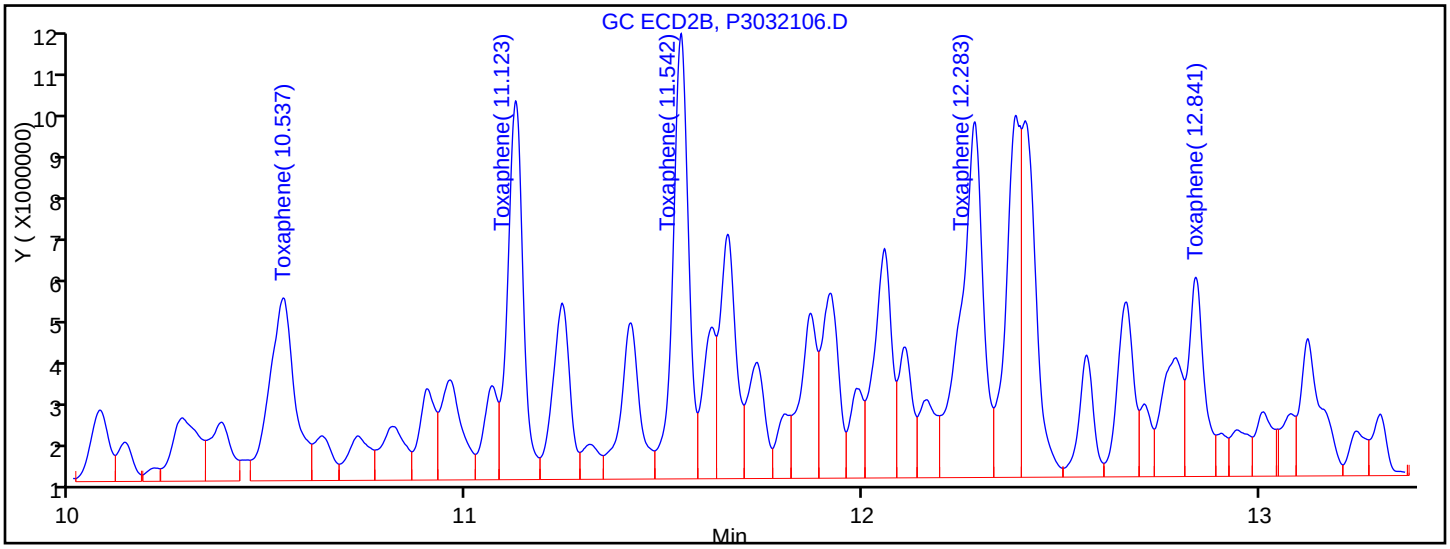
Injection Date:	21-Mar-2013 16:16:31	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	6
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 2, GC ecd2b



Processing Integration Results

RT = 10.537	Response = 14450312	M
RT = 11.123	Response = 21522846	M
RT = 11.542	Response = 26204341	M
RT = 12.283	Response = 30716918	M
RT = 12.841	Response = 12059927	M



Manual Integration Results

RT = 10.537	Response = 18768507	M
RT = 11.123	Response = 23825213	M
RT = 11.542	Response = 28215047	M
RT = 12.283	Response = 32311482	M
RT = 12.841	Response = 12539478	M

Reviewer: vandorenc, 22-Mar-2013 06:57:16

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79056/12 Calibration Date: 03/21/2013 18:16

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 16:40

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/14/2013 18:00

Lab File ID: P3032112.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	48953063	48261023		0.986	1.00	-1.4	20.0
Toxaphene Peak 2	Ave	49795684	49529958		0.995	1.00	-0.5	20.0
Toxaphene Peak 3	Ave	41014572	40996451		1.00	1.00	-0.0	20.0
Toxaphene Peak 4	Ave	31176774	29741074		0.954	1.00	-4.6	20.0
Toxaphene Peak 5	Ave	26157631	23707276		0.906	1.00	-9.4	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79056/12 Calibration Date: 03/21/2013 18:16

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 16:40

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/14/2013 18:00

Lab File ID: P3032112.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	10.39	10.36	10.42
Toxaphene Peak 2	10.73	10.70	10.76
Toxaphene Peak 3	10.88	10.85	10.91
Toxaphene Peak 4	11.29	11.26	11.32
Toxaphene Peak 5	11.56	11.53	11.59

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032112.D
Lims ID: CCV TOX3 Client ID:
Inject. Date: 21-Mar-2013 18:16:59 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018156-012
Misc. Info.:
Operator: 093905 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 12
Lims Batch ID: 79056 Lims Sample ID: 12
Sublist: chrom-PEST3*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130321-18156.b\PEST3.m
Last Update: 22-Mar-2013 07:47:06 Calib Date: 18-Mar-2013 13:40:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130318-18048.b\P3031810.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK006

First Level Reviewer: vandorenc Date: 22-Mar-2013 07:08:55

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	1	10.385	10.385	0.000	48261023	0.9859		100.0	
1	2	10.726	10.726	0.000	49529958	0.99	81.1- 121.1	102.6	
1	3	10.875	10.875	0.000	40996451	1.00	65.0- 105.0	84.9	
1	4	11.292	11.292	0.000	29741074	0.9539	43.1- 83.1	61.6	
1	5	11.560	11.560	0.000	23707276	0.9063	32.5- 72.5	49.1	
			Average of Peak Amounts =			0.9681			
2	100	10.536	10.536	0.000	19935817	1.18		100.0	M
2	2	11.124	11.124	0.000	24653620	1.14	108.3- 148.3	123.7	M
2	3	11.542	11.542	0.000	29426156	1.13	134.7- 174.7	147.6	M
2	4	12.283	12.283	0.000	33966749	1.12	157.2- 197.2	170.4	M
2	5	12.842	12.842	0.000	13647095	1.12	51.7- 91.7	68.5	M
			Average of Peak Amounts =			1.14			
						RPD = 16.19			

QC Flag Legend

Review Flags
M - Manually Integrated

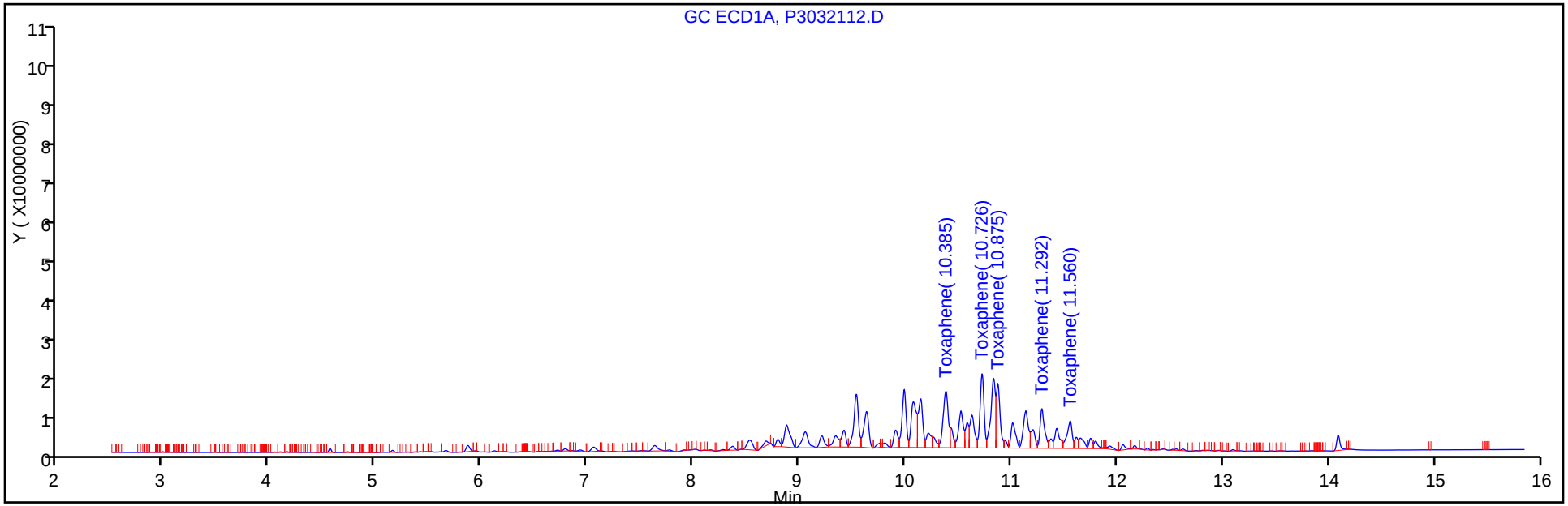
Report Date: 22-Mar-2013 07:47:07 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

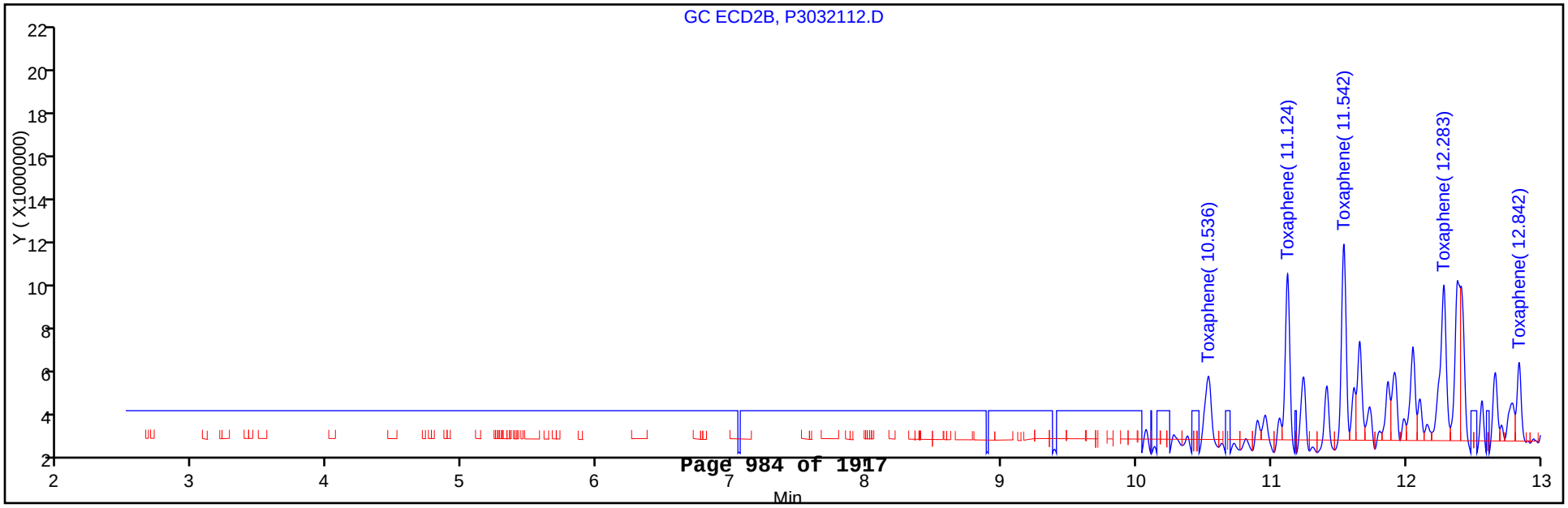
Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032112.D

Injection Date:	21-Mar-2013 18:16:59	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	12
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79056/12 Calibration Date: 03/21/2013 18:16

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 16:40

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/14/2013 18:00

Lab File ID: P3032112.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	16883134	19935817		1.18	1.00	18.1	20.0
Toxaphene Peak 2	Ave	21534081	24653620		1.14	1.00	14.5	20.0
Toxaphene Peak 3	Ave	26029451	29426156		1.13	1.00	13.0	20.0
Toxaphene Peak 4	Ave	30315481	33966749		1.12	1.00	12.0	20.0
Toxaphene Peak 5	Ave	12222975	13647095		1.12	1.00	11.7	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79056/12 Calibration Date: 03/21/2013 18:16

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 16:40

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/14/2013 18:00

Lab File ID: P3032112.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	10.54	10.51	10.57
Toxaphene Peak 2	11.12	11.09	11.15
Toxaphene Peak 3	11.54	11.51	11.57
Toxaphene Peak 4	12.28	12.25	12.31
Toxaphene Peak 5	12.84	12.81	12.87

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032112.D
Lims ID: CCV TOX3 Client ID:
Inject. Date: 21-Mar-2013 18:16:59 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018156-012
Misc. Info.:
Operator: 093905 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 12
Lims Batch ID: 79056 Lims Sample ID: 12
Sublist: chrom-PEST3*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130321-18156.b\PEST3.m
Last Update: 22-Mar-2013 07:47:06 Calib Date: 18-Mar-2013 13:40:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130318-18048.b\P3031810.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK006

First Level Reviewer: vandorenc Date: 22-Mar-2013 07:08:55

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
30 Toxaphene									M
1	1	10.385	10.385	0.000	48261023	0.9859		100.0	
1	2	10.726	10.726	0.000	49529958	0.99	81.1- 121.1	102.6	
1	3	10.875	10.875	0.000	40996451	1.00	65.0- 105.0	84.9	
1	4	11.292	11.292	0.000	29741074	0.9539	43.1- 83.1	61.6	
1	5	11.560	11.560	0.000	23707276	0.9063	32.5- 72.5	49.1	
			Average of Peak Amounts =			0.9681			
2	100	10.536	10.536	0.000	19935817	1.18		100.0	M
2	2	11.124	11.124	0.000	24653620	1.14	108.3- 148.3	123.7	M
2	3	11.542	11.542	0.000	29426156	1.13	134.7- 174.7	147.6	M
2	4	12.283	12.283	0.000	33966749	1.12	157.2- 197.2	170.4	M
2	5	12.842	12.842	0.000	13647095	1.12	51.7- 91.7	68.5	M
			Average of Peak Amounts =			1.14			
						RPD = 16.19			

QC Flag Legend

Review Flags
M - Manually Integrated

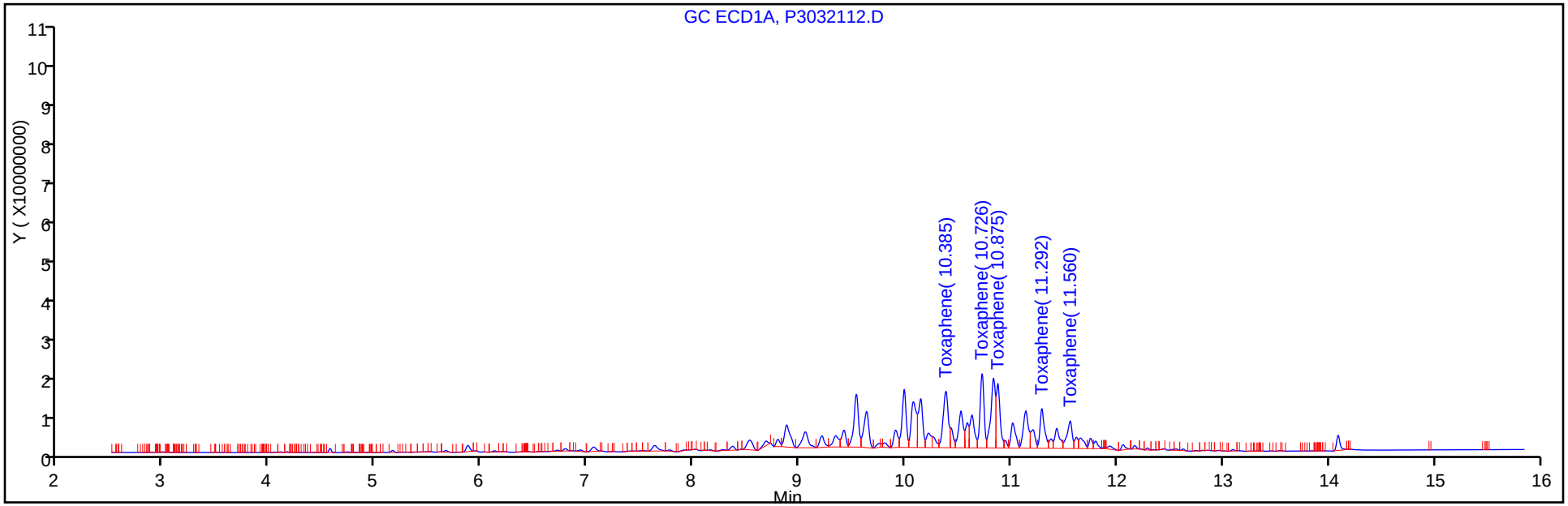
Report Date: 22-Mar-2013 07:47:08 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

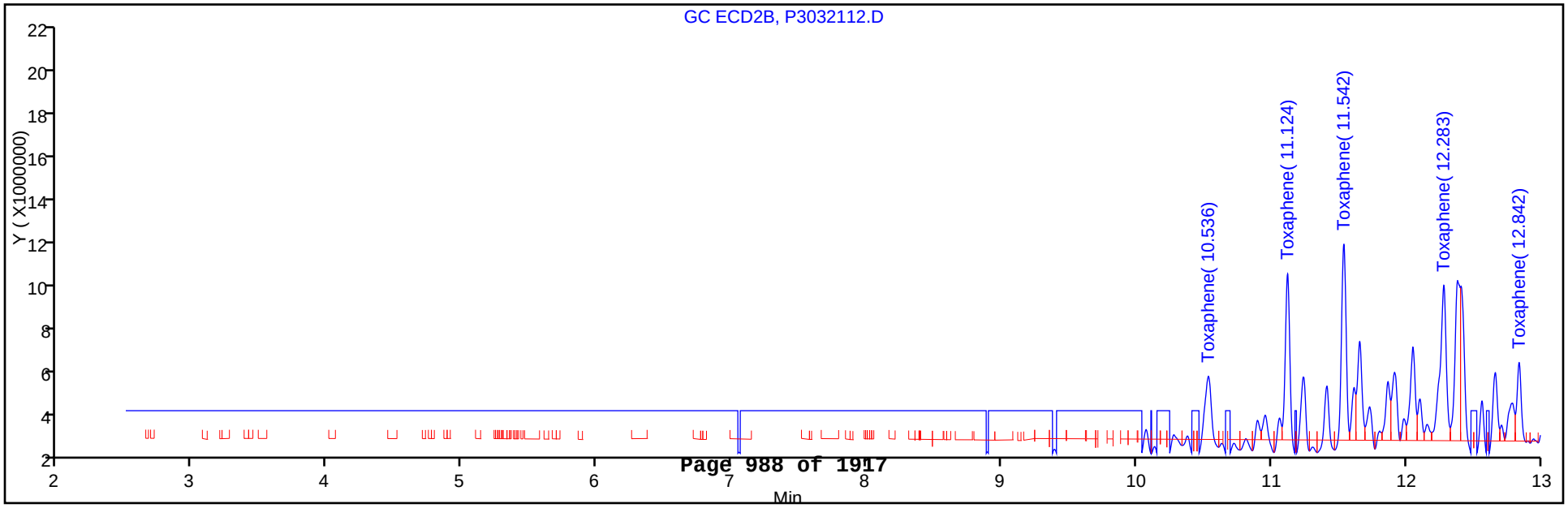
Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032112.D

Injection Date:	21-Mar-2013 18:16:59	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	12
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



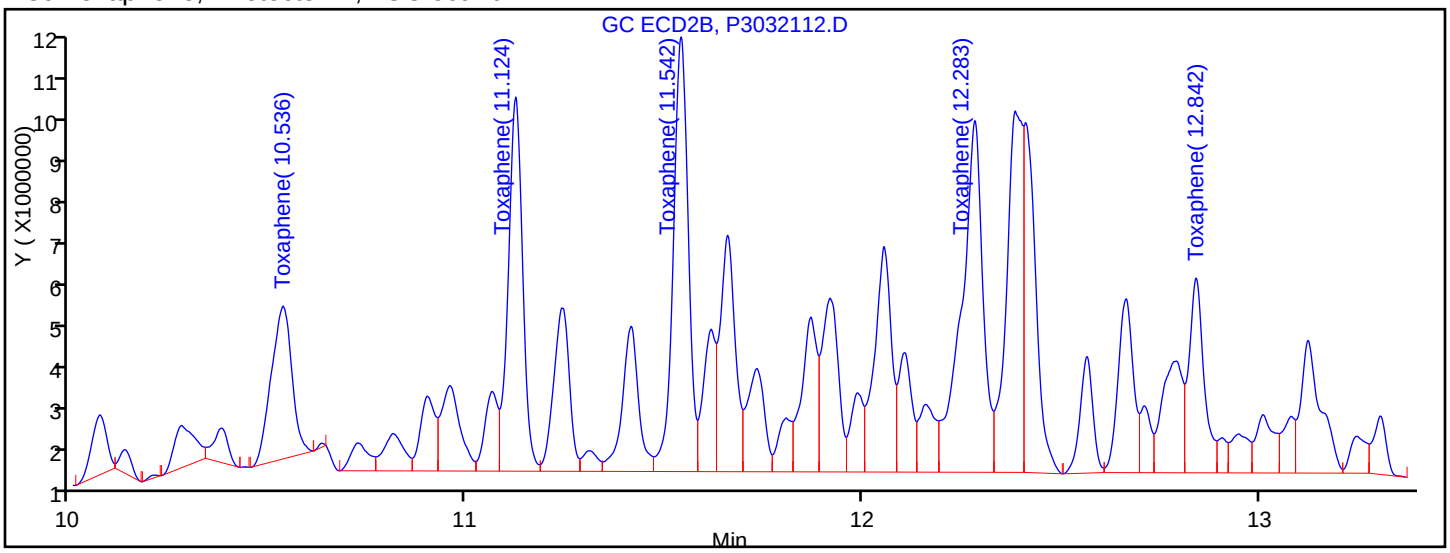
Report Date: 22-Mar-2013 07:47:08 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032112.D

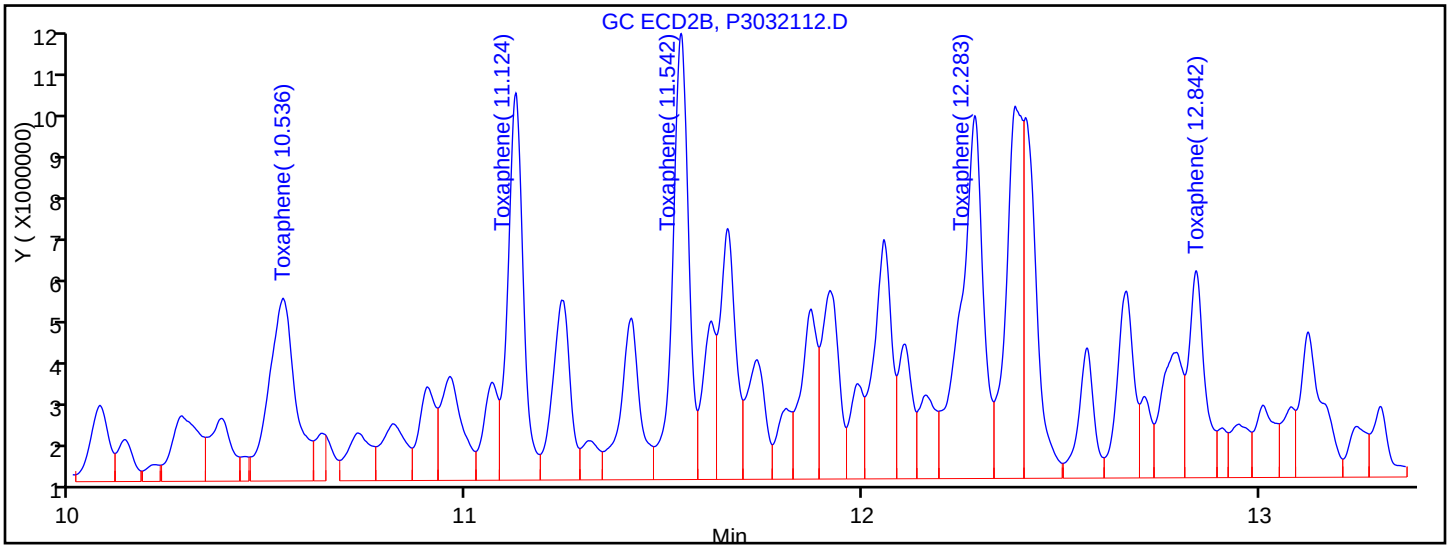
Injection Date:	21-Mar-2013 18:16:59	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	12
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

30 Toxaphene, Detector: 2, GC ecd2b



Processing Integration Results

RT = 10.536	Response = 12806675	M
RT = 11.124	Response = 21850342	M
RT = 11.542	Response = 26541260	M
RT = 12.283	Response = 30707602	M
RT = 12.842	Response = 11893567	M



Manual Integration Results

RT = 10.536	Response = 19935817	M
RT = 11.124	Response = 24653620	M
RT = 11.542	Response = 29426156	M
RT = 12.283	Response = 33966749	M
RT = 12.842	Response = 13647095	M

Reviewer: vandorenc, 22-Mar-2013 07:08:55

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79056/14 Calibration Date: 03/21/2013 18:57

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 14:20

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/14/2013 16:00

Lab File ID: P3032114.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1623707372	1537876040		0.0237	0.0250	-5.3	20.0
gamma-BHC (Lindane)	Ave	1455203462	1391250960		0.0239	0.0250	-4.4	20.0
beta-BHC	Ave	618486639	607547400		0.0246	0.0250	-1.8	20.0
delta-BHC	Ave	1480196914	1480765800		0.0250	0.0250	0.0	20.0
Heptachlor	Ave	1288059053	1322736160		0.0257	0.0250	2.7	20.0
Aldrin	Ave	1359987606	1349404400		0.0248	0.0250	-0.8	20.0
Heptachlor epoxide	Ave	1229987574	1235104440		0.0251	0.0250	0.4	20.0
gamma-Chlordane	Ave	1263492565	1257014720		0.0249	0.0250	-0.5	20.0
alpha-Chlordane	Ave	1289702829	1303369840		0.0253	0.0250	1.1	20.0
Endosulfan I	Ave	1152636801	1161962080		0.0252	0.0250	0.8	20.0
4,4'-DDE	Ave	1266505227	1263194280		0.0249	0.0250	-0.3	20.0
Dieldrin	Ave	1268423751	1291848800		0.0255	0.0250	1.8	20.0
Endrin	Ave	1189138903	1263412360		0.0266	0.0250	6.2	20.0
4,4'-DDD	Ave	970323691	1029907160		0.0265	0.0250	6.1	20.0
Endosulfan II	Ave	1094573989	1145747280		0.0262	0.0250	4.7	20.0
4,4'-DDT	Ave	922210777	1040465320		0.0282	0.0250	12.8	20.0
Endrin aldehyde	Ave	880698493	927844840		0.0263	0.0250	5.4	20.0
Methoxychlor	Ave	461419504	554435560		0.0300	0.0250	20.2*	20.0
Endosulfan sulfate	Ave	981061458	1063472480		0.0271	0.0250	8.4	20.0
Endrin ketone	Ave	1144648217	1269354240		0.0277	0.0250	10.9	20.0
Tetrachloro-m-xylene	Ave	1100163513	1059441920		0.0241	0.0250	-3.7	20.0
DCB Decachlorobiphenyl	Ave	960238458	1031108480		0.0268	0.0250	7.4	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79056/14 Calibration Date: 03/21/2013 18:57

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 14:20

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/14/2013 16:00

Lab File ID: P3032114.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.25	4.22	4.28
gamma-BHC (Lindane)	4.64	4.61	4.67
beta-BHC	4.78	4.75	4.81
delta-BHC	5.00	4.97	5.03
Heptachlor	5.29	5.26	5.32
Aldrin	5.76	5.73	5.79
Heptachlor epoxide	7.03	7.00	7.06
gamma-Chlordane	7.35	7.32	7.38
alpha-Chlordane	7.69	7.66	7.72
Endosulfan I	7.96	7.93	7.99
4,4'-DDE	8.05	8.02	8.08
Dieldrin	8.51	8.48	8.54
Endrin	8.96	8.93	8.99
4,4'-DDD	9.32	9.29	9.35
Endosulfan II	9.41	9.38	9.44
4,4'-DDT	9.83	9.80	9.86
Endrin aldehyde	10.20	10.17	10.23
Methoxychlor	10.78	10.75	10.81
Endosulfan sulfate	10.92	10.89	10.95
Endrin ketone	11.32	11.29	11.35
Tetrachloro-m-xylene	3.56	3.53	3.59
DCB Decachlorobiphenyl	12.93	12.90	12.96

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032114.D
Lims ID: CCV AB3 Client ID:
Inject. Date: 21-Mar-2013 18:57:10 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018156-014
Misc. Info.:
Operator: 093905 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 14
Lims Batch ID: 79056 Lims Sample ID: 14
Sublist: chrom-PEST3*sub7
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130321-18156.b\PEST3.m
Last Update: 22-Mar-2013 16:51:16 Calib Date: 18-Mar-2013 13:40:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130318-18048.b\P3031810.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

First Level Reviewer: shockr Date: 22-Mar-2013 16:51:15

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.562	3.562	0.000	26486048	0.0241			
2	100	4.181	4.181	0.000	13767777	0.0228			
						RPD = 5.46			
5 alpha-BHC									
1	100	4.253	4.253	0.000	38446901	0.0237			
2	100	5.071	5.071	0.000	18732605	0.0243			
						RPD = 2.72			
20 gamma-BHC (Lindane)									
1	100	4.640	4.640	0.000	34781274	0.0239			
2	100	5.691	5.691	0.000	16726915	0.0247			
						RPD = 3.31			
7 beta-BHC									
1	100	4.775	4.775	0.000	15188685	0.0246			
2	100	5.887	5.887	0.000	7637401	0.0258			
						RPD = 5.04			
11 delta-BHC									
1	100	4.996	4.996	0.000	37019145	0.0250			
2	100	6.512	6.512	0.000	17874275	0.0257			
						RPD = 2.70			
22 Heptachlor									
1	100	5.289	5.289	0.000	33068404	0.0257			
2	100	6.582	6.582	0.000	14448085	0.0248			
						RPD = 3.53			
4 Aldrin									
1	100	5.756	5.756	0.000	33735110	0.0248			
2	100	7.382	7.382	0.000	16518117	0.0248			
						RPD = 0.03			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.029	7.029	0.000	30877611	0.0251			
2	100	8.822	8.822	0.000	14903639	0.0256			
						RPD = 2.10			
21 gamma-Chlordane									
1	100	7.347	7.347	0.000	31425368	0.0249			
2	100	9.215	9.215	0.000	15053875	0.0257			
						RPD = 3.13			
6 alpha-Chlordane									
1	100	7.688	7.688	0.000	32584246	0.0253			
2	100	9.514	9.514	0.000	15578197	0.0255			
						RPD = 1.02			
14 Endosulfan I									
1	100	7.958	7.958	0.000	29049052	0.0252			
2	100	9.582	9.582	0.000	13847900	0.0261			
						RPD = 3.36			
2 4,4'-DDE									
1	100	8.052	8.052	0.000	31579857	0.0249			
2	100	9.945	9.945	0.000	15396985	0.0252			
						RPD = 1.25			
13 Dieldrin									
1	100	8.508	8.508	0.000	32296220	0.0255			
2	100	10.097	10.097	0.000	15403588	0.0259			
						RPD = 1.77			
17 Endrin									
1	100	8.960	8.960	0.000	31585309	0.0266			
2	100	10.613	10.613	0.000	14535915	0.0271			
						RPD = 2.12			
1 4,4'-DDD									
1	100	9.315	9.315	0.000	25747679	0.0265			
2	100	10.937	10.937	0.000	11836593	0.0277			
						RPD = 4.24			
15 Endosulfan II									
1	100	9.405	9.405	0.000	28643682	0.0262			
2	100	10.980	10.980	0.000	13405169	0.0276			
						RPD = 5.37			
3 4,4'-DDT									
1	100	9.832	9.832	0.000	26011633	0.0282			
2	100	11.417	11.417	0.000	10843894	0.0274			
						RPD = 2.84			
18 Endrin aldehyde									
1	100	10.197	10.197	0.000	23196121	0.0263			
2	100	11.539	11.539	0.000	10931570	0.0277			
						RPD = 4.93			
27 Methoxychlor									
1	100	10.777	10.777	0.000	13860889	0.0300			
2	100	12.492	12.492	0.000	5830148	0.0292			
						RPD = 2.76			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	10.920	10.920	0.000	26586812	0.0271			
2	100	11.956	11.956	0.000	12365203	0.0280			
						RPD = 3.13			
19 Endrin ketone									
1	100	11.319	11.319	0.000	31733856	0.0277			
2	100	12.707	12.707	0.000	14364414	0.0286			
						RPD = 3.25			
$ 10 DCB Decachlorobiphenyl									
1	100	12.928	12.928	0.000	25777712	0.0268			
2	100	14.422	14.422	0.000	12422585	0.0258			
						RPD = 3.80			

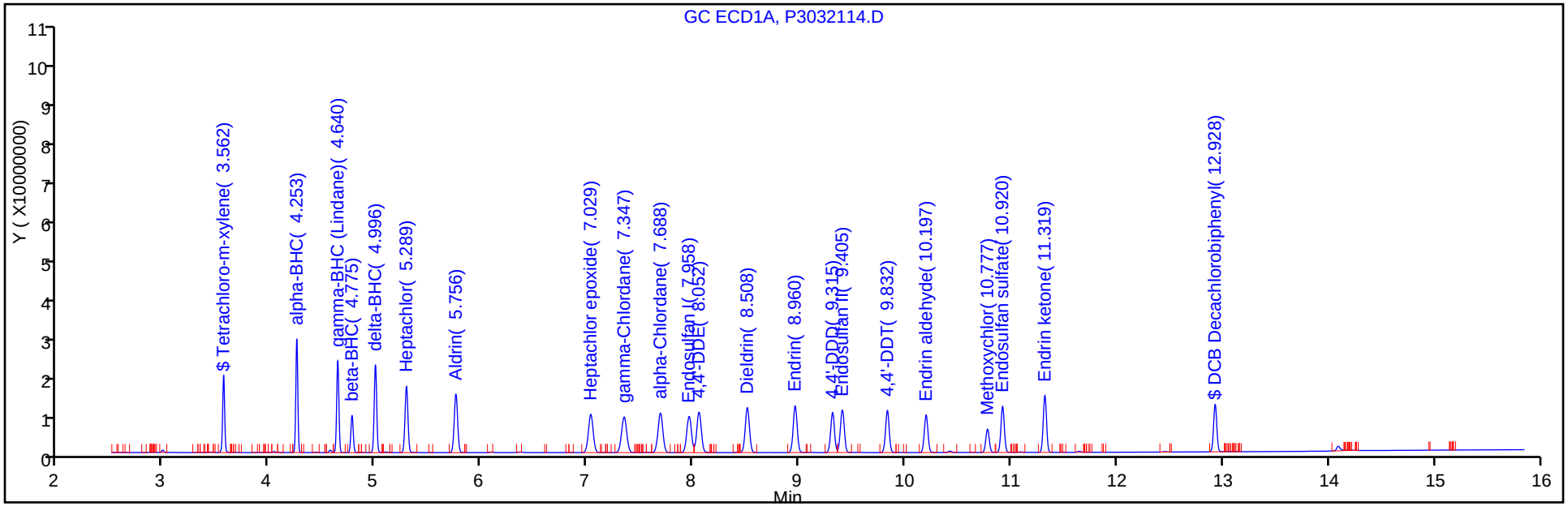
Report Date: 22-Mar-2013 16:51:16 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

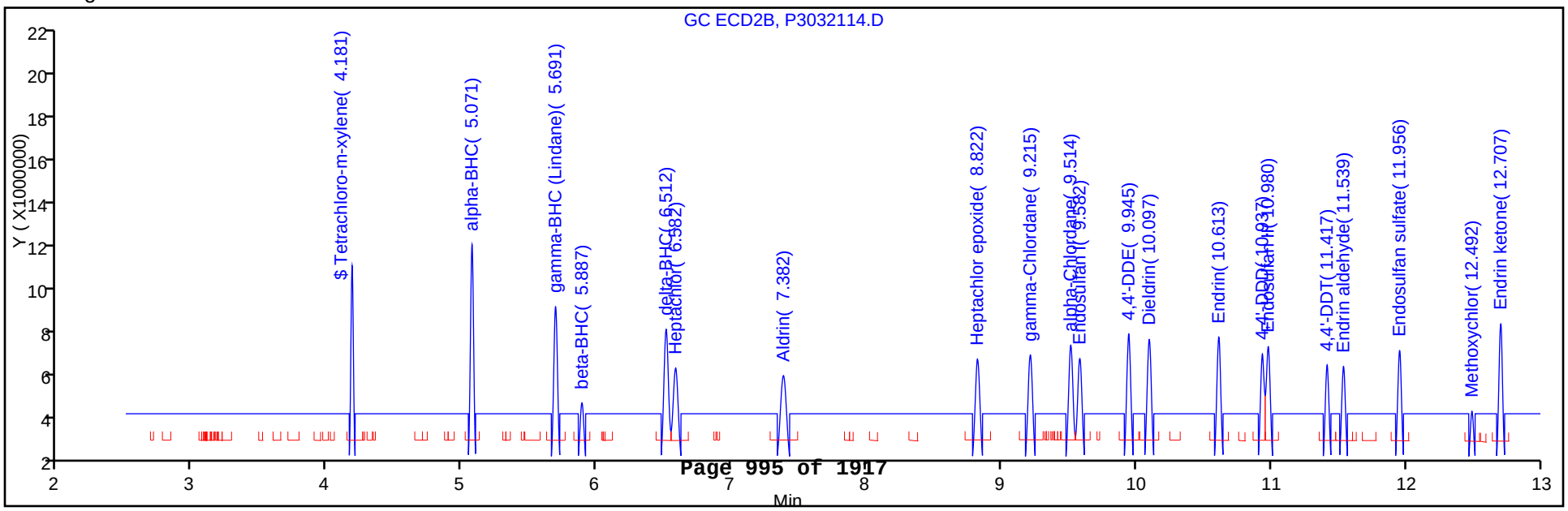
Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032114.D

Injection Date:	21-Mar-2013 18:57:10	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	14
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79056/14 Calibration Date: 03/21/2013 18:57

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 14:20

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/14/2013 16:00

Lab File ID: P3032114.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	769922401	749304200		0.0243	0.0250	-2.7	20.0
gamma-BHC (Lindane)	Ave	677058072	669076600		0.0247	0.0250	-1.2	20.0
beta-BHC	Ave	295707343	305496040		0.0258	0.0250	3.3	20.0
delta-BHC	Ave	695621800	714971000		0.0257	0.0250	2.8	20.0
Heptachlor	Ave	582970513	577923400		0.0248	0.0250	-0.9	20.0
Aldrin	Ave	666083583	660724680		0.0248	0.0250	-0.8	20.0
Heptachlor epoxide	Ave	581320598	596145560		0.0256	0.0250	2.6	20.0
gamma-Chlordane	Ave	586604093	602155000		0.0257	0.0250	2.7	20.0
alpha-Chlordane	Ave	610326008	623127880		0.0255	0.0250	2.1	20.0
Endosulfan I	Ave	531325762	553916000		0.0261	0.0250	4.3	20.0
4,4'-DDE	Ave	609850598	615879400		0.0252	0.0250	1.0	20.0
Dieldrin	Ave	594383876	616143520		0.0259	0.0250	3.7	20.0
Endrin	Ave	535793583	581436600		0.0271	0.0250	8.5	20.0
4,4'-DDD	Ave	427546511	473463720		0.0277	0.0250	10.7	20.0
Endosulfan II	Ave	485472127	536206760		0.0276	0.0250	10.5	20.0
4,4'-DDT	Ave	395546624	433755760		0.0274	0.0250	9.7	20.0
Endrin aldehyde	Ave	395073591	437262800		0.0277	0.0250	10.7	20.0
Endosulfan sulfate	Ave	442236050	494608120		0.0280	0.0250	11.8	20.0
Methoxychlor	Ave	199518519	233205920		0.0292	0.0250	16.9	20.0
Endrin ketone	Ave	501538938	574576560		0.0286	0.0250	14.6	20.0
Tetrachloro-m-xylene	Ave	603960426	550711080		0.0228	0.0250	-8.8	20.0
DCB Decachlorobiphenyl	Ave	480698861	496903400		0.0258	0.0250	3.4	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79056/14 Calibration Date: 03/21/2013 18:57

Instrument ID: A2HP3 Calib Start Date: 03/14/2013 14:20

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/14/2013 16:00

Lab File ID: P3032114.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.07	5.04	5.10
gamma-BHC (Lindane)	5.69	5.66	5.72
beta-BHC	5.89	5.86	5.92
delta-BHC	6.51	6.48	6.54
Heptachlor	6.58	6.55	6.61
Aldrin	7.38	7.35	7.41
Heptachlor epoxide	8.82	8.79	8.85
gamma-Chlordane	9.22	9.19	9.25
alpha-Chlordane	9.51	9.48	9.54
Endosulfan I	9.58	9.55	9.61
4,4'-DDE	9.95	9.92	9.98
Dieldrin	10.10	10.07	10.13
Endrin	10.61	10.58	10.64
4,4'-DDD	10.94	10.91	10.97
Endosulfan II	10.98	10.95	11.01
4,4'-DDT	11.42	11.39	11.45
Endrin aldehyde	11.54	11.51	11.57
Endosulfan sulfate	11.96	11.93	11.99
Methoxychlor	12.49	12.46	12.52
Endrin ketone	12.71	12.68	12.74
Tetrachloro-m-xylene	4.18	4.15	4.21
DCB Decachlorobiphenyl	14.42	14.39	14.45

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032114.D
Lims ID: CCV AB3 Client ID:
Inject. Date: 21-Mar-2013 18:57:10 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018156-014
Misc. Info.:
Operator: 093905 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 14
Lims Batch ID: 79056 Lims Sample ID: 14
Sublist: chrom-PEST3*sub7
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130321-18156.b\PEST3.m
Last Update: 22-Mar-2013 16:51:16 Calib Date: 18-Mar-2013 13:40:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130318-18048.b\P3031810.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

First Level Reviewer: shockr Date: 22-Mar-2013 16:51:15

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.562	3.562	0.000	26486048	0.0241			
2	100	4.181	4.181	0.000	13767777	0.0228			
						RPD = 5.46			
5 alpha-BHC									
1	100	4.253	4.253	0.000	38446901	0.0237			
2	100	5.071	5.071	0.000	18732605	0.0243			
						RPD = 2.72			
20 gamma-BHC (Lindane)									
1	100	4.640	4.640	0.000	34781274	0.0239			
2	100	5.691	5.691	0.000	16726915	0.0247			
						RPD = 3.31			
7 beta-BHC									
1	100	4.775	4.775	0.000	15188685	0.0246			
2	100	5.887	5.887	0.000	7637401	0.0258			
						RPD = 5.04			
11 delta-BHC									
1	100	4.996	4.996	0.000	37019145	0.0250			
2	100	6.512	6.512	0.000	17874275	0.0257			
						RPD = 2.70			
22 Heptachlor									
1	100	5.289	5.289	0.000	33068404	0.0257			
2	100	6.582	6.582	0.000	14448085	0.0248			
						RPD = 3.53			
4 Aldrin									
1	100	5.756	5.756	0.000	33735110	0.0248			
2	100	7.382	7.382	0.000	16518117	0.0248			
						RPD = 0.03			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.029	7.029	0.000	30877611	0.0251			
2	100	8.822	8.822	0.000	14903639	0.0256			
						RPD = 2.10			
21 gamma-Chlordane									
1	100	7.347	7.347	0.000	31425368	0.0249			
2	100	9.215	9.215	0.000	15053875	0.0257			
						RPD = 3.13			
6 alpha-Chlordane									
1	100	7.688	7.688	0.000	32584246	0.0253			
2	100	9.514	9.514	0.000	15578197	0.0255			
						RPD = 1.02			
14 Endosulfan I									
1	100	7.958	7.958	0.000	29049052	0.0252			
2	100	9.582	9.582	0.000	13847900	0.0261			
						RPD = 3.36			
2 4,4'-DDE									
1	100	8.052	8.052	0.000	31579857	0.0249			
2	100	9.945	9.945	0.000	15396985	0.0252			
						RPD = 1.25			
13 Dieldrin									
1	100	8.508	8.508	0.000	32296220	0.0255			
2	100	10.097	10.097	0.000	15403588	0.0259			
						RPD = 1.77			
17 Endrin									
1	100	8.960	8.960	0.000	31585309	0.0266			
2	100	10.613	10.613	0.000	14535915	0.0271			
						RPD = 2.12			
1 4,4'-DDD									
1	100	9.315	9.315	0.000	25747679	0.0265			
2	100	10.937	10.937	0.000	11836593	0.0277			
						RPD = 4.24			
15 Endosulfan II									
1	100	9.405	9.405	0.000	28643682	0.0262			
2	100	10.980	10.980	0.000	13405169	0.0276			
						RPD = 5.37			
3 4,4'-DDT									
1	100	9.832	9.832	0.000	26011633	0.0282			
2	100	11.417	11.417	0.000	10843894	0.0274			
						RPD = 2.84			
18 Endrin aldehyde									
1	100	10.197	10.197	0.000	23196121	0.0263			
2	100	11.539	11.539	0.000	10931570	0.0277			
						RPD = 4.93			
27 Methoxychlor									
1	100	10.777	10.777	0.000	13860889	0.0300			
2	100	12.492	12.492	0.000	5830148	0.0292			
						RPD = 2.76			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	10.920	10.920	0.000	26586812	0.0271			
2	100	11.956	11.956	0.000	12365203	0.0280			
						RPD = 3.13			
19 Endrin ketone									
1	100	11.319	11.319	0.000	31733856	0.0277			
2	100	12.707	12.707	0.000	14364414	0.0286			
						RPD = 3.25			
$ 10 DCB Decachlorobiphenyl									
1	100	12.928	12.928	0.000	25777712	0.0268			
2	100	14.422	14.422	0.000	12422585	0.0258			
						RPD = 3.80			

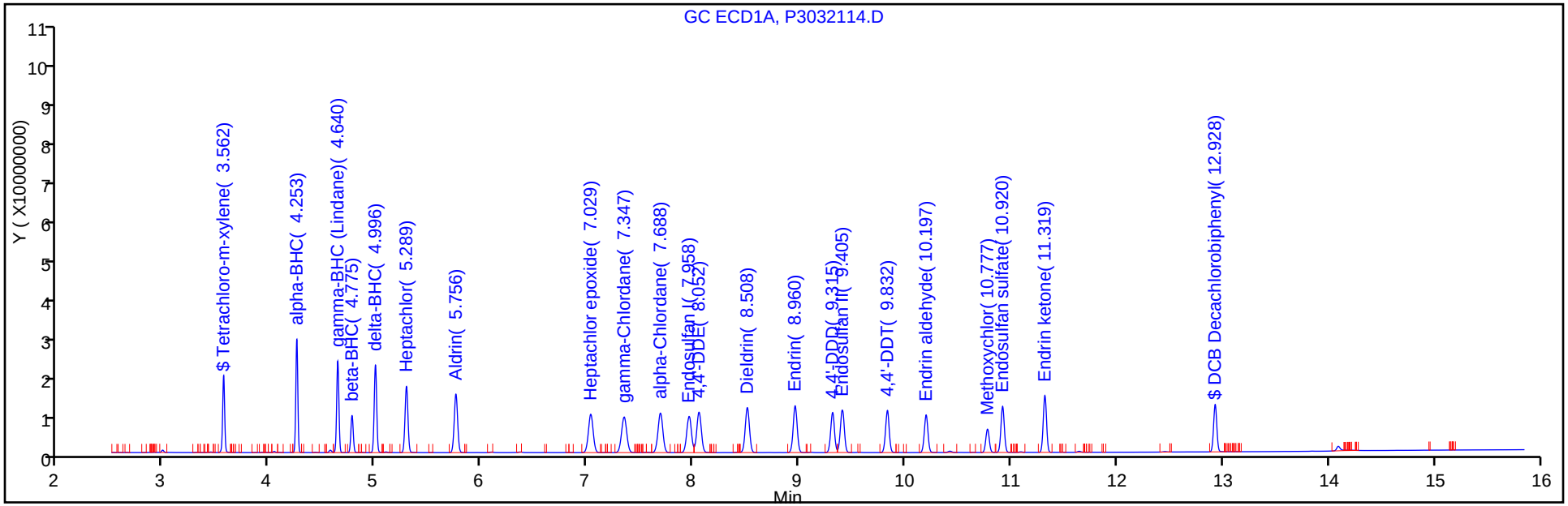
Report Date: 22-Mar-2013 16:51:16 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

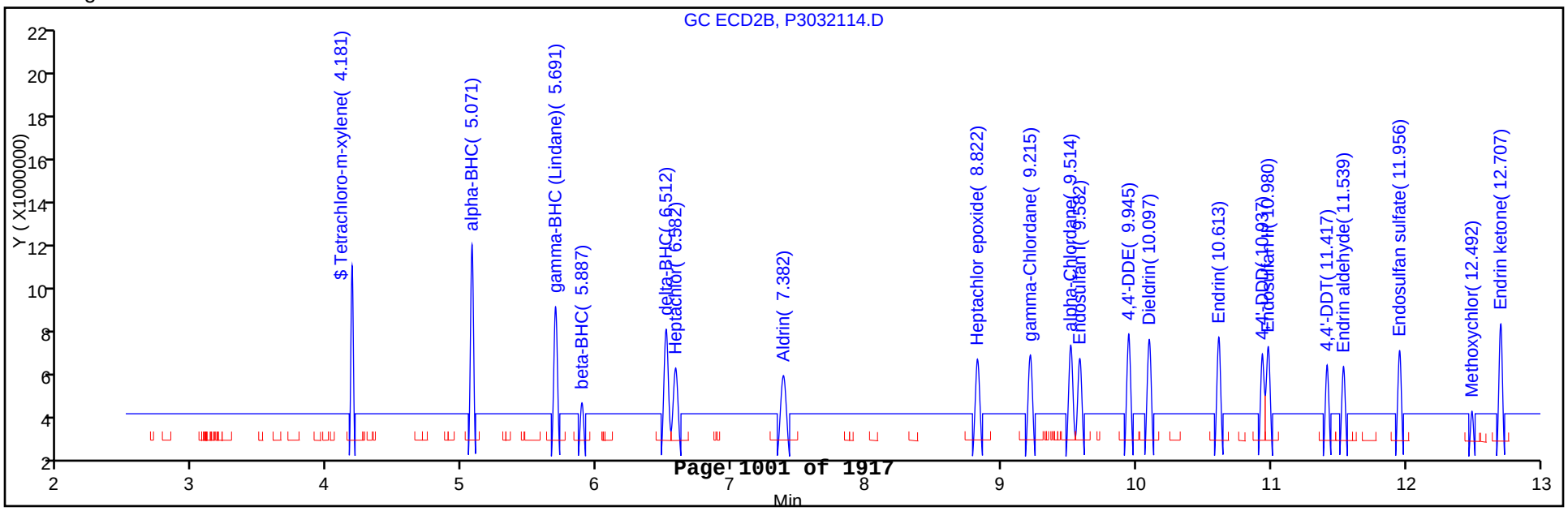
Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032114.D

Injection Date:	21-Mar-2013 18:57:10	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	14
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-78726/2-A

Matrix: Water | Lab File ID: P3032111.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: 3520C | Date Extracted: 03/19/2013 09:10

Sample wt/vol: 1000(mL) | Date Analyzed: 03/21/2013 17:56

Con. Extract Vol.: 5.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 79056 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	0.010	U	0.050	0.010	0.0096
72-55-9	4,4'-DDE	0.010	U	0.050	0.010	0.0097
50-29-3	4,4'-DDT	0.030	U	0.050	0.030	0.016
309-00-2	Aldrin	0.010	U	0.050	0.010	0.0082
319-84-6	alpha-BHC	0.010	U	0.050	0.010	0.0070
5103-71-9	alpha-Chlordane	0.014	U	0.050	0.014	0.014
319-85-7	beta-BHC	0.010	U	0.050	0.010	0.0084
319-86-8	delta-BHC	0.010	U	0.050	0.010	0.0087
60-57-1	Dieldrin	0.010	U	0.050	0.010	0.0075
959-98-8	Endosulfan I	0.013	U	0.050	0.013	0.013
33213-65-9	Endosulfan II	0.012	U	0.050	0.012	0.012
1031-07-8	Endosulfan sulfate	0.011	U	0.050	0.011	0.011
72-20-8	Endrin	0.011	U	0.050	0.011	0.011
7421-93-4	Endrin aldehyde	0.011	U	0.050	0.011	0.011
53494-70-5	Endrin ketone	0.010	U	0.050	0.010	0.0078
58-89-9	gamma-BHC (Lindane)	0.010	U	0.050	0.010	0.0064
5103-74-2	gamma-Chlordane	0.012	U	0.050	0.012	0.012
76-44-8	Heptachlor	0.010	U	0.050	0.010	0.0080
1024-57-3	Heptachlor epoxide	0.010	U	0.050	0.010	0.0071
72-43-5	Methoxychlor	0.032	U	0.10	0.032	0.032
8001-35-2	Toxaphene	0.50	U	2.0	0.50	0.32

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	91		30-135
877-09-8	Tetrachloro-m-xylene	85		25-140

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032111.D		
Lims ID:	MB 240-78726/2-A	Client ID:	
Inject. Date:	21-Mar-2013 17:56:55	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	240-0018156-011		
Misc. Info.:			
Operator:	093905	Instrument ID:	A2HP3
Injection Vol:	1.0 ul	ALS Bottle#:	11
Lims Batch ID:	79056	Lims Sample ID:	11
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\NCChrom\ChromData\A2HP3\20130321-18156.b\PEST3.m		
Last Update:	22-Mar-2013 07:46:59	Calib Date:	18-Mar-2013 13:40:37
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A2HP3\20130318-18048.b\P3031810.D		
Limit Group:	GC 8081 D0D ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK006		
First Level Reviewer: vandorenc		Date:	22-Mar-2013 07:06:23

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.563	3.562	0.001	37393153	0.0340			
2	100	4.181	4.181	0.000	19806228	0.0328			
						RPD = 3.58			
24 Hexachlorobenzene									
1	100		4.037						
2	100		4.819						
5 alpha-BHC									
1	100		4.253						
2	100		5.071						
20 gamma-BHC (Lindane)									
1	100		4.639						
2	100		5.692						
7 beta-BHC									
1	100		4.774						
2	100		5.888						
11 delta-BHC									
1	100		4.995						
2	100		6.513						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100		5.171						
1	2		6.058						
1	3		7.345						
1	4		7.683						
2	100		6.255						
2	2		7.885						
2	3		9.213						
2	4		9.513						
22 Heptachlor									
1	100		5.288						
2	100		6.583						
4 Aldrin									
1	100		5.755						
2	100		7.384						
12 Diallate									
1	100		5.769						
1	2		0.0						
2	100		0.0						
2	2		6.690						
25 Isodrin									1
1	100		6.367						
2	100		8.367						
23 Heptachlor epoxide									
1	100		7.028						
2	100		8.824						
21 gamma-Chlordane									
1	100		7.343						
2	100		9.217						
6 alpha-Chlordane									
1	100		7.685						
2	100		9.515						
14 Endosulfan I									1
1	100		7.957						
2	100		9.583						
2 4,4'-DDE									
1	100		8.050						
2	100		9.947						
28 Mirex									
1	100		8.279						
2	100		9.197						
13 Dieldrin									
1	100		8.509						
2	100		10.099						
17 Endrin									
1	100		8.960						
2	100		10.614						
26 Kepone									
1	100		9.025						
2	100		10.764						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
1 4,4'-DDD									
1	100		9.313						
2	100		10.938						
15 Endosulfan II									1
1	100		9.404						
2	100		10.982						
3 4,4'-DDT									1
1	100		9.831						
2	100		11.418						
18 Endrin aldehyde									
1	100		10.197						
2	100		11.540						
30 Toxaphene									1
1	1		10.383						
1	2		10.726						
1	3		10.874						
1	4		11.289						
1	5		11.556						
2	100		10.537						
2	2		11.123						
2	3		11.542						
2	4		12.283						
2	5		12.841						
27 Methoxychlor									
1	100		10.776						
2	100		12.493						
9 Chlorobenzilate									
1	100		10.876						
2	100		11.728						
16 Endosulfan sulfate									1
1	100		10.920						
2	100		11.956						
19 Endrin ketone									
1	100		11.318						
2	100		12.705						
$ 10 DCB Decachlorobiphenyl									
1	100	12.927	12.927	0.000	35113852	0.0366			
2	100	14.420	14.421	-0.001	17159567	0.0357			
						RPD = 2.41			

QC Flag Legend

Processing Flags
1 - Missing Peaks

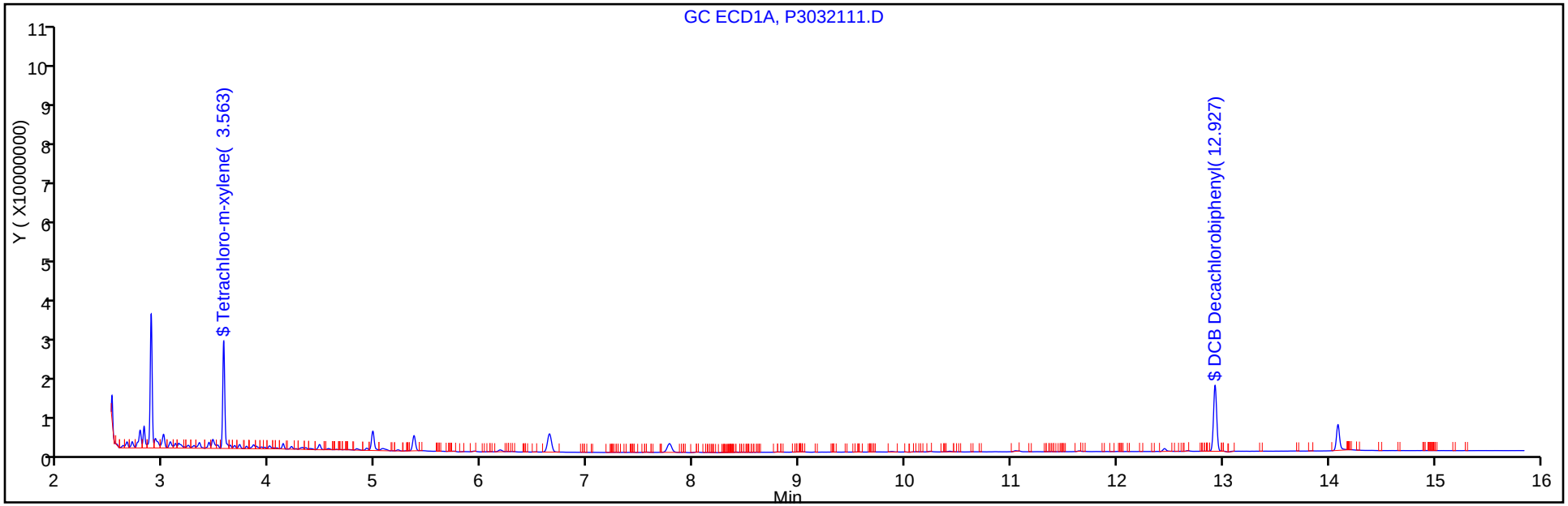
Report Date: 22-Mar-2013 07:47:06 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

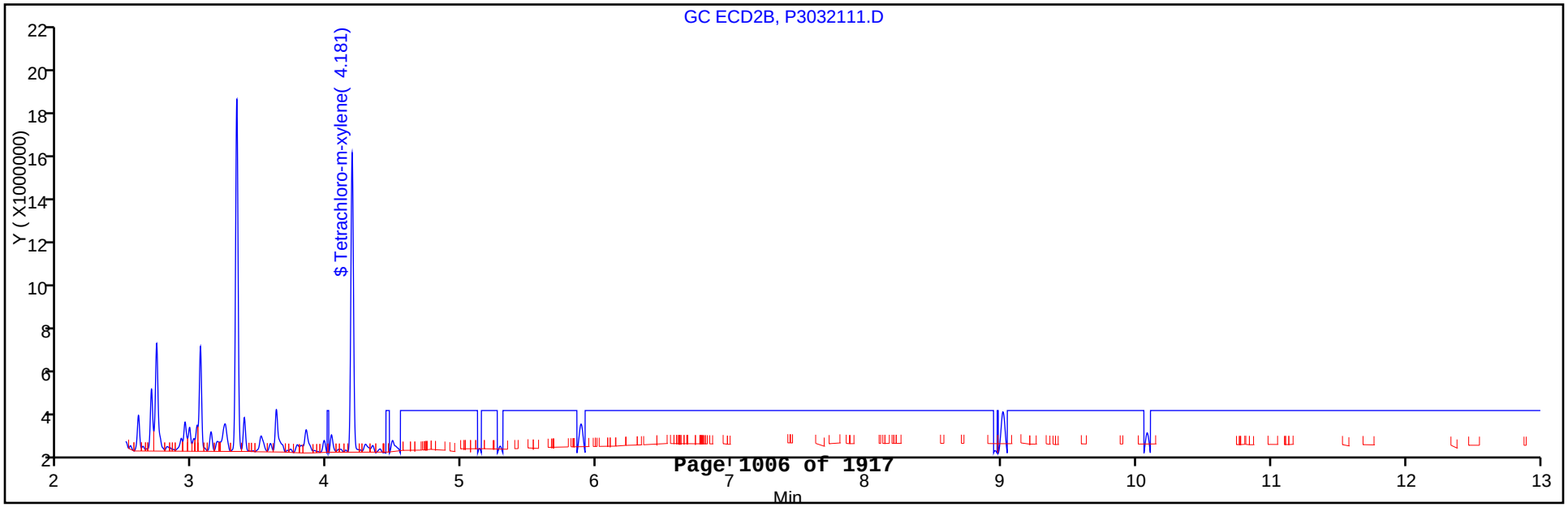
Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032111.D

Injection Date:	21-Mar-2013 17:56:55	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	11
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-78726/2-A

Matrix: Water Lab File ID: P3032111.D

Analysis Method: 8081/DOD Date Collected:

Extraction Method: 3520C Date Extracted: 03/19/2013 09:10

Sample wt/vol: 1000(mL) Date Analyzed: 03/21/2013 17:56

Con. Extract Vol.: 5.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 79056 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	89		30-135
877-09-8	Tetrachloro-m-xylene	82		25-140

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032111.D		
Lims ID:	MB 240-78726/2-A	Client ID:	
Inject. Date:	21-Mar-2013 17:56:55	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	240-0018156-011		
Misc. Info.:			
Operator:	093905	Instrument ID:	A2HP3
Injection Vol:	1.0 ul	ALS Bottle#:	11
Lims Batch ID:	79056	Lims Sample ID:	11
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\NCChrom\ChromData\A2HP3\20130321-18156.b\PEST3.m		
Last Update:	22-Mar-2013 07:46:59	Calib Date:	18-Mar-2013 13:40:37
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A2HP3\20130318-18048.b\P3031810.D		
Limit Group:	GC 8081 D0D ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK006		
First Level Reviewer: vandorenc		Date:	22-Mar-2013 07:06:23

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.563	3.562	0.001	37393153	0.0340			
2	100	4.181	4.181	0.000	19806228	0.0328			
						RPD = 3.58			
24 Hexachlorobenzene									
1	100		4.037						
2	100		4.819						
5 alpha-BHC									
1	100		4.253						
2	100		5.071						
20 gamma-BHC (Lindane)									
1	100		4.639						
2	100		5.692						
7 beta-BHC									
1	100		4.774						
2	100		5.888						
11 delta-BHC									
1	100		4.995						
2	100		6.513						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100		5.171						
1	2		6.058						
1	3		7.345						
1	4		7.683						
2	100		6.255						
2	2		7.885						
2	3		9.213						
2	4		9.513						
22 Heptachlor									
1	100		5.288						
2	100		6.583						
4 Aldrin									
1	100		5.755						
2	100		7.384						
12 Diallate									
1	100		5.769						
1	2		0.0						
2	100		0.0						
2	2		6.690						
25 Isodrin									1
1	100		6.367						
2	100		8.367						
23 Heptachlor epoxide									
1	100		7.028						
2	100		8.824						
21 gamma-Chlordane									
1	100		7.343						
2	100		9.217						
6 alpha-Chlordane									
1	100		7.685						
2	100		9.515						
14 Endosulfan I									1
1	100		7.957						
2	100		9.583						
2 4,4'-DDE									
1	100		8.050						
2	100		9.947						
28 Mirex									
1	100		8.279						
2	100		9.197						
13 Dieldrin									
1	100		8.509						
2	100		10.099						
17 Endrin									
1	100		8.960						
2	100		10.614						
26 Kepone									
1	100		9.025						
2	100		10.764						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
1 4,4'-DDD									
1	100		9.313						
2	100		10.938						
15 Endosulfan II									1
1	100		9.404						
2	100		10.982						
3 4,4'-DDT									1
1	100		9.831						
2	100		11.418						
18 Endrin aldehyde									
1	100		10.197						
2	100		11.540						
30 Toxaphene									1
1	1		10.383						
1	2		10.726						
1	3		10.874						
1	4		11.289						
1	5		11.556						
2	100		10.537						
2	2		11.123						
2	3		11.542						
2	4		12.283						
2	5		12.841						
27 Methoxychlor									
1	100		10.776						
2	100		12.493						
9 Chlorobenzilate									
1	100		10.876						
2	100		11.728						
16 Endosulfan sulfate									1
1	100		10.920						
2	100		11.956						
19 Endrin ketone									
1	100		11.318						
2	100		12.705						
$ 10 DCB Decachlorobiphenyl									
1	100	12.927	12.927	0.000	35113852	0.0366			
2	100	14.420	14.421	-0.001	17159567	0.0357			
						RPD = 2.41			

QC Flag Legend

Processing Flags
1 - Missing Peaks

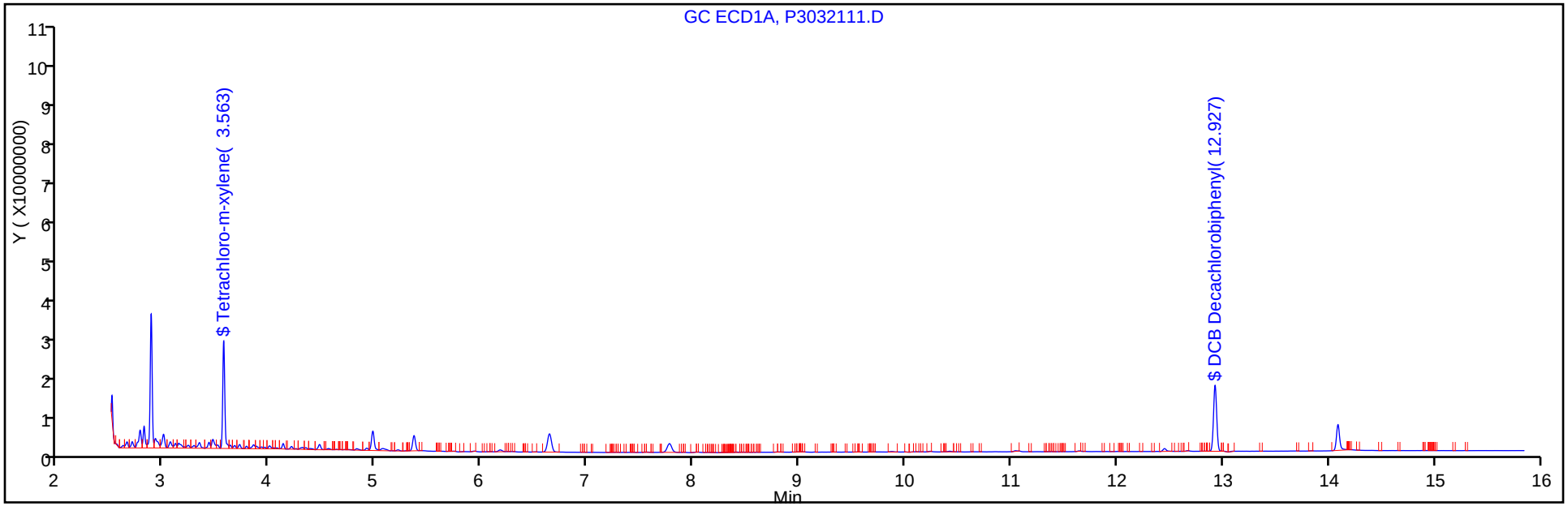
Report Date: 22-Mar-2013 07:47:06 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

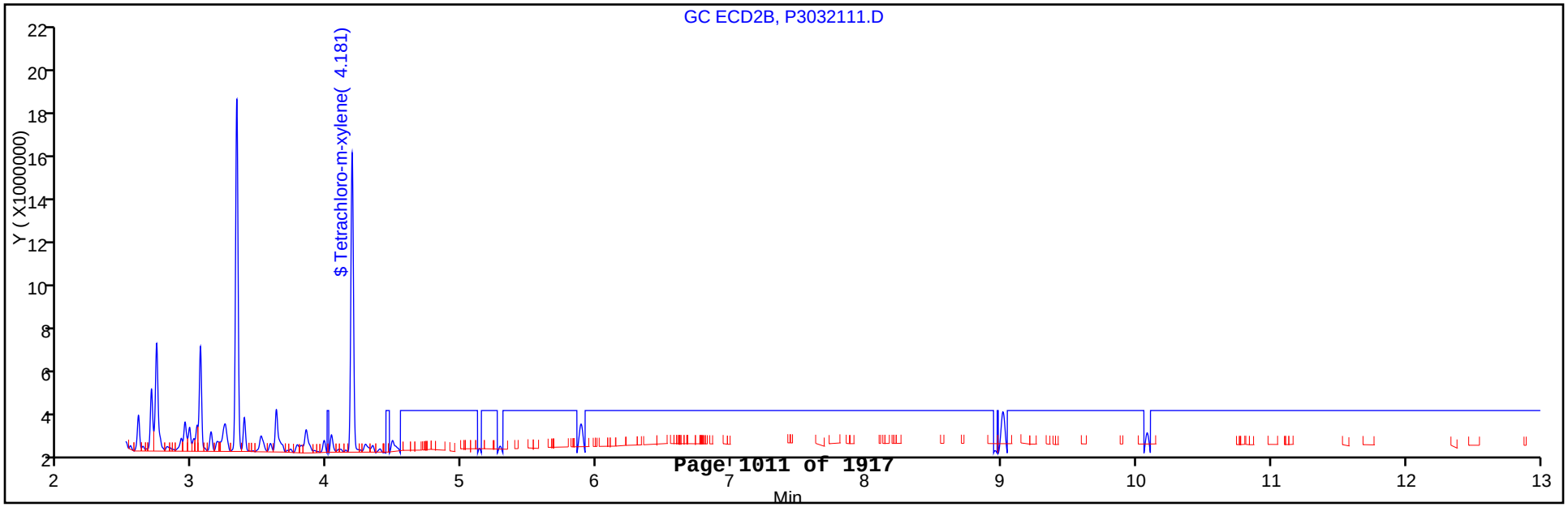
Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032111.D

Injection Date:	21-Mar-2013 17:56:55	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	11
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-78726/3-A

Matrix: Water | Lab File ID: P3032109.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: 3520C | Date Extracted: 03/19/2013 09:10

Sample wt/vol: 1000(mL) | Date Analyzed: 03/21/2013 17:16

Con. Extract Vol.: 5.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 79056 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	0.547		0.050	0.010	0.0096
72-55-9	4,4'-DDE	0.505		0.050	0.010	0.0097
50-29-3	4,4'-DDT	0.596		0.050	0.030	0.016
309-00-2	Aldrin	0.485		0.050	0.010	0.0082
319-84-6	alpha-BHC	0.469		0.050	0.010	0.0070
5103-71-9	alpha-Chlordane	0.492		0.050	0.014	0.014
319-85-7	beta-BHC	0.474		0.050	0.010	0.0084
319-86-8	delta-BHC	0.518		0.050	0.010	0.0087
60-57-1	Dieldrin	0.514		0.050	0.010	0.0075
959-98-8	Endosulfan I	0.418		0.050	0.013	0.013
33213-65-9	Endosulfan II	0.454		0.050	0.012	0.012
1031-07-8	Endosulfan sulfate	0.526		0.050	0.011	0.011
72-20-8	Endrin	0.520		0.050	0.011	0.011
7421-93-4	Endrin aldehyde	0.486		0.050	0.011	0.011
53494-70-5	Endrin ketone	0.510		0.050	0.010	0.0078
58-89-9	gamma-BHC (Lindane)	0.476		0.050	0.010	0.0064
5103-74-2	gamma-Chlordane	0.510		0.050	0.012	0.012
76-44-8	Heptachlor	0.492		0.050	0.010	0.0080
1024-57-3	Heptachlor epoxide	0.501		0.050	0.010	0.0071
72-43-5	Methoxychlor	0.572		0.10	0.032	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	56		30-135
877-09-8	Tetrachloro-m-xylene	79		25-140

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032109.D
Lims ID: LCS 240-78726/3-A
Client ID:
Inject. Date: 21-Mar-2013 17:16:44
Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0018156-009
Misc. Info.:
Operator: 093905
Instrument ID: A2HP3
Injection Vol: 1.0 ul
ALS Bottle#: 9
Lims Batch ID: 79056
Lims Sample ID: 9
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130321-18156.b\PEST3.m
Last Update: 22-Mar-2013 07:46:59
Calib Date: 18-Mar-2013 13:40:37
Quant Method: External Standard
Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130318-18048.b\P3031810.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type:
Column Dia:
Process Host: XAWRK006

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.562	3.562	0.000	34944518	0.0318			
2	100	4.181	4.181	0.000	18807704	0.0311			
						RPD = 1.98			
5 alpha-BHC									
1	100	4.253	4.253	0.000	152195392	0.0937			
2	100	5.070	5.071	-0.001	80386959	0.1044			
						RPD = 10.78			
20 gamma-BHC (Lindane)									
1	100	4.641	4.639	0.002	138446603	0.0951			
2	100	5.691	5.692	-0.001	71567062	0.1057			
						RPD = 10.52			
7 beta-BHC									
1	100	4.774	4.774	0.000	58641587	0.0948			
2	100	5.886	5.888	-0.002	30321913	0.1025			
						RPD = 7.83			
11 delta-BHC									
1	100	4.996	4.995	0.001	153299495	0.1036			
2	100	6.511	6.513	-0.002	80191364	0.1153			
						RPD = 10.70			
22 Heptachlor									
1	100	5.289	5.288	0.001	126818020	0.0985			
2	100	6.581	6.583	-0.002	59478893	0.1020			
						RPD = 3.56			
4 Aldrin									
1	100	5.755	5.755	0.000	131952914	0.0970			
2	100	7.381	7.384	-0.003	69187541	0.1039			
						RPD = 6.82			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.030	7.028	0.002	123258859	0.1002			
2	100	8.823	8.824	-0.001	62364030	0.1073			
						RPD = 6.81			
21 gamma-Chlordane									
1	100	7.345	7.343	0.002	128944074	0.1021			
2	100	9.215	9.217	-0.002	64130293	0.1093			
						RPD = 6.88			
6 alpha-Chlordane									
1	100	7.686	7.685	0.001	127022088	0.0985			
2	100	9.515	9.515	0.000	63895255	0.1047			
						RPD = 6.10			
14 Endosulfan I									
1	100	7.958	7.957	0.001	96297319	0.0835			
2	100	9.580	9.583	-0.003	48372170	0.0910			
						RPD = 8.59			
2 4,4'-DDE									
1	100	8.052	8.050	0.002	128021486	0.1011			
2	100	9.945	9.947	-0.002	66122800	0.1084			
						RPD = 7.01			
13 Dieldrin									
1	100	8.509	8.509	0.000	130519809	0.1029			
2	100	10.097	10.099	-0.002	65858721	0.1108			
						RPD = 7.40			
17 Endrin									
1	100	8.960	8.960	0.000	123780957	0.1041			
2	100	10.612	10.614	-0.002	60615332	0.1131			
						RPD = 8.32			
1 4,4'-DDD									
1	100	9.313	9.313	0.000	106135693	0.1094			
2	100	10.937	10.938	-0.001	51424795	0.1203			
						RPD = 9.49			
15 Endosulfan II									
1	100	9.405	9.404	0.001	99389983	0.0908			
2	100	10.980	10.982	-0.002	48306968	0.0995			
						RPD = 9.15			
3 4,4'-DDT									
1	100	9.832	9.831	0.001	109852487	0.1191			
2	100	11.417	11.418	-0.001	46888994	0.1185			
						RPD = 0.49			
18 Endrin aldehyde									
1	100	10.197	10.197	0.000	85541360	0.0971			
2	100	11.538	11.540	-0.002	41870555	0.1060			
						RPD = 8.72			
27 Methoxychlor									
1	100	10.776	10.776	0.000	52765566	0.1144			
2	100	12.492	12.493	-0.001	22518721	0.1129			
						RPD = 1.31			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	10.920	10.920	0.000	103112263	0.1051			
2	100	11.954	11.956	-0.002	50306566	0.1138			
						RPD = 7.91			
19 Endrin ketone									
1	100	11.319	11.318	0.001	116703843	0.1020			
2	100	12.704	12.705	-0.001	54351243	0.1084			
						RPD = 6.10			
$ 10 DCB Decachlorobiphenyl									
1	100	12.927	12.927	0.000	21393526	0.0223			
2	100	14.420	14.421	-0.001	10508500	0.0219			
						RPD = 1.90			

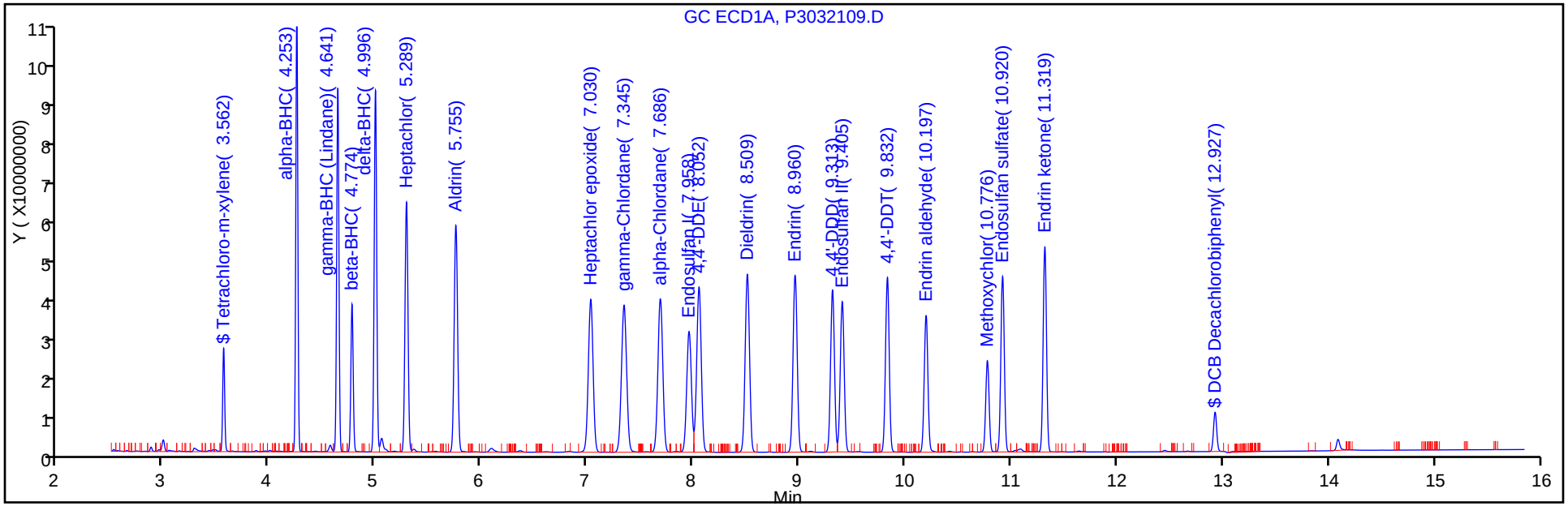
Report Date: 22-Mar-2013 07:47:04 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

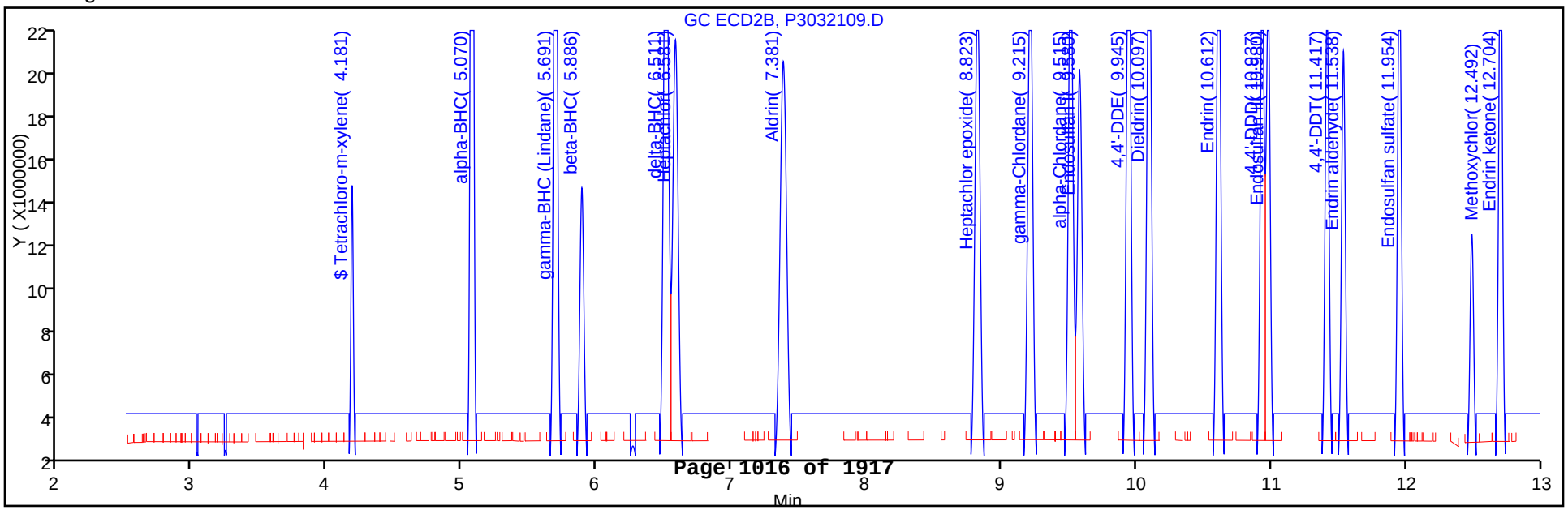
Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032109.D

Injection Date:	21-Mar-2013 17:16:44	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	9
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-78726/3-A

Matrix: Water | Lab File ID: P3032109.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: 3520C | Date Extracted: 03/19/2013 09:10

Sample wt/vol: 1000(mL) | Date Analyzed: 03/21/2013 17:16

Con. Extract Vol.: 5.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 79056 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	55		30-135
877-09-8	Tetrachloro-m-xylene	78		25-140

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032109.D
Lims ID: LCS 240-78726/3-A Client ID:
Inject. Date: 21-Mar-2013 17:16:44 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0018156-009
Misc. Info.:
Operator: 093905 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 9
Lims Batch ID: 79056 Lims Sample ID: 9
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130321-18156.b\PEST3.m
Last Update: 22-Mar-2013 07:46:59 Calib Date: 18-Mar-2013 13:40:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130318-18048.b\P3031810.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK006

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.562	3.562	0.000	34944518	0.0318			
2	100	4.181	4.181	0.000	18807704	0.0311			
						RPD = 1.98			
5 alpha-BHC									
1	100	4.253	4.253	0.000	152195392	0.0937			
2	100	5.070	5.071	-0.001	80386959	0.1044			
						RPD = 10.78			
20 gamma-BHC (Lindane)									
1	100	4.641	4.639	0.002	138446603	0.0951			
2	100	5.691	5.692	-0.001	71567062	0.1057			
						RPD = 10.52			
7 beta-BHC									
1	100	4.774	4.774	0.000	58641587	0.0948			
2	100	5.886	5.888	-0.002	30321913	0.1025			
						RPD = 7.83			
11 delta-BHC									
1	100	4.996	4.995	0.001	153299495	0.1036			
2	100	6.511	6.513	-0.002	80191364	0.1153			
						RPD = 10.70			
22 Heptachlor									
1	100	5.289	5.288	0.001	126818020	0.0985			
2	100	6.581	6.583	-0.002	59478893	0.1020			
						RPD = 3.56			
4 Aldrin									
1	100	5.755	5.755	0.000	131952914	0.0970			
2	100	7.381	7.384	-0.003	69187541	0.1039			
						RPD = 6.82			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	7.030	7.028	0.002	123258859	0.1002			
2	100	8.823	8.824	-0.001	62364030	0.1073			
						RPD = 6.81			
21 gamma-Chlordane									
1	100	7.345	7.343	0.002	128944074	0.1021			
2	100	9.215	9.217	-0.002	64130293	0.1093			
						RPD = 6.88			
6 alpha-Chlordane									
1	100	7.686	7.685	0.001	127022088	0.0985			
2	100	9.515	9.515	0.000	63895255	0.1047			
						RPD = 6.10			
14 Endosulfan I									
1	100	7.958	7.957	0.001	96297319	0.0835			
2	100	9.580	9.583	-0.003	48372170	0.0910			
						RPD = 8.59			
2 4,4'-DDE									
1	100	8.052	8.050	0.002	128021486	0.1011			
2	100	9.945	9.947	-0.002	66122800	0.1084			
						RPD = 7.01			
13 Dieldrin									
1	100	8.509	8.509	0.000	130519809	0.1029			
2	100	10.097	10.099	-0.002	65858721	0.1108			
						RPD = 7.40			
17 Endrin									
1	100	8.960	8.960	0.000	123780957	0.1041			
2	100	10.612	10.614	-0.002	60615332	0.1131			
						RPD = 8.32			
1 4,4'-DDD									
1	100	9.313	9.313	0.000	106135693	0.1094			
2	100	10.937	10.938	-0.001	51424795	0.1203			
						RPD = 9.49			
15 Endosulfan II									
1	100	9.405	9.404	0.001	99389983	0.0908			
2	100	10.980	10.982	-0.002	48306968	0.0995			
						RPD = 9.15			
3 4,4'-DDT									
1	100	9.832	9.831	0.001	109852487	0.1191			
2	100	11.417	11.418	-0.001	46888994	0.1185			
						RPD = 0.49			
18 Endrin aldehyde									
1	100	10.197	10.197	0.000	85541360	0.0971			
2	100	11.538	11.540	-0.002	41870555	0.1060			
						RPD = 8.72			
27 Methoxychlor									
1	100	10.776	10.776	0.000	52765566	0.1144			
2	100	12.492	12.493	-0.001	22518721	0.1129			
						RPD = 1.31			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	10.920	10.920	0.000	103112263	0.1051			
2	100	11.954	11.956	-0.002	50306566	0.1138			
						RPD = 7.91			
19 Endrin ketone									
1	100	11.319	11.318	0.001	116703843	0.1020			
2	100	12.704	12.705	-0.001	54351243	0.1084			
						RPD = 6.10			
$ 10 DCB Decachlorobiphenyl									
1	100	12.927	12.927	0.000	21393526	0.0223			
2	100	14.420	14.421	-0.001	10508500	0.0219			
						RPD = 1.90			

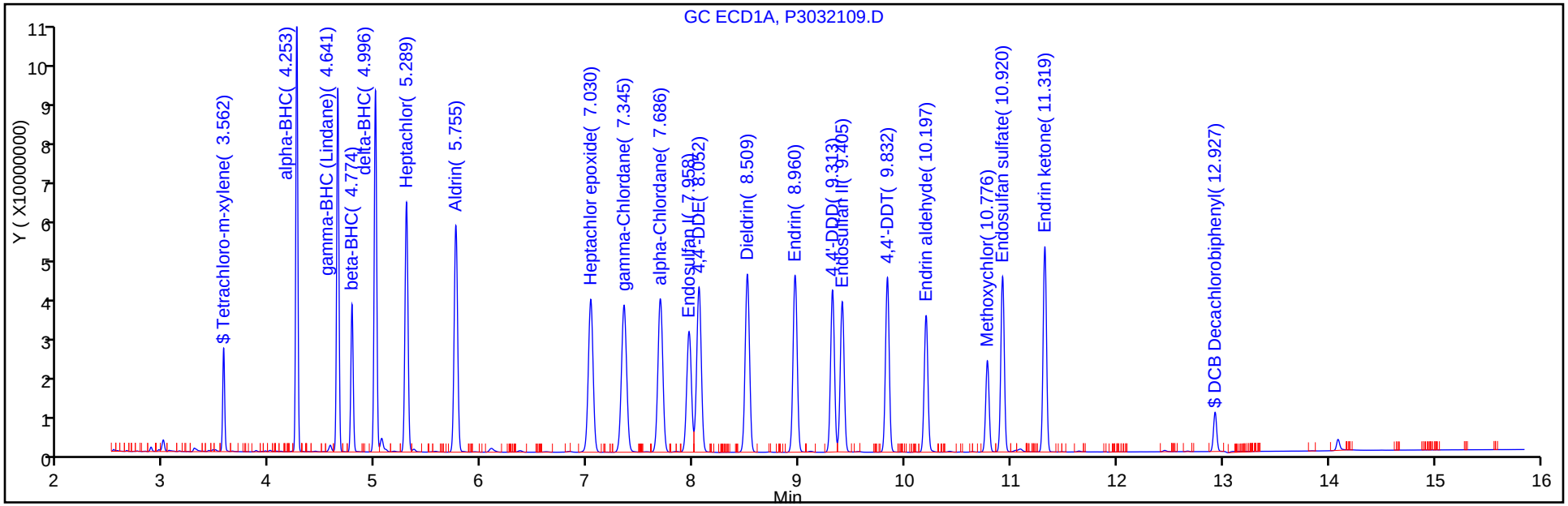
Report Date: 22-Mar-2013 07:47:05 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

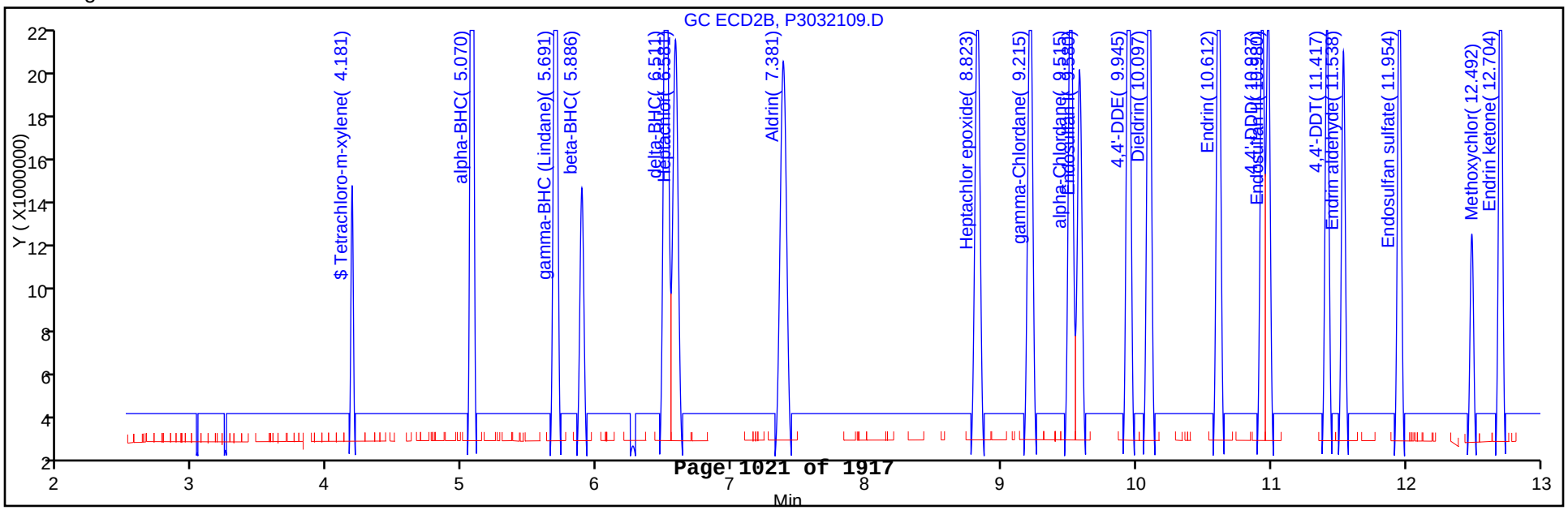
Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032109.D

Injection Date:	21-Mar-2013 17:16:44	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	9
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-79056/8

Matrix: Water | Lab File ID: P3032108.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 03/21/2013 16:56

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 79056 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	0.00524		0.0050	0.0010	0.00096
72-55-9	4,4'-DDE	0.00490	J	0.0050	0.0010	0.00097
50-29-3	4,4'-DDT	0.00553		0.0050	0.0030	0.0016
309-00-2	Aldrin	0.00494	J	0.0050	0.0010	0.00082
319-84-6	alpha-BHC	0.00446	J	0.0050	0.0010	0.00070
5103-71-9	alpha-Chlordane	0.00535		0.0050	0.0010	0.0014
319-85-7	beta-BHC	0.00551		0.0050	0.0010	0.00084
319-86-8	delta-BHC	0.00478	J	0.0050	0.0010	0.00087
60-57-1	Dieldrin	0.00529		0.0050	0.0010	0.00075
959-98-8	Endosulfan I	0.00533		0.0050	0.0010	0.0013
33213-65-9	Endosulfan II	0.00558		0.0050	0.0010	0.0012
1031-07-8	Endosulfan sulfate	0.00584		0.0050	0.0010	0.0011
72-20-8	Endrin	0.00539		0.0050	0.0010	0.0011
7421-93-4	Endrin aldehyde	0.00616		0.0050	0.0010	0.0011
53494-70-5	Endrin ketone	0.00582		0.0050	0.0010	0.00078
58-89-9	gamma-BHC (Lindane)	0.00467	J	0.0050	0.0010	0.00064
5103-74-2	gamma-Chlordane	0.00521		0.0050	0.0010	0.0012
76-44-8	Heptachlor	0.00524		0.0050	0.0010	0.00080
1024-57-3	Heptachlor epoxide	0.00532		0.0050	0.0010	0.00071
72-43-5	Methoxychlor	0.00644	J	0.010	0.0030	0.0032
8001-35-2	Toxaphene	0.050	U	0.20	0.050	0.032

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032108.D		
Lims ID:	MRL	Client ID:	
Inject. Date:	21-Mar-2013 16:56:42	Dil. Factor:	1.0000
Sample Type:	MRL		
Sample ID:	240-0018156-008		
Misc. Info.:			
Operator:	093905	Instrument ID:	A2HP3
Injection Vol:	1.0 ul	ALS Bottle#:	8
Lims Batch ID:	79056	Lims Sample ID:	8
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\NCChrom\ChromData\A2HP3\20130321-18156.b\PEST3.m		
Last Update:	22-Mar-2013 07:46:59	Calib Date:	18-Mar-2013 13:40:37
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A2HP3\20130318-18048.b\P3031810.D		
Limit Group:	GC 8081 D0D ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK006		
First Level Reviewer: vandorenc		Date:	22-Mar-2013 06:59:14

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100		3.562						
2	100		4.181						
24 Hexachlorobenzene									
1	100		4.037						
2	100		4.819						
5 alpha-BHC									
1	100	4.253	4.253	0.000	7244366	0.004462			
2	100	5.070	5.071	-0.001	3465023	0.004500			
						RPD = 0.87			
20 gamma-BHC (Lindane)									
1	100	4.640	4.639	0.001	6796512	0.004670			
2	100	5.691	5.692	-0.001	3280739	0.004846			
						RPD = 3.68			
7 beta-BHC									
1	100	4.775	4.774	0.001	3406869	0.005508			
2	100	5.886	5.888	-0.002	1715299	0.005801			
						RPD = 5.17			
11 delta-BHC									
1	100	4.997	4.995	0.002	7078512	0.004782			
2	100	6.511	6.513	-0.002	3457235	0.004970			
						RPD = 3.85			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									1
1	100		5.171						
1	2		6.058						
1	3		7.345						
1	4		7.683						
2	100		6.255						
2	2		7.885						
2	3		9.213						
2	4		9.513						
22 Heptachlor									
1	100	5.289	5.288	0.001	6744791	0.005236			
2	100	6.582	6.583	-0.001	3039741	0.005214			
						RPD = 0.42			
4 Aldrin									
1	100	5.756	5.755	0.001	6714145	0.004937			
2	100	7.381	7.384	-0.003	3325446	0.004993			
						RPD = 1.12			
12 Diallate									
1	100		5.769						
1	2		0.0						
2	100		0.0						
2	2		6.690						
25 Isodrin									
1	100		6.367						
2	100		8.367						
23 Heptachlor epoxide									
1	100	7.032	7.028	0.004	6544520	0.005321			
2	100	8.823	8.824	-0.001	3137049	0.005396			
						RPD = 1.41			
21 gamma-Chlordane									
1	100	7.343	7.343	0.000	6581192	0.005209			
2	100	9.215	9.217	-0.002	3254931	0.005549			
						RPD = 6.32			
6 alpha-Chlordane									
1	100	7.688	7.685	0.003	6901901	0.005352			
2	100	9.513	9.515	-0.002	3336323	0.005466			
						RPD = 2.12			
14 Endosulfan I									
1	100	7.958	7.957	0.001	6144898	0.005331			
2	100	9.581	9.583	-0.002	3011861	0.005669			
						RPD = 6.13			
2 4,4'-DDE									
1	100	8.053	8.050	0.003	6209199	0.004903			
2	100	9.945	9.947	-0.002	3092032	0.005070			
						RPD = 3.36			
28 Mirex									
1	100		8.279						
2	100		9.197						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
13 Dieldrin									
1	100	8.509	8.509	0.000	6712594	0.005292			
2	100	10.095	10.099	-0.004	3168304	0.005330			
						RPD = 0.72			
17 Endrin									
1	100	8.960	8.960	0.000	6410423	0.005391			
2	100	10.614	10.614	0.000	2971659	0.005546			
						RPD = 2.84			
26 Kepone									1
1	100		9.025						
2	100		10.764						
1 4,4'-DDD									
1	100	9.315	9.313	0.002	5082389	0.005238			
2	100	10.936	10.938	-0.002	2304431	0.005390			
						RPD = 2.86			
15 Endosulfan II									
1	100	9.407	9.404	0.003	6108778	0.005581			
2	100	10.980	10.982	-0.002	2869250	0.005910			
						RPD = 5.73			
3 4,4'-DDT									
1	100	9.832	9.831	0.001	5103357	0.005534			
2	100	11.417	11.418	-0.001	2151856	0.005440			
						RPD = 1.71			
18 Endrin aldehyde									
1	100	10.197	10.197	0.000	5422257	0.006157			
2	100	11.539	11.540	-0.001	2382404	0.006030			
						RPD = 2.08			
30 Toxaphene									1
1	1		10.383						
1	2		10.726						
1	3		10.874						
1	4		11.289						
1	5		11.556						
2	100		10.537						
2	2		11.123						
2	3		11.542						
2	4		12.283						
2	5		12.841						
27 Methoxychlor									
1	100	10.778	10.776	0.002	2969922	0.006436			
2	100	12.491	12.493	-0.002	1215745	0.006093			
						RPD = 5.48			
9 Chlorobenzilate									
1	100		10.876						
2	100		11.728						
16 Endosulfan sulfate									
1	100	10.919	10.920	-0.001	5731222	0.005842			
2	100	11.955	11.956	-0.001	2699555	0.006104			
						RPD = 4.39			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
19 Endrin ketone									
1	100	11.320	11.318	0.002	6659673	0.005818			
2	100	12.705	12.705	0.000	3036807	0.006055			
						RPD = 3.99			
$ 10 DCB Decachlorobiphenyl									
1	100		12.927						
2	100		14.421						

QC Flag Legend

Processing Flags
1 - Missing Peaks

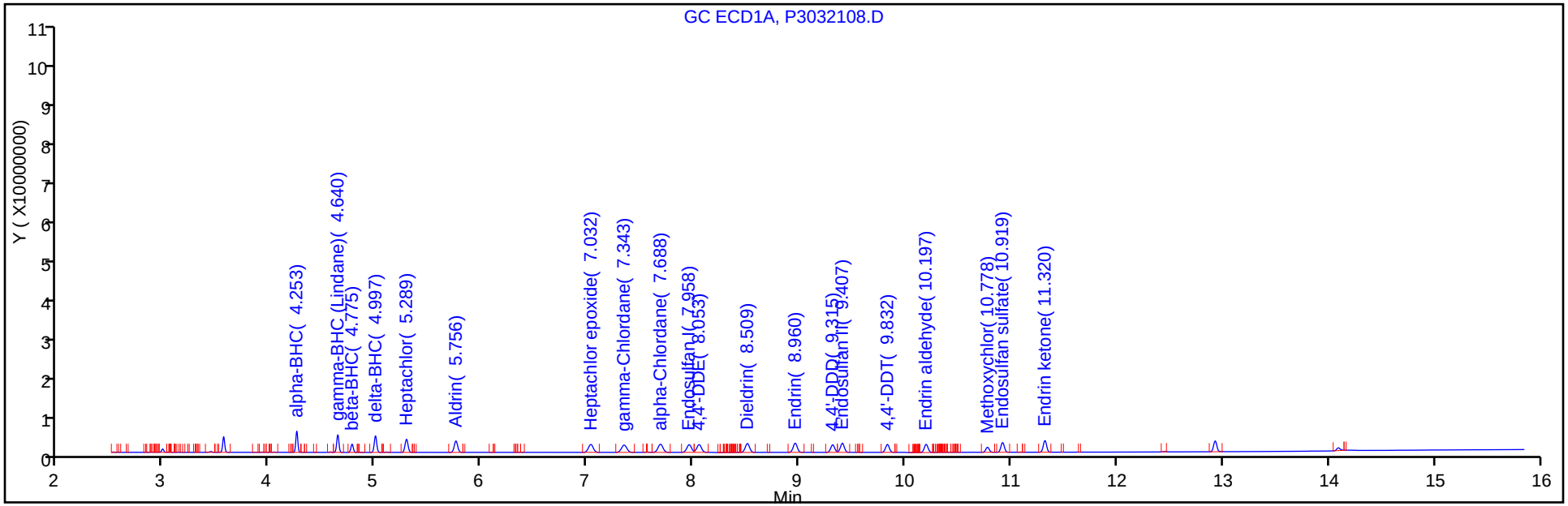
Report Date: 22-Mar-2013 07:47:02 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

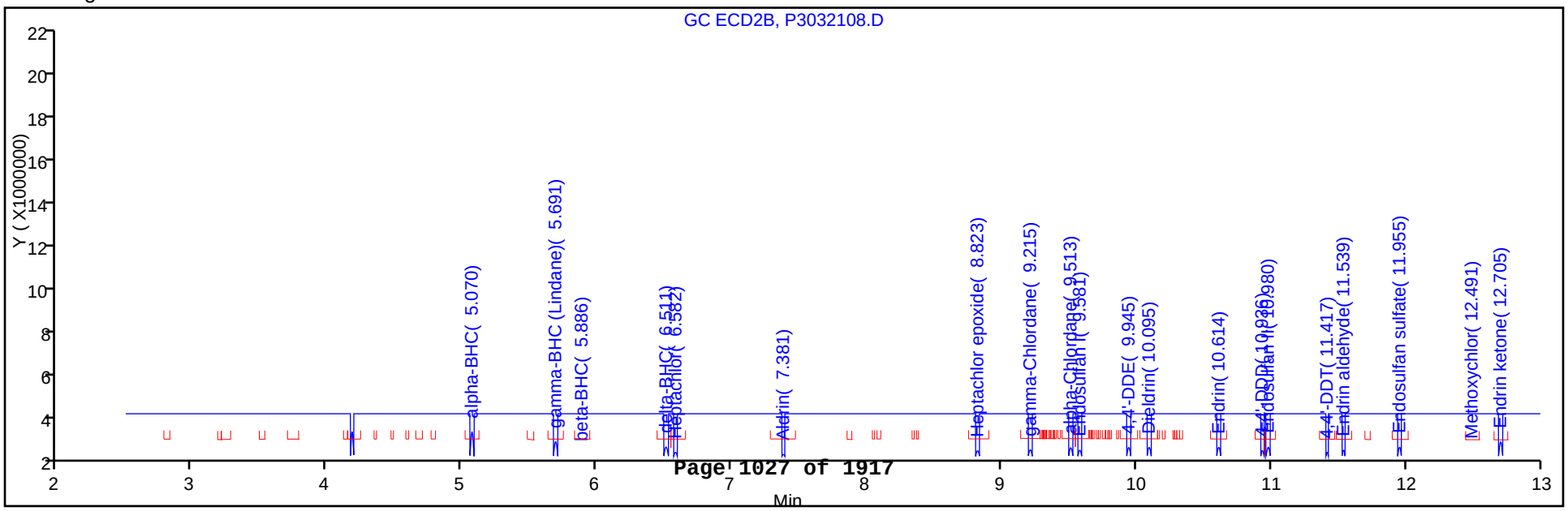
Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032108.D

Injection Date:	21-Mar-2013 16:56:42	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	8
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-79056/8

Matrix: Water | Lab File ID: P3032108.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 03/21/2013 16:56

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 79056 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	*4,4'-DDD*	*0.00539*		*0.0050*	0.0010	*0.00096*
72-55-9	*4,4'-DDE*	*0.00507*		*0.0050*	0.0010	*0.00097*
50-29-3	*4,4'-DDT*	*0.00544*		*0.0050*	0.0030	*0.0016*
309-00-2	*Aldrin*	*0.00499*	*J*	*0.0050*	0.0010	*0.00082*
319-84-6	*alpha-BHC*	*0.00450*	*J*	*0.0050*	0.0010	*0.00070*
5103-71-9	*alpha-Chlordane*	*0.00547*		*0.0050*	0.0010	*0.0014*
319-85-7	*beta-BHC*	*0.00580*		*0.0050*	0.0010	*0.00084*
319-86-8	*delta-BHC*	*0.00497*	*J*	*0.0050*	0.0010	*0.00087*
60-57-1	*Dieldrin*	*0.00533*		*0.0050*	0.0010	*0.00075*
959-98-8	*Endosulfan I*	*0.00567*		*0.0050*	0.0010	*0.0013*
33213-65-9	*Endosulfan II*	*0.00591*		*0.0050*	0.0010	*0.0012*
1031-07-8	*Endosulfan sulfate*	*0.00610*		*0.0050*	0.0010	*0.0011*
72-20-8	*Endrin*	*0.00555*		*0.0050*	0.0010	*0.0011*
7421-93-4	*Endrin aldehyde*	*0.00603*		*0.0050*	0.0010	*0.0011*
53494-70-5	*Endrin ketone*	*0.00605*		*0.0050*	0.0010	*0.00078*
58-89-9	*gamma-BHC (Lindane)*	*0.00485*	*J*	*0.0050*	0.0010	*0.00064*
5103-74-2	*gamma-Chlordane*	*0.00555*		*0.0050*	0.0010	*0.0012*
76-44-8	*Heptachlor*	*0.00521*		*0.0050*	0.0010	*0.00080*
1024-57-3	*Heptachlor epoxide*	*0.00540*		*0.0050*	0.0010	*0.00071*
72-43-5	*Methoxychlor*	*0.00609*	*J*	*0.010*	0.0030	*0.0032*
8001-35-2	*Toxaphene*	*0.050*	*U*	*0.20*	0.050	*0.032*

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032108.D		
Lims ID:	MRL	Client ID:	
Inject. Date:	21-Mar-2013 16:56:42	Dil. Factor:	1.0000
Sample Type:	MRL		
Sample ID:	240-0018156-008		
Misc. Info.:			
Operator:	093905	Instrument ID:	A2HP3
Injection Vol:	1.0 ul	ALS Bottle#:	8
Lims Batch ID:	79056	Lims Sample ID:	8
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\NCChrom\ChromData\A2HP3\20130321-18156.b\PEST3.m		
Last Update:	22-Mar-2013 07:46:59	Calib Date:	18-Mar-2013 13:40:37
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A2HP3\20130318-18048.b\P3031810.D		
Limit Group:	GC 8081 D0D ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK006		
First Level Reviewer: vandorenc		Date:	22-Mar-2013 06:59:14

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100		3.562						
2	100		4.181						
24 Hexachlorobenzene									
1	100		4.037						
2	100		4.819						
5 alpha-BHC									
1	100	4.253	4.253	0.000	7244366	0.004462			
2	100	5.070	5.071	-0.001	3465023	0.004500			
						RPD = 0.87			
20 gamma-BHC (Lindane)									
1	100	4.640	4.639	0.001	6796512	0.004670			
2	100	5.691	5.692	-0.001	3280739	0.004846			
						RPD = 3.68			
7 beta-BHC									
1	100	4.775	4.774	0.001	3406869	0.005508			
2	100	5.886	5.888	-0.002	1715299	0.005801			
						RPD = 5.17			
11 delta-BHC									
1	100	4.997	4.995	0.002	7078512	0.004782			
2	100	6.511	6.513	-0.002	3457235	0.004970			
						RPD = 3.85			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									1
1	100		5.171						
1	2		6.058						
1	3		7.345						
1	4		7.683						
2	100		6.255						
2	2		7.885						
2	3		9.213						
2	4		9.513						
22 Heptachlor									
1	100	5.289	5.288	0.001	6744791	0.005236			
2	100	6.582	6.583	-0.001	3039741	0.005214			
						RPD = 0.42			
4 Aldrin									
1	100	5.756	5.755	0.001	6714145	0.004937			
2	100	7.381	7.384	-0.003	3325446	0.004993			
						RPD = 1.12			
12 Diallate									
1	100		5.769						
1	2		0.0						
2	100		0.0						
2	2		6.690						
25 Isodrin									
1	100		6.367						
2	100		8.367						
23 Heptachlor epoxide									
1	100	7.032	7.028	0.004	6544520	0.005321			
2	100	8.823	8.824	-0.001	3137049	0.005396			
						RPD = 1.41			
21 gamma-Chlordane									
1	100	7.343	7.343	0.000	6581192	0.005209			
2	100	9.215	9.217	-0.002	3254931	0.005549			
						RPD = 6.32			
6 alpha-Chlordane									
1	100	7.688	7.685	0.003	6901901	0.005352			
2	100	9.513	9.515	-0.002	3336323	0.005466			
						RPD = 2.12			
14 Endosulfan I									
1	100	7.958	7.957	0.001	6144898	0.005331			
2	100	9.581	9.583	-0.002	3011861	0.005669			
						RPD = 6.13			
2 4,4'-DDE									
1	100	8.053	8.050	0.003	6209199	0.004903			
2	100	9.945	9.947	-0.002	3092032	0.005070			
						RPD = 3.36			
28 Mirex									
1	100		8.279						
2	100		9.197						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
13 Dieldrin									
1	100	8.509	8.509	0.000	6712594	0.005292			
2	100	10.095	10.099	-0.004	3168304	0.005330			
						RPD = 0.72			
17 Endrin									
1	100	8.960	8.960	0.000	6410423	0.005391			
2	100	10.614	10.614	0.000	2971659	0.005546			
						RPD = 2.84			
26 Kepone									1
1	100		9.025						
2	100		10.764						
1 4,4'-DDD									
1	100	9.315	9.313	0.002	5082389	0.005238			
2	100	10.936	10.938	-0.002	2304431	0.005390			
						RPD = 2.86			
15 Endosulfan II									
1	100	9.407	9.404	0.003	6108778	0.005581			
2	100	10.980	10.982	-0.002	2869250	0.005910			
						RPD = 5.73			
3 4,4'-DDT									
1	100	9.832	9.831	0.001	5103357	0.005534			
2	100	11.417	11.418	-0.001	2151856	0.005440			
						RPD = 1.71			
18 Endrin aldehyde									
1	100	10.197	10.197	0.000	5422257	0.006157			
2	100	11.539	11.540	-0.001	2382404	0.006030			
						RPD = 2.08			
30 Toxaphene									1
1	1		10.383						
1	2		10.726						
1	3		10.874						
1	4		11.289						
1	5		11.556						
2	100		10.537						
2	2		11.123						
2	3		11.542						
2	4		12.283						
2	5		12.841						
27 Methoxychlor									
1	100	10.778	10.776	0.002	2969922	0.006436			
2	100	12.491	12.493	-0.002	1215745	0.006093			
						RPD = 5.48			
9 Chlorobenzilate									
1	100		10.876						
2	100		11.728						
16 Endosulfan sulfate									
1	100	10.919	10.920	-0.001	5731222	0.005842			
2	100	11.955	11.956	-0.001	2699555	0.006104			
						RPD = 4.39			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
19 Endrin ketone									
1	100	11.320	11.318	0.002	6659673	0.005818			
2	100	12.705	12.705	0.000	3036807	0.006055			
						RPD = 3.99			
$ 10 DCB Decachlorobiphenyl									
1	100		12.927						
2	100		14.421						

QC Flag Legend

Processing Flags
1 - Missing Peaks

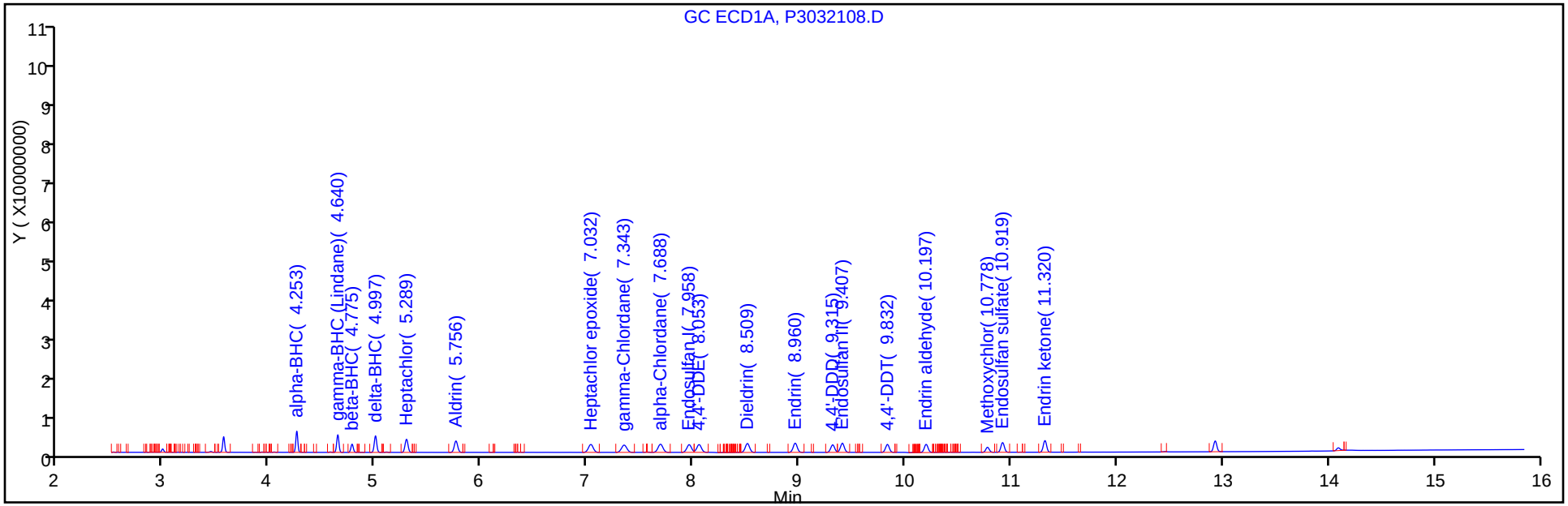
Report Date: 22-Mar-2013 07:47:03 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

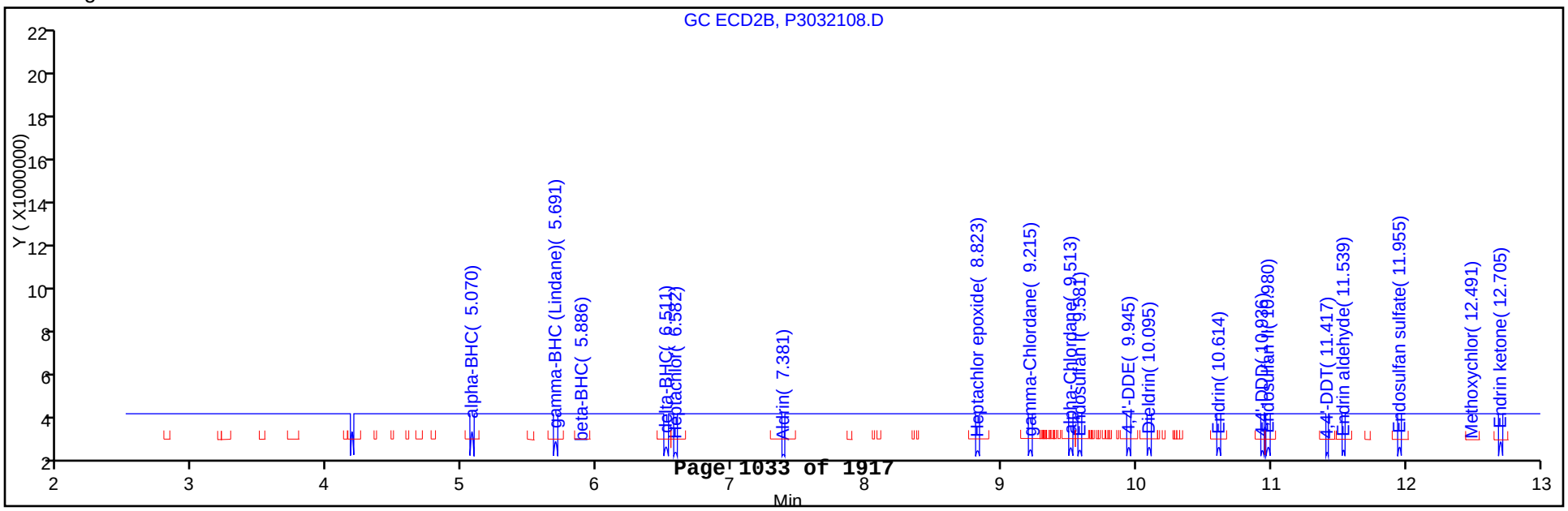
Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032108.D

Injection Date:	21-Mar-2013 16:56:42	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	8
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-79056/15

Matrix: Water | Lab File ID: P3032115.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 03/21/2013 19:17

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 79056 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	0.00543		0.0050	0.0010	0.00096
72-55-9	4,4'-DDE	0.00531		0.0050	0.0010	0.00097
50-29-3	4,4'-DDT	0.00582		0.0050	0.0030	0.0016
309-00-2	Aldrin	0.00506		0.0050	0.0010	0.00082
319-84-6	alpha-BHC	0.00458	J	0.0050	0.0010	0.00070
5103-71-9	alpha-Chlordane	0.00564		0.0050	0.0010	0.0014
319-85-7	beta-BHC	0.00563		0.0050	0.0010	0.00084
319-86-8	delta-BHC	0.00491	J	0.0050	0.0010	0.00087
60-57-1	Dieldrin	0.00550		0.0050	0.0010	0.00075
959-98-8	Endosulfan I	0.00566		0.0050	0.0010	0.0013
33213-65-9	Endosulfan II	0.00569		0.0050	0.0010	0.0012
1031-07-8	Endosulfan sulfate	0.00604		0.0050	0.0010	0.0011
72-20-8	Endrin	0.00566		0.0050	0.0010	0.0011
7421-93-4	Endrin aldehyde	0.00601		0.0050	0.0010	0.0011
53494-70-5	Endrin ketone	0.00600		0.0050	0.0010	0.00078
58-89-9	gamma-BHC (Lindane)	0.00474	J	0.0050	0.0010	0.00064
5103-74-2	gamma-Chlordane	0.00543		0.0050	0.0010	0.0012
76-44-8	Heptachlor	0.00535		0.0050	0.0010	0.00080
1024-57-3	Heptachlor epoxide	0.00546		0.0050	0.0010	0.00071
72-43-5	Methoxychlor	0.00695	J ^	0.010	0.0030	0.0032
8001-35-2	Toxaphene	0.050	U	0.20	0.050	0.032

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032115.D
Lims ID: MRL Client ID:
Inject. Date: 21-Mar-2013 19:17:10 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018156-015
Misc. Info.:
Operator: 093905 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 15
Lims Batch ID: 79056 Lims Sample ID: 15
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130321-18156.b\PEST3.m
Last Update: 22-Mar-2013 07:47:11 Calib Date: 18-Mar-2013 13:40:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130318-18048.b\P3031810.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK006

First Level Reviewer: vandorenc Date: 22-Mar-2013 07:13:52

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100		3.562						
2	100		4.181						
24 Hexachlorobenzene									
1	100		4.037						
2	100		4.819						
5 alpha-BHC									
1	100	4.252	4.253	-0.001	7437808	0.004581			
2	100	5.070	5.071	-0.001	3545112	0.004605			
						RPD = 0.52			
20 gamma-BHC (Lindane)									
1	100	4.640	4.640	0.000	6898472	0.004741			
2	100	5.691	5.691	0.000	3347315	0.004944			
						RPD = 4.20			
7 beta-BHC									
1	100	4.775	4.775	0.000	3479510	0.005626			
2	100	5.886	5.887	-0.001	1760099	0.005952			
						RPD = 5.64			
11 delta-BHC									
1	100	4.995	4.996	-0.001	7268362	0.004910			
2	100	6.510	6.512	-0.002	3549264	0.005102			
						RPD = 3.83			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100		5.171						
1	2		6.057						
1	3		7.345						
1	4		7.683						
2	100		6.254						
2	2		7.884						
2	3		9.213						
2	4		9.513						
22 Heptachlor									
1	100	5.289	5.289	0.000	6896119	0.005354			
2	100	6.580	6.582	-0.002	3084879	0.005292			
						RPD = 1.17			
4 Aldrin									
1	100	5.755	5.756	-0.001	6884005	0.005062			
2	100	7.380	7.382	-0.002	3400636	0.005105			
						RPD = 0.86			
12 Diallate									
1	100		5.769						
1	2		0.0						
2	100		0.0						
2	2		6.690						
25 Isodrin									
1	100		6.367						
2	100		8.367						
23 Heptachlor epoxide									
1	100	7.029	7.029	0.000	6713967	0.005459			
2	100	8.823	8.822	0.001	3183494	0.005476			
						RPD = 0.32			
21 gamma-Chlordane									
1	100	7.343	7.347	-0.004	6866008	0.005434			
2	100	9.214	9.215	-0.001	3195449	0.005447			
						RPD = 0.24			
6 alpha-Chlordane									
1	100	7.686	7.688	-0.002	7277940	0.005643			
2	100	9.515	9.514	0.001	3292227	0.005394			
						RPD = 4.51			
14 Endosulfan I									
1	100	7.958	7.958	0.000	6520996	0.005657			
2	100	9.581	9.582	-0.001	2958655	0.005568			
						RPD = 1.59			
2 4,4'-DDE									
1	100	8.051	8.052	-0.001	6725214	0.005310			
2	100	9.945	9.945	0.000	3073940	0.005040			
						RPD = 5.21			
28 Mirex									
1	100		8.279						
2	100		9.197						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
13 Dieldrin									
1	100	8.508	8.508	0.000	6982644	0.005505			
2	100	10.097	10.097	0.000	3139066	0.005281			
						RPD = 4.15			
17 Endrin									
1	100	8.960	8.960	0.000	6724911	0.005655			
2	100	10.613	10.613	0.000	3010069	0.005618			
						RPD = 0.66			
26 Kepone									
1	100		9.025						
2	100		10.764						
1 4,4'-DDD									
1	100	9.316	9.315	0.001	5268792	0.005430			
2	100	10.937	10.937	0.000	2339742	0.005472			
						RPD = 0.78			
15 Endosulfan II									
1	100	9.406	9.405	0.001	6226175	0.005688			
2	100	10.981	10.980	0.001	2937039	0.006050			
						RPD = 6.16			
3 4,4'-DDT									
1	100	9.831	9.832	-0.001	5366413	0.005819			
2	100	11.417	11.417	0.000	2269129	0.005737			
						RPD = 1.43			
18 Endrin aldehyde									
1	100	10.200	10.197	0.003	5291463	0.006008			
2	100	11.539	11.539	0.000	2442614	0.006183			
						RPD = 2.86			
30 Toxaphene									1
1	1		10.385						
1	2		10.726						
1	3		10.875						
1	4		11.292						
1	5		11.560						
2	100		10.536						
2	2		11.124						
2	3		11.542						
2	4		12.283						
2	5		12.842						
27 Methoxychlor									
1	100	10.778	10.777	0.001	3205141	0.006946			
2	100	12.493	12.492	0.001	1286118	0.006446			
						RPD = 7.47			
9 Chlorobenzilate									
1	100		10.876						
2	100		11.728						
16 Endosulfan sulfate									
1	100	10.920	10.920	0.000	5921434	0.006036			
2	100	11.955	11.956	-0.001	2761876	0.006245			
						RPD = 3.41			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
19 Endrin ketone									
1	100	11.320	11.319	0.001	6866038	0.005998			
2	100	12.705	12.707	-0.002	3131359	0.006244			
						RPD = 4.00			
$ 10 DCB Decachlorobiphenyl									
1	100		12.928						
2	100		14.422						

QC Flag Legend

Processing Flags
1 - Missing Peaks

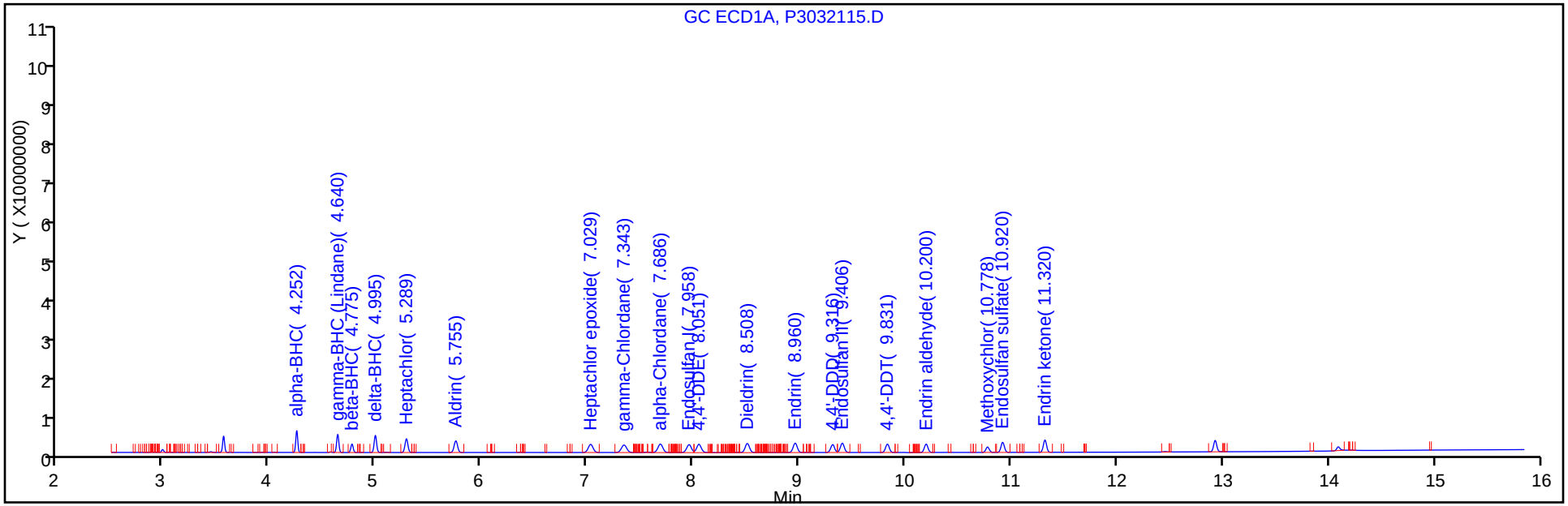
Report Date: 22-Mar-2013 07:47:13 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

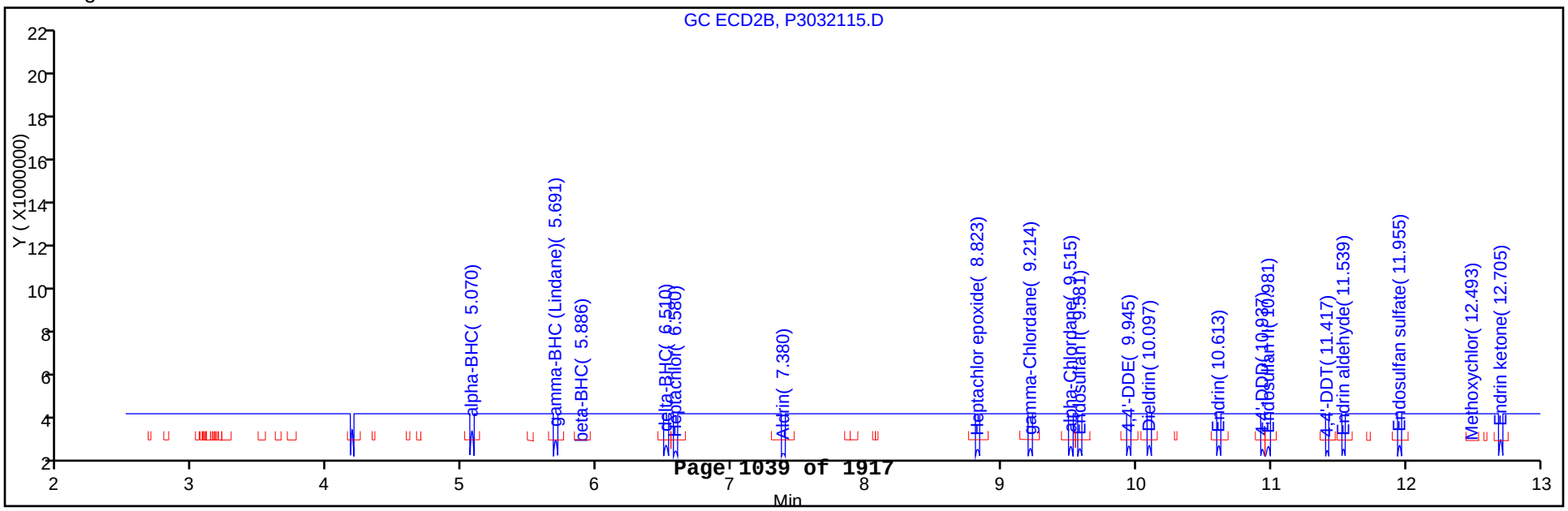
Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032115.D

Injection Date:	21-Mar-2013 19:17:10	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	15
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-79056/15

Matrix: Water | Lab File ID: P3032115.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 03/21/2013 19:17

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 79056 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	*4,4'-DDD*	*0.00547*		*0.0050*	0.0010	*0.00096*
72-55-9	*4,4'-DDE*	*0.00504*		*0.0050*	0.0010	*0.00097*
50-29-3	*4,4'-DDT*	*0.00574*		*0.0050*	0.0030	*0.0016*
309-00-2	*Aldrin*	*0.00511*		*0.0050*	0.0010	*0.00082*
319-84-6	*alpha-BHC*	*0.00460*	*J*	*0.0050*	0.0010	*0.00070*
5103-71-9	*alpha-Chlordane*	*0.00539*		*0.0050*	0.0010	*0.0014*
319-85-7	*beta-BHC*	*0.00595*		*0.0050*	0.0010	*0.00084*
319-86-8	*delta-BHC*	*0.00510*		*0.0050*	0.0010	*0.00087*
60-57-1	*Dieldrin*	*0.00528*		*0.0050*	0.0010	*0.00075*
959-98-8	*Endosulfan I*	*0.00557*		*0.0050*	0.0010	*0.0013*
33213-65-9	*Endosulfan II*	*0.00605*		*0.0050*	0.0010	*0.0012*
1031-07-8	*Endosulfan sulfate*	*0.00625*		*0.0050*	0.0010	*0.0011*
72-20-8	*Endrin*	*0.00562*		*0.0050*	0.0010	*0.0011*
7421-93-4	*Endrin aldehyde*	*0.00618*		*0.0050*	0.0010	*0.0011*
53494-70-5	*Endrin ketone*	*0.00624*		*0.0050*	0.0010	*0.00078*
58-89-9	*gamma-BHC (Lindane)*	*0.00494*	*J*	*0.0050*	0.0010	*0.00064*
5103-74-2	*gamma-Chlordane*	*0.00545*		*0.0050*	0.0010	*0.0012*
76-44-8	*Heptachlor*	*0.00529*		*0.0050*	0.0010	*0.00080*
1024-57-3	*Heptachlor epoxide*	*0.00548*		*0.0050*	0.0010	*0.00071*
72-43-5	*Methoxychlor*	*0.00645*	*J*	*0.010*	0.0030	*0.0032*
8001-35-2	*Toxaphene*	*0.050*	*U*	*0.20*	0.050	*0.032*

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032115.D		
Lims ID:	MRL	Client ID:	
Inject. Date:	21-Mar-2013 19:17:10	Dil. Factor:	1.0000
Sample Type:	MRL		
Sample ID:	240-0018156-015		
Misc. Info.:			
Operator:	093905	Instrument ID:	A2HP3
Injection Vol:	1.0 ul	ALS Bottle#:	15
Lims Batch ID:	79056	Lims Sample ID:	15
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\NCChrom\ChromData\A2HP3\20130321-18156.b\PEST3.m		
Last Update:	22-Mar-2013 07:47:11	Calib Date:	18-Mar-2013 13:40:37
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\NCChrom\ChromData\A2HP3\20130318-18048.b\P3031810.D		
Limit Group:	GC 8081 D0D ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK006		

First Level Reviewer: vandorenc Date: 22-Mar-2013 07:13:52

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100		3.562						
2	100		4.181						
24 Hexachlorobenzene									
1	100		4.037						
2	100		4.819						
5 alpha-BHC									
1	100	4.252	4.253	-0.001	7437808	0.004581			
2	100	5.070	5.071	-0.001	3545112	0.004605			
						RPD = 0.52			
20 gamma-BHC (Lindane)									
1	100	4.640	4.640	0.000	6898472	0.004741			
2	100	5.691	5.691	0.000	3347315	0.004944			
						RPD = 4.20			
7 beta-BHC									
1	100	4.775	4.775	0.000	3479510	0.005626			
2	100	5.886	5.887	-0.001	1760099	0.005952			
						RPD = 5.64			
11 delta-BHC									
1	100	4.995	4.996	-0.001	7268362	0.004910			
2	100	6.510	6.512	-0.002	3549264	0.005102			
						RPD = 3.83			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100		5.171						
1	2		6.057						
1	3		7.345						
1	4		7.683						
2	100		6.254						
2	2		7.884						
2	3		9.213						
2	4		9.513						
22 Heptachlor									
1	100	5.289	5.289	0.000	6896119	0.005354			
2	100	6.580	6.582	-0.002	3084879	0.005292			
						RPD = 1.17			
4 Aldrin									
1	100	5.755	5.756	-0.001	6884005	0.005062			
2	100	7.380	7.382	-0.002	3400636	0.005105			
						RPD = 0.86			
12 Diallate									
1	100		5.769						
1	2		0.0						
2	100		0.0						
2	2		6.690						
25 Isodrin									
1	100		6.367						
2	100		8.367						
23 Heptachlor epoxide									
1	100	7.029	7.029	0.000	6713967	0.005459			
2	100	8.823	8.822	0.001	3183494	0.005476			
						RPD = 0.32			
21 gamma-Chlordane									
1	100	7.343	7.347	-0.004	6866008	0.005434			
2	100	9.214	9.215	-0.001	3195449	0.005447			
						RPD = 0.24			
6 alpha-Chlordane									
1	100	7.686	7.688	-0.002	7277940	0.005643			
2	100	9.515	9.514	0.001	3292227	0.005394			
						RPD = 4.51			
14 Endosulfan I									
1	100	7.958	7.958	0.000	6520996	0.005657			
2	100	9.581	9.582	-0.001	2958655	0.005568			
						RPD = 1.59			
2 4,4'-DDE									
1	100	8.051	8.052	-0.001	6725214	0.005310			
2	100	9.945	9.945	0.000	3073940	0.005040			
						RPD = 5.21			
28 Mirex									
1	100		8.279						
2	100		9.197						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
13 Dieldrin									
1	100	8.508	8.508	0.000	6982644	0.005505			
2	100	10.097	10.097	0.000	3139066	0.005281			
						RPD = 4.15			
17 Endrin									
1	100	8.960	8.960	0.000	6724911	0.005655			
2	100	10.613	10.613	0.000	3010069	0.005618			
						RPD = 0.66			
26 Kepone									
1	100		9.025						
2	100		10.764						
1 4,4'-DDD									
1	100	9.316	9.315	0.001	5268792	0.005430			
2	100	10.937	10.937	0.000	2339742	0.005472			
						RPD = 0.78			
15 Endosulfan II									
1	100	9.406	9.405	0.001	6226175	0.005688			
2	100	10.981	10.980	0.001	2937039	0.006050			
						RPD = 6.16			
3 4,4'-DDT									
1	100	9.831	9.832	-0.001	5366413	0.005819			
2	100	11.417	11.417	0.000	2269129	0.005737			
						RPD = 1.43			
18 Endrin aldehyde									
1	100	10.200	10.197	0.003	5291463	0.006008			
2	100	11.539	11.539	0.000	2442614	0.006183			
						RPD = 2.86			
30 Toxaphene									1
1	1		10.385						
1	2		10.726						
1	3		10.875						
1	4		11.292						
1	5		11.560						
2	100		10.536						
2	2		11.124						
2	3		11.542						
2	4		12.283						
2	5		12.842						
27 Methoxychlor									
1	100	10.778	10.777	0.001	3205141	0.006946			
2	100	12.493	12.492	0.001	1286118	0.006446			
						RPD = 7.47			
9 Chlorobenzilate									
1	100		10.876						
2	100		11.728						
16 Endosulfan sulfate									
1	100	10.920	10.920	0.000	5921434	0.006036			
2	100	11.955	11.956	-0.001	2761876	0.006245			
						RPD = 3.41			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
19 Endrin ketone									
1	100	11.320	11.319	0.001	6866038	0.005998			
2	100	12.705	12.707	-0.002	3131359	0.006244			
						RPD = 4.00			
$ 10 DCB Decachlorobiphenyl									
1	100		12.928						
2	100		14.422						

QC Flag Legend

Processing Flags
1 - Missing Peaks

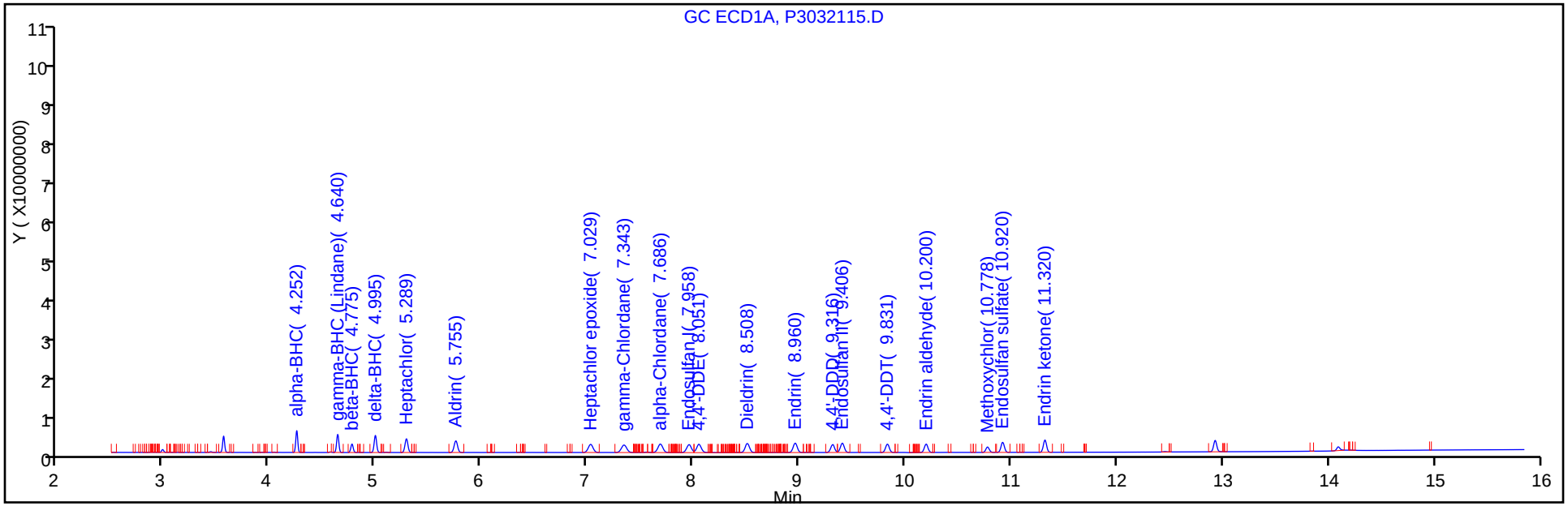
Report Date: 22-Mar-2013 07:47:13 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

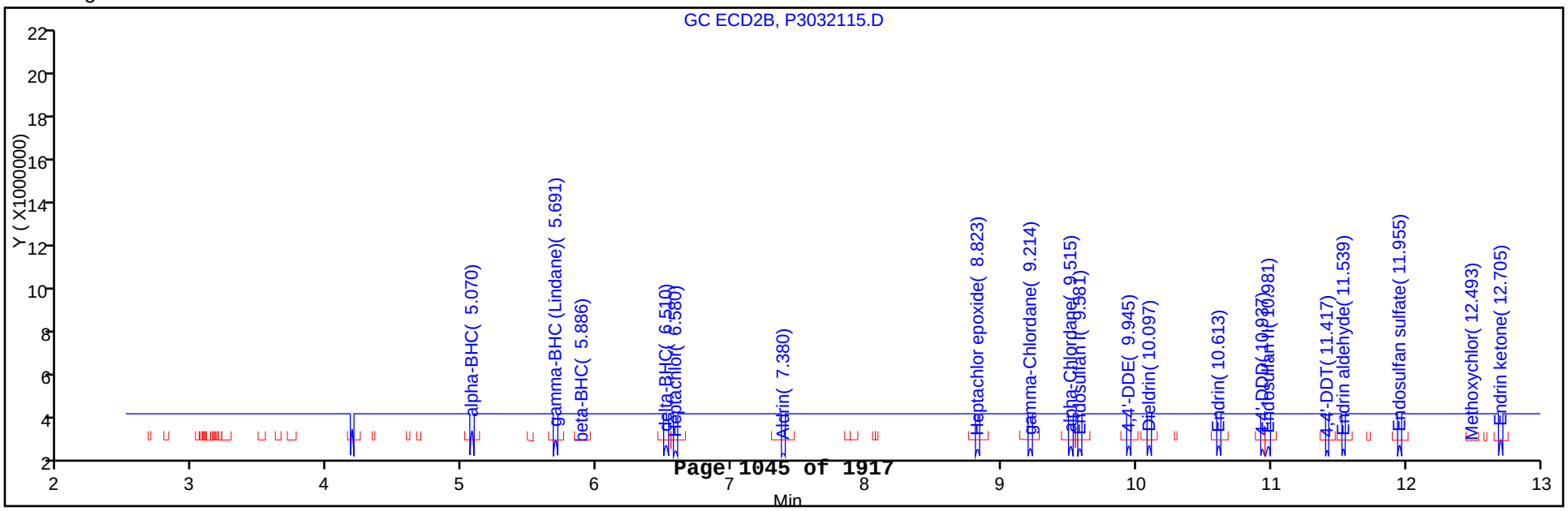
Data File: \\NCChrom\ChromData\A2HP3\20130321-18156.b\P3032115.D

Injection Date:	21-Mar-2013 19:17:10	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	79056	Lims Sample ID:	15
Operator ID:	093905	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: A2HP3 Start Date: 03/14/2013 14:00

Analysis Batch Number: 78295 End Date: 03/14/2013 20:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 240-78295/12		03/14/2013 14:00	1		CLP-1 0.53(mm)
PEM 240-78295/12		03/14/2013 14:00	1		CLP-2 0.53(mm)
STD 240-78295/13 IC		03/14/2013 14:20	1	P3031413.D	CLP-1 0.53(mm)
STD 240-78295/13 IC		03/14/2013 14:20	1	P3031413.D	CLP-2 0.53(mm)
STD 240-78295/14 IC		03/14/2013 14:40	1	P3031414.D	CLP-1 0.53(mm)
STD 240-78295/14 IC		03/14/2013 14:40	1	P3031414.D	CLP-2 0.53(mm)
STD 240-78295/15 ICRT		03/14/2013 15:00	1	P3031415.D	CLP-1 0.53(mm)
STD 240-78295/15 ICRT		03/14/2013 15:00	1	P3031415.D	CLP-2 0.53(mm)
STD 240-78295/16 IC		03/14/2013 15:20	1	P3031416.D	CLP-1 0.53(mm)
STD 240-78295/16 IC		03/14/2013 15:20	1	P3031416.D	CLP-2 0.53(mm)
STD 240-78295/17 IC		03/14/2013 15:40	1	P3031417.D	CLP-1 0.53(mm)
STD 240-78295/17 IC		03/14/2013 15:40	1	P3031417.D	CLP-2 0.53(mm)
STD 240-78295/18 IC		03/14/2013 16:00	1	P3031418.D	CLP-1 0.53(mm)
STD 240-78295/18 IC		03/14/2013 16:00	1	P3031418.D	CLP-2 0.53(mm)
ICV 240-78295/19		03/14/2013 16:20	1	P3031419.D	CLP-1 0.53(mm)
ICV 240-78295/19		03/14/2013 16:20	1	P3031419.D	CLP-2 0.53(mm)
STD 240-78295/20 IC		03/14/2013 16:40	1	P3031420.D	CLP-1 0.53(mm)
STD 240-78295/20 IC		03/14/2013 16:40	1	P3031420.D	CLP-2 0.53(mm)
STD 240-78295/21 IC		03/14/2013 17:00	1	P3031421.D	CLP-1 0.53(mm)
STD 240-78295/21 IC		03/14/2013 17:00	1	P3031421.D	CLP-2 0.53(mm)
STD 240-78295/22 IC		03/14/2013 17:20	1	P3031422.D	CLP-1 0.53(mm)
STD 240-78295/22 IC		03/14/2013 17:20	1	P3031422.D	CLP-2 0.53(mm)
STD 240-78295/23 IC		03/14/2013 17:40	1	P3031423.D	CLP-1 0.53(mm)
STD 240-78295/23 IC		03/14/2013 17:40	1	P3031423.D	CLP-2 0.53(mm)
STD 240-78295/24 IC		03/14/2013 18:00	1	P3031424.D	CLP-1 0.53(mm)
STD 240-78295/24 IC		03/14/2013 18:00	1	P3031424.D	CLP-2 0.53(mm)
ICV 240-78295/25		03/14/2013 18:20	1	P3031425.D	CLP-1 0.53(mm)
ICV 240-78295/25		03/14/2013 18:20	1	P3031425.D	CLP-2 0.53(mm)
STD 240-78295/26 IC		03/14/2013 18:40	1		CLP-1 0.53(mm)
STD 240-78295/26 IC		03/14/2013 18:40	1		CLP-2 0.53(mm)
STD 240-78295/27 IC		03/14/2013 19:00	1		CLP-1 0.53(mm)
STD 240-78295/27 IC		03/14/2013 19:00	1		CLP-2 0.53(mm)
STD 240-78295/28 IC		03/14/2013 19:20	1		CLP-1 0.53(mm)
STD 240-78295/28 IC		03/14/2013 19:20	1		CLP-2 0.53(mm)
STD 240-78295/29 IC		03/14/2013 19:40	1		CLP-1 0.53(mm)
STD 240-78295/29 IC		03/14/2013 19:40	1		CLP-2 0.53(mm)
STD 240-78295/30 IC		03/14/2013 20:00	1		CLP-1 0.53(mm)
STD 240-78295/30 IC		03/14/2013 20:00	1		CLP-2 0.53(mm)
ICV 240-78295/31		03/14/2013 20:20	1		CLP-1 0.53(mm)
ICV 240-78295/31		03/14/2013 20:20	1		CLP-2 0.53(mm)
PEM 240-78295/32		03/14/2013 20:40	1		CLP-1 0.53(mm)
PEM 240-78295/32		03/14/2013 20:40	1		CLP-2 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: A2HP3 Start Date: 03/21/2013 15:36

Analysis Batch Number: 79056 End Date: 03/21/2013 19:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 240-79056/4		03/21/2013 15:36	1	P3032104.D	CLP-1 0.53(mm)
PEM 240-79056/4		03/21/2013 15:36	1	P3032104.D	CLP-2 0.53(mm)
CCV 240-79056/5 CCVRT		03/21/2013 15:56	1	P3032105.D	CLP-1 0.53(mm)
CCV 240-79056/5 CCVRT		03/21/2013 15:56	1	P3032105.D	CLP-2 0.53(mm)
CCV 240-79056/6		03/21/2013 16:16	1	P3032106.D	CLP-1 0.53(mm)
CCV 240-79056/6		03/21/2013 16:16	1	P3032106.D	CLP-2 0.53(mm)
MRL 240-79056/8		03/21/2013 16:56	1	P3032108.D	CLP-1 0.53(mm)
MRL 240-79056/8		03/21/2013 16:56	1	P3032108.D	CLP-2 0.53(mm)
LCS 240-78726/3-A		03/21/2013 17:16	1	P3032109.D	CLP-1 0.53(mm)
LCS 240-78726/3-A		03/21/2013 17:16	1	P3032109.D	CLP-2 0.53(mm)
240-21987-1	079-0007-0001-SOURCEWATER	03/21/2013 17:36	1	P3032110.D	CLP-1 0.53(mm)
240-21987-1	079-0007-0001-SOURCEWATER	03/21/2013 17:36	1	P3032110.D	CLP-2 0.53(mm)
MB 240-78726/2-A		03/21/2013 17:56	1	P3032111.D	CLP-1 0.53(mm)
MB 240-78726/2-A		03/21/2013 17:56	1	P3032111.D	CLP-2 0.53(mm)
CCV 240-79056/12		03/21/2013 18:16	1	P3032112.D	CLP-1 0.53(mm)
CCV 240-79056/12		03/21/2013 18:16	1	P3032112.D	CLP-2 0.53(mm)
CCV 240-79056/14		03/21/2013 18:57	1	P3032114.D	CLP-1 0.53(mm)
CCV 240-79056/14		03/21/2013 18:57	1	P3032114.D	CLP-2 0.53(mm)
MRL 240-79056/15		03/21/2013 19:17	1	P3032115.D	CLP-1 0.53(mm)
MRL 240-79056/15		03/21/2013 19:17	1	P3032115.D	CLP-2 0.53(mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Batch Number: 78726 Batch Start Date: 03/19/13 12:00 Batch Analyst: Mills, Lisa

Batch Method: 3520C Batch End Date: 03/20/13 06:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	EX2/.2SURRW 00022	EXPSTNPDESSPW 00012	AnalysisComment
240-21987-N-1	079-0007-0001-SOURCEWATER	3520C, 8081/DOD	T	1000 mL	5.0 mL	7	1 mL		ASSOC W/ 78721
MB 240-78726/2		3520C, 8081/DOD		1000 mL	5.0 mL	7	1 mL		ASSOC W/ 78721
LCS 240-78726/3		3520C, 8081/DOD		1000 mL	5.0 mL	7	1 mL	0.5 mL	

Batch Notes	
Exchange Solvent Lot #	804970
Na2SO4 Lot Number	857428
Prep Solvent Lot #	883350

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 8082 DOD

Polychlorinated Biphenyls (PCBs) by Gas Chromatography by Method 8082/DOD

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): CLP-2 ID: 0.53 (mm) GC Column (2): CLP-1 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
079-0007-0001-SOUR CEWATER	240-21987-1	97	80	80	71
	MB 240-78721/17-A	88	74	75	77
	LCS 240-78721/18-A	88	73	87	79

	QC LIMITS
TCX = Tetrachloro-m-xylene	40-140
DCB = DCB Decachlorobiphenyl	40-135

Column to be used to flag recovery values

FORM II 8082/DOD

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): CLP-2 ID: 0.53 (mm) GC Column (2): CLP-1 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
	MRL 240-79577/4		119		116
	MRL 240-79577/31	136	112	132	120

	QC LIMITS
TCX = Tetrachloro-m-xylene	50-150
DCB = DCB Decachlorobiphenyl	50-150

Column to be used to flag recovery values

FORM II 8082/DOD

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P4000029.D

Lab ID: LCS 240-78721/18-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Aroclor-1016	5.00	4.44	89	25-145	
Aroclor-1260	5.00	4.51	90	30-145	

Column to be used to flag recovery and RPD values

FORM III 8082/DOD

FORM III
PCBS METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P4000004.D

Lab ID: MRL 240-79577/4 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Aroclor-1016	0.0500	0.0545	109	70-130	
Aroclor-1260	0.0500	0.0545	109	70-130	

Column to be used to flag recovery and RPD values

FORM III 8082/DOD

FORM III
PCBS METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P4000031.D

Lab ID: MRL 240-79577/31 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Aroclor-1016	0.0500	0.0543	109	70-130	
Aroclor-1016	0.0500	0.0601	120	70-130	
Aroclor-1260	0.0500	0.0536	107	70-130	
Aroclor-1260	0.0500	0.0571	114	70-130	

Column to be used to flag recovery and RPD values

FORM III 8082/DOD

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: MB 240-78721/17-A

Matrix: Water Date Extracted: 03/19/2013 08:52

Lab File ID:(1) P4000020.D Lab File ID:(2) P4000020.D

Date Analyzed:(1) 03/27/2013 12:28 Date Analyzed:(2) 03/27/2013 12:28

Instrument ID:(1) A2HP4 Instrument ID:(2) A2HP4

GC Column:(1) CLP-2 ID: 0.53(mm) GC Column:(2) CLP-1 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
079-0007-0001-SOURCEWATER	240-21987-1	03/27/2013 10:07	03/27/2013 10:07
	LCS 240-78721/18-A	03/27/2013 14:59	03/27/2013 14:59

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Sample No.: CCV 240-79577/3 Date Analyzed: 03/27/2013 08:01

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P4000003.D Heated Purge: (Y/N) N

Calibration ID: 13429

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				1.26	6.59	
UPPER LIMIT				1.36	6.69	
LOWER LIMIT				1.16	6.49	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-79577/3 CCVRT		03/27/2013 08:01	P4000003.D	1.26	6.59	
240-21987-1	079-0007-0001-SOURCEWATER	03/27/2013 10:07	P4000011.D	1.26	6.59	
MB 240-78721/17-A		03/27/2013 12:28	P4000020.D	1.26	6.59	
CCV 240-79577/21		03/27/2013 12:54	P4000021.D	1.26	6.60	
LCS 240-78721/18-A		03/27/2013 14:59	P4000029.D	1.26	6.59	
CCV 240-79577/30		03/27/2013 15:15	P4000030.D	1.26	6.59	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.1 minutes of surrogate RT
DCB RT Limit = ± 0.1 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082/DOD

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Sample No.: CCV 240-79577/3 Date Analyzed: 03/27/2013 08:01

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P4000003.D Heated Purge: (Y/N) N

Calibration ID: 13430

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				1.66	7.81	
UPPER LIMIT				1.76	7.91	
LOWER LIMIT				1.56	7.71	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-79577/3 CCVRT		03/27/2013 08:01	P4000003.D	1.66	7.81	
240-21987-1	079-0007-0001-SOURCEWATER	03/27/2013 10:07	P4000011.D	1.67	7.81	
MB 240-78721/17-A		03/27/2013 12:28	P4000020.D	1.67	7.82	
CCV 240-79577/21		03/27/2013 12:54	P4000021.D	1.66	7.82	
LCS 240-78721/18-A		03/27/2013 14:59	P4000029.D	1.67	7.81	
CCV 240-79577/30		03/27/2013 15:15	P4000030.D	1.66	7.81	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.1 minutes of surrogate RT
DCB RT Limit = ± 0.1 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082/DOD

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-78721/18-A

Instrument ID (1): A2HP4 Instrument ID (2): A2HP4

Date Analyzed (1): 03/27/2013 14:59 Date Analyzed (2): 03/27/2013 14:59

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): CLP-1 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Aroclor-1016	1	1	2.12	2.02	2.22	4.63	4.91	10.1
		2	2.52	2.42	2.62	4.68		
		3	2.97	2.87	3.07	5.63		
		4	3.11	3.01	3.21	4.74		
		5	3.21	3.11	3.31	4.88		
	2	1	1.53	1.43	1.63	3.57	4.44	
		2	1.81	1.71	1.91	4.21		
		3	2.20	2.10	2.30	5.42		
		4	2.32	2.22	2.42	4.95		
		5	2.69	2.60	2.80	4.06		
Aroclor-1260	1	1	4.92	4.82	5.02	4.81	5.08	12.0
		2	5.15	5.05	5.25	5.07		
		3	5.51	5.41	5.61	5.08		
		4	6.20	6.10	6.30	5.29		
		5	6.58	6.48	6.68	5.16		
	2	1	3.89	3.80	4.00	4.16	4.51	
		2	4.17	4.08	4.28	4.35		
		3	4.45	4.36	4.56	4.51		
		4	5.15	5.06	5.26	4.66		
		5	5.44	5.34	5.54	4.86		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: 079-0007-0001-SOURCEWATER Lab Sample ID: 240-21987-1

Matrix: Water Lab File ID: P4000011.D

Analysis Method: 8082/DOD Date Collected: 03/14/2013 12:00

Extraction Method: 3520C Date Extracted: 03/19/2013 08:52

Sample wt/vol: 1000(mL) Date Analyzed: 03/27/2013 10:07

Con. Extract Vol.: 5.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 79577 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	0.20	U	0.50	0.20	0.13
12674-11-2	Aroclor-1016	0.20	U	0.50	0.20	0.17
11141-16-5	Aroclor-1232	0.20	U	0.50	0.20	0.16
53469-21-9	Aroclor-1242	0.40	U	0.50	0.40	0.22
12672-29-6	Aroclor-1248	0.20	U	0.50	0.20	0.10
11097-69-1	Aroclor-1254	0.20	U	0.50	0.20	0.16
11096-82-5	Aroclor-1260	0.20	U	0.50	0.20	0.17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	80		40-140
2051-24-3	DCB Decachlorobiphenyl	71		40-135

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000011.D		
Lims ID:	240-21987-N-1-A	Client ID:	079-0007-0001-SOURCEWATER
Inject. Date:	27-Mar-2013 10:07:23	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018292-011		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	11
Lims Batch ID:	79577	Lims Sample ID:	11
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130327-18292.b\PCB4.m		
Last Update:	29-Mar-2013 12:29:37	Calib Date:	23-Jan-2013 22:06:47
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK024		

First Level Reviewer: hassl Date: 29-Mar-2013 12:29:37

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.262	1.259	0.003	46543883	0.0318			
2	2	1.667	1.662	0.005	44285661	0.0387			
						RPD = 19.41			
3 PCB-1221									
1	2		1.390						
1	3		1.497						
1	4		1.527						
2	4		1.937						
2	5		2.068						
2	6		2.123						
5 PCB-1242									
1	100		1.527						
1	2		1.807						
1	3		2.197						
1	4		2.317						
1	5		2.693						
2	6		2.123						
2	7		2.517						
2	8		2.966						
2	9		3.105						
2	10		3.588						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.527						
1	2		1.808						
1	3		2.197						
1	4		2.316						
1	5		2.694						
2	6		2.123						
2	7		2.517						
2	8		2.967						
2	9		3.105						
2	10		3.714						
6 PCB-1016									
1	100		1.527						
1	2		1.807						
1	3		2.196						
1	4		2.316						
1	5		2.694						
2	6		2.122						
2	7		2.516						
2	8		2.966						
2	9		3.104						
2	10		3.207						
7 PCB-1248									
1	86		1.809						
1	2		2.196						
1	3		2.695						
1	4		3.270						
1	5		3.701						
2	6		2.517						
2	7		2.967						
2	8		3.714						
2	9		3.988						
2	10		4.709						
8 PCB-1254									
1	100		3.316						
1	2		3.701						
1	3		3.982						
1	4		4.172						
1	5		4.454						
2	6		4.234						
2	7		4.709						
2	8		4.953						
2	9		5.313						
2	10		5.516						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									1
1	100		3.889						
1	2		4.175						
1	3		4.454						
1	4		5.153						
1	5		5.436						
2	6		4.916						
2	7		5.144						
2	8		5.512						
2	9		6.196						
2	10		6.578						
$ 12 DCB Decachlorobiphenyl									
1	100	6.592	6.591	0.001	36299668	0.0283			
2	2	7.813	7.813	0.000	35264934	0.0321			
						RPD = 12.77			

QC Flag Legend

Processing Flags
1 - Missing Peaks

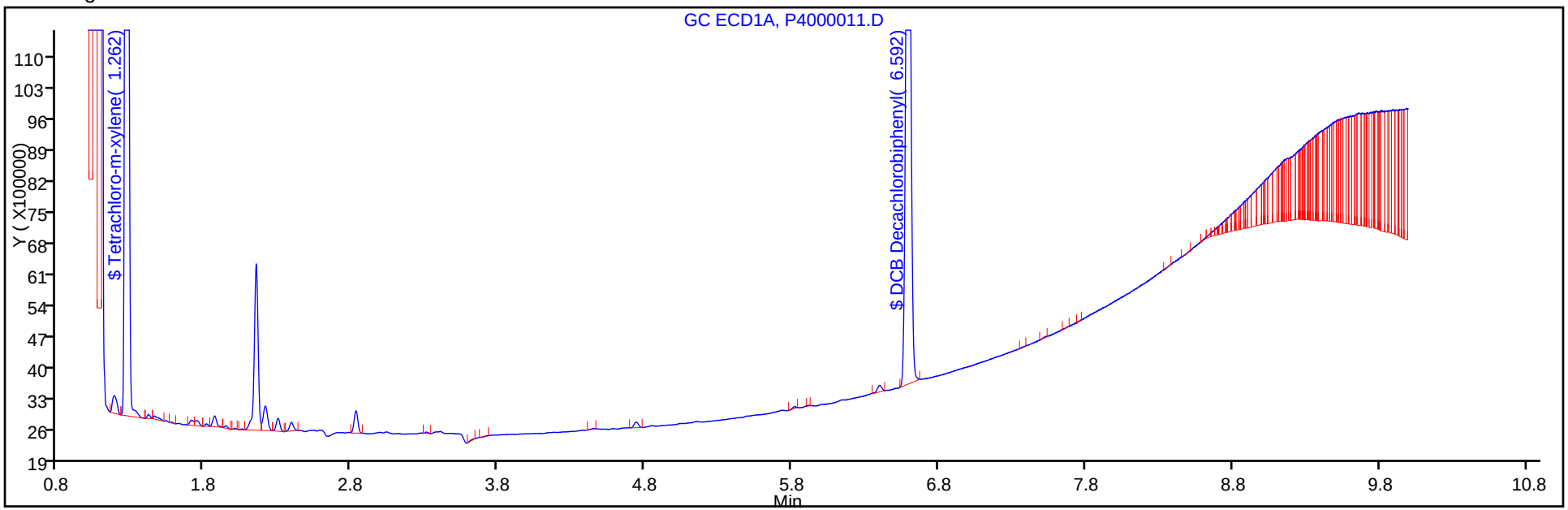
Report Date: 29-Mar-2013 12:29:37 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

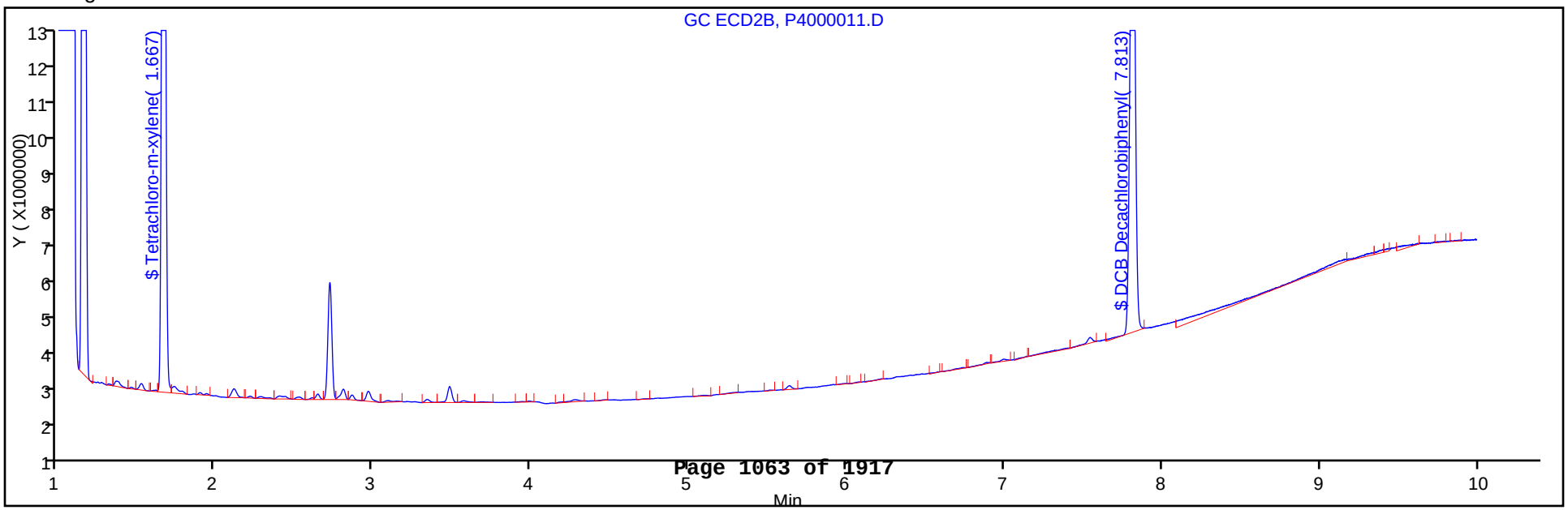
Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000011.D

Injection Date:	27-Mar-2013 10:07:23	Limit Group:	GC 8082A ICAL
Client ID:	079-0007-0001-SOURCEWATER	Instrument ID:	A2HP4
Lims Batch ID:	79577	Lims Sample ID:	11
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: 079-0007-0001-SOURCEWATER Lab Sample ID: 240-21987-1

Matrix: Water Lab File ID: P4000011.D

Analysis Method: 8082/DOD Date Collected: 03/14/2013 12:00

Extraction Method: 3520C Date Extracted: 03/19/2013 08:52

Sample wt/vol: 1000(mL) Date Analyzed: 03/27/2013 10:07

Con. Extract Vol.: 5.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 79577 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	97		40-140
2051-24-3	DCB Decachlorobiphenyl	80		40-135

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000011.D		
Lims ID:	240-21987-N-1-A	Client ID:	079-0007-0001-SOURCEWATER
Inject. Date:	27-Mar-2013 10:07:23	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018292-011		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	11
Lims Batch ID:	79577	Lims Sample ID:	11
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130327-18292.b\PCB4.m		
Last Update:	29-Mar-2013 12:29:37	Calib Date:	23-Jan-2013 22:06:47
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK024		

First Level Reviewer: hassl Date: 29-Mar-2013 12:29:37

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.262	1.259	0.003	46543883	0.0318			
2	2	1.667	1.662	0.005	44285661	0.0387			
						RPD = 19.41			
3 PCB-1221									
1	2		1.390						
1	3		1.497						
1	4		1.527						
2	4		1.937						
2	5		2.068						
2	6		2.123						
5 PCB-1242									
1	100		1.527						
1	2		1.807						
1	3		2.197						
1	4		2.317						
1	5		2.693						
2	6		2.123						
2	7		2.517						
2	8		2.966						
2	9		3.105						
2	10		3.588						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.527						
1	2		1.808						
1	3		2.197						
1	4		2.316						
1	5		2.694						
2	6		2.123						
2	7		2.517						
2	8		2.967						
2	9		3.105						
2	10		3.714						
6 PCB-1016									
1	100		1.527						
1	2		1.807						
1	3		2.196						
1	4		2.316						
1	5		2.694						
2	6		2.122						
2	7		2.516						
2	8		2.966						
2	9		3.104						
2	10		3.207						
7 PCB-1248									
1	86		1.809						
1	2		2.196						
1	3		2.695						
1	4		3.270						
1	5		3.701						
2	6		2.517						
2	7		2.967						
2	8		3.714						
2	9		3.988						
2	10		4.709						
8 PCB-1254									
1	100		3.316						
1	2		3.701						
1	3		3.982						
1	4		4.172						
1	5		4.454						
2	6		4.234						
2	7		4.709						
2	8		4.953						
2	9		5.313						
2	10		5.516						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									1
1	100		3.889						
1	2		4.175						
1	3		4.454						
1	4		5.153						
1	5		5.436						
2	6		4.916						
2	7		5.144						
2	8		5.512						
2	9		6.196						
2	10		6.578						
$ 12 DCB Decachlorobiphenyl									
1	100	6.592	6.591	0.001	36299668	0.0283			
2	2	7.813	7.813	0.000	35264934	0.0321			
						RPD = 12.77			

QC Flag Legend

Processing Flags
1 - Missing Peaks

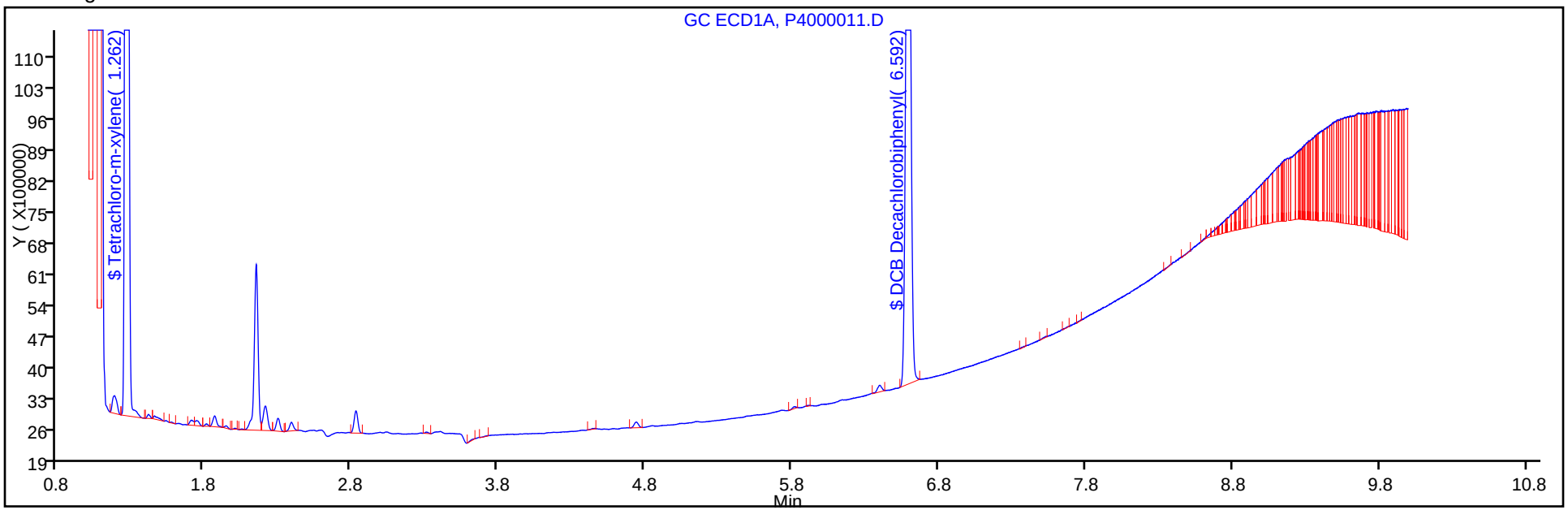
Report Date: 29-Mar-2013 12:29:38 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

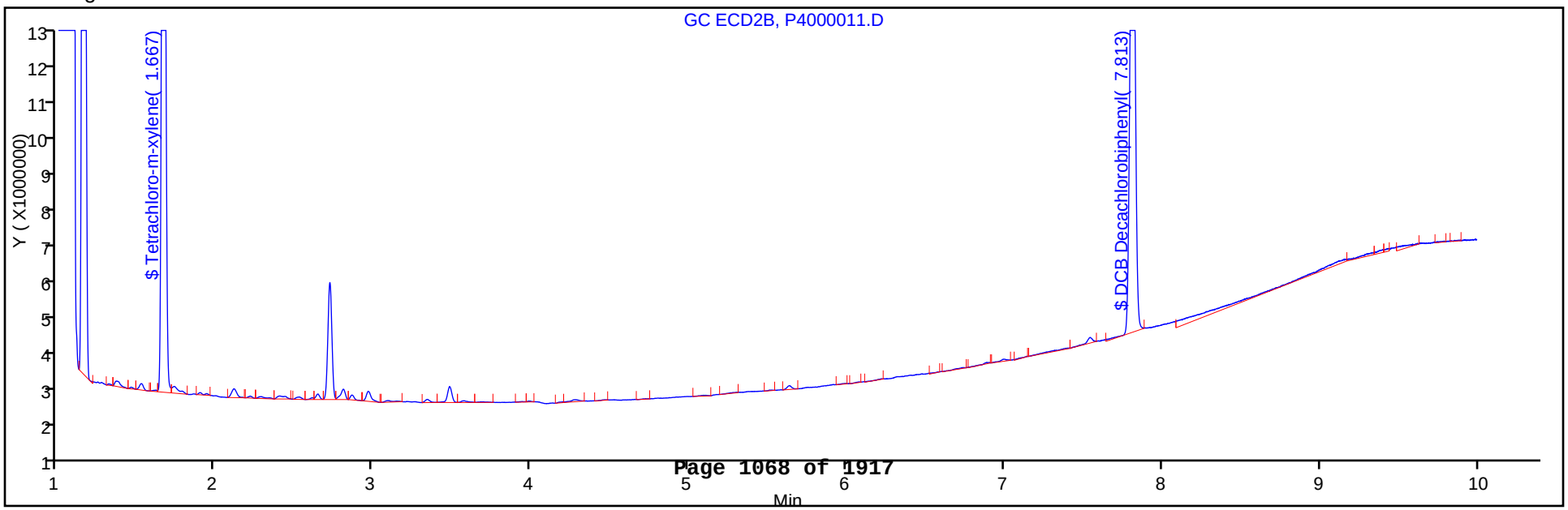
Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000011.D

Injection Date:	27-Mar-2013 10:07:23	Limit Group:	GC 8082A ICAL
Client ID:	079-0007-0001-SOURCEWATER	Instrument ID:	A2HP4
Lims Batch ID:	79577	Lims Sample ID:	11
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 11:22 Calibration End Date: 01/23/2013 12:41 Calibration ID: 13441

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/3	P4000003.D
Level 2	STD01 240-72953/4	P4000004.D
Level 3	STD02 240-72953/5	P4000005.D
Level 4	STD05 240-72953/6	P4000006.D
Level 5	STD1 240-72953/7	P4000007.D
Level 6	STD2 240-72953/8	P4000008.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1232 Peak 1	1.536	1.537	1.537	1.537	1.537	1.536					1.436 - 1.636	1.537
PCB-1232 Peak 2	1.818	1.818	1.818	1.819	1.819	1.819					1.718 - 1.918	1.819
PCB-1232 Peak 3	2.211	2.209	2.209	2.210	2.210	2.210					2.111 - 2.311	2.210
PCB-1232 Peak 4	2.329	2.330	2.330	2.330	2.329	2.330					2.229 - 2.429	2.330
PCB-1232 Peak 5	2.707	2.707	2.708	2.708	2.709	2.708					2.607 - 2.807	2.708

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton | Job No.: 240-21987-1 | Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 | GC Column: CLP-1 | ID: 0.53(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 11:22 | Calibration End Date: 01/23/2013 12:41 | Calibration ID: 13441

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/3	P4000003.D
Level 2	STD01 240-72953/4	P4000004.D
Level 3	STD02 240-72953/5	P4000005.D
Level 4	STD05 240-72953/6	P4000006.D
Level 5	STD1 240-72953/7	P4000007.D
Level 6	STD2 240-72953/8	P4000008.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 6	LVL 3	LVL 4		B	M1	M2								
PCB-1232 Peak 1	32065660 24948908	30645070 23128947	27667980	25209338	Ave		27277650.5				13.0		20.0			
PCB-1232 Peak 2	22623160 17586674	21538000 16403855	19857595	17955790	Ave		19327512.3				13.0		20.0			
PCB-1232 Peak 3	41848140 37770006	42479720 36621521	39538965	37045612	Ave		39217327.3				6.4		20.0			
PCB-1232 Peak 4	18045380 16450603	19066290 15768304	17822395	16468966	Ave		17270322.9				7.2		20.0			
PCB-1232 Peak 5	17932220 15006816	17400630 14243768	16435885	15168912	Ave		16031371.8				9.1		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 11:22 Calibration End Date: 01/23/2013 12:41 Calibration ID: 13441

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/3	P4000003.D
Level 2	STD01 240-72953/4	P4000004.D
Level 3	STD02 240-72953/5	P4000005.D
Level 4	STD05 240-72953/6	P4000006.D
Level 5	STD1 240-72953/7	P4000007.D
Level 6	STD2 240-72953/8	P4000008.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	Ave	1603283 46257894	3064507	5533596	12604669	24948908	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 2	Ave	1131158 32807709	2153800	3971519	8977895	17586674	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 3	Ave	2092407 73243042	4247972	7907793	18522806	37770006	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 4	Ave	902269 31536607	1906629	3564479	8234483	16450603	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 5	Ave	896611 28487535	1740063	3287177	7584456	15006816	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:

Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000003.D
Lims ID: STD005 1232 Client ID:
Inject. Date: 23-Jan-2013 11:22:39 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0016796-003
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 3
Lims Batch ID: 72953 Lims Sample ID: 3
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:50:27 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.536	1.536	0.000	1603283	0.0588		100.0	
1	2	1.818	1.818	0.000	1131158	0.0585	46.8- 96.8	70.6	
1	3	2.211	2.211	0.000	2092407	0.0534	117.9- 167.9	130.5	
1	4	2.329	2.329	0.000	902269	0.0522	39.4- 89.4	56.3	
1	5	2.707	2.707	0.000	896611	0.0559	34.4- 84.4	55.9	
			Average of Peak Amounts =			0.0558			
2	6	2.131	2.131	0.000	1294932	0.0578		100.0	
2	7	2.526	2.526	0.000	1134655	0.0624	47.9- 107.9	87.6	
2	8	2.978	2.978	0.000	1848414	0.0549	118.4- 178.4	142.7	
2	9	3.116	3.116	0.000	839334	0.0567	36.9- 96.9	64.8	
2	10	3.726	3.726	0.000	716559	0.0583	22.5- 82.5	55.3	
			Average of Peak Amounts =			0.0580			
						RPD = 3.98			

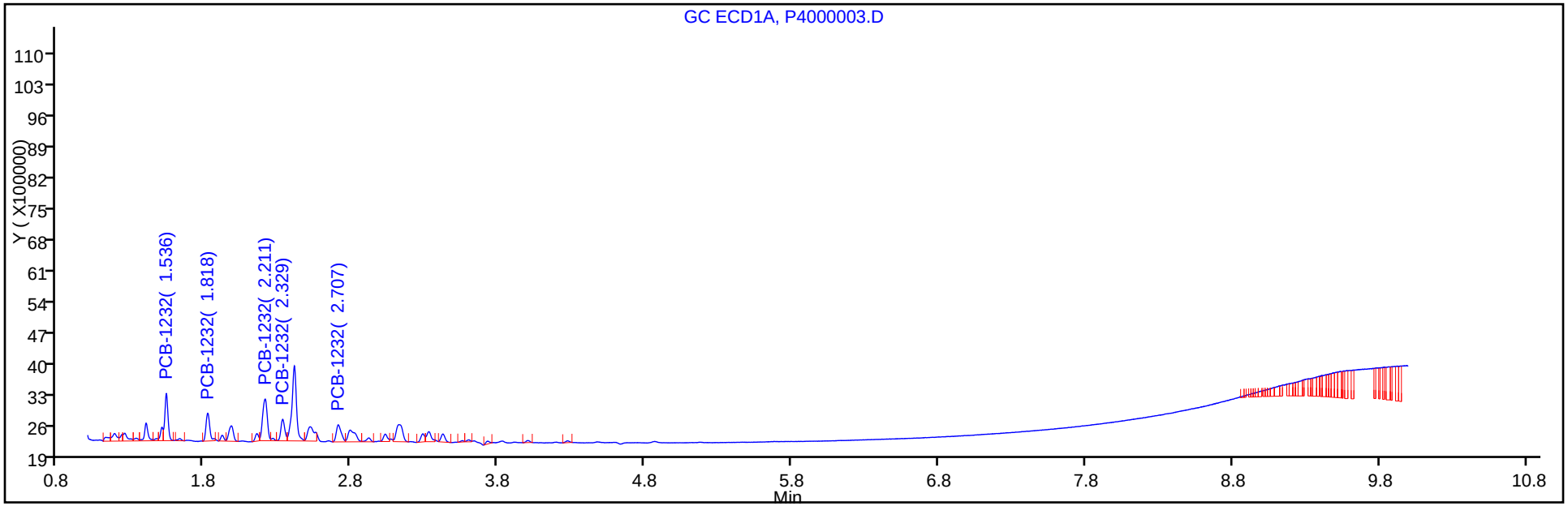
Report Date: 24-Jan-2013 07:50:28 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

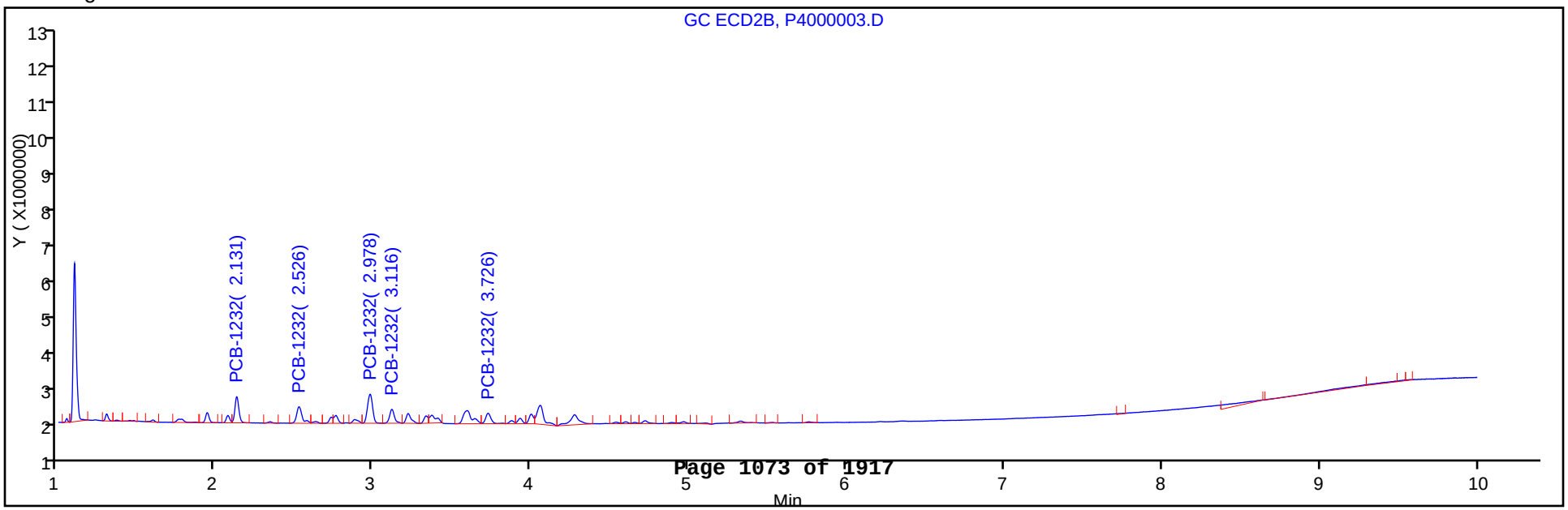
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000003.D

Injection Date:	23-Jan-2013 11:22:39	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000004.D
Lims ID: STD01 1232 Client ID:
Inject. Date: 23-Jan-2013 11:38:20 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0016796-004
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 4
Lims Batch ID: 72953 Lims Sample ID: 4
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:50:25 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.537	1.536	0.001	3064507	0.1123		100.0	
1	2	1.818	1.818	0.000	2153800	0.1114	46.8- 96.8	70.3	
1	3	2.209	2.211	-0.002	4247972	0.1083	117.9- 167.9	138.6	
1	4	2.330	2.329	0.001	1906629	0.1104	39.4- 89.4	62.2	
1	5	2.707	2.707	0.000	1740063	0.1085	34.4- 84.4	56.8	
			Average of Peak Amounts =			0.1102			
2	6	2.131	2.131	0.000	2466425	0.1101		100.0	
2	7	2.527	2.526	0.001	2161756	0.1189	47.9- 107.9	87.6	
2	8	2.977	2.978	-0.001	3551259	0.1055	118.4- 178.4	144.0	
2	9	3.116	3.116	0.000	1591857	0.1075	36.9- 96.9	64.5	
2	10	3.725	3.726	-0.001	1330073	0.1082	22.5- 82.5	53.9	
			Average of Peak Amounts =			0.1101			
						RPD = 0.14			

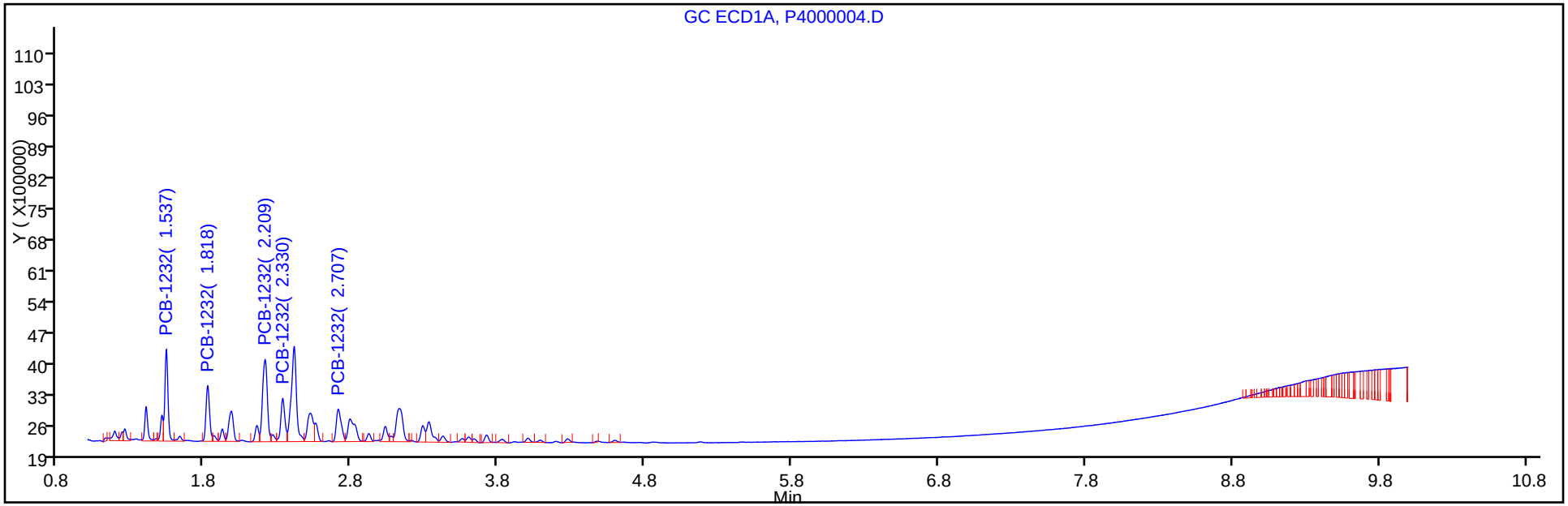
Report Date: 24-Jan-2013 07:50:26 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

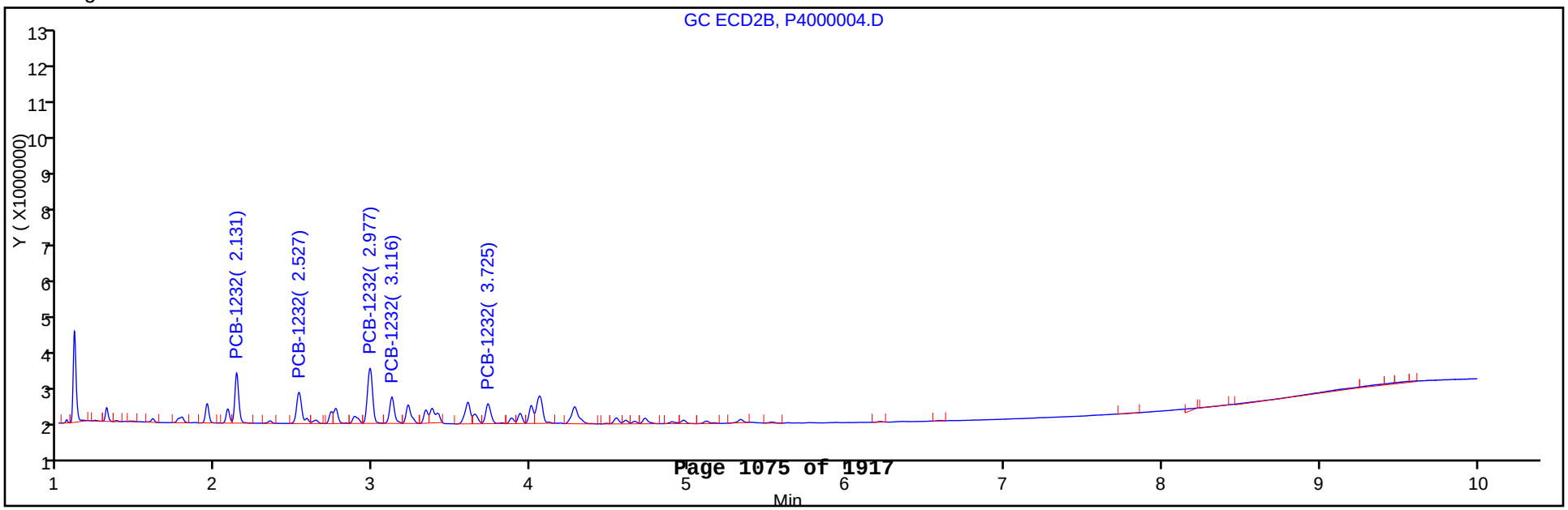
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000004.D

Injection Date:	23-Jan-2013 11:38:20	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	4
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000005.D
Lims ID: STD02 1232 Client ID:
Inject. Date: 23-Jan-2013 11:54:11 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0016796-005
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 5
Lims Batch ID: 72953 Lims Sample ID: 5
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:50:22 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.537	1.536	0.001	5533596	0.2029		100.0	
1	2	1.818	1.818	0.000	3971519	0.2055	46.8- 96.8	71.8	
1	3	2.209	2.211	-0.002	7907793	0.2016	117.9- 167.9	142.9	
1	4	2.330	2.329	0.001	3564479	0.2064	39.4- 89.4	64.4	
1	5	2.708	2.707	0.001	3287177	0.2050	34.4- 84.4	59.4	
			Average of Peak Amounts =			0.2043			
2	6	2.132	2.131	0.001	4633451	0.2069		100.0	
2	7	2.526	2.526	0.000	3611192	0.1985	47.9- 107.9	77.9	
2	8	2.978	2.978	0.000	6877859	0.2044	118.4- 178.4	148.4	
2	9	3.116	3.116	0.000	3099315	0.2094	36.9- 96.9	66.9	
2	10	3.725	3.726	-0.001	2430800	0.1978	22.5- 82.5	52.5	
			Average of Peak Amounts =			0.2034			
						RPD = 0.43			

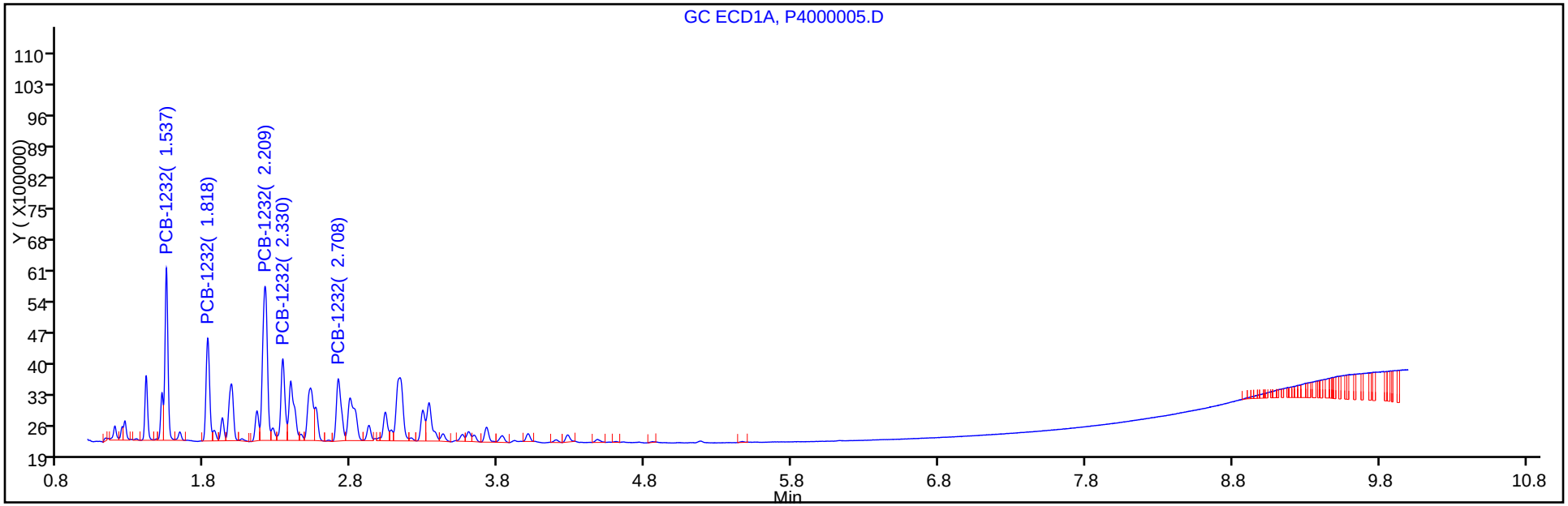
Report Date: 24-Jan-2013 07:50:23 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

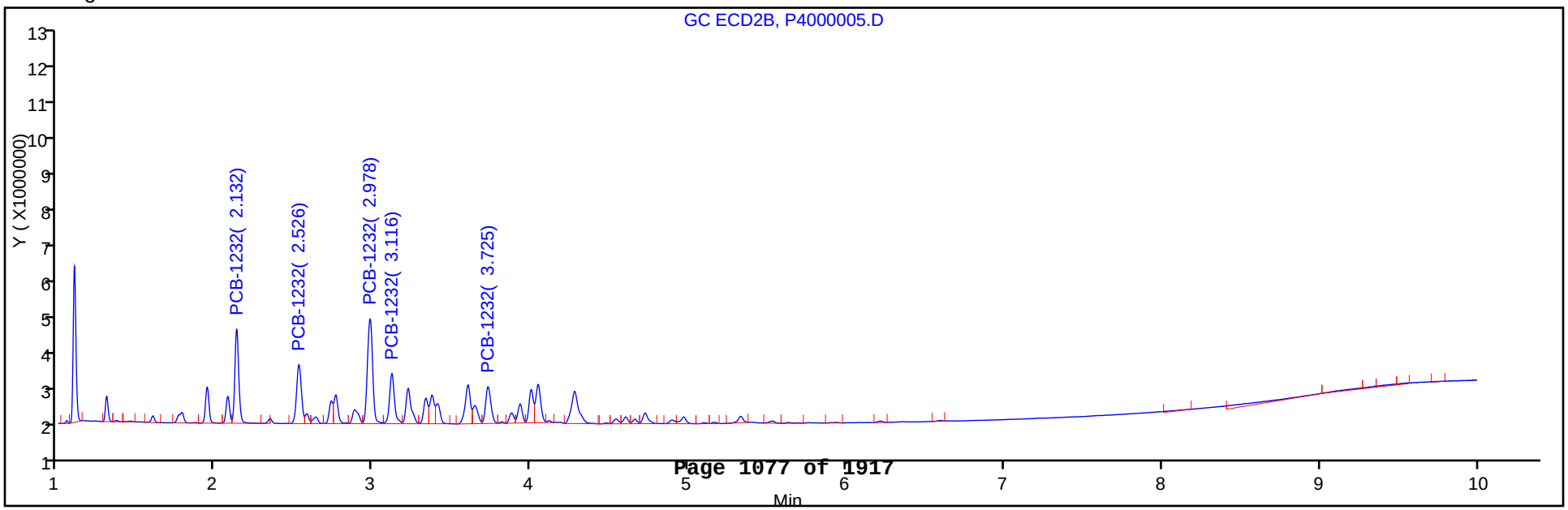
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000005.D

Injection Date:	23-Jan-2013 11:54:11	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	5
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000006.D
Lims ID: STD05 1232 Client ID:
Inject. Date: 23-Jan-2013 12:09:50 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0016796-006
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 6
Lims Batch ID: 72953 Lims Sample ID: 6
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:50:20 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.537	1.536	0.001	12604669	0.4621		100.0	
1	2	1.819	1.818	0.001	8977895	0.4645	46.8- 96.8	71.2	
1	3	2.210	2.211	-0.001	18522806	0.4723	117.9- 167.9	147.0	
1	4	2.330	2.329	0.001	8234483	0.4768	39.4- 89.4	65.3	
1	5	2.708	2.707	0.001	7584456	0.4731	34.4- 84.4	60.2	
			Average of Peak Amounts =			0.4698			
2	6	2.132	2.131	0.001	10361023	0.4626		100.0	
2	7	2.526	2.526	0.000	8030102	0.4415	47.9- 107.9	77.5	
2	8	2.977	2.978	-0.001	15403522	0.4577	118.4- 178.4	148.7	
2	9	3.116	3.116	0.000	6559392	0.4431	36.9- 96.9	63.3	
2	10	3.727	3.726	0.001	5690903	0.4631	22.5- 82.5	54.9	
			Average of Peak Amounts =			0.4536			
						RPD = 3.50			

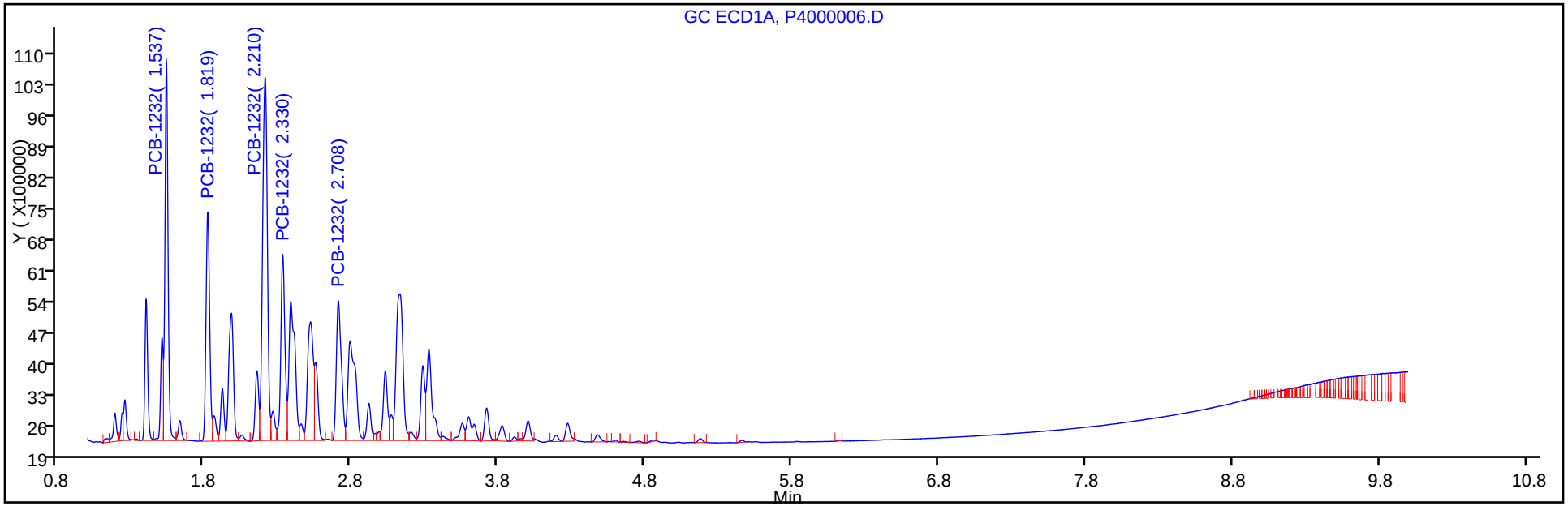
Report Date: 24-Jan-2013 07:50:21 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

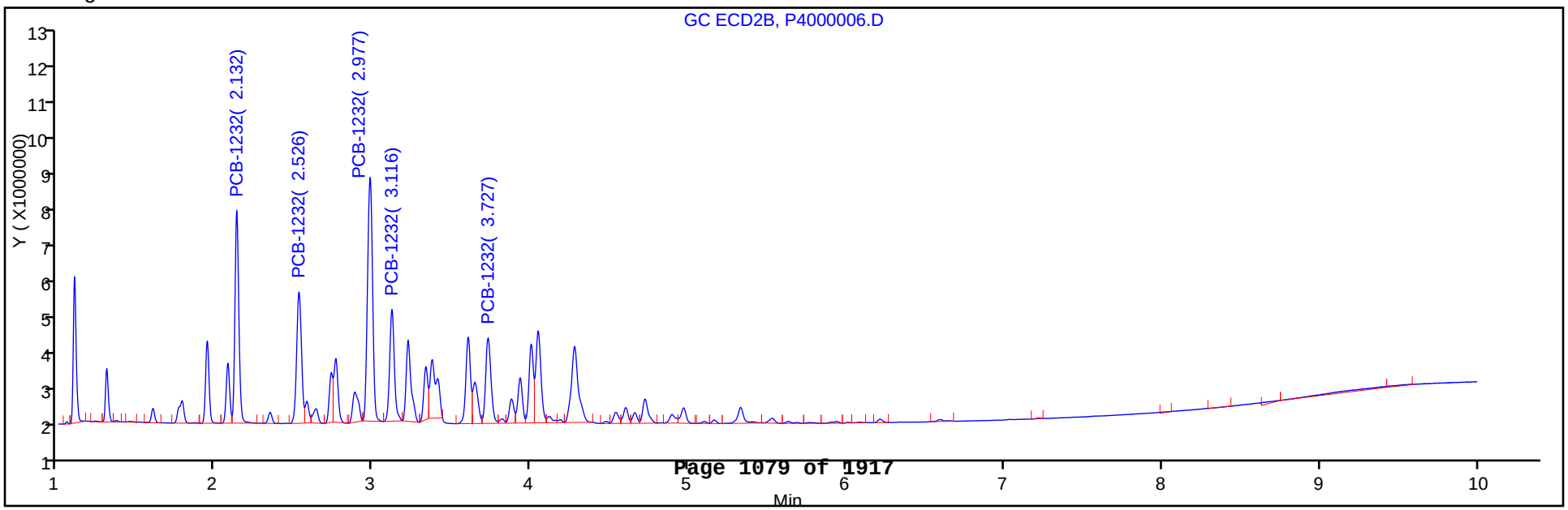
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000006.D

Injection Date:	23-Jan-2013 12:09:50	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	6
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000007.D
Lims ID: STD1 1232 Client ID:
Inject. Date: 23-Jan-2013 12:25:33 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0016796-007
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 7
Lims Batch ID: 72953 Lims Sample ID: 7
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:50:18 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.537	1.536	0.001	24948908	0.9146		100.0	
1	2	1.819	1.818	0.001	17586674	0.9099	46.8- 96.8	70.5	
1	3	2.210	2.211	-0.001	37770006	0.9631	117.9- 167.9	151.4	
1	4	2.329	2.329	0.000	16450603	0.9525	39.4- 89.4	65.9	
1	5	2.709	2.707	0.002	15006816	0.9361	34.4- 84.4	60.2	
			Average of Peak Amounts =			0.9353			
2	6	2.131	2.131	0.000	20664486	0.9227		100.0	
2	7	2.526	2.526	0.000	15833536	0.8705	47.9- 107.9	76.6	
2	8	2.977	2.978	-0.001	32625096	0.9695	118.4- 178.4	157.9	
2	9	3.116	3.116	0.000	14071319	0.9506	36.9- 96.9	68.1	
2	10	3.726	3.726	0.000	11542138	0.9392	22.5- 82.5	55.9	
			Average of Peak Amounts =			0.9305			
						RPD = 0.51			

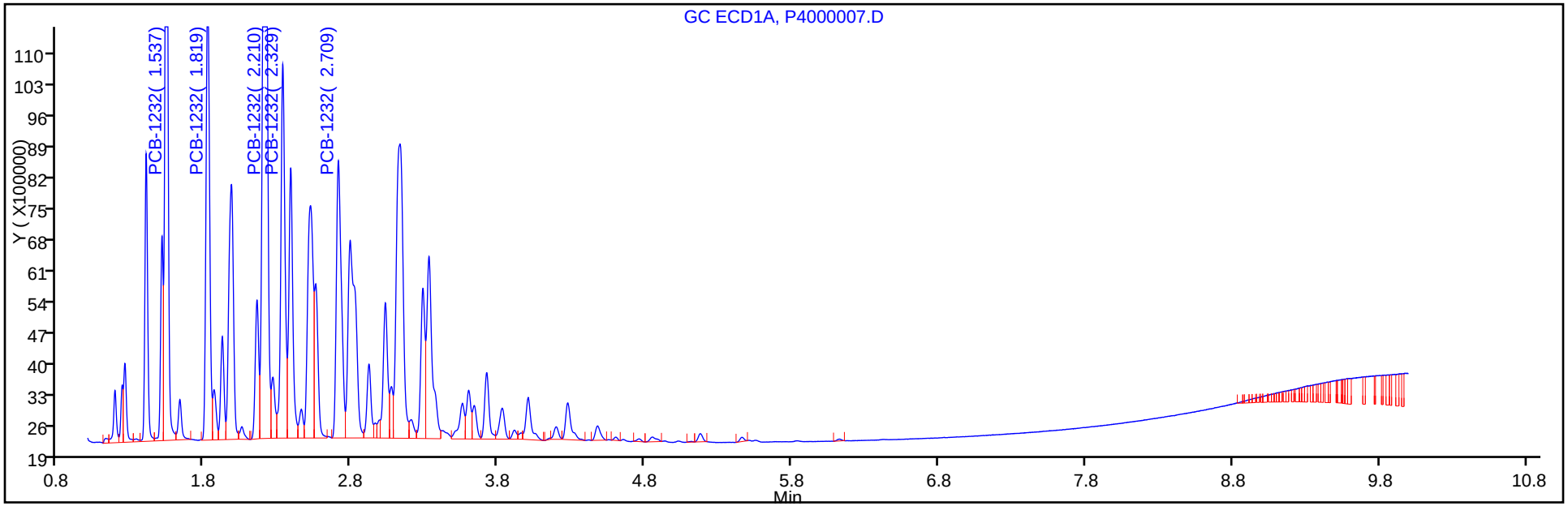
Report Date: 24-Jan-2013 07:50:19 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

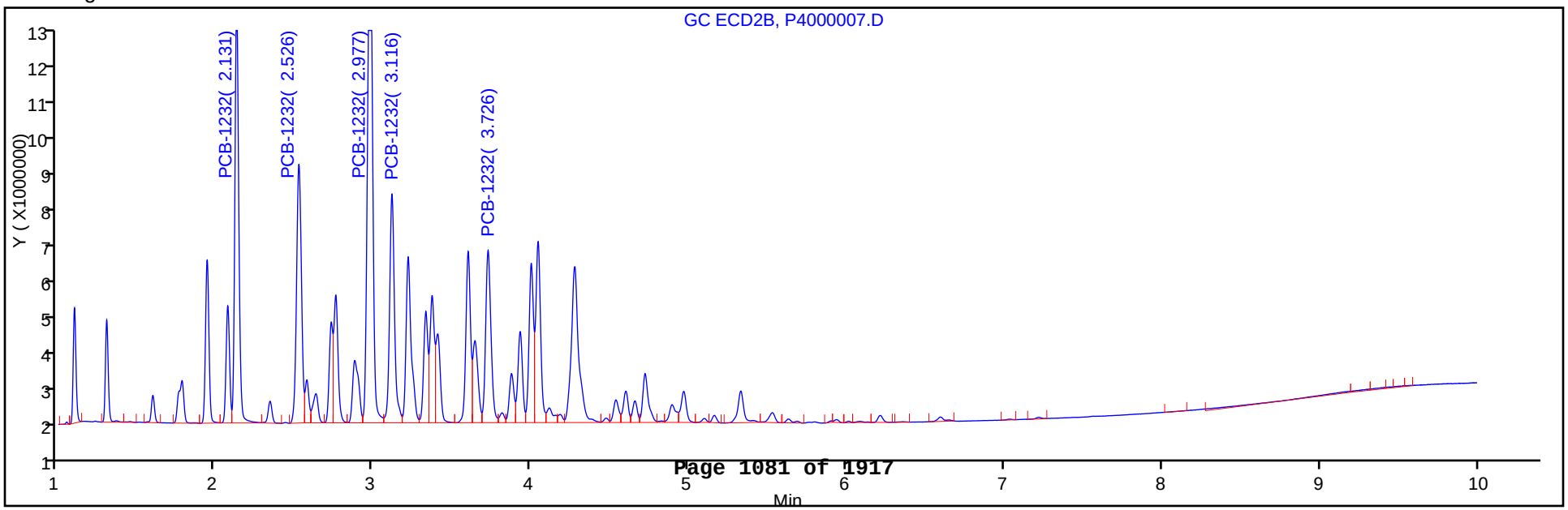
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000007.D

Injection Date:	23-Jan-2013 12:25:33	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	7
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000008.D
Lims ID: STD2 1232 Client ID:
Inject. Date: 23-Jan-2013 12:41:10 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0016796-008
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 8
Lims Batch ID: 72953 Lims Sample ID: 8
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:50:16 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.536	1.536	0.000	46257894	1.70		100.0	
1	2	1.819	1.818	0.001	32807709	1.70	46.8- 96.8	70.9	
1	3	2.210	2.211	-0.001	73243042	1.87	117.9- 167.9	158.3	
1	4	2.330	2.329	0.001	31536607	1.83	39.4- 89.4	68.2	
1	5	2.708	2.707	0.001	28487535	1.78	34.4- 84.4	61.6	
			Average of Peak Amounts =			1.77			
2	6	2.131	2.131	0.000	38506652	1.72		100.0	
2	7	2.526	2.526	0.000	29740785	1.64	47.9- 107.9	77.2	
2	8	2.978	2.978	0.000	63212471	1.88	118.4- 178.4	164.2	
2	9	3.116	3.116	0.000	26844485	1.81	36.9- 96.9	69.7	
2	10	3.725	3.726	-0.001	22045833	1.79	22.5- 82.5	57.3	
			Average of Peak Amounts =			1.77			
						RPD = 0.26			

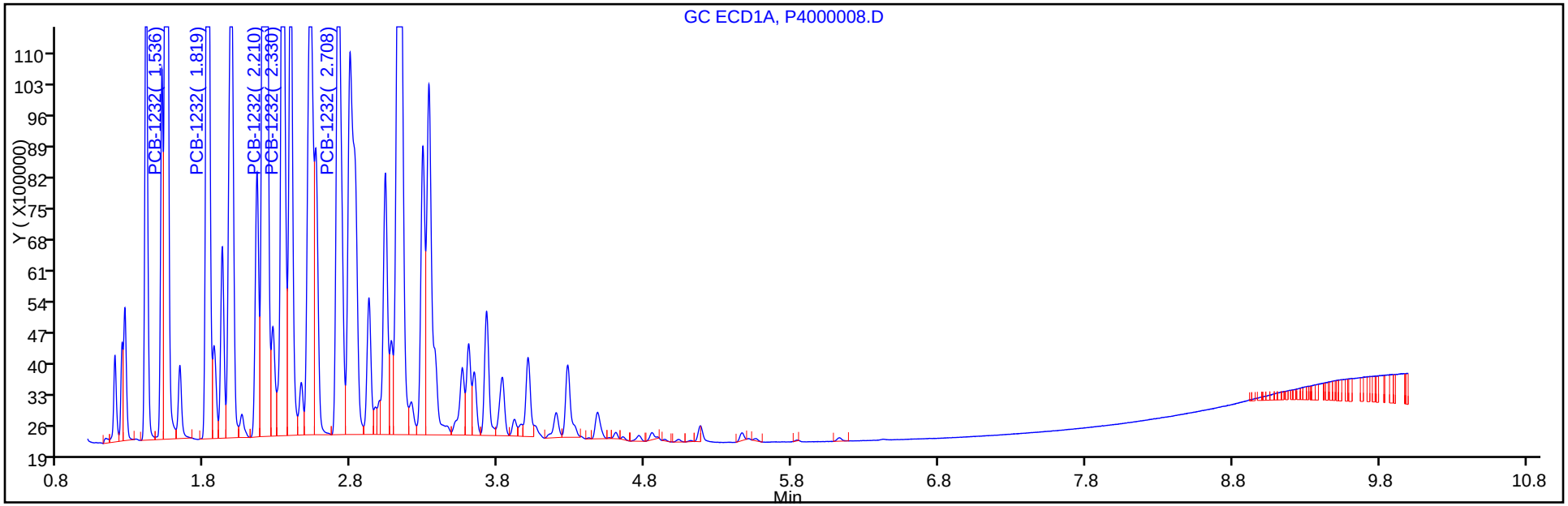
Report Date: 24-Jan-2013 07:50:17 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

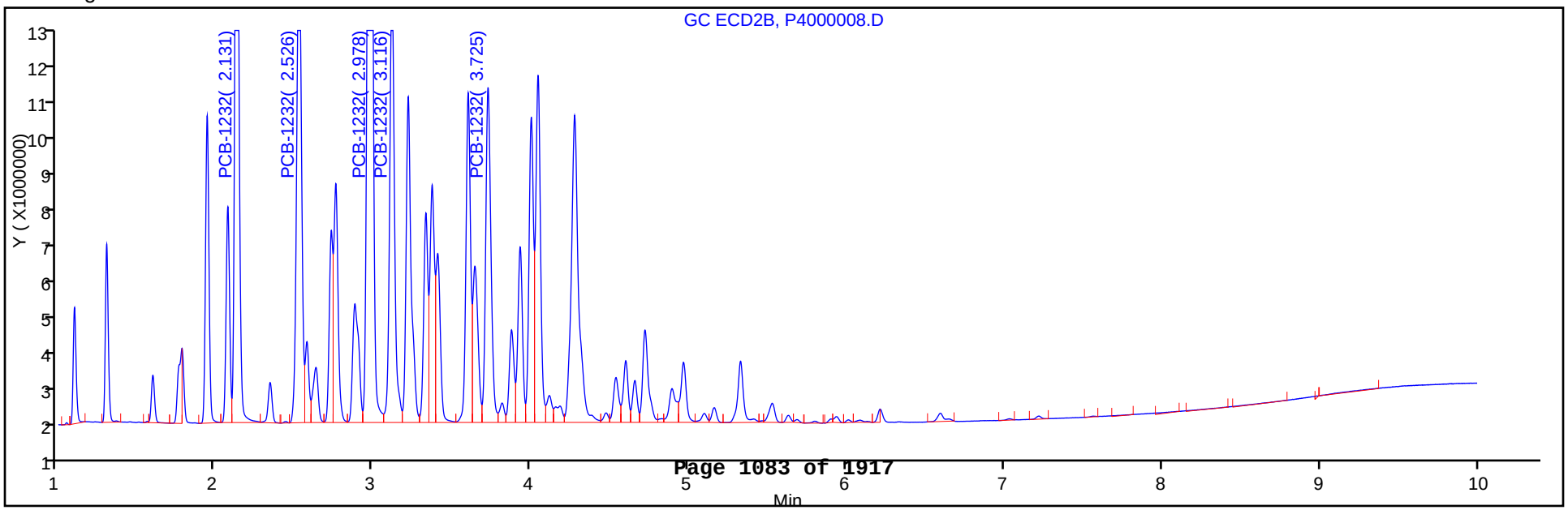
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000008.D

Injection Date:	23-Jan-2013 12:41:10	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	8
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 11:22 Calibration End Date: 01/23/2013 12:41 Calibration ID: 13442

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/3	P4000003.D
Level 2	STD01 240-72953/4	P4000004.D
Level 3	STD02 240-72953/5	P4000005.D
Level 4	STD05 240-72953/6	P4000006.D
Level 5	STD1 240-72953/7	P4000007.D
Level 6	STD2 240-72953/8	P4000008.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1232 Peak 1	2.131	2.131	2.132	2.132	2.131	2.131					2.031 - 2.231	2.131
PCB-1232 Peak 2	2.526	2.527	2.526	2.526	2.526	2.526					2.426 - 2.626	2.526
PCB-1232 Peak 3	2.978	2.977	2.978	2.977	2.977	2.978					2.878 - 3.078	2.978
PCB-1232 Peak 4	3.116	3.116	3.116	3.116	3.116	3.116					3.016 - 3.216	3.116
PCB-1232 Peak 5	3.726	3.725	3.725	3.727	3.726	3.725					3.626 - 3.826	3.726

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 11:22 Calibration End Date: 01/23/2013 12:41 Calibration ID: 13442

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/3	P4000003.D
Level 2	STD01 240-72953/4	P4000004.D
Level 3	STD02 240-72953/5	P4000005.D
Level 4	STD05 240-72953/6	P4000006.D
Level 5	STD1 240-72953/7	P4000007.D
Level 6	STD2 240-72953/8	P4000008.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 6	LVL 3	LVL 4		B	M1	M2								
PCB-1232 Peak 1	25898640 20664486	24664250 19253326	23167255	20722046	Ave		22395000.5				12.0		20.0			
PCB-1232 Peak 2	22693100 15833536	21617560 14870393	18055960	16060204	Ave		18188458.8				18.0		20.0			
PCB-1232 Peak 3	36968280 32625096	35512590 31606236	34389295	30807044	Ave		33651423.4				7.1		20.0			
PCB-1232 Peak 4	16786680 14071319	15918570 13422242	15496575	13118784	Ave		14802361.8				10.0		20.0			
PCB-1232 Peak 5	14331180 11542138	13300730 11022917	12154000	11381806	Ave		12288795.1				10.0		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 11:22 Calibration End Date: 01/23/2013 12:41 Calibration ID: 13442

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/3	P4000003.D
Level 2	STD01 240-72953/4	P4000004.D
Level 3	STD02 240-72953/5	P4000005.D
Level 4	STD05 240-72953/6	P4000006.D
Level 5	STD1 240-72953/7	P4000007.D
Level 6	STD2 240-72953/8	P4000008.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	Ave	1294932 38506652	2466425	4633451	10361023	20664486	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 2	Ave	1134655 29740785	2161756	3611192	8030102	15833536	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 3	Ave	1848414 63212471	3551259	6877859	15403522	32625096	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 4	Ave	839334 26844485	1591857	3099315	6559392	14071319	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 5	Ave	716559 22045833	1330073	2430800	5690903	11542138	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000003.D
Lims ID: STD005 1232 Client ID:
Inject. Date: 23-Jan-2013 11:22:39 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0016796-003
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 3
Lims Batch ID: 72953 Lims Sample ID: 3
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:50:27 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.536	1.536	0.000	1603283	0.0588		100.0	
1	2	1.818	1.818	0.000	1131158	0.0585	46.8- 96.8	70.6	
1	3	2.211	2.211	0.000	2092407	0.0534	117.9- 167.9	130.5	
1	4	2.329	2.329	0.000	902269	0.0522	39.4- 89.4	56.3	
1	5	2.707	2.707	0.000	896611	0.0559	34.4- 84.4	55.9	
			Average of Peak Amounts =			0.0558			
2	6	2.131	2.131	0.000	1294932	0.0578		100.0	
2	7	2.526	2.526	0.000	1134655	0.0624	47.9- 107.9	87.6	
2	8	2.978	2.978	0.000	1848414	0.0549	118.4- 178.4	142.7	
2	9	3.116	3.116	0.000	839334	0.0567	36.9- 96.9	64.8	
2	10	3.726	3.726	0.000	716559	0.0583	22.5- 82.5	55.3	
			Average of Peak Amounts =			0.0580			
						RPD = 3.98			

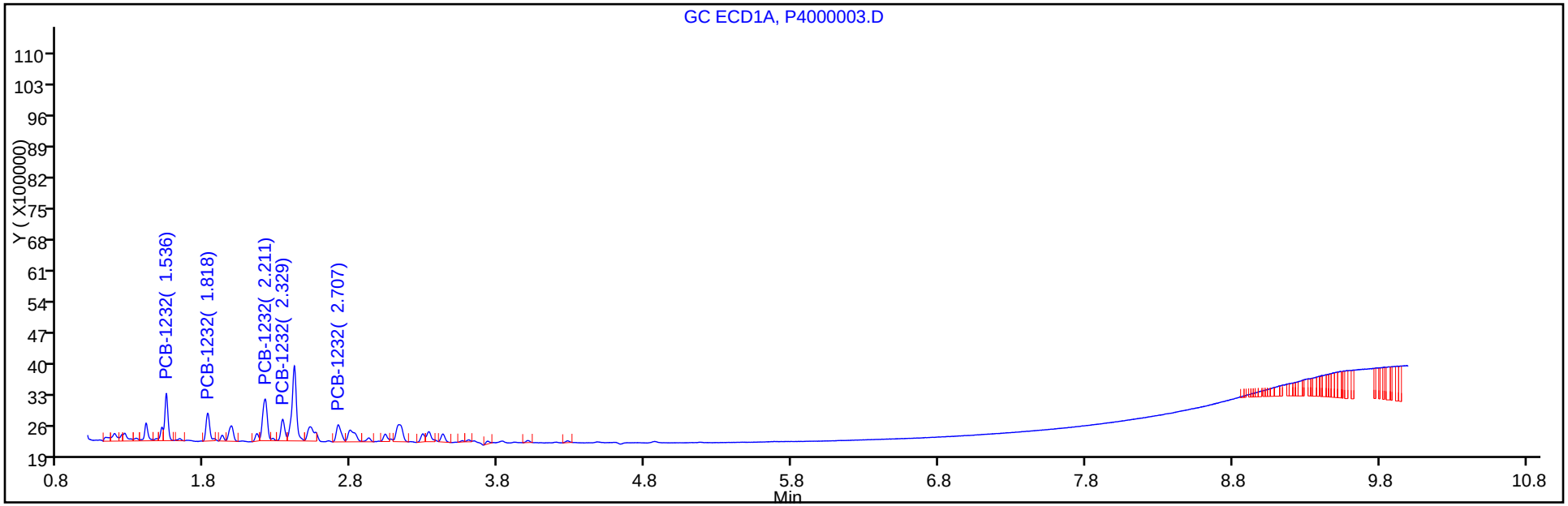
Report Date: 24-Jan-2013 07:50:28 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

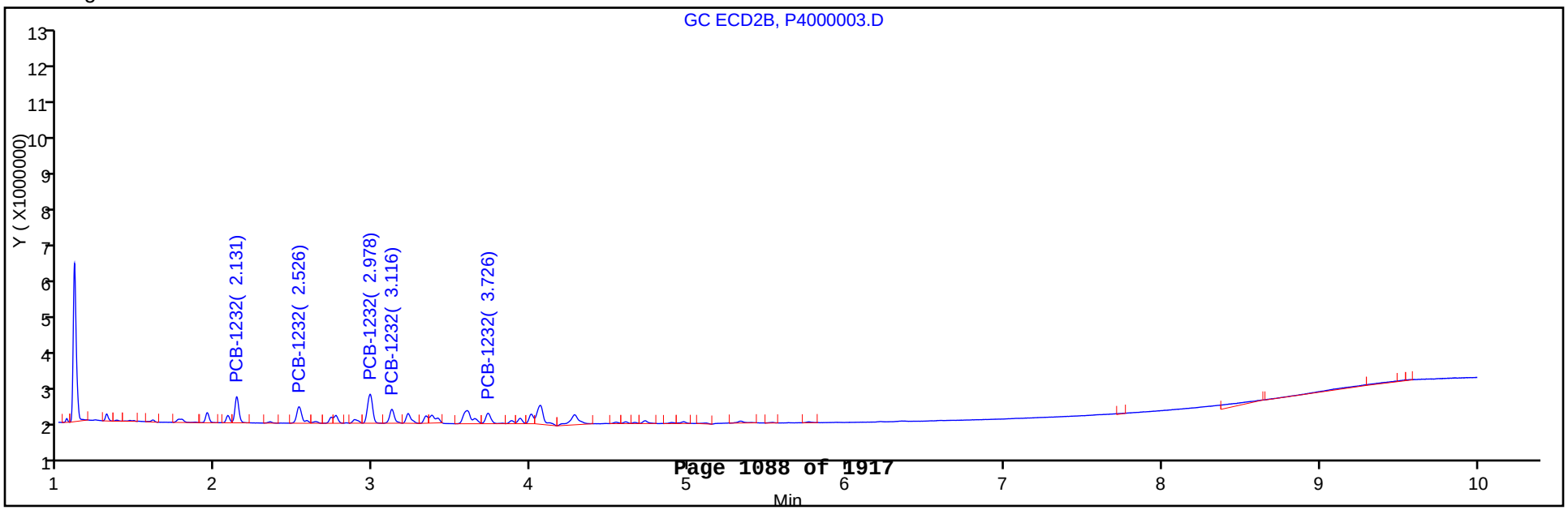
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000003.D

Injection Date:	23-Jan-2013 11:22:39	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000004.D
Lims ID: STD01 1232 Client ID:
Inject. Date: 23-Jan-2013 11:38:20 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0016796-004
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 4
Lims Batch ID: 72953 Lims Sample ID: 4
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:50:25 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.537	1.536	0.001	3064507	0.1123		100.0	
1	2	1.818	1.818	0.000	2153800	0.1114	46.8- 96.8	70.3	
1	3	2.209	2.211	-0.002	4247972	0.1083	117.9- 167.9	138.6	
1	4	2.330	2.329	0.001	1906629	0.1104	39.4- 89.4	62.2	
1	5	2.707	2.707	0.000	1740063	0.1085	34.4- 84.4	56.8	
			Average of Peak Amounts =			0.1102			
2	6	2.131	2.131	0.000	2466425	0.1101		100.0	
2	7	2.527	2.526	0.001	2161756	0.1189	47.9- 107.9	87.6	
2	8	2.977	2.978	-0.001	3551259	0.1055	118.4- 178.4	144.0	
2	9	3.116	3.116	0.000	1591857	0.1075	36.9- 96.9	64.5	
2	10	3.725	3.726	-0.001	1330073	0.1082	22.5- 82.5	53.9	
			Average of Peak Amounts =			0.1101			
						RPD = 0.14			

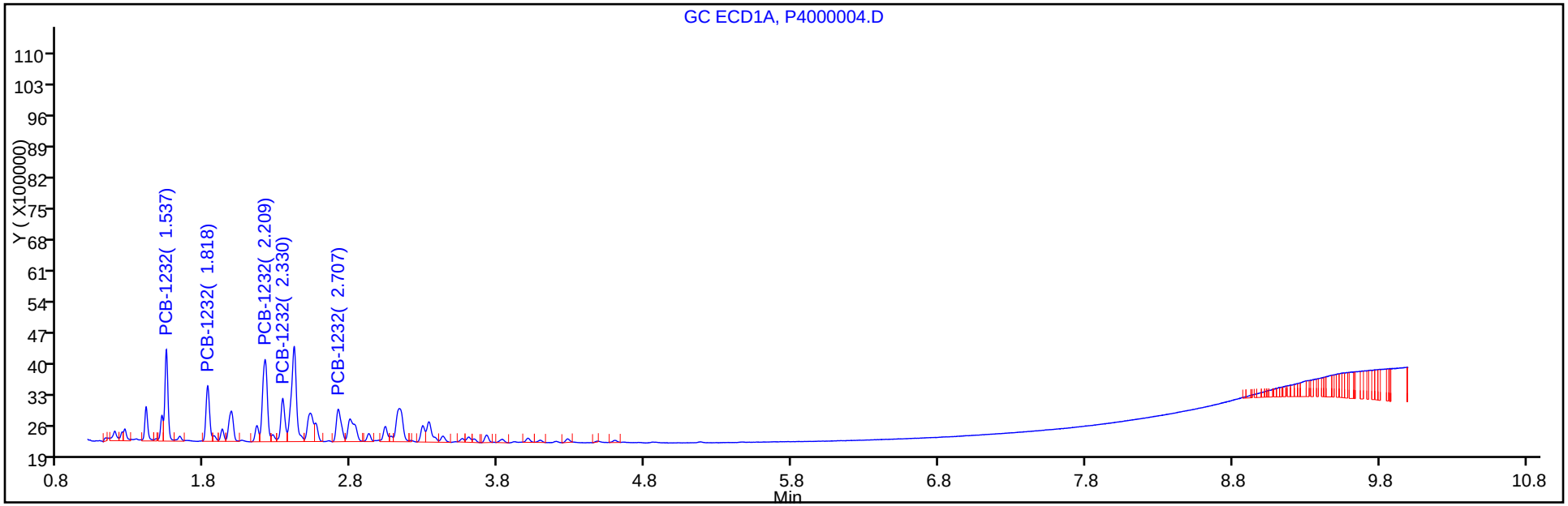
Report Date: 24-Jan-2013 07:50:26 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

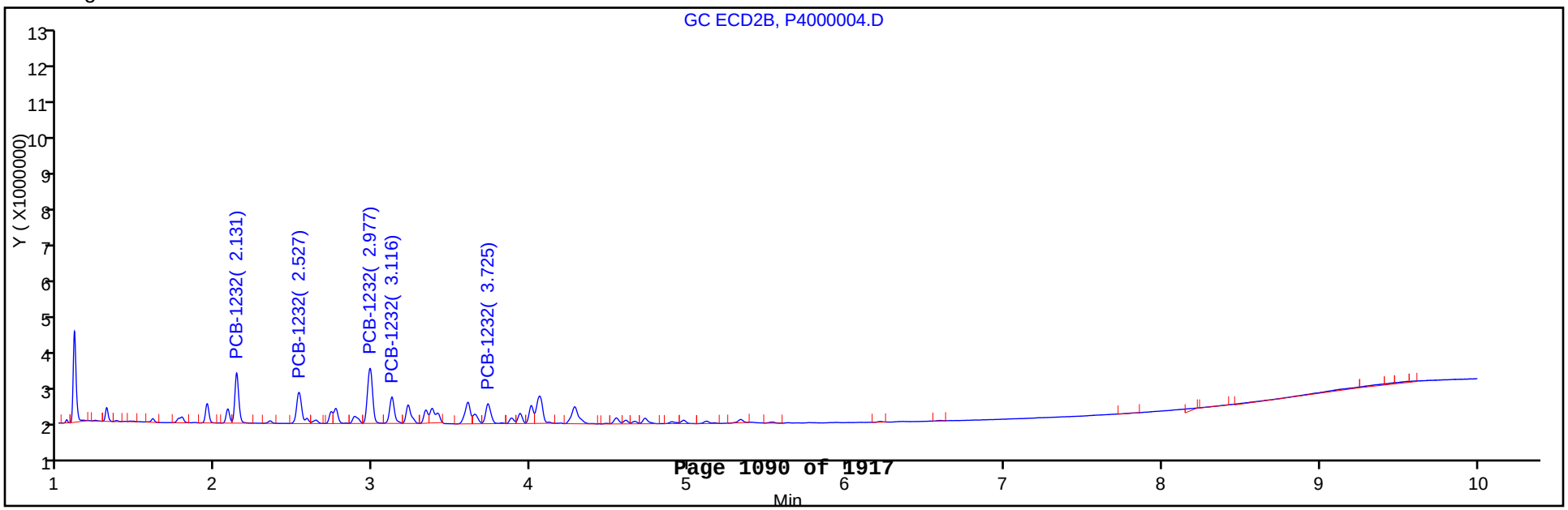
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000004.D

Injection Date:	23-Jan-2013 11:38:20	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	4
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000005.D
Lims ID: STD02 1232 Client ID:
Inject. Date: 23-Jan-2013 11:54:11 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0016796-005
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 5
Lims Batch ID: 72953 Lims Sample ID: 5
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:50:22 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.537	1.536	0.001	5533596	0.2029		100.0	
1	2	1.818	1.818	0.000	3971519	0.2055	46.8- 96.8	71.8	
1	3	2.209	2.211	-0.002	7907793	0.2016	117.9- 167.9	142.9	
1	4	2.330	2.329	0.001	3564479	0.2064	39.4- 89.4	64.4	
1	5	2.708	2.707	0.001	3287177	0.2050	34.4- 84.4	59.4	
			Average of Peak Amounts =			0.2043			
2	6	2.132	2.131	0.001	4633451	0.2069		100.0	
2	7	2.526	2.526	0.000	3611192	0.1985	47.9- 107.9	77.9	
2	8	2.978	2.978	0.000	6877859	0.2044	118.4- 178.4	148.4	
2	9	3.116	3.116	0.000	3099315	0.2094	36.9- 96.9	66.9	
2	10	3.725	3.726	-0.001	2430800	0.1978	22.5- 82.5	52.5	
			Average of Peak Amounts =			0.2034			
						RPD = 0.43			

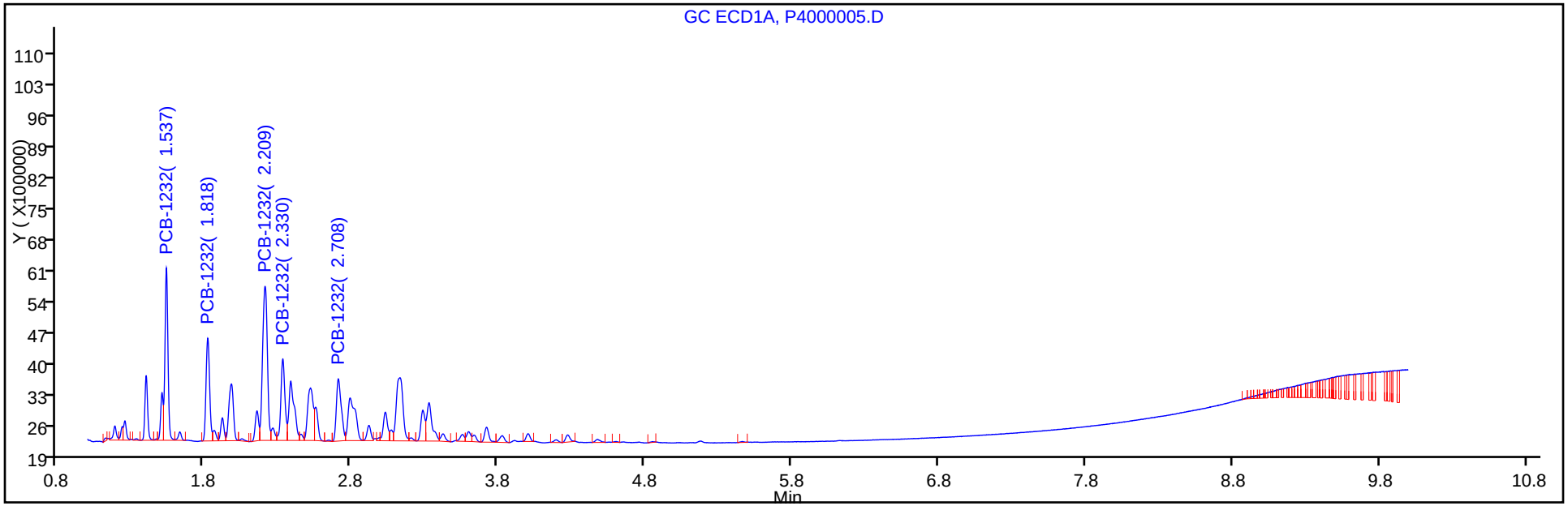
Report Date: 24-Jan-2013 07:50:24 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

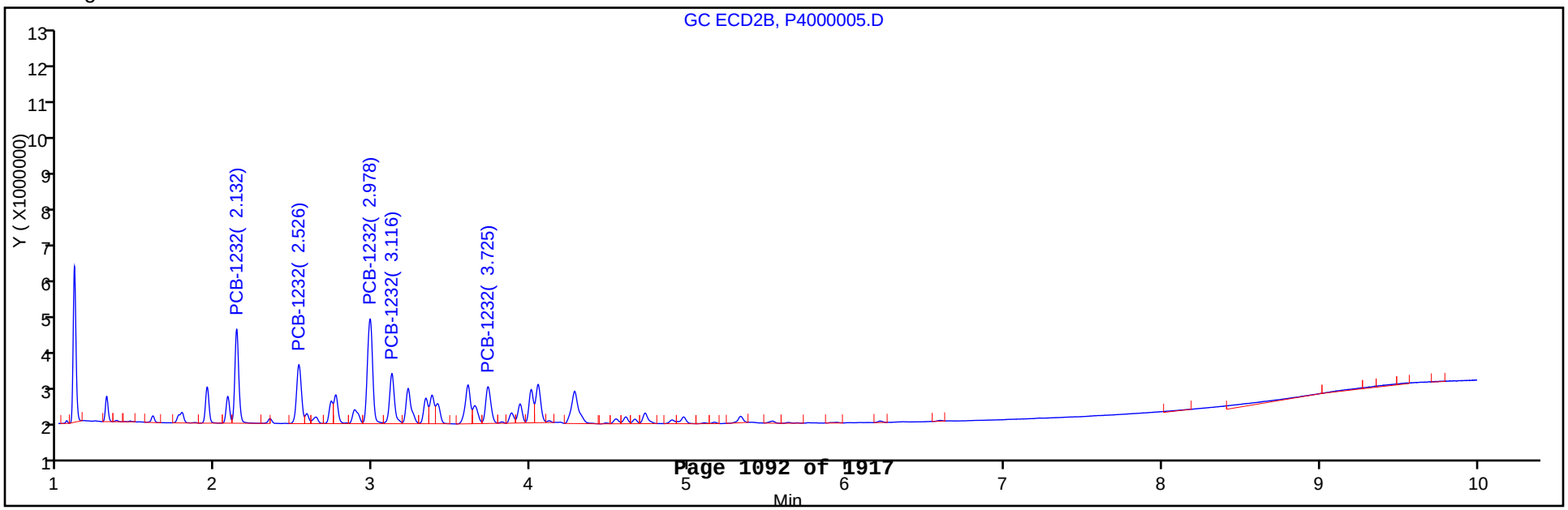
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000005.D

Injection Date:	23-Jan-2013 11:54:11	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	5
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000006.D
Lims ID: STD05 1232 Client ID:
Inject. Date: 23-Jan-2013 12:09:50 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0016796-006
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 6
Lims Batch ID: 72953 Lims Sample ID: 6
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:50:20 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.537	1.536	0.001	12604669	0.4621		100.0	
1	2	1.819	1.818	0.001	8977895	0.4645	46.8- 96.8	71.2	
1	3	2.210	2.211	-0.001	18522806	0.4723	117.9- 167.9	147.0	
1	4	2.330	2.329	0.001	8234483	0.4768	39.4- 89.4	65.3	
1	5	2.708	2.707	0.001	7584456	0.4731	34.4- 84.4	60.2	
			Average of Peak Amounts =			0.4698			
2	6	2.132	2.131	0.001	10361023	0.4626		100.0	
2	7	2.526	2.526	0.000	8030102	0.4415	47.9- 107.9	77.5	
2	8	2.977	2.978	-0.001	15403522	0.4577	118.4- 178.4	148.7	
2	9	3.116	3.116	0.000	6559392	0.4431	36.9- 96.9	63.3	
2	10	3.727	3.726	0.001	5690903	0.4631	22.5- 82.5	54.9	
			Average of Peak Amounts =			0.4536			
						RPD = 3.50			

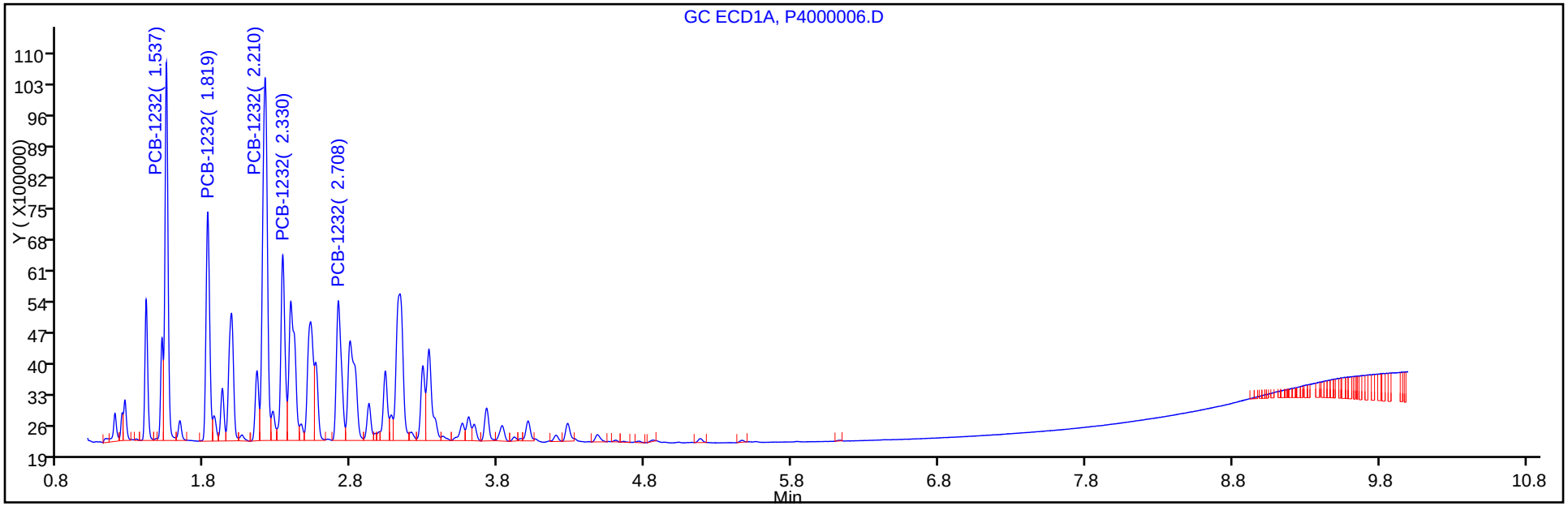
Report Date: 24-Jan-2013 07:50:22 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

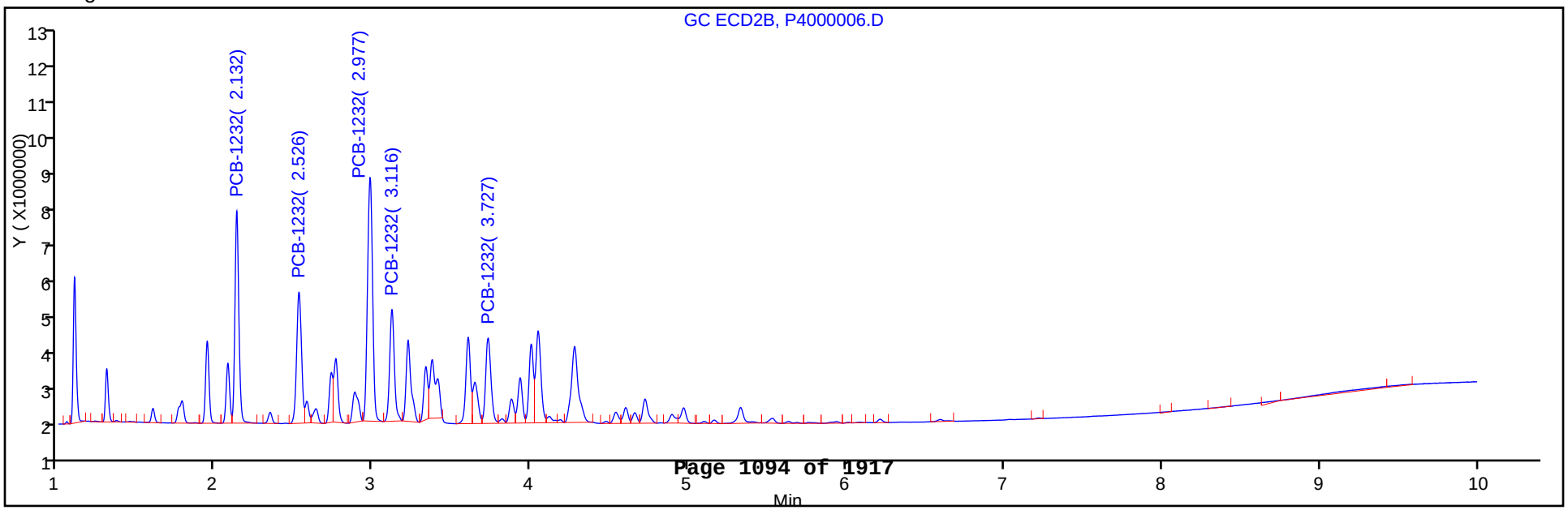
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000006.D

Injection Date:	23-Jan-2013 12:09:50	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	6
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000007.D
Lims ID: STD1 1232 Client ID:
Inject. Date: 23-Jan-2013 12:25:33 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0016796-007
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 7
Lims Batch ID: 72953 Lims Sample ID: 7
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:50:18 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.537	1.536	0.001	24948908	0.9146		100.0	
1	2	1.819	1.818	0.001	17586674	0.9099	46.8- 96.8	70.5	
1	3	2.210	2.211	-0.001	37770006	0.9631	117.9- 167.9	151.4	
1	4	2.329	2.329	0.000	16450603	0.9525	39.4- 89.4	65.9	
1	5	2.709	2.707	0.002	15006816	0.9361	34.4- 84.4	60.2	
			Average of Peak Amounts =			0.9353			
2	6	2.131	2.131	0.000	20664486	0.9227		100.0	
2	7	2.526	2.526	0.000	15833536	0.8705	47.9- 107.9	76.6	
2	8	2.977	2.978	-0.001	32625096	0.9695	118.4- 178.4	157.9	
2	9	3.116	3.116	0.000	14071319	0.9506	36.9- 96.9	68.1	
2	10	3.726	3.726	0.000	11542138	0.9392	22.5- 82.5	55.9	
			Average of Peak Amounts =			0.9305			
						RPD = 0.51			

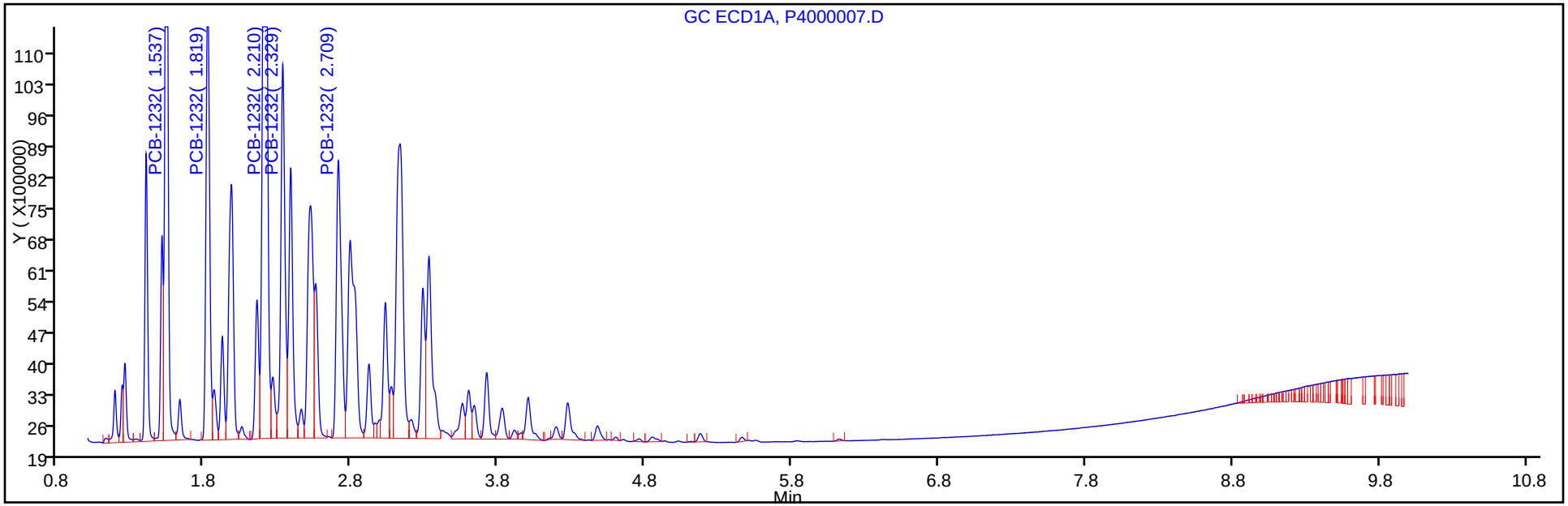
Report Date: 24-Jan-2013 07:50:19 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

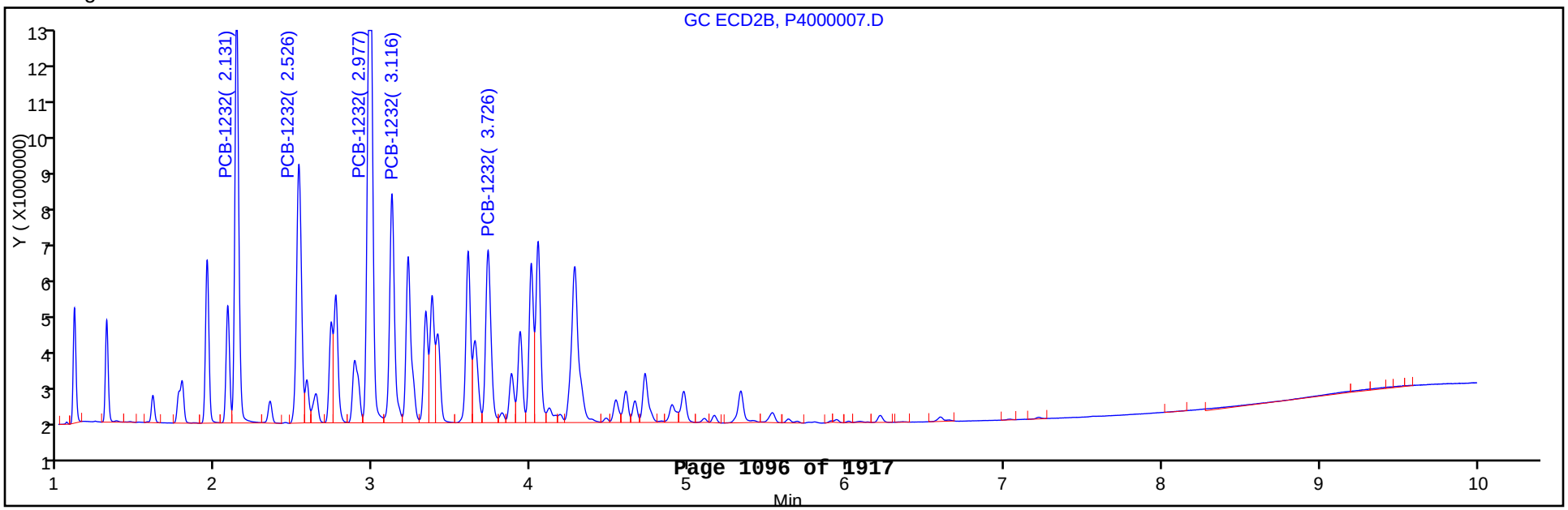
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000007.D

Injection Date:	23-Jan-2013 12:25:33	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	7
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000008.D
Lims ID: STD2 1232 Client ID:
Inject. Date: 23-Jan-2013 12:41:10 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0016796-008
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 8
Lims Batch ID: 72953 Lims Sample ID: 8
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:50:16 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.536	1.536	0.000	46257894	1.70		100.0	
1	2	1.819	1.818	0.001	32807709	1.70	46.8- 96.8	70.9	
1	3	2.210	2.211	-0.001	73243042	1.87	117.9- 167.9	158.3	
1	4	2.330	2.329	0.001	31536607	1.83	39.4- 89.4	68.2	
1	5	2.708	2.707	0.001	28487535	1.78	34.4- 84.4	61.6	
			Average of Peak Amounts =			1.77			
2	6	2.131	2.131	0.000	38506652	1.72		100.0	
2	7	2.526	2.526	0.000	29740785	1.64	47.9- 107.9	77.2	
2	8	2.978	2.978	0.000	63212471	1.88	118.4- 178.4	164.2	
2	9	3.116	3.116	0.000	26844485	1.81	36.9- 96.9	69.7	
2	10	3.725	3.726	-0.001	22045833	1.79	22.5- 82.5	57.3	
			Average of Peak Amounts =			1.77			
						RPD = 0.26			

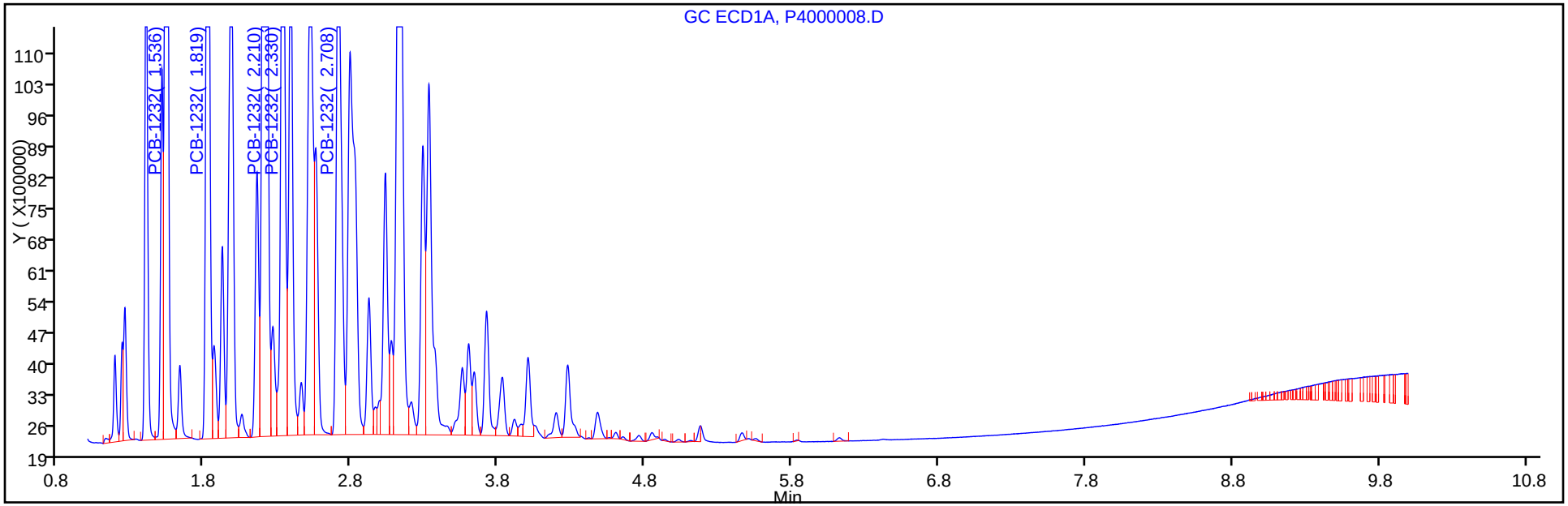
Report Date: 24-Jan-2013 07:50:17 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

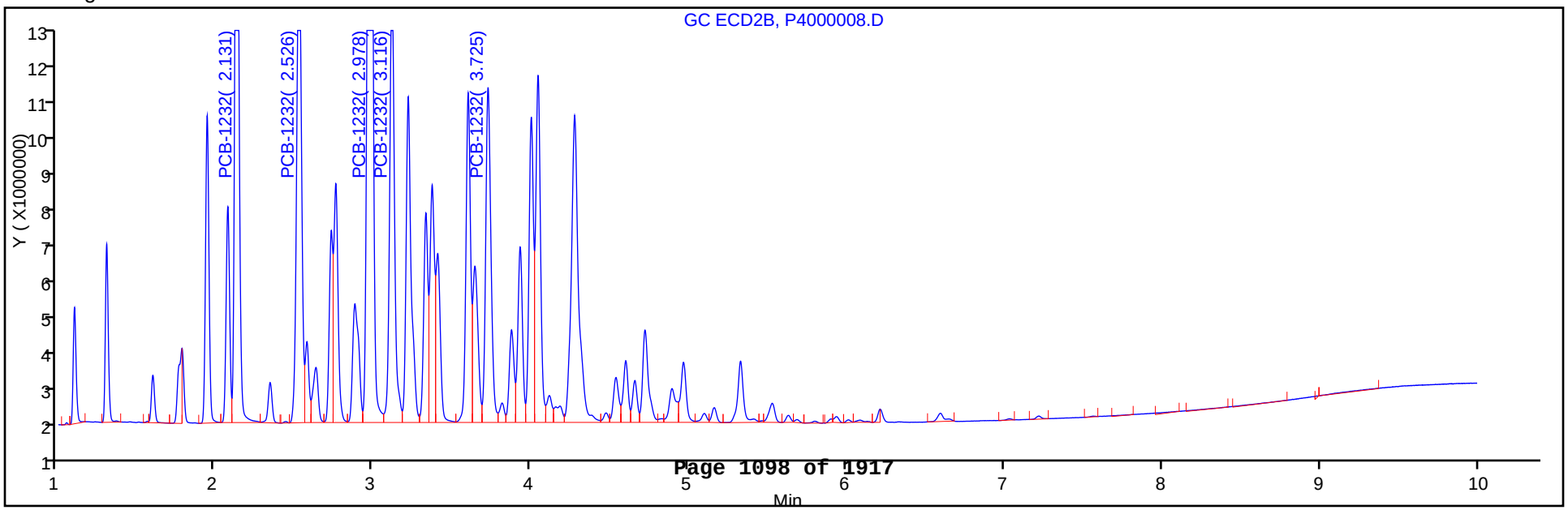
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000008.D

Injection Date:	23-Jan-2013 12:41:10	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	8
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 12:56 Calibration End Date: 01/23/2013 14:15 Calibration ID: 13447

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/9	P4000009.D
Level 2	STD01 240-72953/10	P4000010.D
Level 3	STD02 240-72953/11	P4000011.D
Level 4	STD05 240-72953/12	P4000012.D
Level 5	STD1 240-72953/13	P4000013.D
Level 6	STD2 240-72953/14	P4000014.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1242 Peak 1	1.537	1.537	1.538	1.537	1.537	1.537					1.437 - 1.637	1.537
PCB-1242 Peak 2	1.818	1.818	1.818	1.819	1.819	1.818					1.718 - 1.918	1.818
PCB-1242 Peak 3	2.209	2.210	2.210	2.210	2.210	2.210					2.109 - 2.309	2.210
PCB-1242 Peak 4	2.330	2.330	2.330	2.330	2.330	2.330					2.230 - 2.430	2.330
PCB-1242 Peak 5	2.708	2.708	2.708	2.709	2.709	2.709					2.608 - 2.808	2.709

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton | Job No.: 240-21987-1 | Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 | GC Column: CLP-1 | ID: 0.53(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 12:56 | Calibration End Date: 01/23/2013 14:15 | Calibration ID: 13447

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/9	P4000009.D
Level 2	STD01 240-72953/10	P4000010.D
Level 3	STD02 240-72953/11	P4000011.D
Level 4	STD05 240-72953/12	P4000012.D
Level 5	STD1 240-72953/13	P4000013.D
Level 6	STD2 240-72953/14	P4000014.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 6	LVL 3	LVL 4		B	M1	M2								
PCB-1242 Peak 1	24114020 17665942	21565690 16863549	20800510	18385568	Ave		19899213.2				14.0		20.0			
PCB-1242 Peak 2	44212800 33555792	40882910 31955396	39024650	34931252	Ave		37427133.3				13.0		20.0			
PCB-1242 Peak 3	83343140 71123082	77763490 70155579	75649820	70919246	Ave		74825726.1				6.9		20.0			
PCB-1242 Peak 4	38230800 30680366	35493740 30304765	34698505	31522882	Ave		33488509.7				9.4		20.0			
PCB-1242 Peak 5	38192460 30752600	35933140 30298035	35022800	31202694	Ave		33566954.8				9.7		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 12:56 Calibration End Date: 01/23/2013 14:15 Calibration ID: 13447

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/9	P4000009.D
Level 2	STD01 240-72953/10	P4000010.D
Level 3	STD02 240-72953/11	P4000011.D
Level 4	STD05 240-72953/12	P4000012.D
Level 5	STD1 240-72953/13	P4000013.D
Level 6	STD2 240-72953/14	P4000014.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	Ave	1205701 33727098	2156569	4160102	9192784	17665942	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 2	Ave	2210640 63910792	4088291	7804930	17465626	33555792	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 3	Ave	4167157 140311157	7776349	15129964	35459623	71123082	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 4	Ave	1911540 60609530	3549374	6939701	15761441	30680366	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 5	Ave	1909623 60596069	3593314	7004560	15601347	30752600	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000009.D
Lims ID: STD005 1242 Client ID:
Inject. Date: 23-Jan-2013 12:56:55 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0016796-009
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 9
Lims Batch ID: 72953 Lims Sample ID: 9
Sublist: chrom-PCB4*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:50:13 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.537	1.537	0.000	1205701	0.0606		100.0	
1	2	1.818	1.818	0.000	2210640	0.0591	162.6- 212.6	183.3	
1	3	2.209	2.209	0.000	4167157	0.0557	338.7- 388.7	345.6	
1	4	2.330	2.330	0.000	1911540	0.0571	141.8- 191.8	158.5	
1	5	2.708	2.708	0.000	1909623	0.0569	143.4- 193.4	158.4	
			Average of Peak Amounts =			0.0579			
2	6	2.132	2.132	0.000	954627	0.0586		100.0	
2	7	2.527	2.527	0.000	1881322	0.0582	169.0- 229.0	197.1	
2	8	2.978	2.978	0.000	3514493	0.0545	354.8- 414.8	368.2	
2	9	3.115	3.115	0.000	1634089	0.0571	141.8- 201.8	171.2	
2	10	3.596	3.596	0.000	1874695	0.0473	117.7- 177.7	196.4	
			Average of Peak Amounts =			0.0551			
						RPD = 4.81			

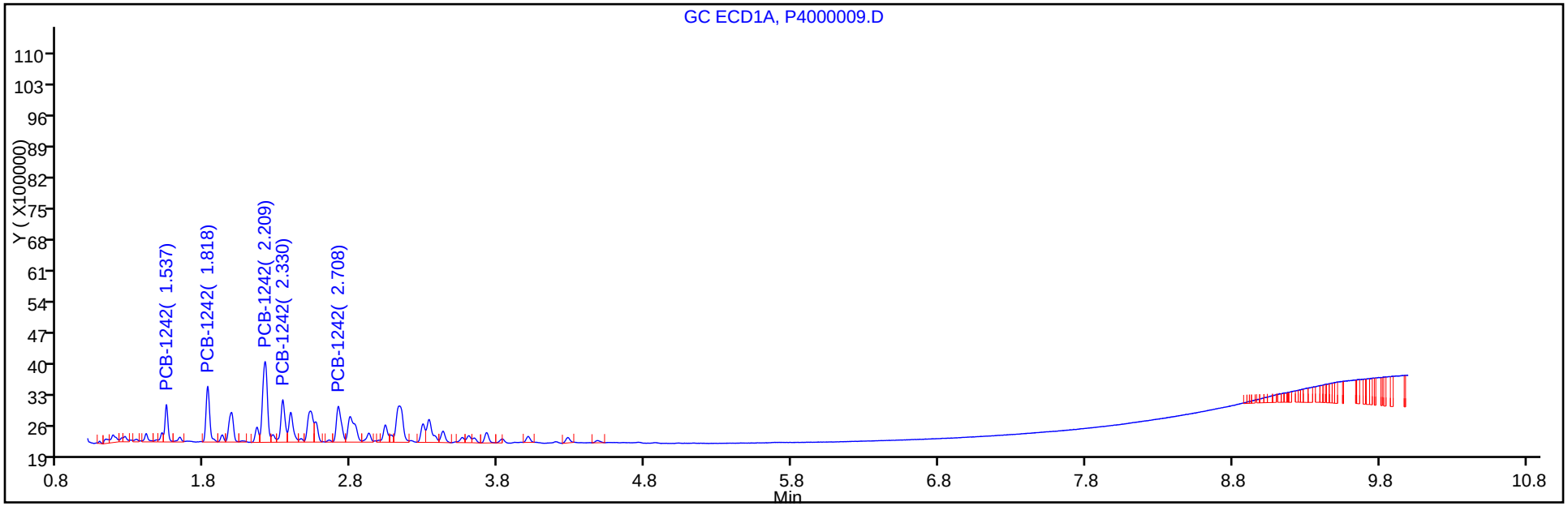
Report Date: 24-Jan-2013 07:50:14 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

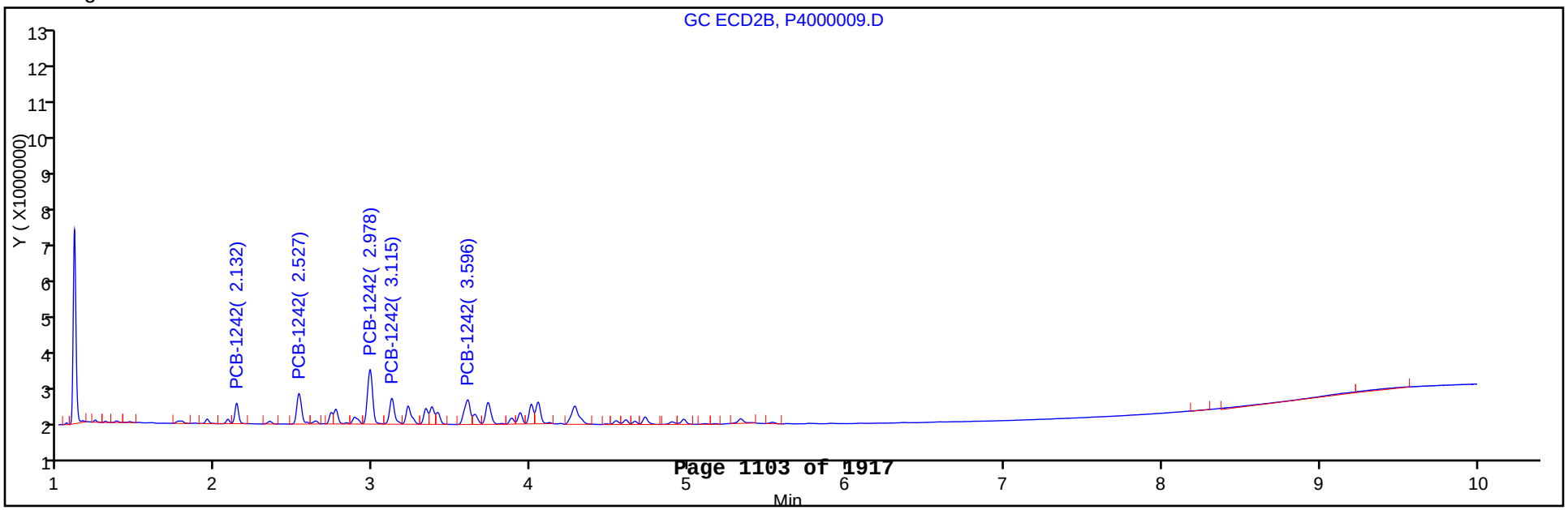
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000009.D

Injection Date:	23-Jan-2013 12:56:55	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	9
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000010.D
Lims ID: STD01 1242 Client ID:
Inject. Date: 23-Jan-2013 13:12:36 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0016796-010
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 10
Lims Batch ID: 72953 Lims Sample ID: 10
Sublist: chrom-PCB4*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:50:11 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.537	1.537	0.000	2156569	0.1084		100.0	
1	2	1.818	1.818	0.000	4088291	0.1092	162.6- 212.6	189.6	
1	3	2.210	2.209	0.001	7776349	0.1039	338.7- 388.7	360.6	
1	4	2.330	2.330	0.000	3549374	0.1060	141.8- 191.8	164.6	
1	5	2.708	2.708	0.000	3593314	0.1070	143.4- 193.4	166.6	
			Average of Peak Amounts =			0.1069			
2	6	2.131	2.132	-0.001	1795456	0.1103		100.0	
2	7	2.527	2.527	0.000	3566626	0.1103	169.0- 229.0	198.6	
2	8	2.977	2.978	-0.001	6816306	0.1057	354.8- 414.8	379.6	
2	9	3.116	3.115	0.001	3184239	0.1112	141.8- 201.8	177.3	
2	10	3.599	3.596	0.003	2966952	0.1033	117.7- 177.7	165.2	
			Average of Peak Amounts =			0.1082			
						RPD = 1.16			

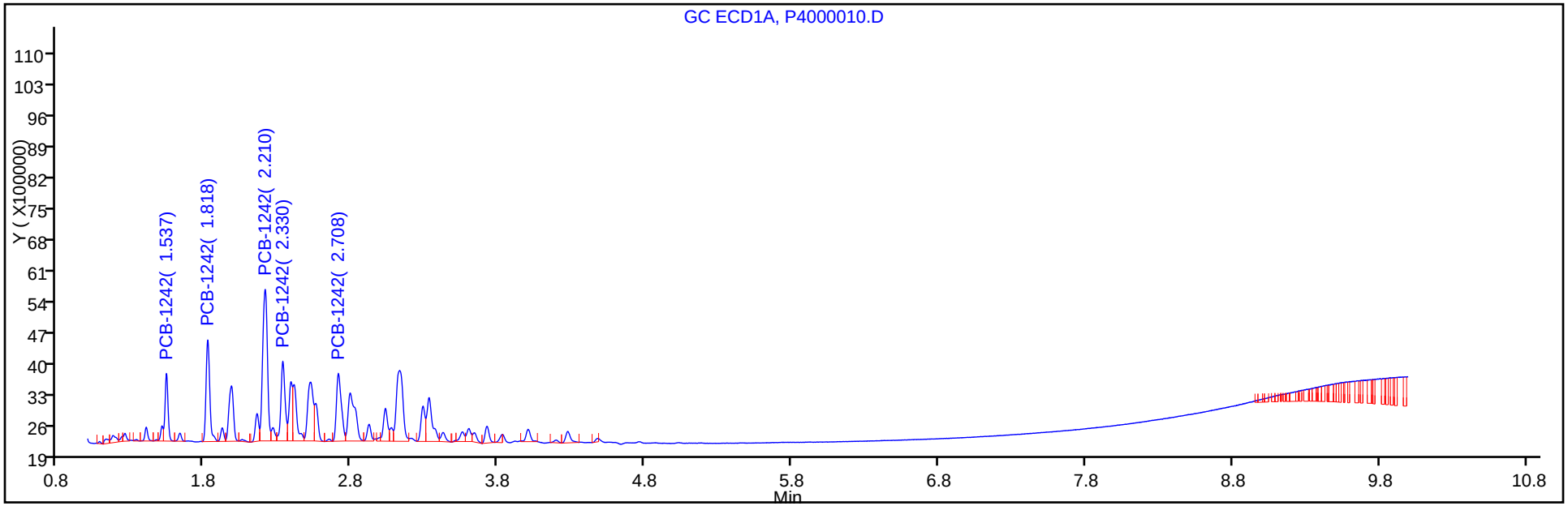
Report Date: 24-Jan-2013 07:50:12 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

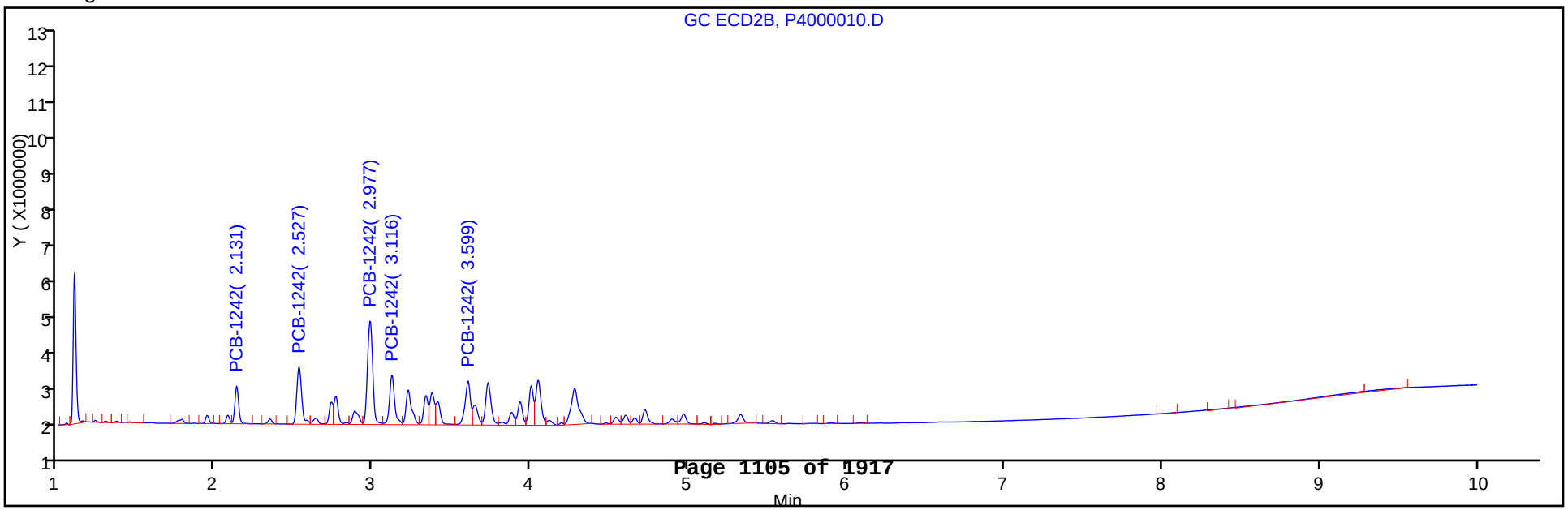
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000010.D

Injection Date:	23-Jan-2013 13:12:36	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	10
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000011.D
Lims ID: STD02 1242 Client ID:
Inject. Date: 23-Jan-2013 13:28:18 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0016796-011
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 11
Lims Batch ID: 72953 Lims Sample ID: 11
Sublist: chrom-PCB4*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:50:08 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.538	1.537	0.001	4160102	0.2091		100.0	
1	2	1.818	1.818	0.000	7804930	0.2085	162.6- 212.6	187.6	
1	3	2.210	2.209	0.001	15129964	0.2022	338.7- 388.7	363.7	
1	4	2.330	2.330	0.000	6939701	0.2072	141.8- 191.8	166.8	
1	5	2.708	2.708	0.000	7004560	0.2087	143.4- 193.4	168.4	
			Average of Peak Amounts =			0.2071			
2	6	2.132	2.132	0.000	3376631	0.2074		100.0	
2	7	2.527	2.527	0.000	6718548	0.2078	169.0- 229.0	199.0	
2	8	2.978	2.978	0.000	12992453	0.2014	354.8- 414.8	384.8	
2	9	3.116	3.115	0.001	5802502	0.2027	141.8- 201.8	171.8	
2	10	3.599	3.596	0.003	4987524	0.2068	117.7- 177.7	147.7	
			Average of Peak Amounts =			0.2052			
						RPD = 0.93			

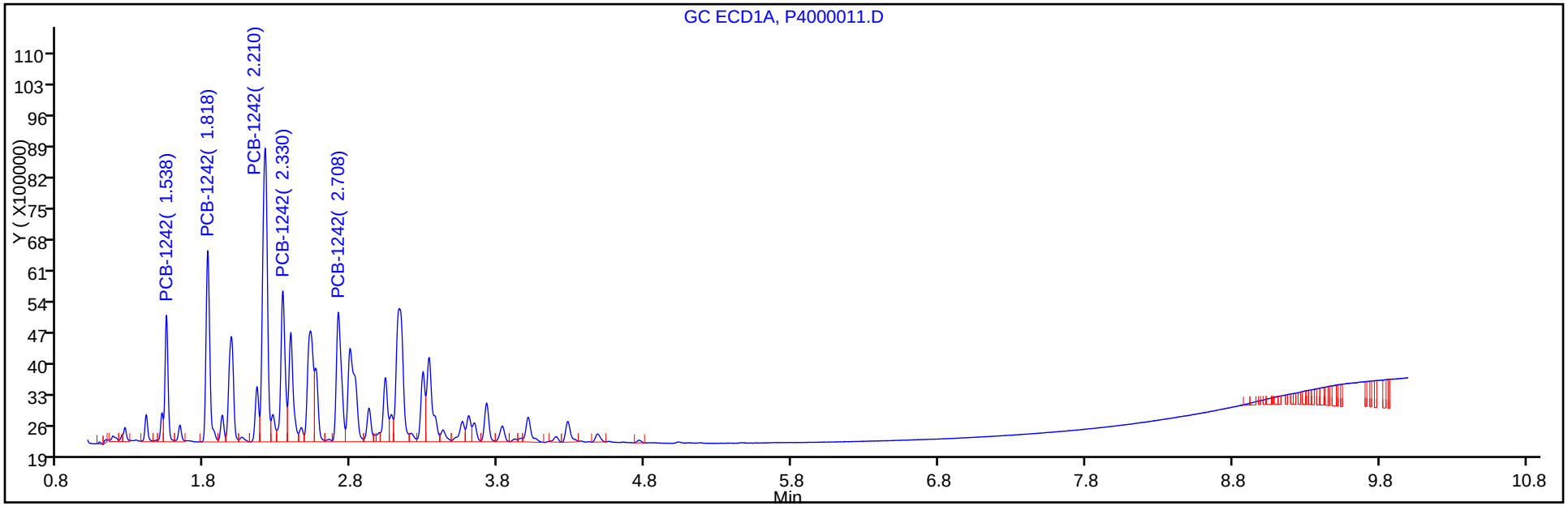
Report Date: 24-Jan-2013 07:50:09 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

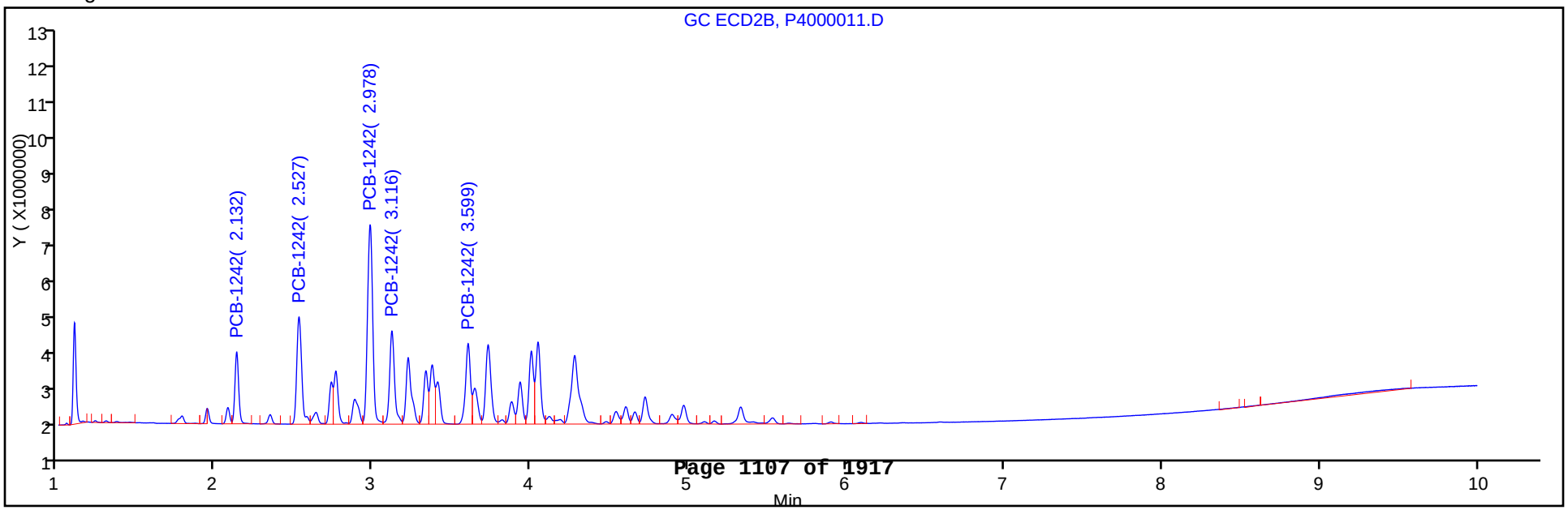
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000011.D

Injection Date:	23-Jan-2013 13:28:18	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	11
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000012.D		
Lims ID:	STD05 1242	Client ID:	
Inject. Date:	23-Jan-2013 13:43:57	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	240-0016796-012		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 ul	ALS Bottle#:	12
Lims Batch ID:	72953	Lims Sample ID:	12
Sublist:	chrom-PCB4*sub2		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m		
Last Update:	24-Jan-2013 07:50:06	Calib Date:	23-Jan-2013 22:06:47
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK022		

First Level Reviewer: hassl Date: 24-Jan-2013 07:36:53

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									M
1	100	1.537	1.537	0.000	9192784	0.4620		100.0	
1	2	1.819	1.818	0.001	17465626	0.4667	162.6- 212.6	190.0	
1	3	2.210	2.209	0.001	35459623	0.4739	338.7- 388.7	385.7	
1	4	2.330	2.330	0.000	15761441	0.4707	141.8- 191.8	171.5	
1	5	2.709	2.708	0.001	15601347	0.4648	143.4- 193.4	169.7	M
			Average of Peak Amounts =			0.4676			
2	6	2.132	2.132	0.000	7498667	0.4607		100.0	
2	7	2.527	2.527	0.000	15086321	0.4665	169.0- 229.0	201.2	
2	8	2.978	2.978	0.000	30707285	0.4761	354.8- 414.8	409.5	
2	9	3.116	3.115	0.001	13315356	0.4652	141.8- 201.8	177.6	
2	10	3.599	3.596	0.003	10595395	0.4941	117.7- 177.7	141.3	
			Average of Peak Amounts =			0.4725			
						RPD = 1.04			

QC Flag Legend

Review Flags
M - Manually Integrated

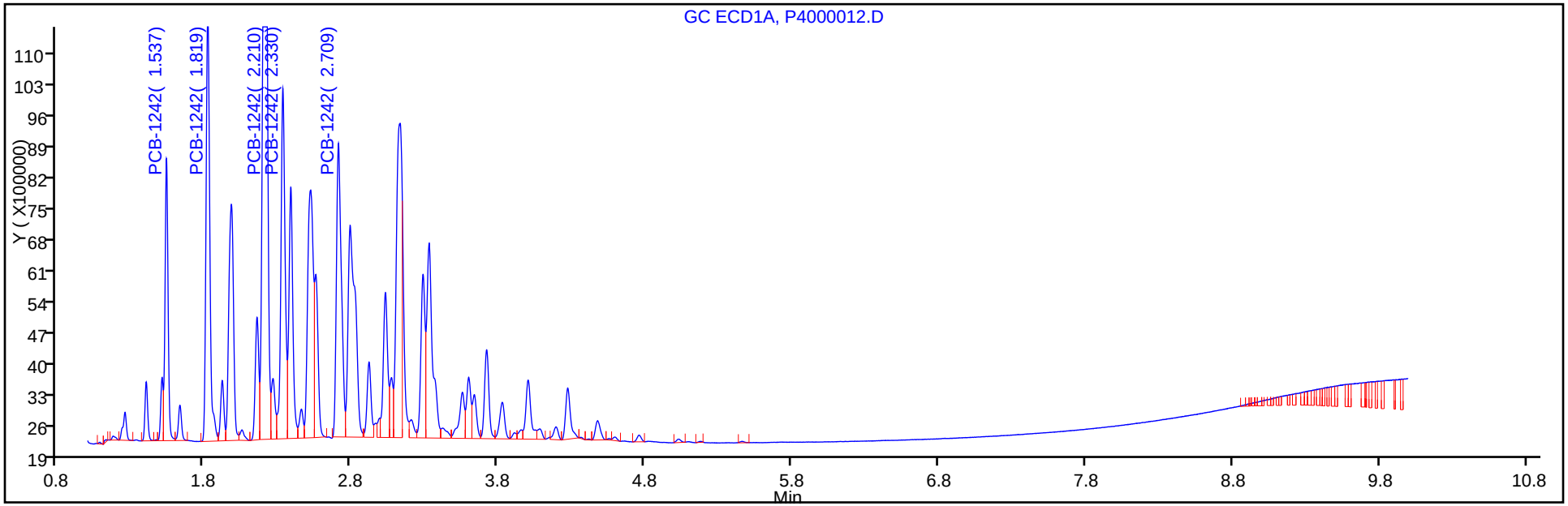
Report Date: 24-Jan-2013 07:50:07 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

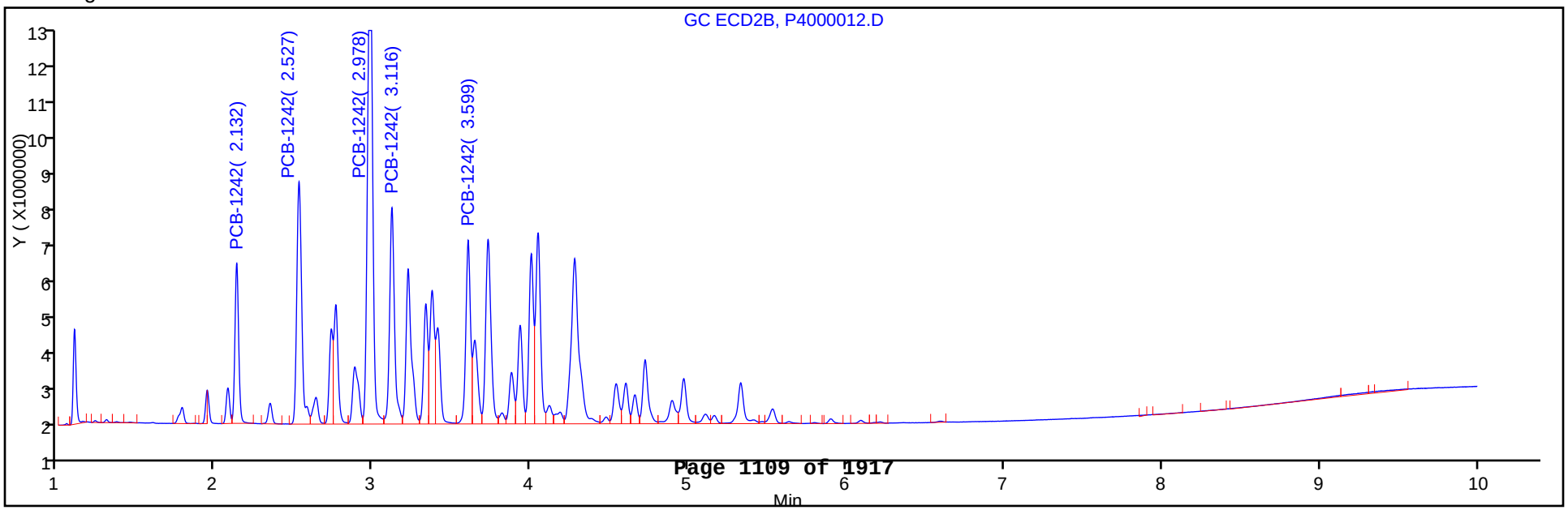
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000012.D

Injection Date:	23-Jan-2013 13:43:57	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	12
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



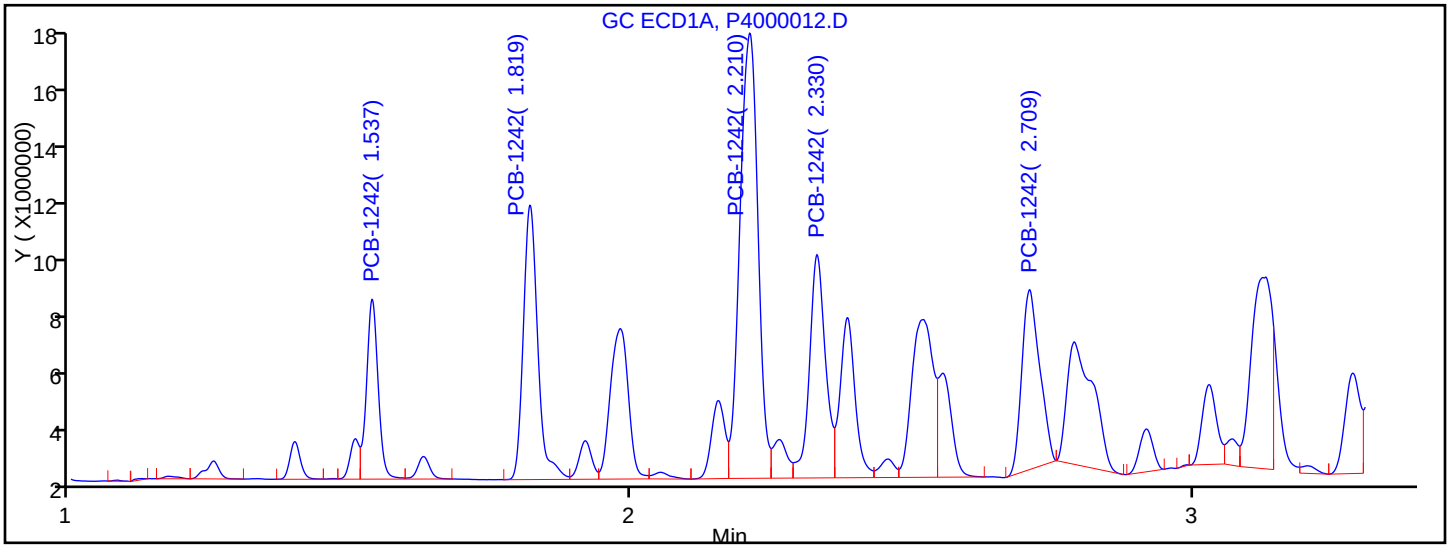
Report Date: 24-Jan-2013 07:50:07 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000012.D

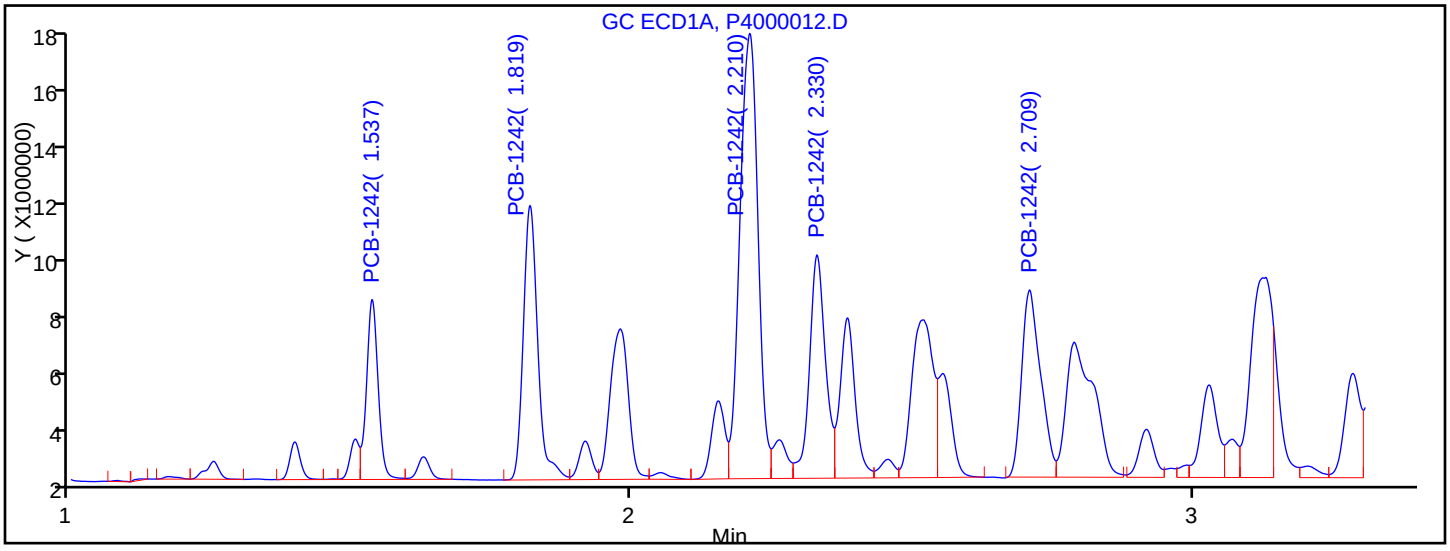
Injection Date:	23-Jan-2013 13:43:57	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	12
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

5 PCB-1242, Detector: 1, GC ECD1A



Processing Integration Results

RT = 1.537	Response = 9192784	
RT = 1.819	Response = 17465626	
RT = 2.210	Response = 35459623	
RT = 2.330	Response = 15761441	
RT = 2.709	Response = 14133479	M



Manual Integration Results

RT = 1.537	Response = 9192784	
RT = 1.819	Response = 17465626	
RT = 2.210	Response = 35459623	
RT = 2.330	Response = 15761441	
RT = 2.709	Response = 15601347	M

Reviewer: hassl, 24-Jan-2013 07:36:53

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000013.D
Lims ID: STD1 1242 Client ID:
Inject. Date: 23-Jan-2013 13:59:45 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0016796-013
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 13
Lims Batch ID: 72953 Lims Sample ID: 13
Sublist: chrom-PCB4*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:50:03 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.537	1.537	0.000	17665942	0.8878		100.0	
1	2	1.819	1.818	0.001	33555792	0.8966	162.6- 212.6	189.9	
1	3	2.210	2.209	0.001	71123082	0.9505	338.7- 388.7	402.6	
1	4	2.330	2.330	0.000	30680366	0.9161	141.8- 191.8	173.7	
1	5	2.709	2.708	0.001	30752600	0.9162	143.4- 193.4	174.1	
			Average of Peak Amounts =			0.9134			
2	6	2.132	2.132	0.000	14669069	0.9012		100.0	
2	7	2.526	2.527	-0.001	29128136	0.9007	169.0- 229.0	198.6	
2	8	2.977	2.978	-0.001	61418393	0.9522	354.8- 414.8	418.7	
2	9	3.116	3.115	0.001	26069607	0.9108	141.8- 201.8	177.7	
2	10	3.599	3.596	0.003	20433199	1.00	117.7- 177.7	139.3	
			Average of Peak Amounts =			0.9326			
						RPD = 2.07			

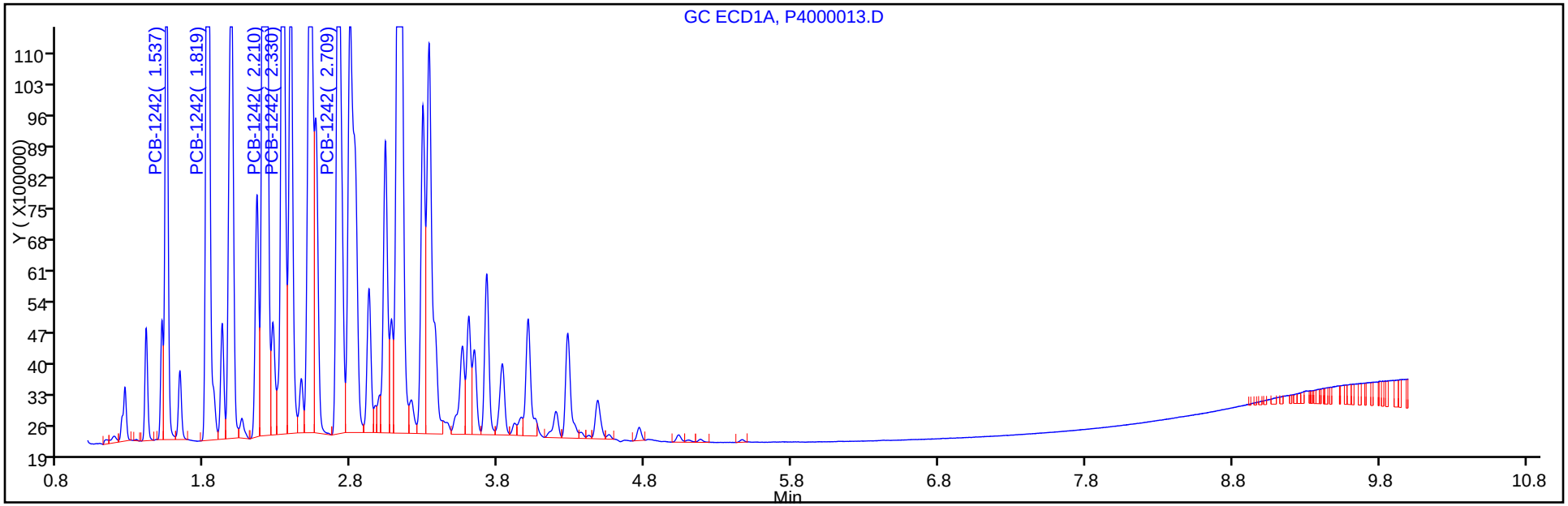
Report Date: 24-Jan-2013 07:50:04 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

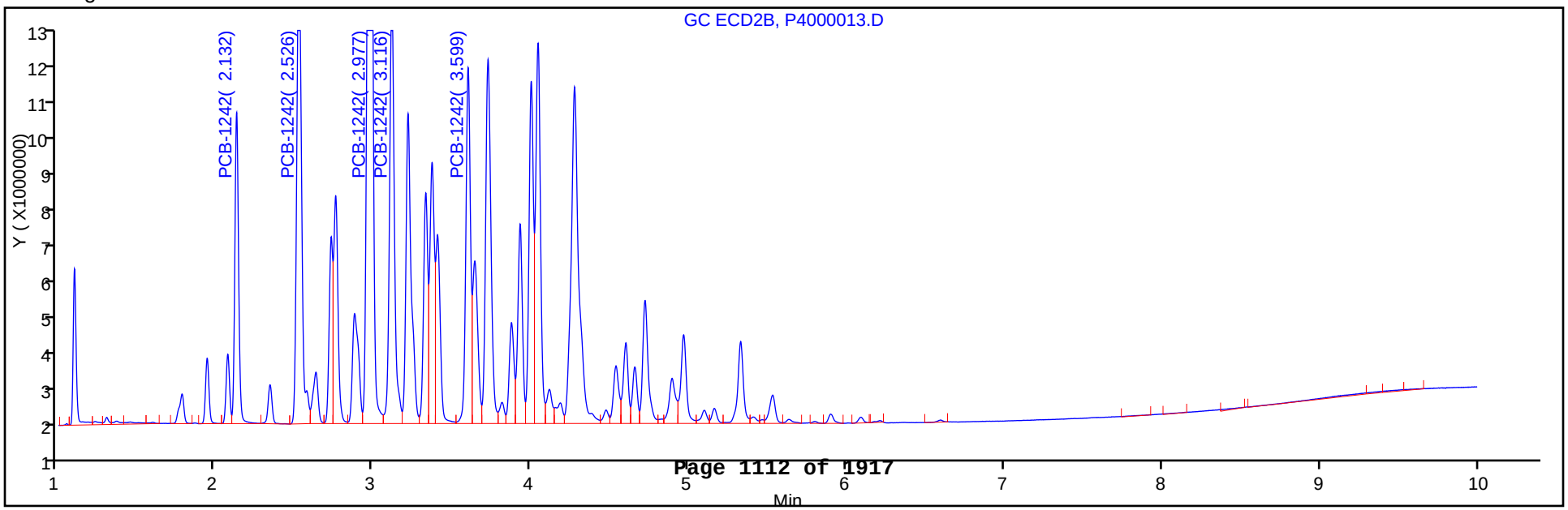
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000013.D

Injection Date:	23-Jan-2013 13:59:45	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	13
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000014.D
Lims ID: STD2 1242 Client ID:
Inject. Date: 23-Jan-2013 14:15:27 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0016796-014
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 14
Lims Batch ID: 72953 Lims Sample ID: 14
Sublist: chrom-PCB4*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:50:01 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.537	1.537	0.000	33727098	1.69		100.0	
1	2	1.818	1.818	0.000	63910792	1.71	162.6- 212.6	189.5	
1	3	2.210	2.209	0.001	140311157	1.88	338.7- 388.7	416.0	
1	4	2.330	2.330	0.000	60609530	1.81	141.8- 191.8	179.7	
1	5	2.709	2.708	0.001	60596069	1.81	143.4- 193.4	179.7	
			Average of Peak Amounts =			1.78			
2	6	2.131	2.132	-0.001	28141708	1.73		100.0	
2	7	2.527	2.527	0.000	55682295	1.72	169.0- 229.0	197.9	
2	8	2.978	2.978	0.000	121507147	1.88	354.8- 414.8	431.8	
2	9	3.116	3.115	0.001	51007855	1.78	141.8- 201.8	181.3	
2	10	3.600	3.596	0.004	40004370	2.00	117.7- 177.7	142.2	
			Average of Peak Amounts =			1.82			
						RPD = 2.49			

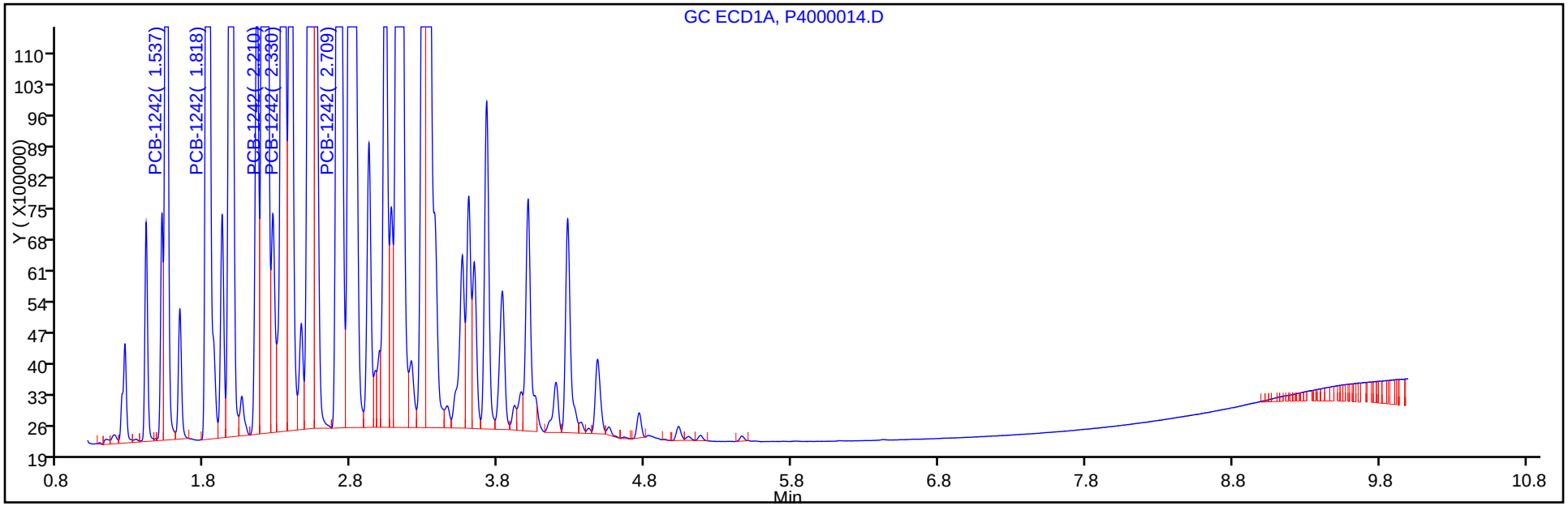
Report Date: 24-Jan-2013 07:50:02 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

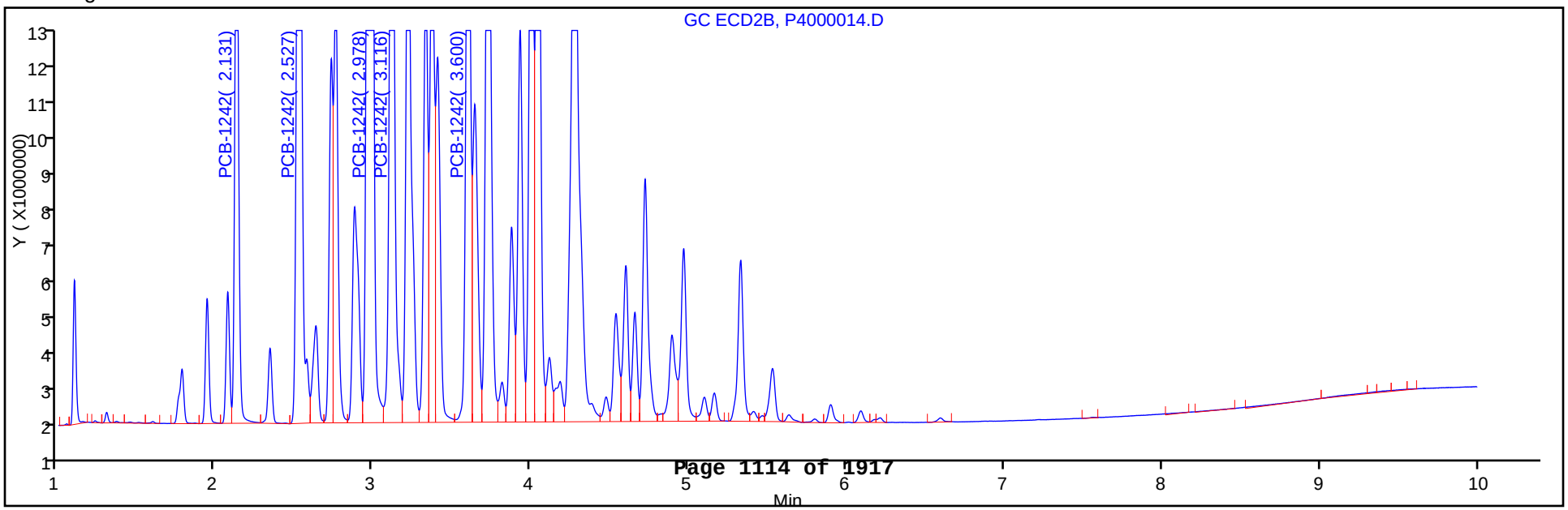
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000014.D

Injection Date:	23-Jan-2013 14:15:27	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	14
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 12:56 Calibration End Date: 01/23/2013 14:15 Calibration ID: 13448

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/9	P4000009.D
Level 2	STD01 240-72953/10	P4000010.D
Level 3	STD02 240-72953/11	P4000011.D
Level 4	STD05 240-72953/12	P4000012.D
Level 5	STD1 240-72953/13	P4000013.D
Level 6	STD2 240-72953/14	P4000014.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1242 Peak 1	2.132	2.131	2.132	2.132	2.132	2.131					2.032 - 2.232	2.132
PCB-1242 Peak 2	2.527	2.527	2.527	2.527	2.526	2.527					2.427 - 2.627	2.527
PCB-1242 Peak 3	2.978	2.977	2.978	2.978	2.977	2.978					2.878 - 3.078	2.978
PCB-1242 Peak 4	3.115	3.116	3.116	3.116	3.116	3.116					3.015 - 3.215	3.116
PCB-1242 Peak 5	3.596	3.599	3.599	3.599	3.599	3.600					3.496 - 3.696	3.599

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton | Job No.: 240-21987-1 | Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 | GC Column: CLP-2 | ID: 0.53(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 12:56 | Calibration End Date: 01/23/2013 14:15 | Calibration ID: 13448

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/9	P4000009.D
Level 2	STD01 240-72953/10	P4000010.D
Level 3	STD02 240-72953/11	P4000011.D
Level 4	STD05 240-72953/12	P4000012.D
Level 5	STD1 240-72953/13	P4000013.D
Level 6	STD2 240-72953/14	P4000014.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 6	LVL 3	LVL 4		B	M1	M2								
PCB-1242 Peak 1	19092540 14669069	17954560 14070854	16883155	14997334	Ave		16277918.7				12.0		20.0			
PCB-1242 Peak 2	37626440 29128136	35666260 27841148	33592740	30172642	Ave		32337894.3				12.0		20.0			
PCB-1242 Peak 3	70289860 61418393	68163060 60753574	64962265	61414570	Ave		64500286.9				6.2		20.0			
PCB-1242 Peak 4	32681780 26069607	31842390 25503928	29012510	26630712	Ave		28623487.8				11.0		20.0			
PCB-1242 Peak 5	37493900 20433199	29669520 20002185	24937620	21190790	Lin1	950563.278	19521754.6							1.0000		0.9900

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 12:56 Calibration End Date: 01/23/2013 14:15 Calibration ID: 13448

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/9	P4000009.D
Level 2	STD01 240-72953/10	P4000010.D
Level 3	STD02 240-72953/11	P4000011.D
Level 4	STD05 240-72953/12	P4000012.D
Level 5	STD1 240-72953/13	P4000013.D
Level 6	STD2 240-72953/14	P4000014.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	Ave	954627 28141708	1795456	3376631	7498667	14669069	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 2	Ave	1881322 55682295	3566626	6718548	15086321	29128136	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 3	Ave	3514493 121507147	6816306	12992453	30707285	61418393	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 4	Ave	1634089 51007855	3184239	5802502	13315356	26069607	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 5	Lin1	1874695 40004370	2966952	4987524	10595395	20433199	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000009.D
Lims ID: STD005 1242 Client ID:
Inject. Date: 23-Jan-2013 12:56:55 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0016796-009
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 9
Lims Batch ID: 72953 Lims Sample ID: 9
Sublist: chrom-PCB4*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:50:13 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.537	1.537	0.000	1205701	0.0606		100.0	
1	2	1.818	1.818	0.000	2210640	0.0591	162.6- 212.6	183.3	
1	3	2.209	2.209	0.000	4167157	0.0557	338.7- 388.7	345.6	
1	4	2.330	2.330	0.000	1911540	0.0571	141.8- 191.8	158.5	
1	5	2.708	2.708	0.000	1909623	0.0569	143.4- 193.4	158.4	
			Average of Peak Amounts =			0.0579			
2	6	2.132	2.132	0.000	954627	0.0586		100.0	
2	7	2.527	2.527	0.000	1881322	0.0582	169.0- 229.0	197.1	
2	8	2.978	2.978	0.000	3514493	0.0545	354.8- 414.8	368.2	
2	9	3.115	3.115	0.000	1634089	0.0571	141.8- 201.8	171.2	
2	10	3.596	3.596	0.000	1874695	0.0473	117.7- 177.7	196.4	
			Average of Peak Amounts =			0.0551			
						RPD = 4.81			

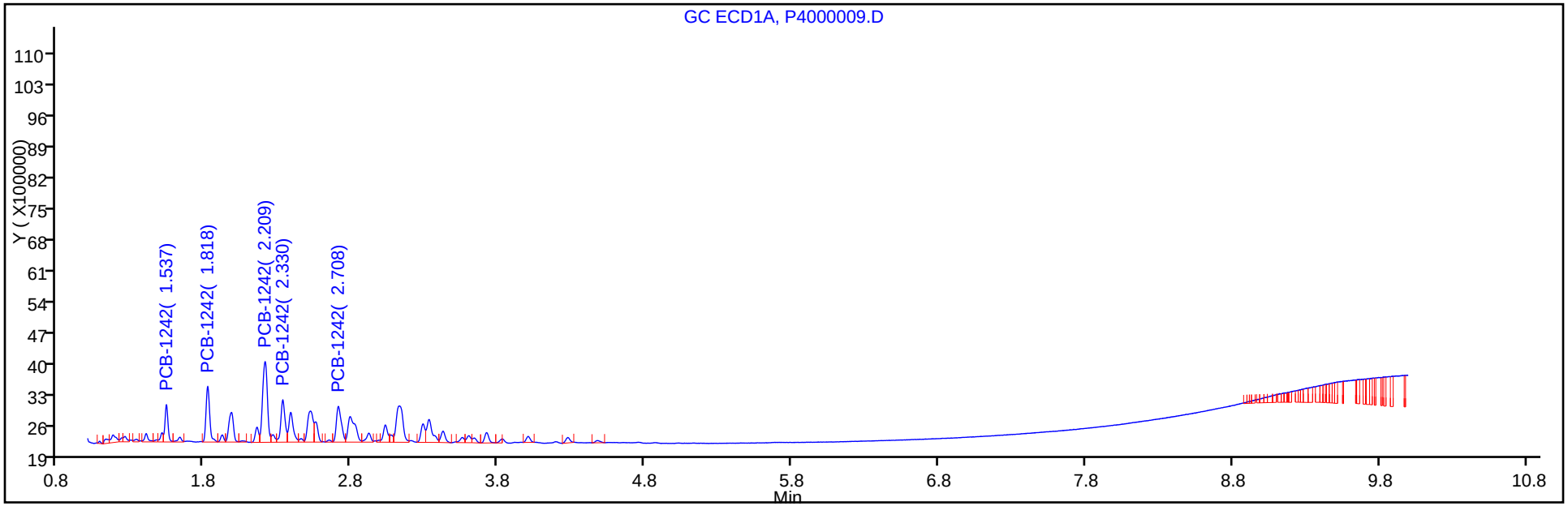
Report Date: 24-Jan-2013 07:50:14 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

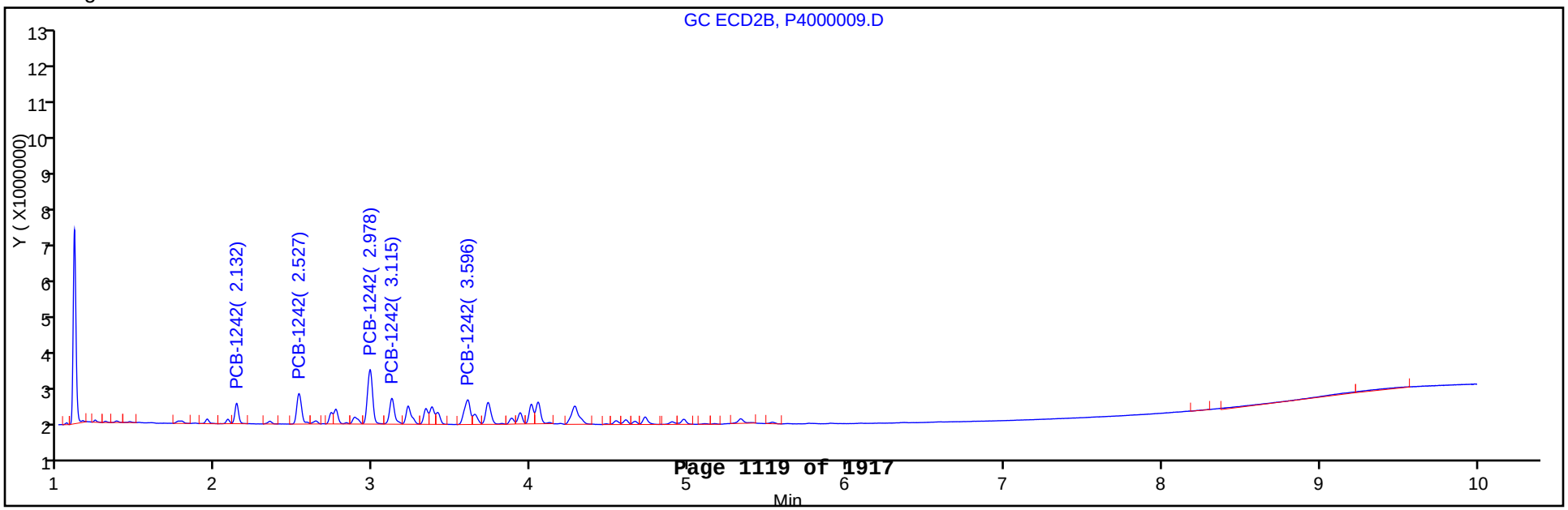
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000009.D

Injection Date:	23-Jan-2013 12:56:55	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	9
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000010.D
Lims ID: STD01 1242 Client ID:
Inject. Date: 23-Jan-2013 13:12:36 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0016796-010
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 10
Lims Batch ID: 72953 Lims Sample ID: 10
Sublist: chrom-PCB4*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:50:11 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.537	1.537	0.000	2156569	0.1084		100.0	
1	2	1.818	1.818	0.000	4088291	0.1092	162.6- 212.6	189.6	
1	3	2.210	2.209	0.001	7776349	0.1039	338.7- 388.7	360.6	
1	4	2.330	2.330	0.000	3549374	0.1060	141.8- 191.8	164.6	
1	5	2.708	2.708	0.000	3593314	0.1070	143.4- 193.4	166.6	
			Average of Peak Amounts =			0.1069			
2	6	2.131	2.132	-0.001	1795456	0.1103		100.0	
2	7	2.527	2.527	0.000	3566626	0.1103	169.0- 229.0	198.6	
2	8	2.977	2.978	-0.001	6816306	0.1057	354.8- 414.8	379.6	
2	9	3.116	3.115	0.001	3184239	0.1112	141.8- 201.8	177.3	
2	10	3.599	3.596	0.003	2966952	0.1033	117.7- 177.7	165.2	
			Average of Peak Amounts =			0.1082			
						RPD = 1.16			

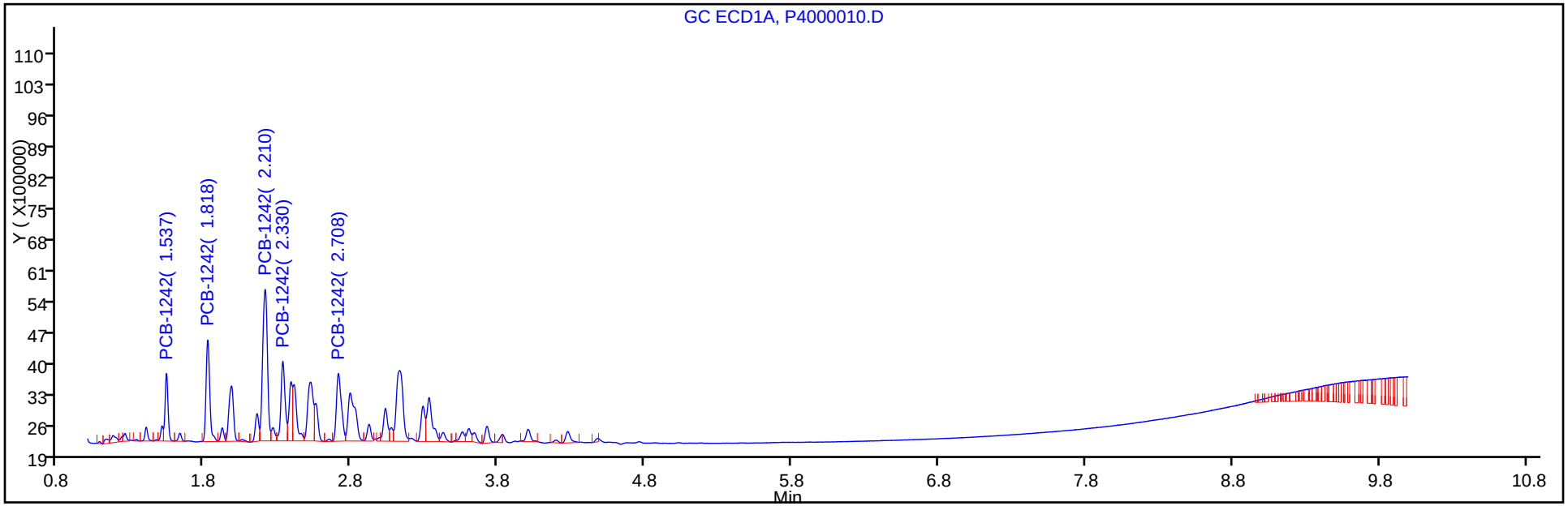
Report Date: 24-Jan-2013 07:50:12 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

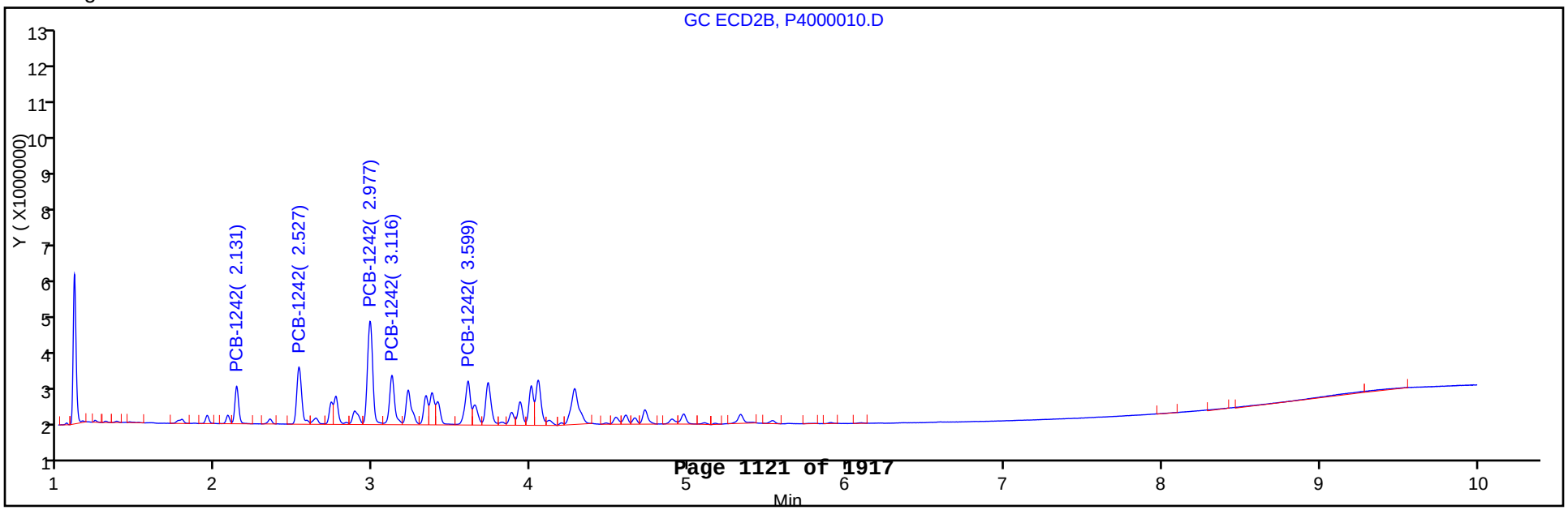
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000010.D

Injection Date:	23-Jan-2013 13:12:36	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	10
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000011.D
Lims ID: STD02 1242 Client ID:
Inject. Date: 23-Jan-2013 13:28:18 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0016796-011
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 11
Lims Batch ID: 72953 Lims Sample ID: 11
Sublist: chrom-PCB4*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:50:08 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.538	1.537	0.001	4160102	0.2091		100.0	
1	2	1.818	1.818	0.000	7804930	0.2085	162.6- 212.6	187.6	
1	3	2.210	2.209	0.001	15129964	0.2022	338.7- 388.7	363.7	
1	4	2.330	2.330	0.000	6939701	0.2072	141.8- 191.8	166.8	
1	5	2.708	2.708	0.000	7004560	0.2087	143.4- 193.4	168.4	
			Average of Peak Amounts =			0.2071			
2	6	2.132	2.132	0.000	3376631	0.2074		100.0	
2	7	2.527	2.527	0.000	6718548	0.2078	169.0- 229.0	199.0	
2	8	2.978	2.978	0.000	12992453	0.2014	354.8- 414.8	384.8	
2	9	3.116	3.115	0.001	5802502	0.2027	141.8- 201.8	171.8	
2	10	3.599	3.596	0.003	4987524	0.2068	117.7- 177.7	147.7	
			Average of Peak Amounts =			0.2052			
						RPD = 0.93			

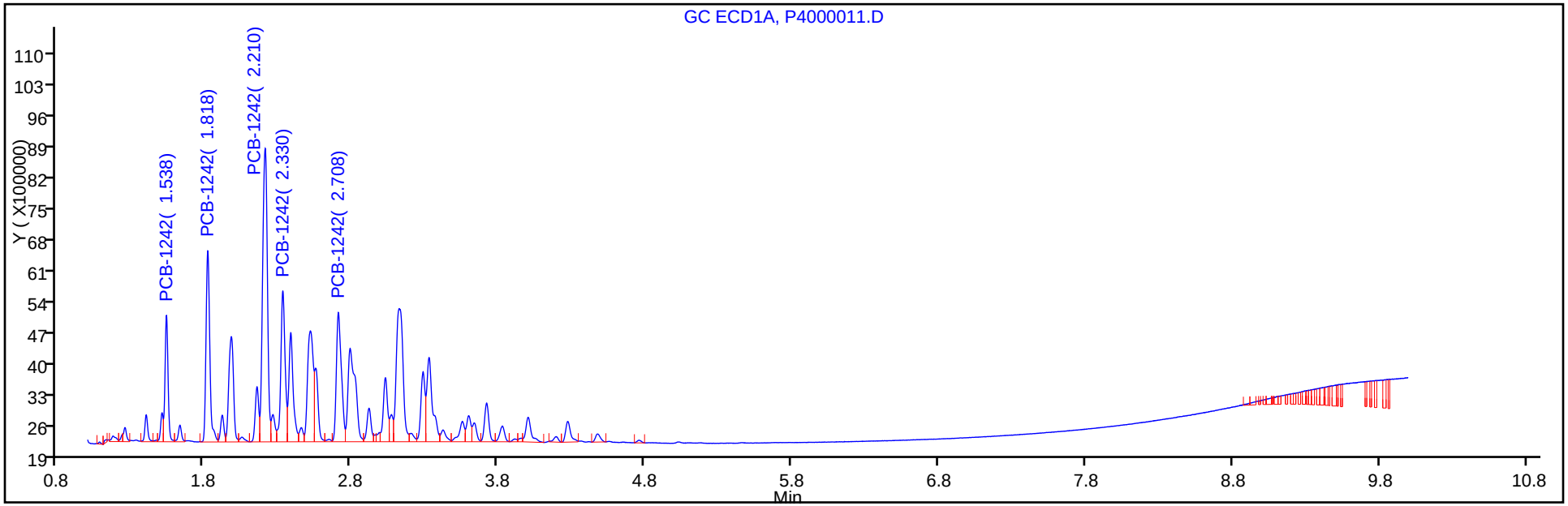
Report Date: 24-Jan-2013 07:50:10 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

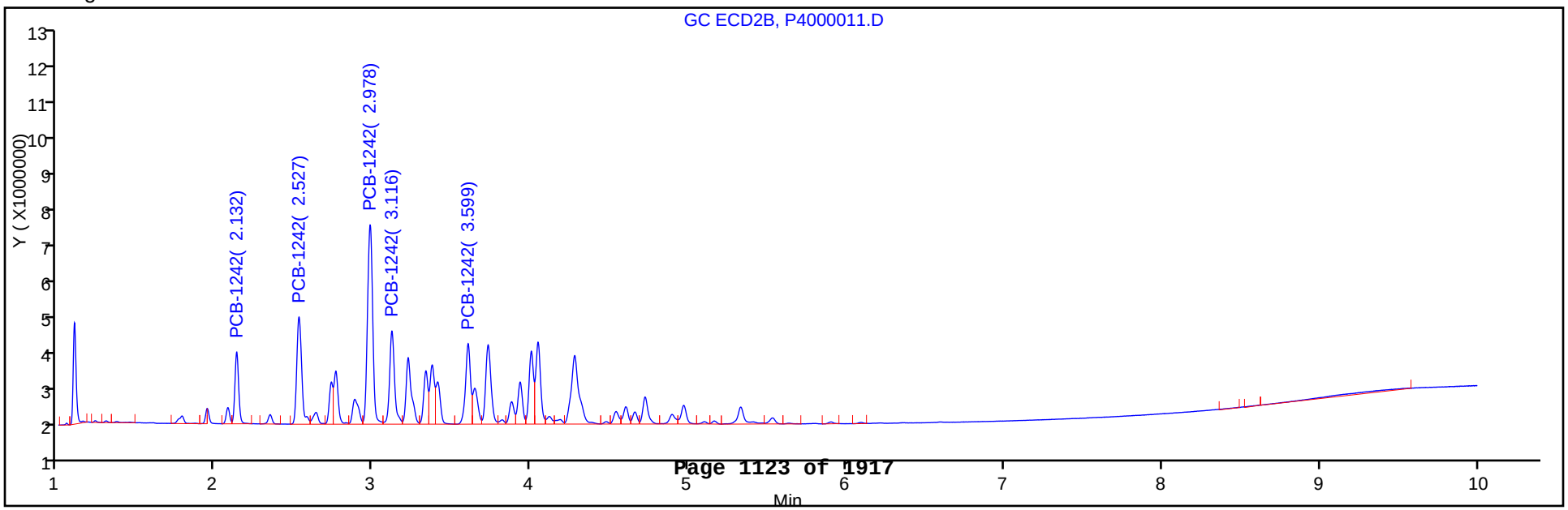
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000011.D

Injection Date:	23-Jan-2013 13:28:18	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	11
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000012.D		
Lims ID:	STD05 1242	Client ID:	
Inject. Date:	23-Jan-2013 13:43:57	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	240-0016796-012		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 ul	ALS Bottle#:	12
Lims Batch ID:	72953	Lims Sample ID:	12
Sublist:	chrom-PCB4*sub2		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m		
Last Update:	24-Jan-2013 07:50:06	Calib Date:	23-Jan-2013 22:06:47
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK022		

First Level Reviewer: hassl Date: 24-Jan-2013 07:36:53

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									M
1	100	1.537	1.537	0.000	9192784	0.4620		100.0	
1	2	1.819	1.818	0.001	17465626	0.4667	162.6- 212.6	190.0	
1	3	2.210	2.209	0.001	35459623	0.4739	338.7- 388.7	385.7	
1	4	2.330	2.330	0.000	15761441	0.4707	141.8- 191.8	171.5	
1	5	2.709	2.708	0.001	15601347	0.4648	143.4- 193.4	169.7	M
			Average of Peak Amounts =			0.4676			
2	6	2.132	2.132	0.000	7498667	0.4607		100.0	
2	7	2.527	2.527	0.000	15086321	0.4665	169.0- 229.0	201.2	
2	8	2.978	2.978	0.000	30707285	0.4761	354.8- 414.8	409.5	
2	9	3.116	3.115	0.001	13315356	0.4652	141.8- 201.8	177.6	
2	10	3.599	3.596	0.003	10595395	0.4941	117.7- 177.7	141.3	
			Average of Peak Amounts =			0.4725			
						RPD = 1.04			

QC Flag Legend

Review Flags
M - Manually Integrated

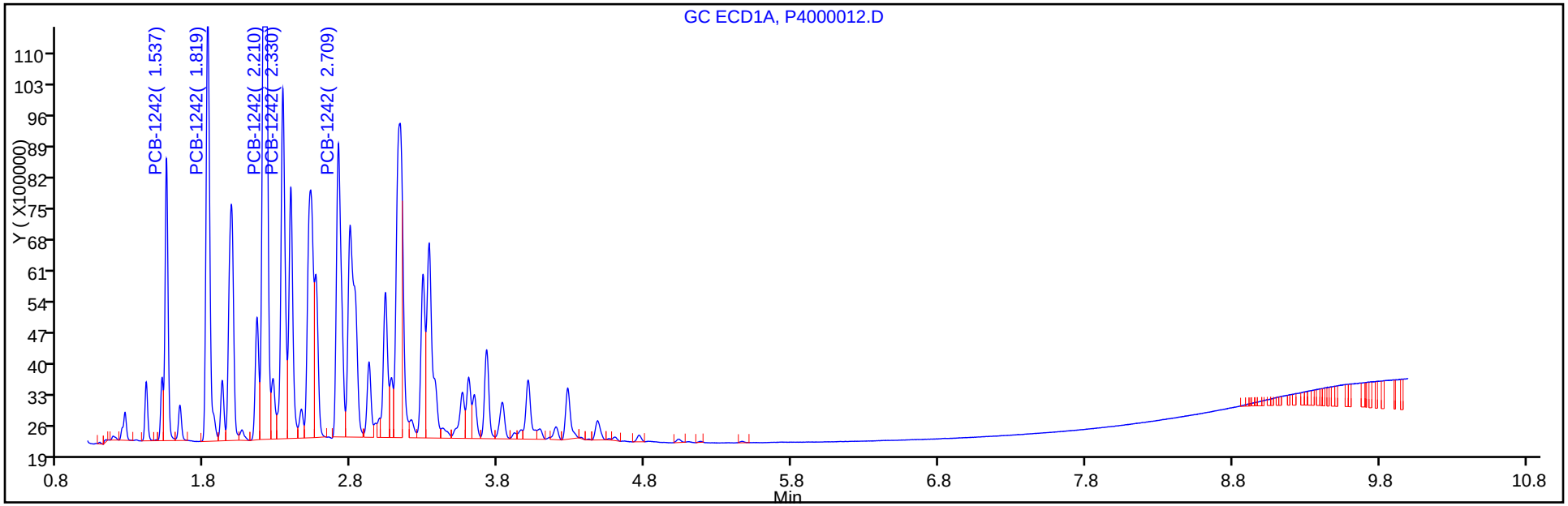
Report Date: 24-Jan-2013 07:50:07 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

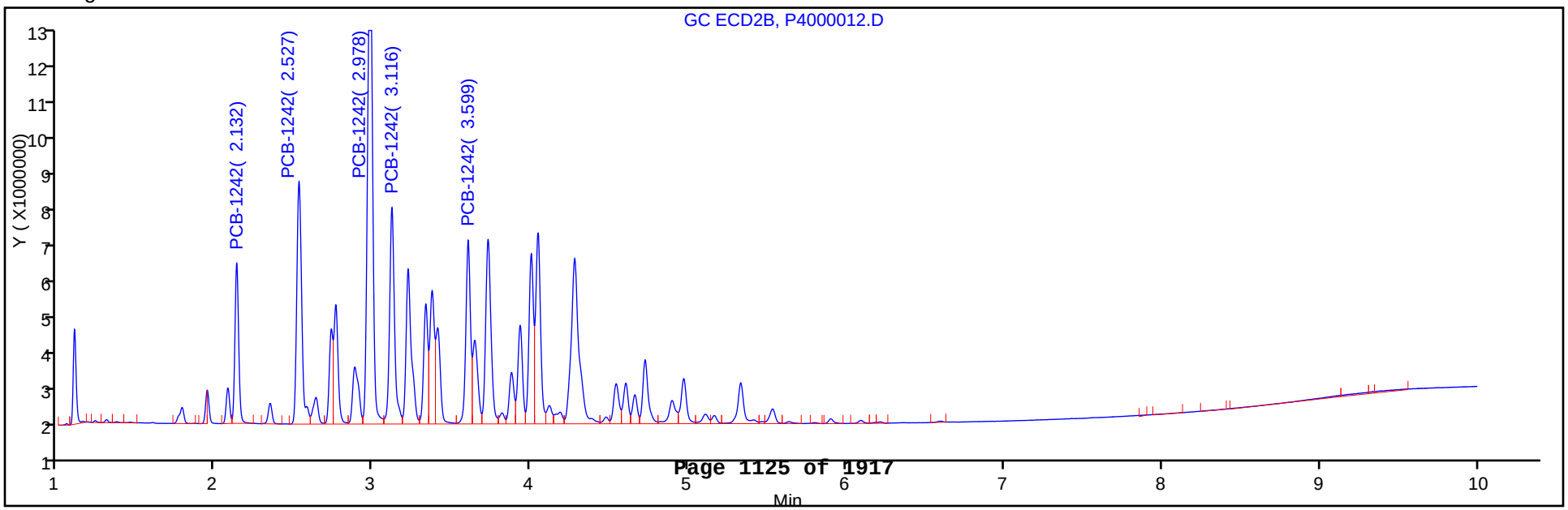
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000012.D

Injection Date:	23-Jan-2013 13:43:57	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	12
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000013.D
Lims ID: STD1 1242 Client ID:
Inject. Date: 23-Jan-2013 13:59:45 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0016796-013
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 13
Lims Batch ID: 72953 Lims Sample ID: 13
Sublist: chrom-PCB4*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:50:03 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.537	1.537	0.000	17665942	0.8878		100.0	
1	2	1.819	1.818	0.001	33555792	0.8966	162.6- 212.6	189.9	
1	3	2.210	2.209	0.001	71123082	0.9505	338.7- 388.7	402.6	
1	4	2.330	2.330	0.000	30680366	0.9161	141.8- 191.8	173.7	
1	5	2.709	2.708	0.001	30752600	0.9162	143.4- 193.4	174.1	
			Average of Peak Amounts =			0.9134			
2	6	2.132	2.132	0.000	14669069	0.9012		100.0	
2	7	2.526	2.527	-0.001	29128136	0.9007	169.0- 229.0	198.6	
2	8	2.977	2.978	-0.001	61418393	0.9522	354.8- 414.8	418.7	
2	9	3.116	3.115	0.001	26069607	0.9108	141.8- 201.8	177.7	
2	10	3.599	3.596	0.003	20433199	1.00	117.7- 177.7	139.3	
			Average of Peak Amounts =			0.9326			
						RPD = 2.07			

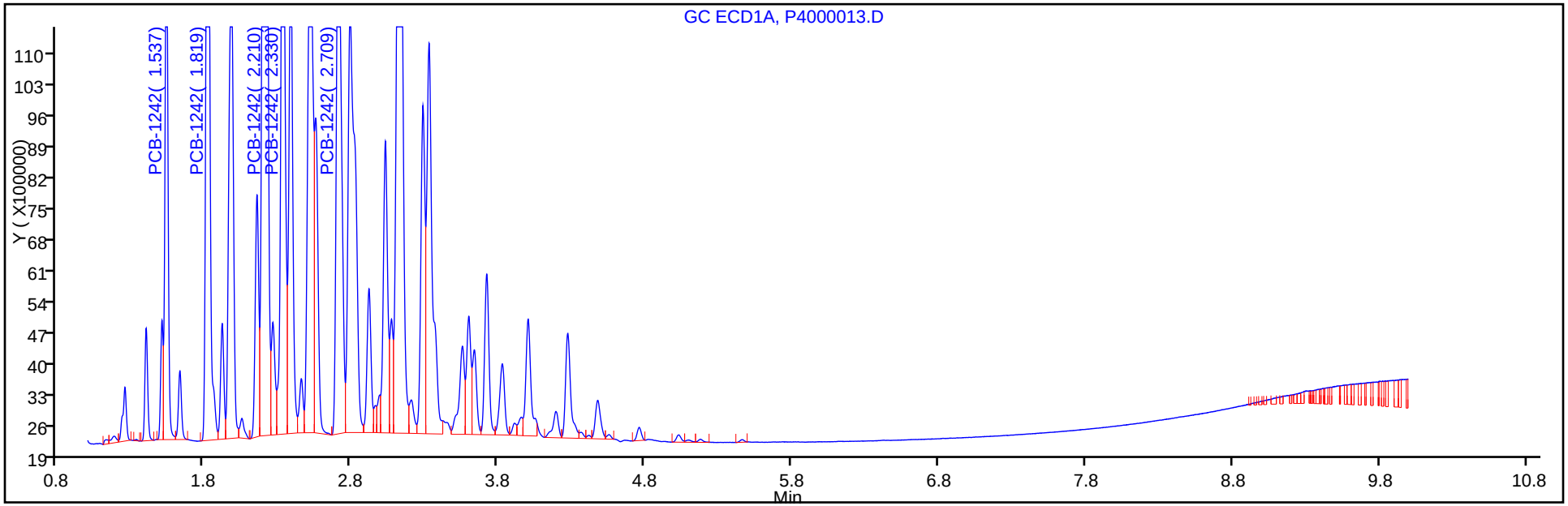
Report Date: 24-Jan-2013 07:50:05 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

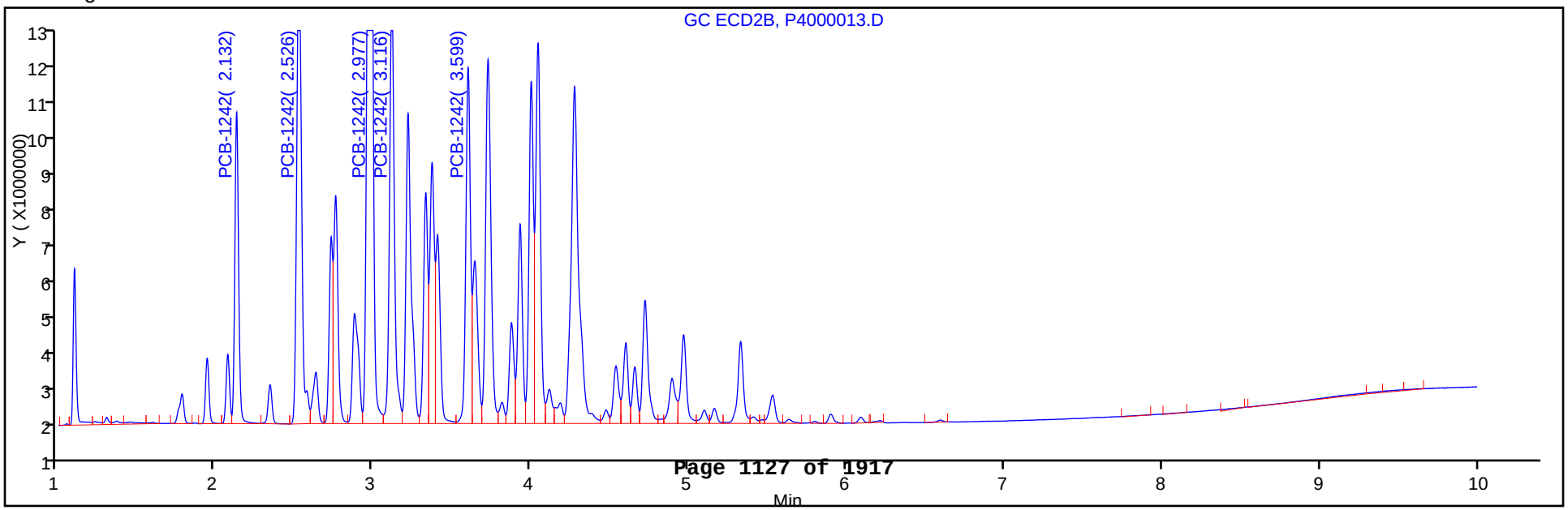
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000013.D

Injection Date:	23-Jan-2013 13:59:45	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	13
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000014.D
Lims ID: STD2 1242 Client ID:
Inject. Date: 23-Jan-2013 14:15:27 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0016796-014
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 14
Lims Batch ID: 72953 Lims Sample ID: 14
Sublist: chrom-PCB4*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:50:01 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.537	1.537	0.000	33727098	1.69		100.0	
1	2	1.818	1.818	0.000	63910792	1.71	162.6- 212.6	189.5	
1	3	2.210	2.209	0.001	140311157	1.88	338.7- 388.7	416.0	
1	4	2.330	2.330	0.000	60609530	1.81	141.8- 191.8	179.7	
1	5	2.709	2.708	0.001	60596069	1.81	143.4- 193.4	179.7	
			Average of Peak Amounts =			1.78			
2	6	2.131	2.132	-0.001	28141708	1.73		100.0	
2	7	2.527	2.527	0.000	55682295	1.72	169.0- 229.0	197.9	
2	8	2.978	2.978	0.000	121507147	1.88	354.8- 414.8	431.8	
2	9	3.116	3.115	0.001	51007855	1.78	141.8- 201.8	181.3	
2	10	3.600	3.596	0.004	40004370	2.00	117.7- 177.7	142.2	
			Average of Peak Amounts =			1.82			
						RPD = 2.49			

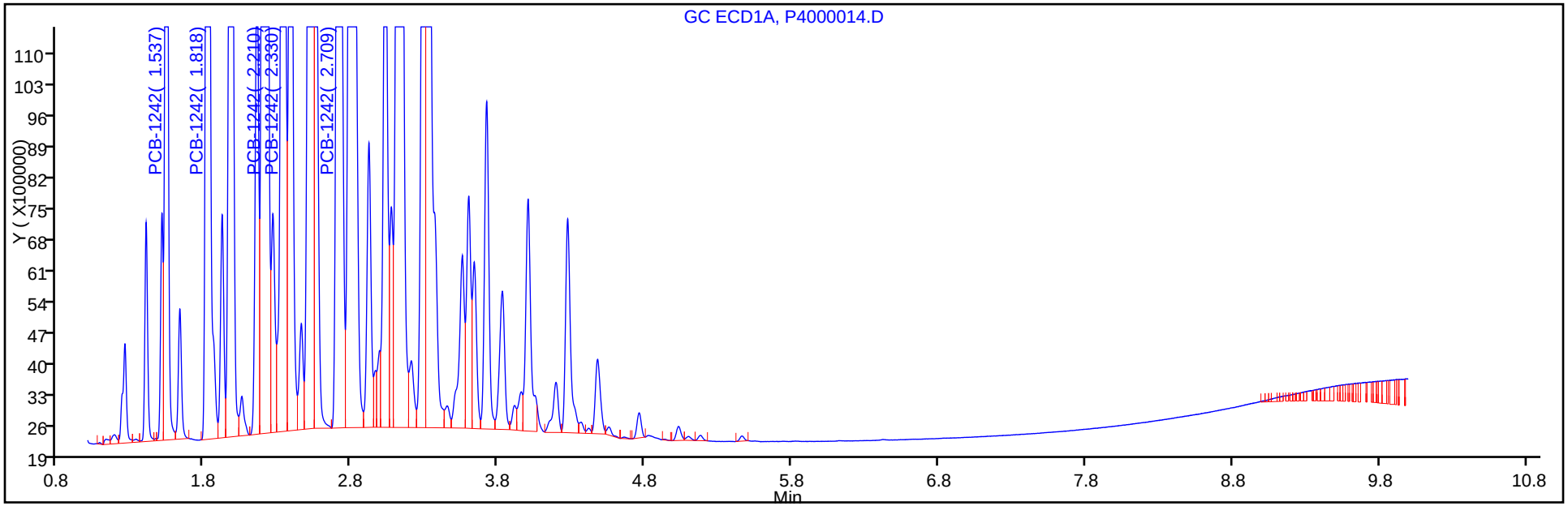
Report Date: 24-Jan-2013 07:50:02 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

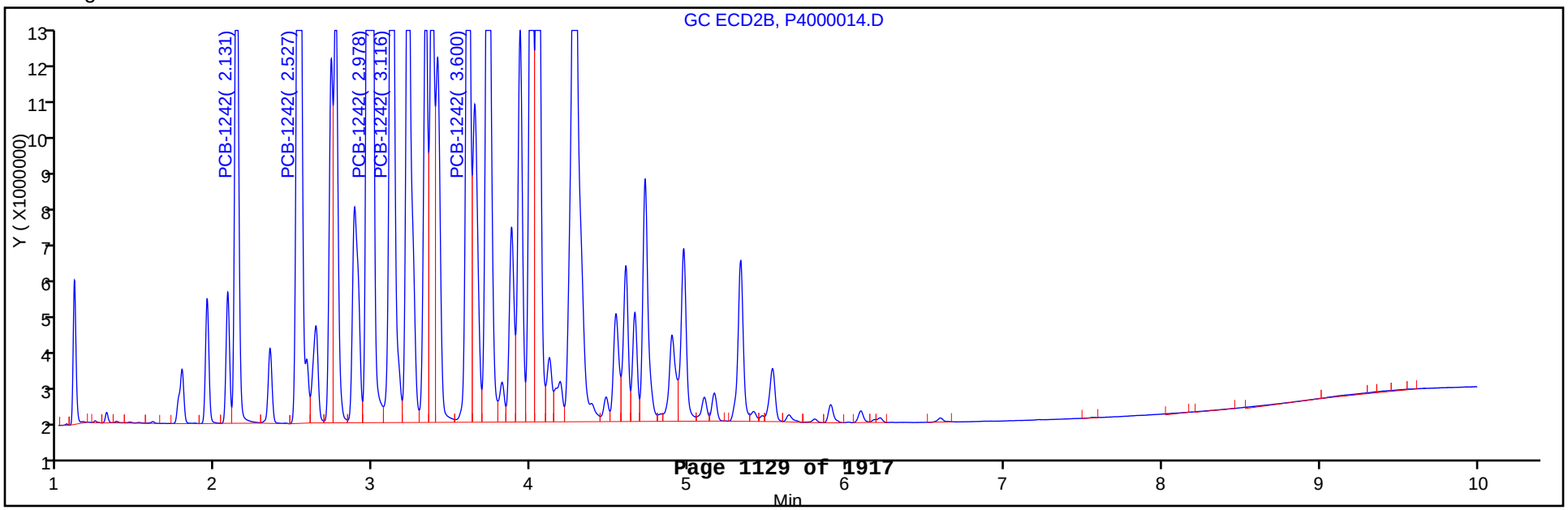
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000014.D

Injection Date:	23-Jan-2013 14:15:27	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	14
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 14:31 Calibration End Date: 01/23/2013 15:49 Calibration ID: 13417

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/15	P4000015.D
Level 2	STD01 240-72953/16	P4000016.D
Level 3	STD02 240-72953/17	P4000017.D
Level 4	STD05 240-72953/18	P4000018.D
Level 5	STD1 240-72953/19	P4000019.D
Level 6	STD2 240-72953/20	P4000020.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1248 Peak 1	1.818	1.817	1.818	1.818	1.818	1.817					1.718 - 1.918	1.818
PCB-1248 Peak 2	2.207	2.208	2.208	2.209	2.208	2.207					2.107 - 2.307	2.208
PCB-1248 Peak 3	2.708	2.709	2.708	2.709	2.708	2.709					2.608 - 2.808	2.709
PCB-1248 Peak 4	3.286	3.286	3.286	3.286	3.286	3.286					3.186 - 3.386	3.286
PCB-1248 Peak 5	3.719	3.719	3.719	3.719	3.719	3.720					3.619 - 3.819	3.719

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 14:31 Calibration End Date: 01/23/2013 15:49 Calibration ID: 13417

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/15	P4000015.D
Level 2	STD01 240-72953/16	P4000016.D
Level 3	STD02 240-72953/17	P4000017.D
Level 4	STD05 240-72953/18	P4000018.D
Level 5	STD1 240-72953/19	P4000019.D
Level 6	STD2 240-72953/20	P4000020.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 6	LVL 3	LVL 4		B	M1	M2								
PCB-1248 Peak 1	21539540 16008992	20150460 15178221	19257310	17040612	Ave		18195855.8				14.0		20.0			
PCB-1248 Peak 2	47664700 44293622	51148610 43352498	49438145	45123284	Ave		46836809.8				6.6		20.0			
PCB-1248 Peak 3	59500940 48711533	57759380 47318919	54018730	49061516	Ave		52728503.0				9.7		20.0			
PCB-1248 Peak 4	28918080 25766846	27571130 25947849	26925270	25150354	Ave		26713254.8				5.2		20.0			
PCB-1248 Peak 5	26254900 23456362	25813240 22986847	25720340	23624026	Ave		24642619.2				5.8		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 14:31 Calibration End Date: 01/23/2013 15:49 Calibration ID: 13417

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/15	P4000015.D
Level 2	STD01 240-72953/16	P4000016.D
Level 3	STD02 240-72953/17	P4000017.D
Level 4	STD05 240-72953/18	P4000018.D
Level 5	STD1 240-72953/19	P4000019.D
Level 6	STD2 240-72953/20	P4000020.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	Ave	1076977 30356442	2015046	3851462	8520306	16008992	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 2	Ave	2383235 86704995	5114861	9887629	22561642	44293622	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 3	Ave	2975047 94637838	5775938	10803746	24530758	48711533	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 4	Ave	1445904 51895698	2757113	5385054	12575177	25766846	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 5	Ave	1312745 45973694	2581324	5144068	11812013	23456362	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:

Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000015.D
Lims ID: STD005 1248 Client ID:
Inject. Date: 23-Jan-2013 14:31:09 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0016796-015
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 15
Lims Batch ID: 72953 Lims Sample ID: 15
Sublist: chrom-PCB4*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:59 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.818	1.818	0.000	1076977	0.0592		100.0	
1	2	2.207	2.207	0.000	2383235	0.0509	231.7- 281.7	221.3	
1	3	2.708	2.708	0.000	2975047	0.0564	255.5- 305.5	276.2	
1	4	3.286	3.286	0.000	1445904	0.0541	114.8- 164.8	134.3	
1	5	3.719	3.719	0.000	1312745	0.0533	108.6- 158.6	121.9	
			Average of Peak Amounts =			0.0548			
2	6	2.525	2.525	0.000	913354	0.0585		100.0	
2	7	2.977	2.977	0.000	2282028	0.0556	225.5- 285.5	249.9	
2	8	3.725	3.725	0.000	2286273	0.0553	235.9- 295.9	250.3	
2	9	3.999	3.999	0.000	2019832	0.0539	207.4- 267.4	221.1	
2	10	4.723	4.723	0.000	1286509	0.0541	121.0- 181.0	140.9	
			Average of Peak Amounts =			0.0555			
						RPD = 1.23			

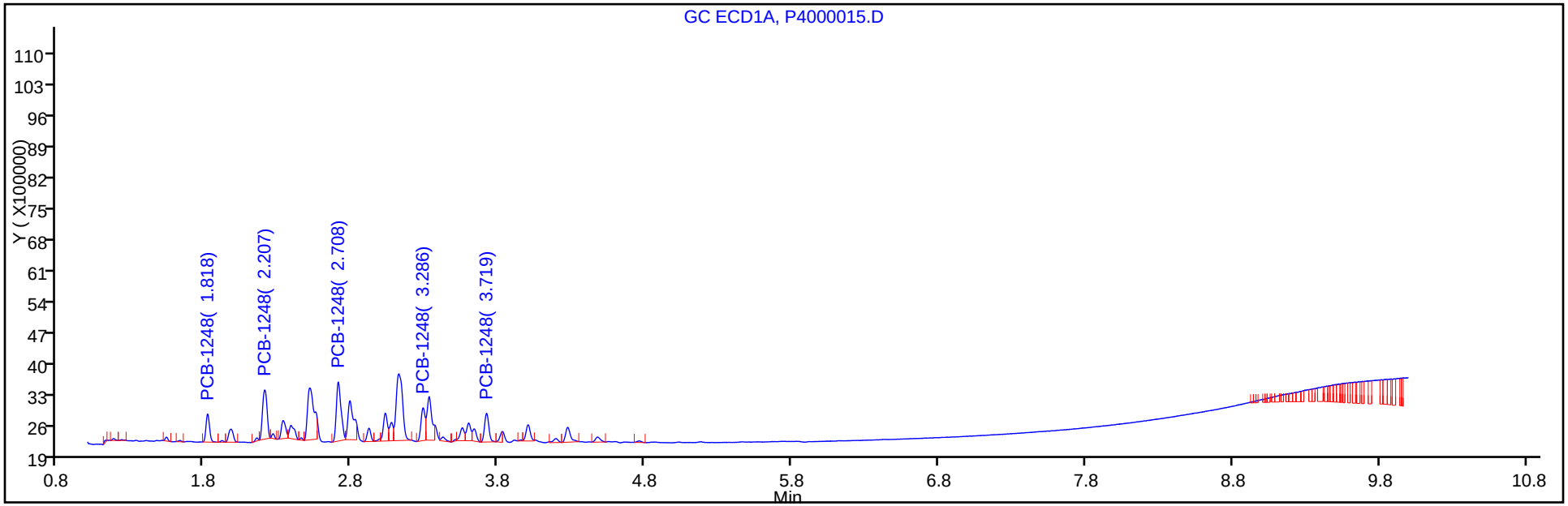
Report Date: 24-Jan-2013 07:50:00 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

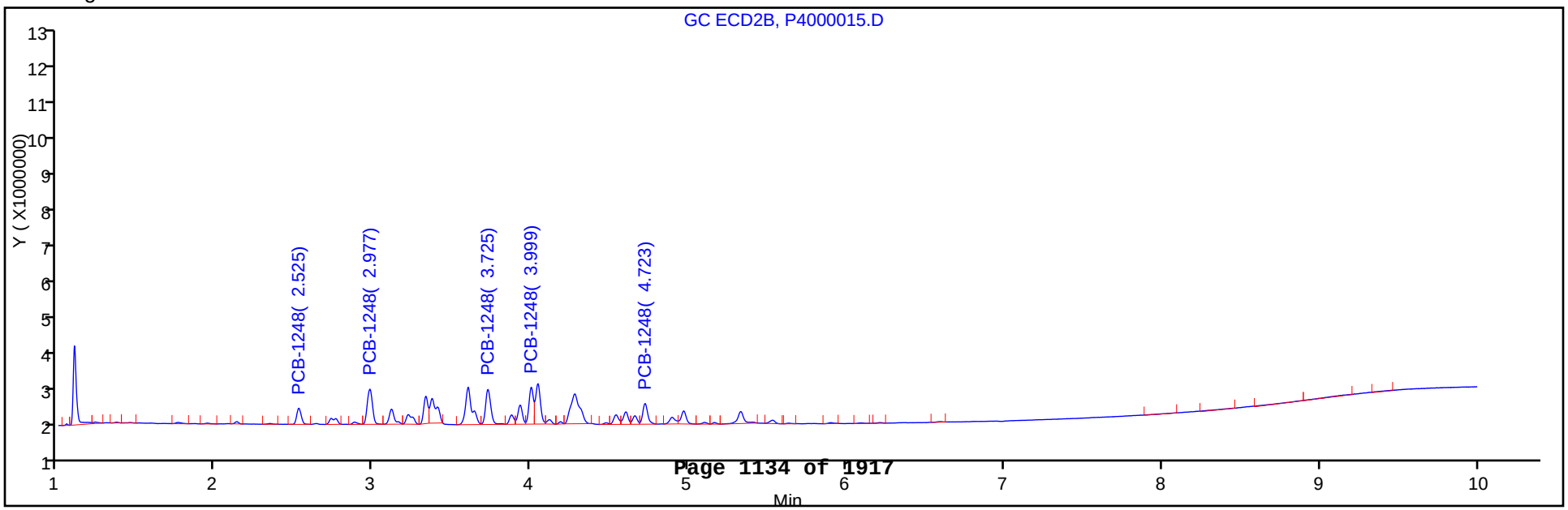
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000015.D

Injection Date:	23-Jan-2013 14:31:09	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	15
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000016.D
Lims ID: STD01 1248 Client ID:
Inject. Date: 23-Jan-2013 14:46:49 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0016796-016
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 16
Lims Batch ID: 72953 Lims Sample ID: 16
Sublist: chrom-PCB4*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:57 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.817	1.818	-0.001	2015046	0.1107		100.0	
1	2	2.208	2.207	0.001	5114861	0.1092	231.7- 281.7	253.8	
1	3	2.709	2.708	0.001	5775938	0.1095	255.5- 305.5	286.6	
1	4	3.286	3.286	0.000	2757113	0.1032	114.8- 164.8	136.8	
1	5	3.719	3.719	0.000	2581324	0.1048	108.6- 158.6	128.1	
			Average of Peak Amounts =			0.1075			
2	6	2.526	2.525	0.001	1716477	0.1099		100.0	
2	7	2.976	2.977	-0.001	4273694	0.1040	225.5- 285.5	249.0	
2	8	3.726	3.725	0.001	4403576	0.1065	235.9- 295.9	256.5	
2	9	4.001	3.999	0.002	3924522	0.1047	207.4- 267.4	228.6	
2	10	4.722	4.723	-0.001	2476351	0.1041	121.0- 181.0	144.3	
			Average of Peak Amounts =			0.1058			
						RPD = 1.54			

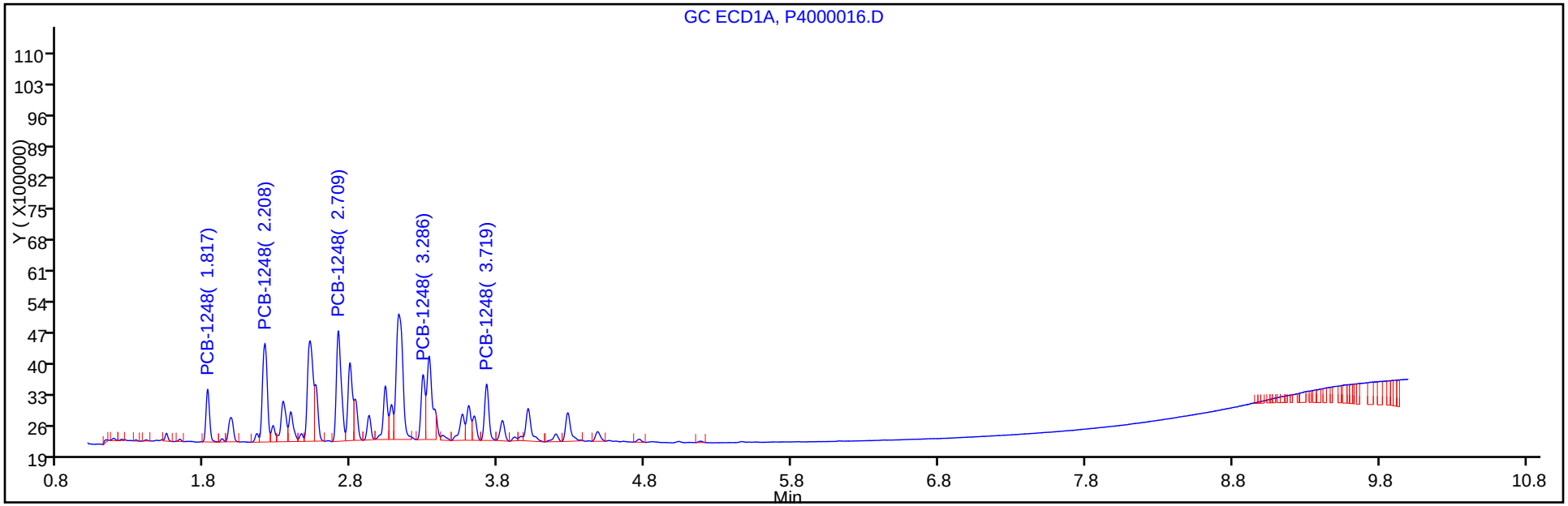
Report Date: 24-Jan-2013 07:49:58 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

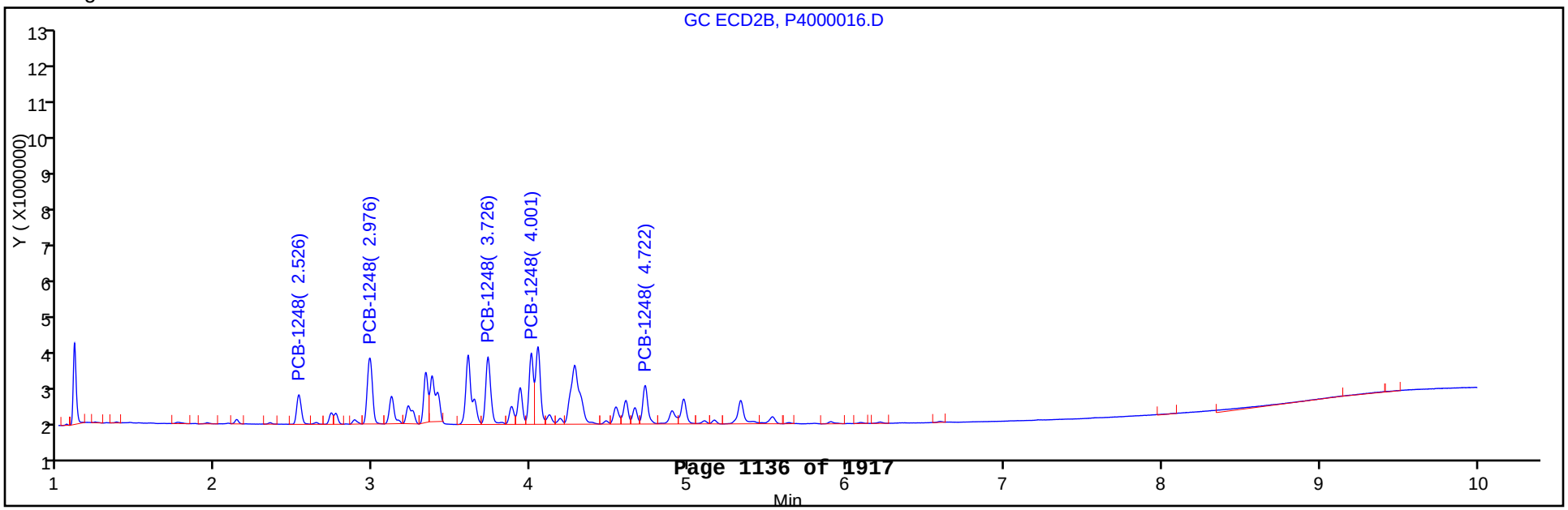
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000016.D

Injection Date:	23-Jan-2013 14:46:49	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	16
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000017.D
Lims ID: STD02 1248 Client ID:
Inject. Date: 23-Jan-2013 15:02:39 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0016796-017
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 17
Lims Batch ID: 72953 Lims Sample ID: 17
Sublist: chrom-PCB4*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:55 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.818	1.818	0.000	3851462	0.2117		100.0	
1	2	2.208	2.207	0.001	9887629	0.2111	231.7- 281.7	256.7	
1	3	2.708	2.708	0.000	10803746	0.2049	255.5- 305.5	280.5	
1	4	3.286	3.286	0.000	5385054	0.2016	114.8- 164.8	139.8	
1	5	3.719	3.719	0.000	5144068	0.2087	108.6- 158.6	133.6	
			Average of Peak Amounts =			0.2076			
2	6	2.525	2.525	0.000	3293601	0.2109		100.0	
2	7	2.975	2.977	-0.002	8413939	0.2048	225.5- 285.5	255.5	
2	8	3.726	3.725	0.001	8758629	0.2118	235.9- 295.9	265.9	
2	9	4.000	3.999	0.001	7818245	0.2086	207.4- 267.4	237.4	
2	10	4.721	4.723	-0.002	4972914	0.2090	121.0- 181.0	151.0	
			Average of Peak Amounts =			0.2090			
						RPD = 0.69			

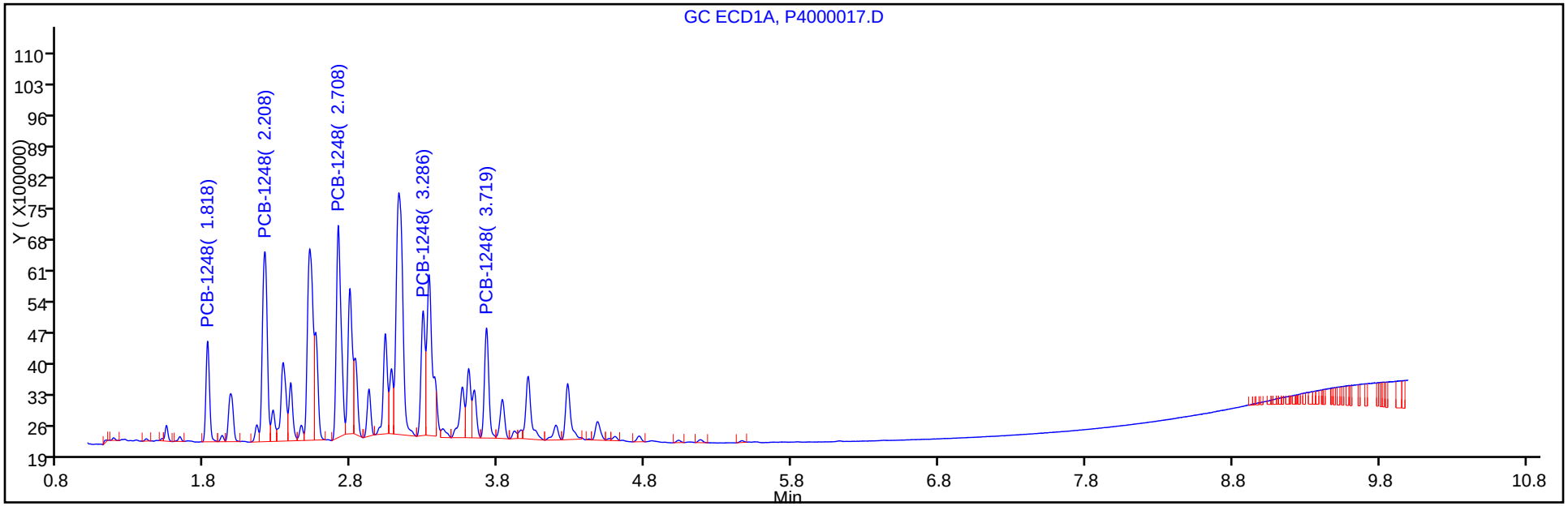
Report Date: 24-Jan-2013 07:49:56 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

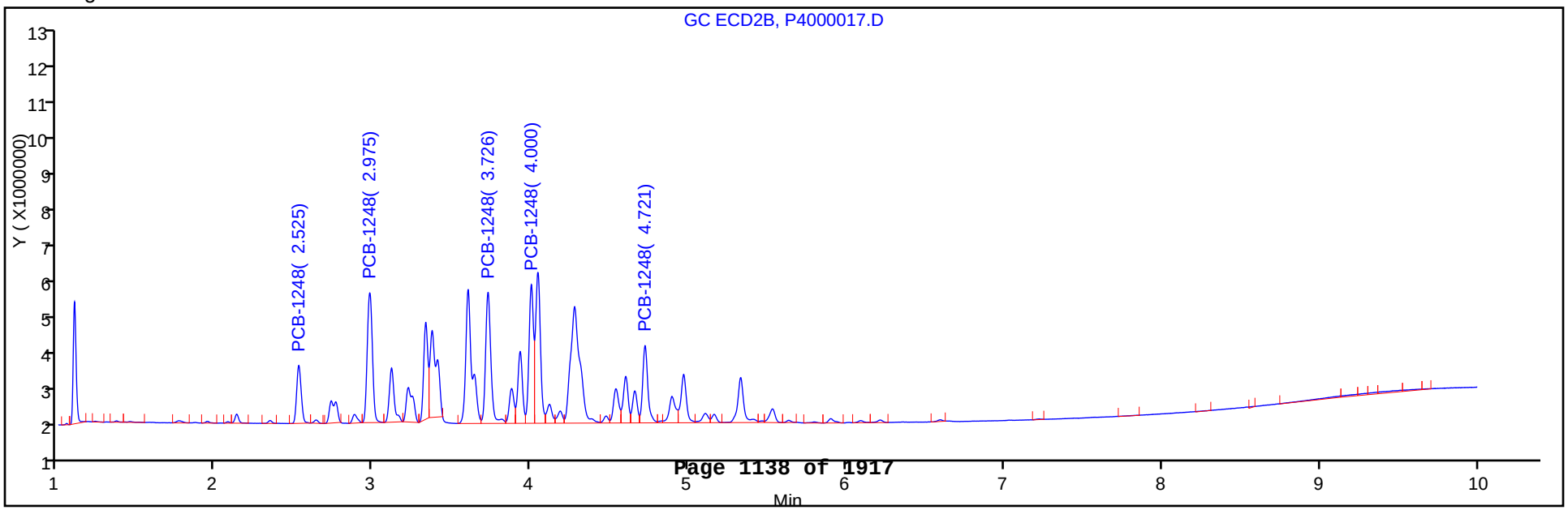
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000017.D

Injection Date:	23-Jan-2013 15:02:39	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	17
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000018.D
Lims ID: STD05 1248 Client ID:
Inject. Date: 23-Jan-2013 15:18:19 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0016796-018
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 18
Lims Batch ID: 72953 Lims Sample ID: 18
Sublist: chrom-PCB4*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:53 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.818	1.818	0.000	8520306	0.4683		100.0	
1	2	2.209	2.207	0.002	22561642	0.4817	231.7- 281.7	264.8	
1	3	2.709	2.708	0.001	24530758	0.4652	255.5- 305.5	287.9	
1	4	3.286	3.286	0.000	12575177	0.4707	114.8- 164.8	147.6	
1	5	3.719	3.719	0.000	11812013	0.4793	108.6- 158.6	138.6	
			Average of Peak Amounts =			0.4731			
2	6	2.526	2.525	0.001	7290752	0.4669		100.0	
2	7	2.976	2.977	-0.001	19281187	0.4694	225.5- 285.5	264.5	
2	8	3.726	3.725	0.001	19422301	0.4697	235.9- 295.9	266.4	
2	9	4.000	3.999	0.001	18002575	0.4804	207.4- 267.4	246.9	
2	10	4.722	4.723	-0.001	11409134	0.4794	121.0- 181.0	156.5	
			Average of Peak Amounts =			0.4732			
						RPD = 0.02			

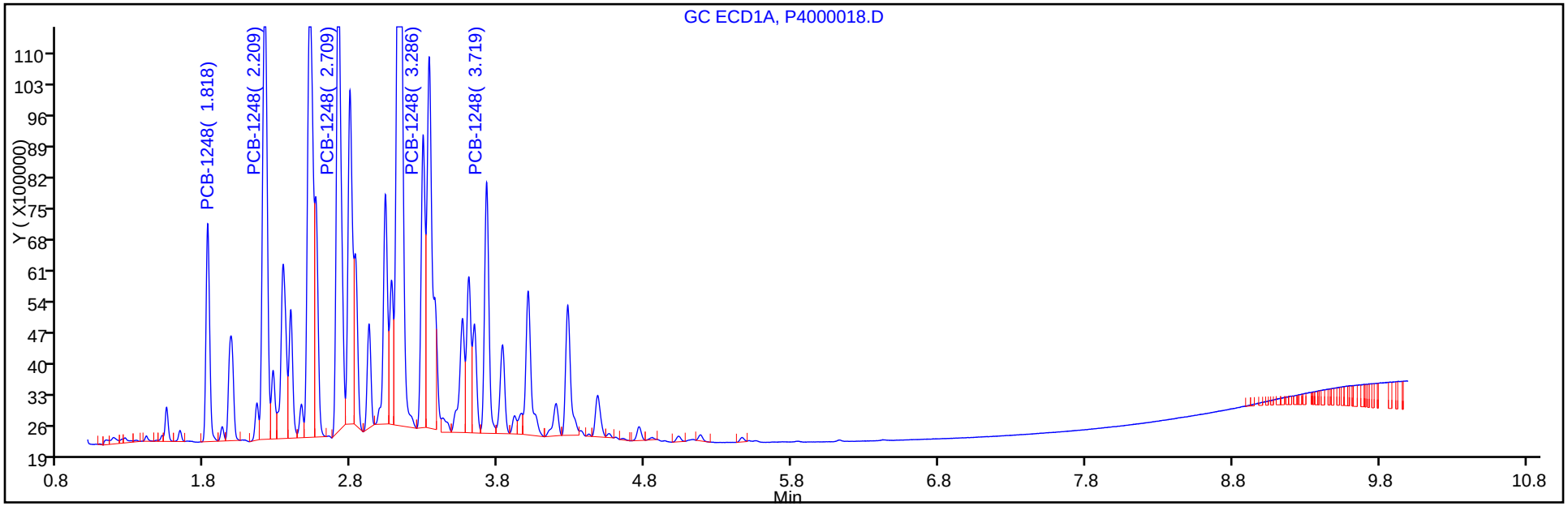
Report Date: 24-Jan-2013 07:49:54 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

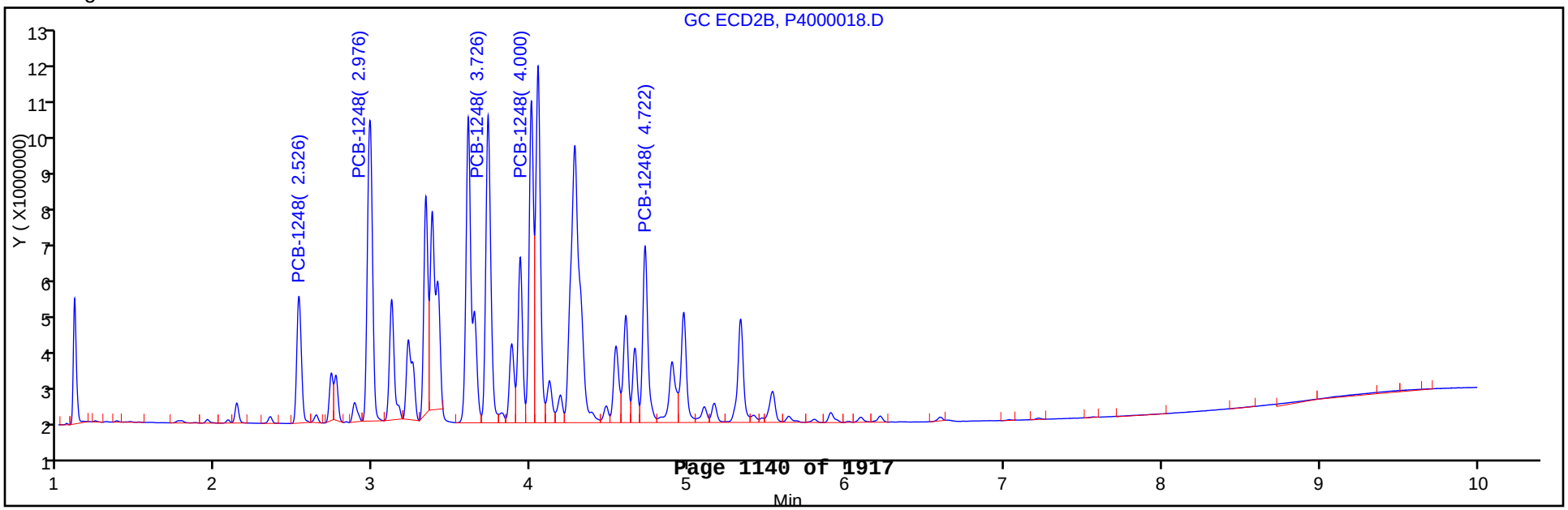
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000018.D

Injection Date:	23-Jan-2013 15:18:19	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	18
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000019.D
Lims ID: STD1 1248 Client ID:
Inject. Date: 23-Jan-2013 15:33:59 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0016796-019
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 19
Lims Batch ID: 72953 Lims Sample ID: 19
Sublist: chrom-PCB4*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:51 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.818	1.818	0.000	16008992	0.8798		100.0	
1	2	2.208	2.207	0.001	44293622	0.9457	231.7- 281.7	276.7	
1	3	2.708	2.708	0.000	48711533	0.9238	255.5- 305.5	304.3	
1	4	3.286	3.286	0.000	25766846	0.9646	114.8- 164.8	161.0	
1	5	3.719	3.719	0.000	23456362	0.9519	108.6- 158.6	146.5	
			Average of Peak Amounts =			0.9332			
2	6	2.526	2.525	0.001	13937177	0.8925		100.0	
2	7	2.975	2.977	-0.002	38940134	0.9479	225.5- 285.5	279.4	
2	8	3.725	3.725	0.000	38134942	0.9223	235.9- 295.9	273.6	
2	9	4.000	3.999	0.001	35366333	0.9438	207.4- 267.4	253.8	
2	10	4.721	4.723	-0.002	22604084	0.9498	121.0- 181.0	162.2	
			Average of Peak Amounts =			0.9313			
						RPD = 0.20			

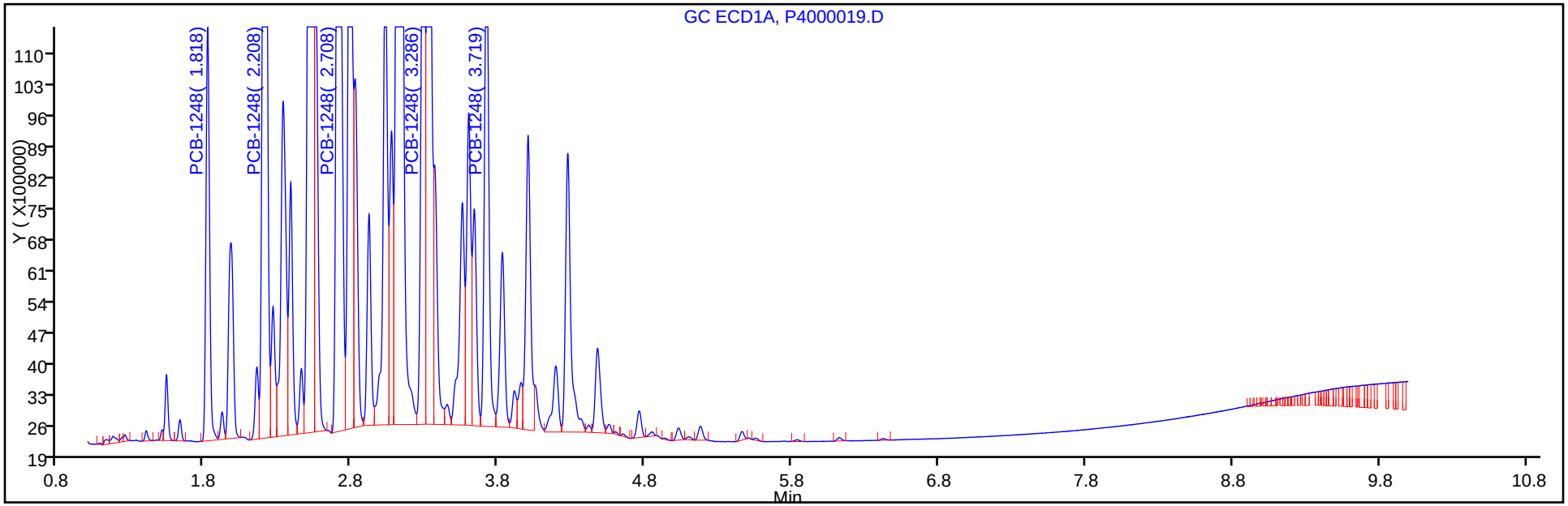
Report Date: 24-Jan-2013 07:49:52 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

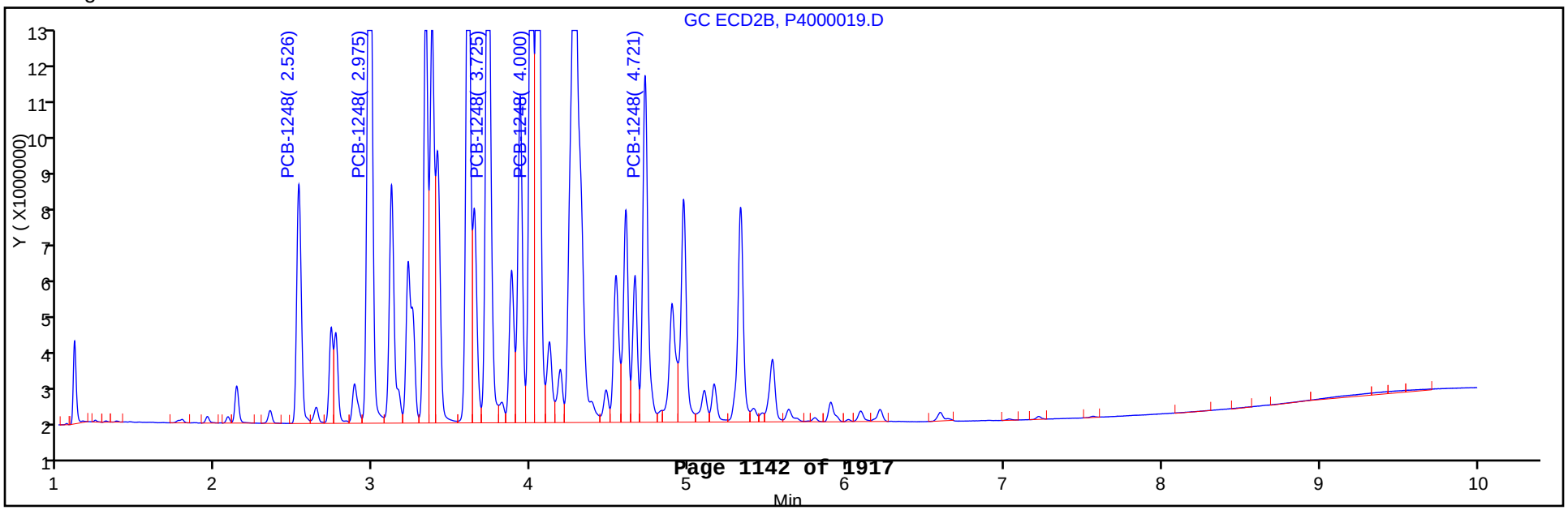
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000019.D

Injection Date:	23-Jan-2013 15:33:59	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	19
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000020.D
Lims ID: STD2 1248 Client ID:
Inject. Date: 23-Jan-2013 15:49:39 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0016796-020
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 20
Lims Batch ID: 72953 Lims Sample ID: 20
Sublist: chrom-PCB4*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:50 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.817	1.818	-0.001	30356442	1.67		100.0	
1	2	2.207	2.207	0.000	86704995	1.85	231.7- 281.7	285.6	
1	3	2.709	2.708	0.001	94637838	1.79	255.5- 305.5	311.8	
1	4	3.286	3.286	0.000	51895698	1.94	114.8- 164.8	171.0	
1	5	3.720	3.719	0.001	45973694	1.87	108.6- 158.6	151.4	
			Average of Peak Amounts =			1.82			
2	6	2.525	2.525	0.000	26562605	1.70		100.0	
2	7	2.976	2.977	-0.001	77051831	1.88	225.5- 285.5	290.1	
2	8	3.726	3.725	0.001	75122732	1.82	235.9- 295.9	282.8	
2	9	4.000	3.999	0.001	69442054	1.85	207.4- 267.4	261.4	
2	10	4.721	4.723	-0.002	44024656	1.85	121.0- 181.0	165.7	
			Average of Peak Amounts =			1.82			
						RPD = 0.29			

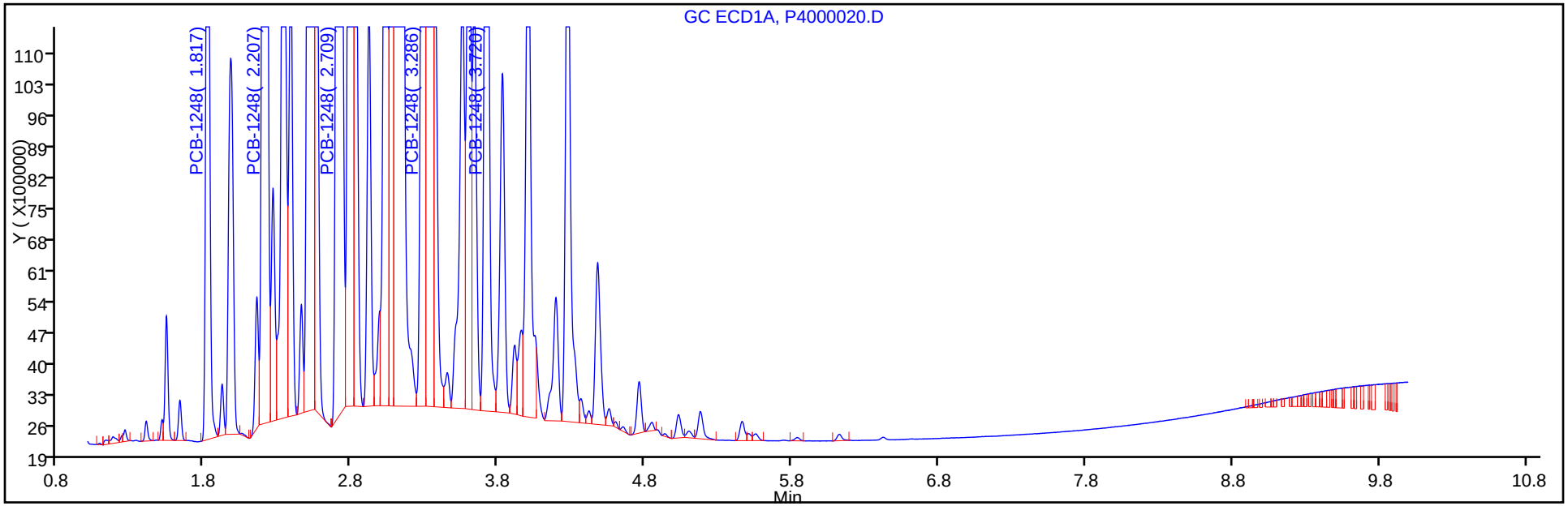
Report Date: 24-Jan-2013 07:49:50 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

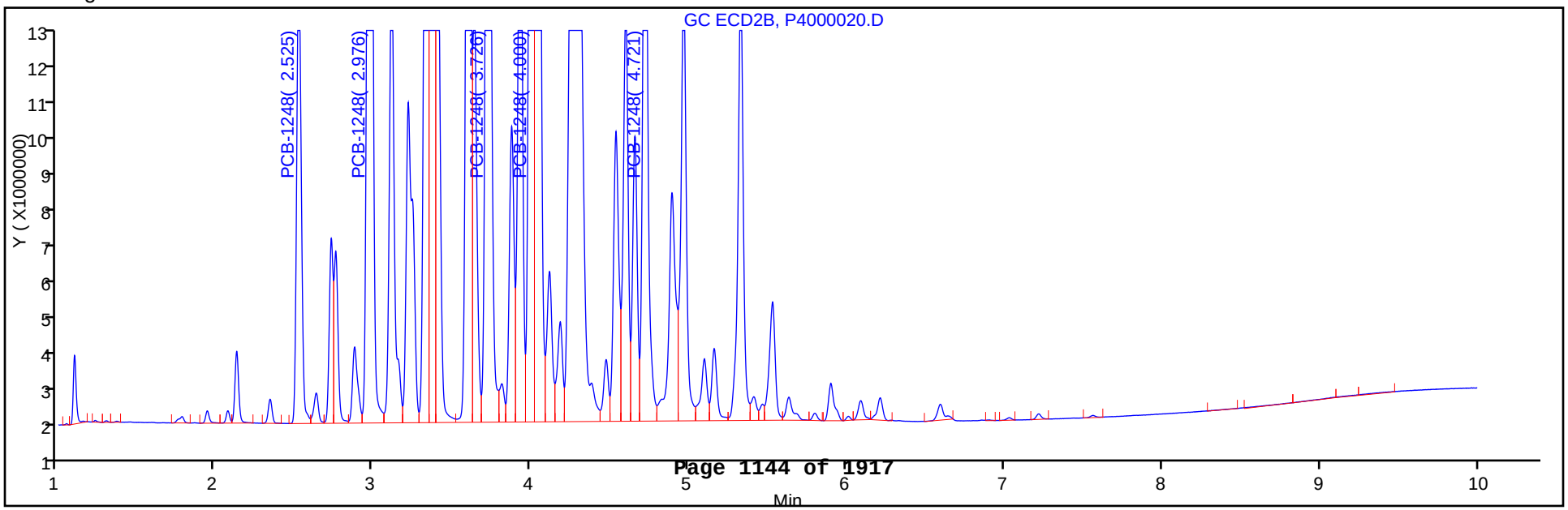
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000020.D

Injection Date:	23-Jan-2013 15:49:39	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	20
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 14:31 Calibration End Date: 01/23/2013 15:49 Calibration ID: 13418

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/15	P4000015.D
Level 2	STD01 240-72953/16	P4000016.D
Level 3	STD02 240-72953/17	P4000017.D
Level 4	STD05 240-72953/18	P4000018.D
Level 5	STD1 240-72953/19	P4000019.D
Level 6	STD2 240-72953/20	P4000020.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1248 Peak 1	2.525	2.526	2.525	2.526	2.526	2.525					2.425 - 2.625	2.526
PCB-1248 Peak 2	2.977	2.976	2.975	2.976	2.975	2.976					2.877 - 3.077	2.976
PCB-1248 Peak 3	3.725	3.726	3.726	3.726	3.725	3.726					3.625 - 3.825	3.726
PCB-1248 Peak 4	3.999	4.001	4.000	4.000	4.000	4.000					3.899 - 4.099	4.000
PCB-1248 Peak 5	4.723	4.722	4.721	4.722	4.721	4.721					4.623 - 4.823	4.722

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 14:31 Calibration End Date: 01/23/2013 15:49 Calibration ID: 13418

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/15	P4000015.D
Level 2	STD01 240-72953/16	P4000016.D
Level 3	STD02 240-72953/17	P4000017.D
Level 4	STD05 240-72953/18	P4000018.D
Level 5	STD1 240-72953/19	P4000019.D
Level 6	STD2 240-72953/20	P4000020.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 6	LVL 3	LVL 4		B	M1	M2								
PCB-1248 Peak 1	18267080 13937177	17164770 13281303	16468005	14581504	Ave		15616639.8				13.0		20.0			
PCB-1248 Peak 2	45640560 38940134	42736940 38525916	42069695	38562374	Ave		41079269.8				7.1		20.0			
PCB-1248 Peak 3	45725460 38134942	44035760 37561366	43793145	38844602	Ave		41349212.5				8.6		20.0			
PCB-1248 Peak 4	40396640 35366333	39245220 34721027	39091225	36005150	Ave		37470932.5				6.4		20.0			
PCB-1248 Peak 5	25730180 22604084	24763510 22012328	24864570	22818268	Ave		23798823.3				6.3		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 14:31 Calibration End Date: 01/23/2013 15:49 Calibration ID: 13418

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/15	P4000015.D
Level 2	STD01 240-72953/16	P4000016.D
Level 3	STD02 240-72953/17	P4000017.D
Level 4	STD05 240-72953/18	P4000018.D
Level 5	STD1 240-72953/19	P4000019.D
Level 6	STD2 240-72953/20	P4000020.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	Ave	913354 26562605	1716477	3293601	7290752	13937177	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 2	Ave	2282028 77051831	4273694	8413939	19281187	38940134	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 3	Ave	2286273 75122732	4403576	8758629	19422301	38134942	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 4	Ave	2019832 69442054	3924522	7818245	18002575	35366333	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 5	Ave	1286509 44024656	2476351	4972914	11409134	22604084	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:

Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000015.D
Lims ID: STD005 1248 Client ID:
Inject. Date: 23-Jan-2013 14:31:09 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0016796-015
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 15
Lims Batch ID: 72953 Lims Sample ID: 15
Sublist: chrom-PCB4*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:59 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.818	1.818	0.000	1076977	0.0592		100.0	
1	2	2.207	2.207	0.000	2383235	0.0509	231.7- 281.7	221.3	
1	3	2.708	2.708	0.000	2975047	0.0564	255.5- 305.5	276.2	
1	4	3.286	3.286	0.000	1445904	0.0541	114.8- 164.8	134.3	
1	5	3.719	3.719	0.000	1312745	0.0533	108.6- 158.6	121.9	
			Average of Peak Amounts =			0.0548			
2	6	2.525	2.525	0.000	913354	0.0585		100.0	
2	7	2.977	2.977	0.000	2282028	0.0556	225.5- 285.5	249.9	
2	8	3.725	3.725	0.000	2286273	0.0553	235.9- 295.9	250.3	
2	9	3.999	3.999	0.000	2019832	0.0539	207.4- 267.4	221.1	
2	10	4.723	4.723	0.000	1286509	0.0541	121.0- 181.0	140.9	
			Average of Peak Amounts =			0.0555			
						RPD = 1.23			

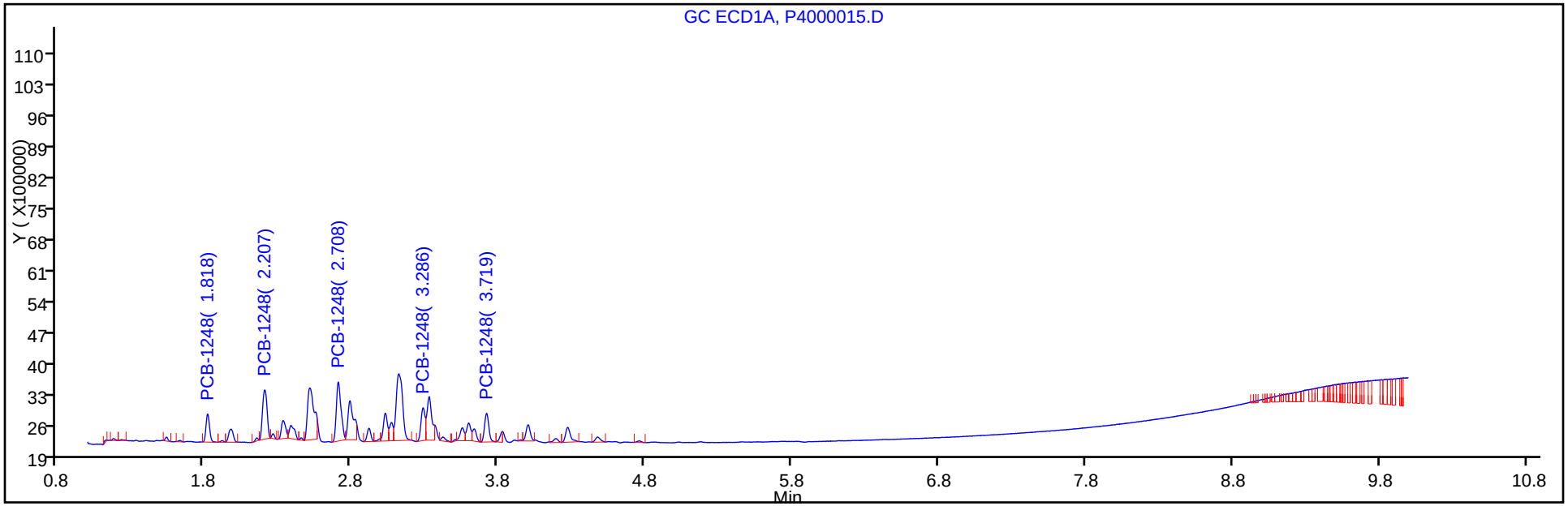
Report Date: 24-Jan-2013 07:50:00 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

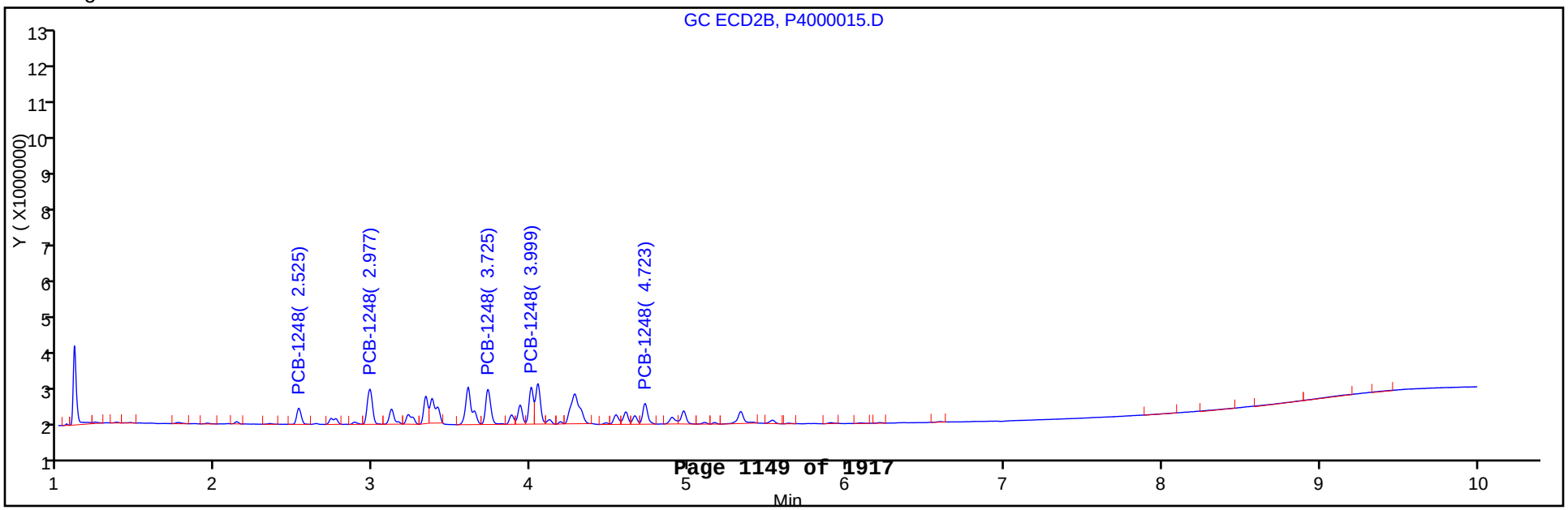
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000015.D

Injection Date:	23-Jan-2013 14:31:09	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	15
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000016.D
Lims ID: STD01 1248 Client ID:
Inject. Date: 23-Jan-2013 14:46:49 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0016796-016
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 16
Lims Batch ID: 72953 Lims Sample ID: 16
Sublist: chrom-PCB4*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:57 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.817	1.818	-0.001	2015046	0.1107		100.0	
1	2	2.208	2.207	0.001	5114861	0.1092	231.7- 281.7	253.8	
1	3	2.709	2.708	0.001	5775938	0.1095	255.5- 305.5	286.6	
1	4	3.286	3.286	0.000	2757113	0.1032	114.8- 164.8	136.8	
1	5	3.719	3.719	0.000	2581324	0.1048	108.6- 158.6	128.1	
			Average of Peak Amounts =			0.1075			
2	6	2.526	2.525	0.001	1716477	0.1099		100.0	
2	7	2.976	2.977	-0.001	4273694	0.1040	225.5- 285.5	249.0	
2	8	3.726	3.725	0.001	4403576	0.1065	235.9- 295.9	256.5	
2	9	4.001	3.999	0.002	3924522	0.1047	207.4- 267.4	228.6	
2	10	4.722	4.723	-0.001	2476351	0.1041	121.0- 181.0	144.3	
			Average of Peak Amounts =			0.1058			
						RPD = 1.54			

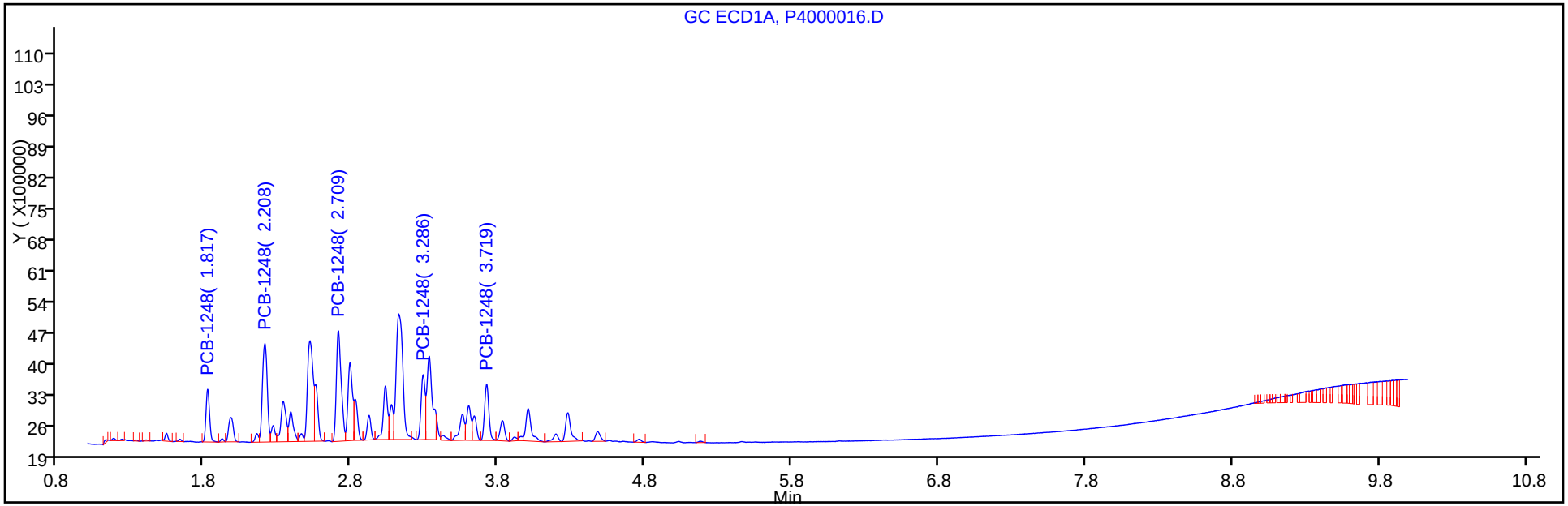
Report Date: 24-Jan-2013 07:49:58 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

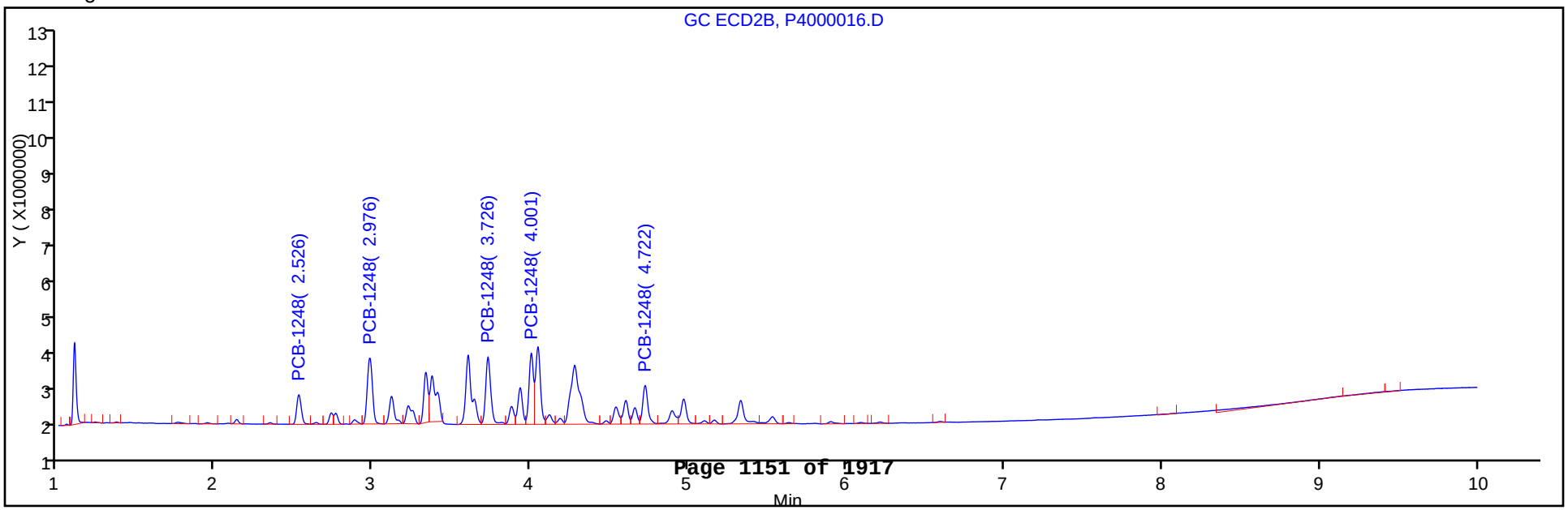
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000016.D

Injection Date:	23-Jan-2013 14:46:49	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	16
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000017.D
Lims ID: STD02 1248 Client ID:
Inject. Date: 23-Jan-2013 15:02:39 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0016796-017
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 17
Lims Batch ID: 72953 Lims Sample ID: 17
Sublist: chrom-PCB4*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:55 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.818	1.818	0.000	3851462	0.2117		100.0	
1	2	2.208	2.207	0.001	9887629	0.2111	231.7- 281.7	256.7	
1	3	2.708	2.708	0.000	10803746	0.2049	255.5- 305.5	280.5	
1	4	3.286	3.286	0.000	5385054	0.2016	114.8- 164.8	139.8	
1	5	3.719	3.719	0.000	5144068	0.2087	108.6- 158.6	133.6	
			Average of Peak Amounts =			0.2076			
2	6	2.525	2.525	0.000	3293601	0.2109		100.0	
2	7	2.975	2.977	-0.002	8413939	0.2048	225.5- 285.5	255.5	
2	8	3.726	3.725	0.001	8758629	0.2118	235.9- 295.9	265.9	
2	9	4.000	3.999	0.001	7818245	0.2086	207.4- 267.4	237.4	
2	10	4.721	4.723	-0.002	4972914	0.2090	121.0- 181.0	151.0	
			Average of Peak Amounts =			0.2090			
						RPD = 0.69			

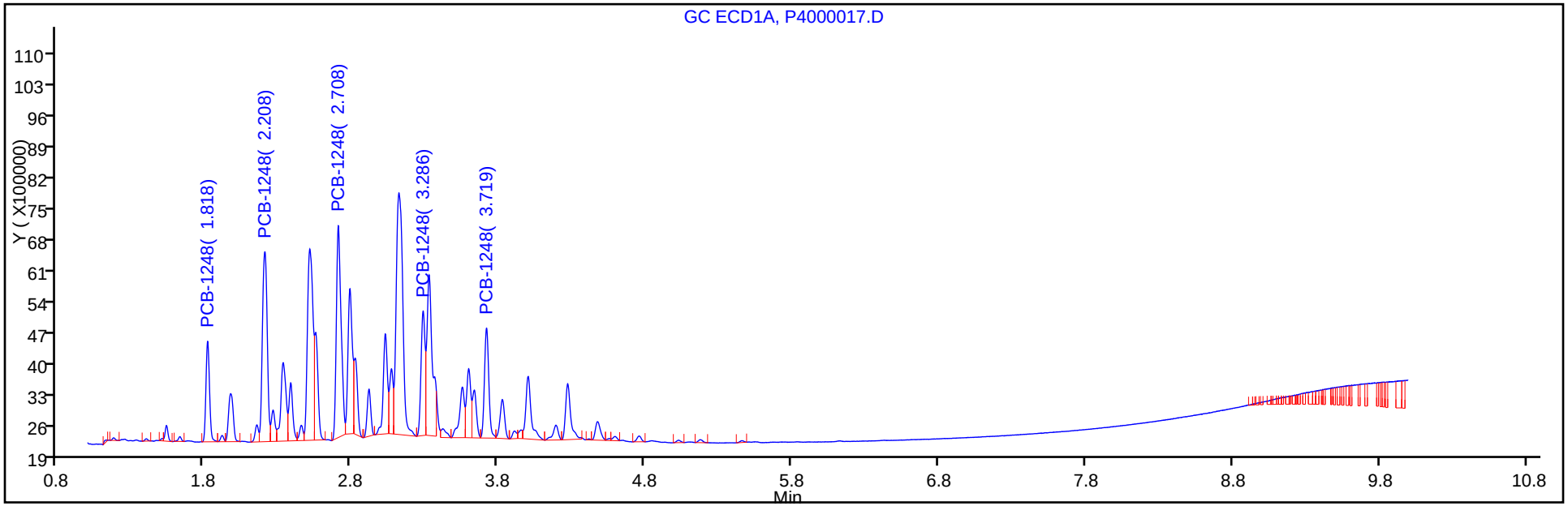
Report Date: 24-Jan-2013 07:49:56 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

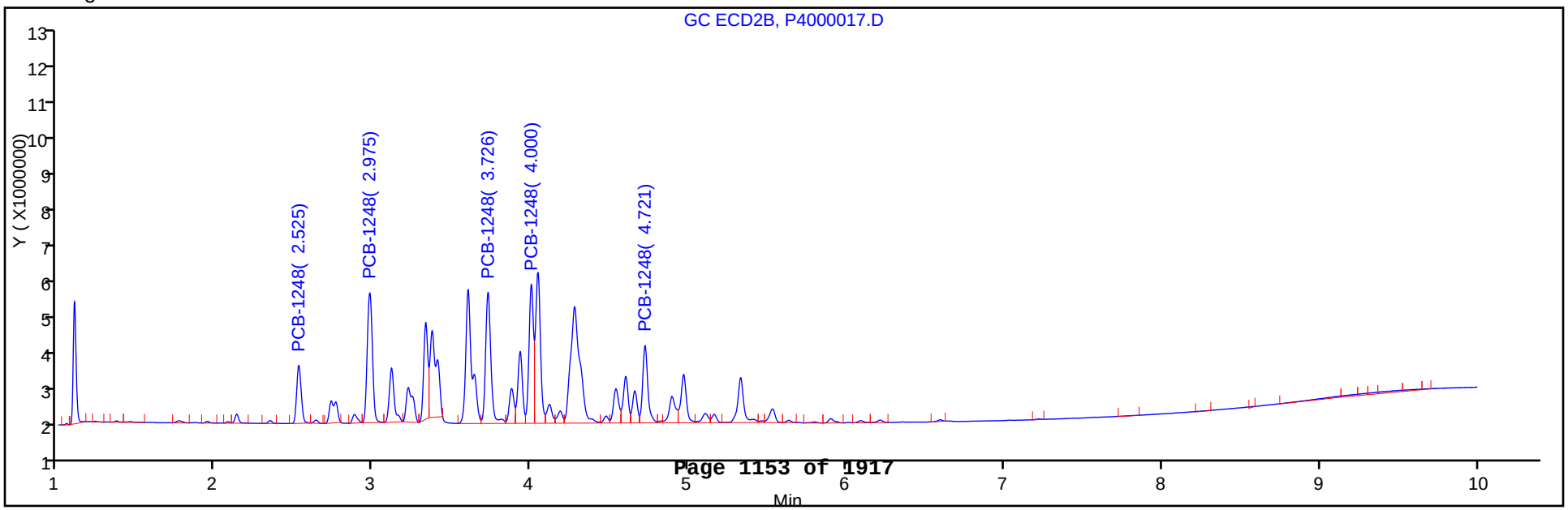
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000017.D

Injection Date:	23-Jan-2013 15:02:39	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	17
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000018.D
Lims ID: STD05 1248 Client ID:
Inject. Date: 23-Jan-2013 15:18:19 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0016796-018
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 18
Lims Batch ID: 72953 Lims Sample ID: 18
Sublist: chrom-PCB4*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:53 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.818	1.818	0.000	8520306	0.4683		100.0	
1	2	2.209	2.207	0.002	22561642	0.4817	231.7- 281.7	264.8	
1	3	2.709	2.708	0.001	24530758	0.4652	255.5- 305.5	287.9	
1	4	3.286	3.286	0.000	12575177	0.4707	114.8- 164.8	147.6	
1	5	3.719	3.719	0.000	11812013	0.4793	108.6- 158.6	138.6	
			Average of Peak Amounts =			0.4731			
2	6	2.526	2.525	0.001	7290752	0.4669		100.0	
2	7	2.976	2.977	-0.001	19281187	0.4694	225.5- 285.5	264.5	
2	8	3.726	3.725	0.001	19422301	0.4697	235.9- 295.9	266.4	
2	9	4.000	3.999	0.001	18002575	0.4804	207.4- 267.4	246.9	
2	10	4.722	4.723	-0.001	11409134	0.4794	121.0- 181.0	156.5	
			Average of Peak Amounts =			0.4732			
						RPD = 0.02			

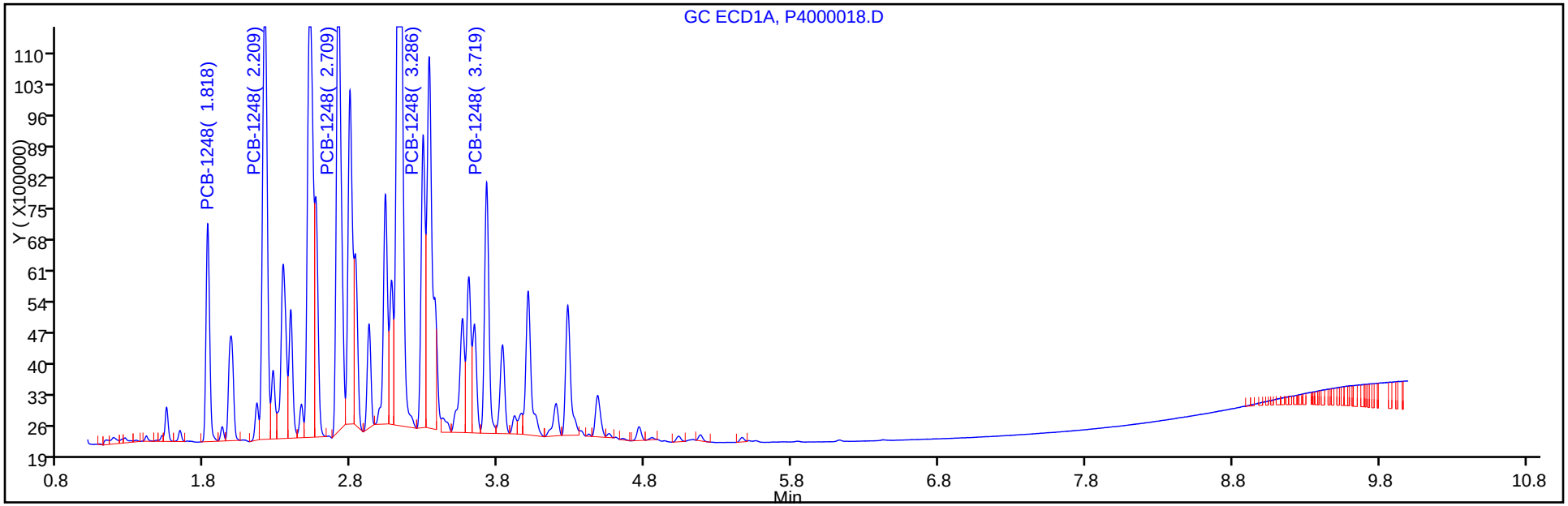
Report Date: 24-Jan-2013 07:49:54 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

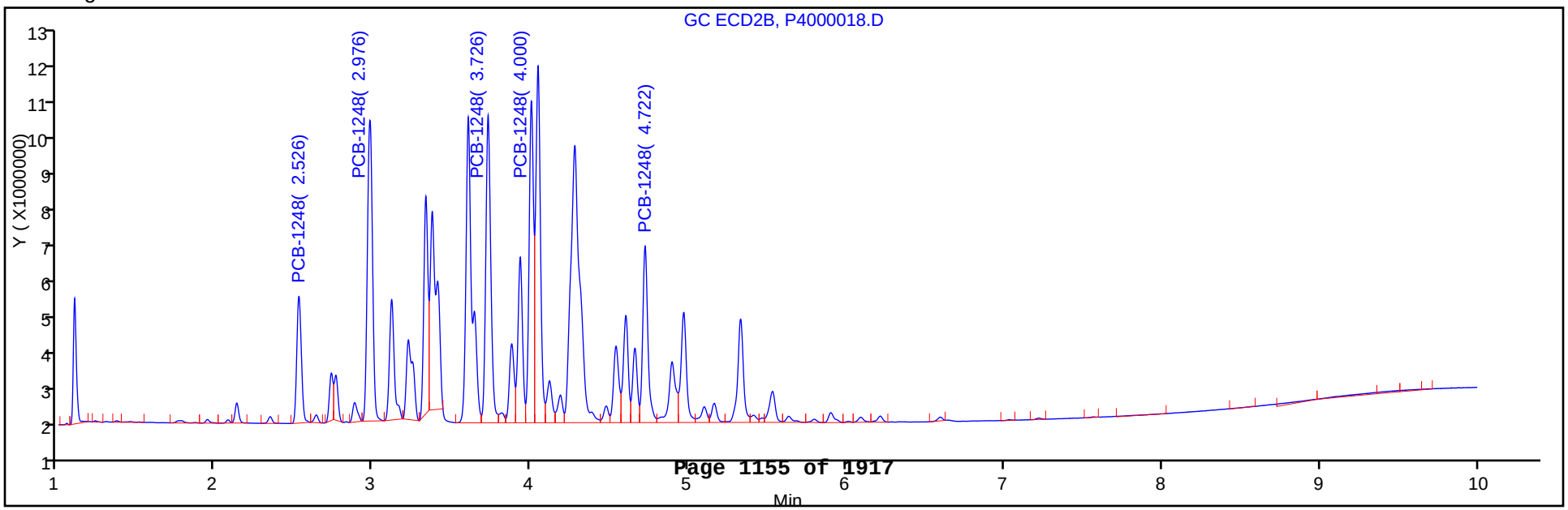
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000018.D

Injection Date:	23-Jan-2013 15:18:19	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	18
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000019.D
Lims ID: STD1 1248 Client ID:
Inject. Date: 23-Jan-2013 15:33:59 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0016796-019
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 19
Lims Batch ID: 72953 Lims Sample ID: 19
Sublist: chrom-PCB4*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:51 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.818	1.818	0.000	16008992	0.8798		100.0	
1	2	2.208	2.207	0.001	44293622	0.9457	231.7- 281.7	276.7	
1	3	2.708	2.708	0.000	48711533	0.9238	255.5- 305.5	304.3	
1	4	3.286	3.286	0.000	25766846	0.9646	114.8- 164.8	161.0	
1	5	3.719	3.719	0.000	23456362	0.9519	108.6- 158.6	146.5	
			Average of Peak Amounts =			0.9332			
2	6	2.526	2.525	0.001	13937177	0.8925		100.0	
2	7	2.975	2.977	-0.002	38940134	0.9479	225.5- 285.5	279.4	
2	8	3.725	3.725	0.000	38134942	0.9223	235.9- 295.9	273.6	
2	9	4.000	3.999	0.001	35366333	0.9438	207.4- 267.4	253.8	
2	10	4.721	4.723	-0.002	22604084	0.9498	121.0- 181.0	162.2	
			Average of Peak Amounts =			0.9313			
						RPD = 0.20			

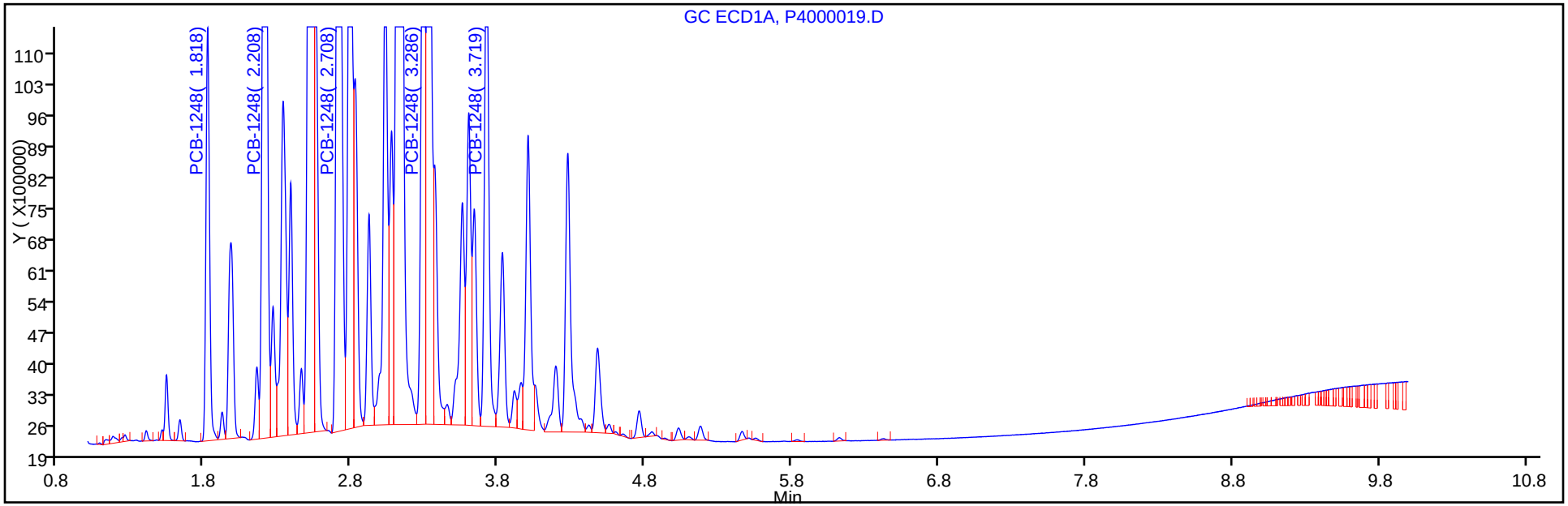
Report Date: 24-Jan-2013 07:49:52 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

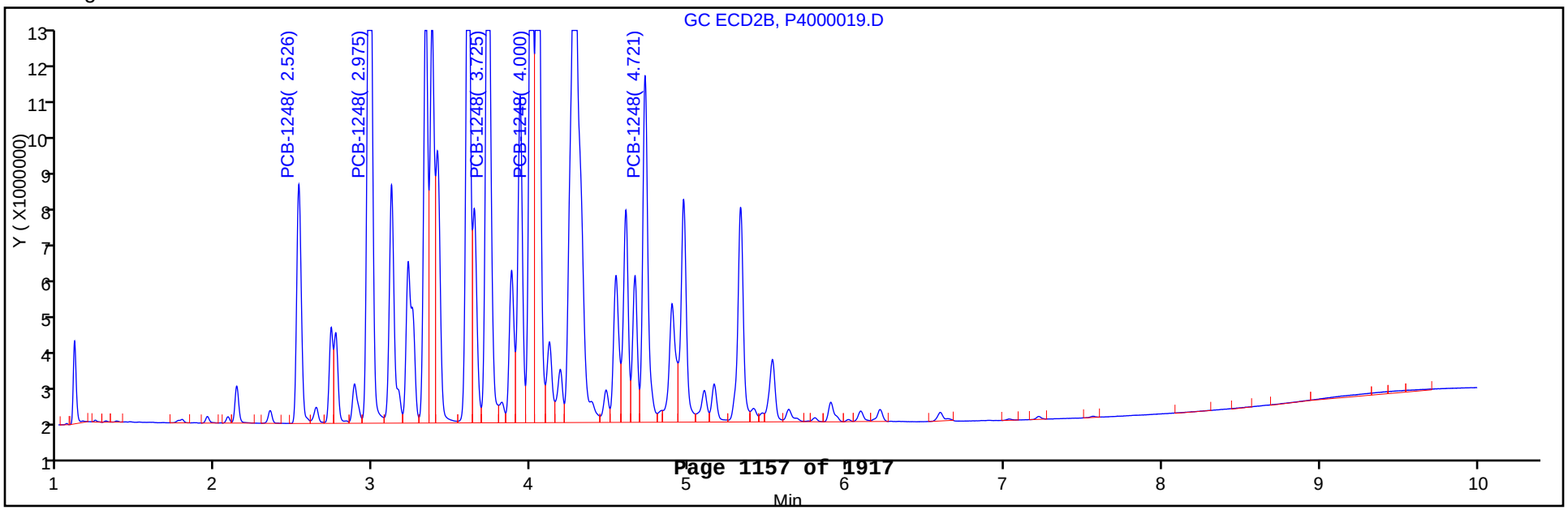
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000019.D

Injection Date:	23-Jan-2013 15:33:59	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	19
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000020.D
Lims ID: STD2 1248 Client ID:
Inject. Date: 23-Jan-2013 15:49:39 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0016796-020
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 20
Lims Batch ID: 72953 Lims Sample ID: 20
Sublist: chrom-PCB4*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:50 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.817	1.818	-0.001	30356442	1.67		100.0	
1	2	2.207	2.207	0.000	86704995	1.85	231.7- 281.7	285.6	
1	3	2.709	2.708	0.001	94637838	1.79	255.5- 305.5	311.8	
1	4	3.286	3.286	0.000	51895698	1.94	114.8- 164.8	171.0	
1	5	3.720	3.719	0.001	45973694	1.87	108.6- 158.6	151.4	
			Average of Peak Amounts =			1.82			
2	6	2.525	2.525	0.000	26562605	1.70		100.0	
2	7	2.976	2.977	-0.001	77051831	1.88	225.5- 285.5	290.1	
2	8	3.726	3.725	0.001	75122732	1.82	235.9- 295.9	282.8	
2	9	4.000	3.999	0.001	69442054	1.85	207.4- 267.4	261.4	
2	10	4.721	4.723	-0.002	44024656	1.85	121.0- 181.0	165.7	
			Average of Peak Amounts =			1.82			
						RPD = 0.29			

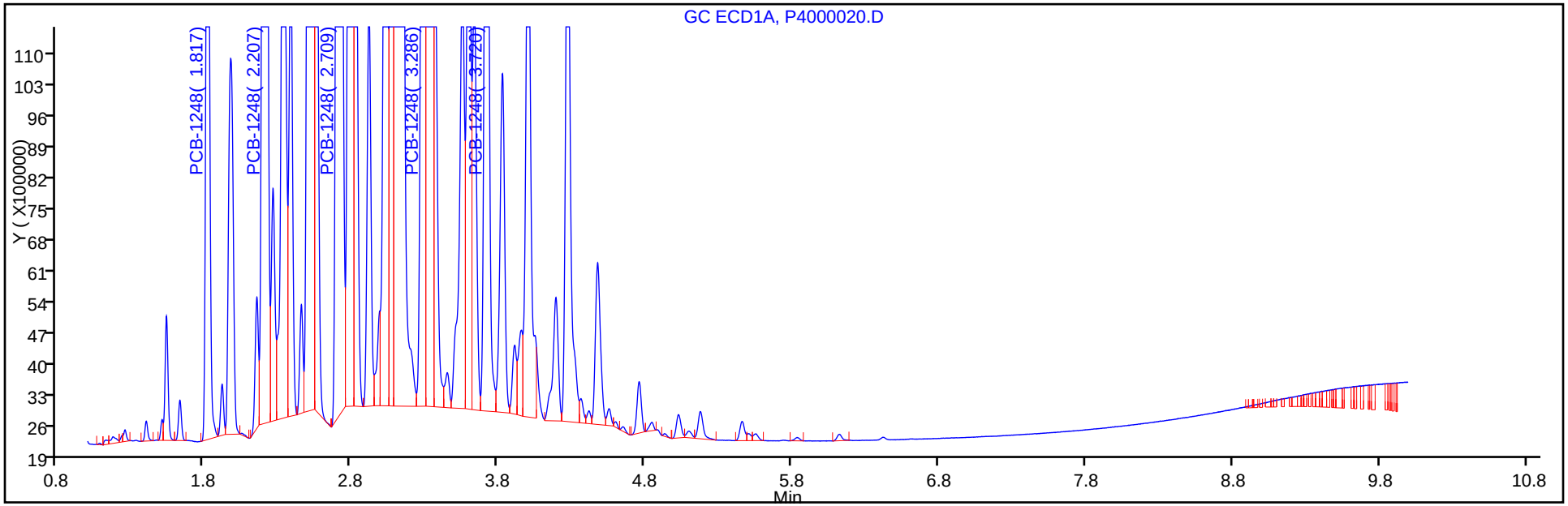
Report Date: 24-Jan-2013 07:49:50 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

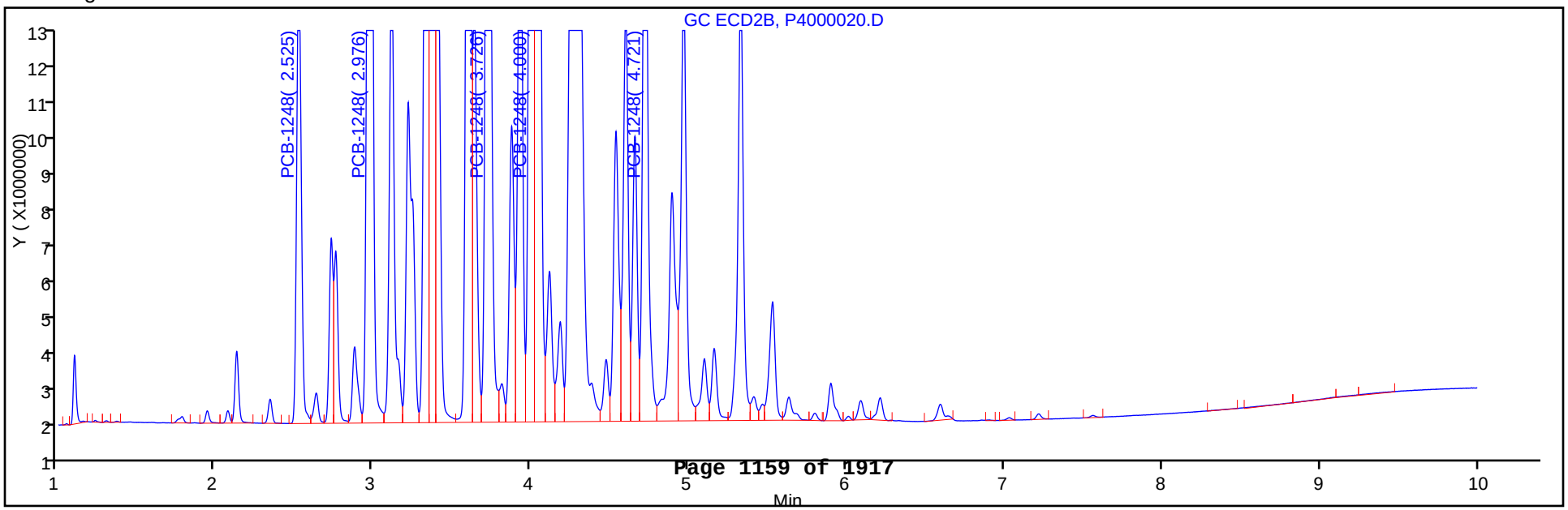
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000020.D

Injection Date:	23-Jan-2013 15:49:39	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	20
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 16:05 Calibration End Date: 01/23/2013 17:23 Calibration ID: 13423

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/21	P4000021.D
Level 2	STD01 240-72953/22	P4000022.D
Level 3	STD02 240-72953/23	P4000023.D
Level 4	STD05 240-72953/24	P4000024.D
Level 5	STD1 240-72953/25	P4000025.D
Level 6	STD2 240-72953/26	P4000026.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1221 Peak 1	1.400	1.399	1.399	1.399	1.399	1.399					1.300 - 1.500	1.399
PCB-1221 Peak 2	1.508	1.507	1.508	1.508	1.507	1.507					1.408 - 1.608	1.508
PCB-1221 Peak 3	1.537	1.537	1.537	1.538	1.537	1.537					1.437 - 1.637	1.537
PCB-1254 Peak 1	3.334	3.333	3.333	3.333	3.332	3.333					3.234 - 3.434	3.333
PCB-1254 Peak 2	3.720	3.718	3.719	3.719	3.719	3.718					3.620 - 3.820	3.719
PCB-1254 Peak 3	4.002	4.002	4.002	4.002	4.002	4.002					3.902 - 4.102	4.002
PCB-1254 Peak 4	4.193	4.192	4.193	4.192	4.192	4.192					4.093 - 4.293	4.192
PCB-1254 Peak 5	4.476	4.475	4.475	4.475	4.476	4.476					4.376 - 4.576	4.476

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 16:05 Calibration End Date: 01/23/2013 17:23 Calibration ID: 13423

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/21	P4000021.D
Level 2	STD01 240-72953/22	P4000022.D
Level 3	STD02 240-72953/23	P4000023.D
Level 4	STD05 240-72953/24	P4000024.D
Level 5	STD1 240-72953/25	P4000025.D
Level 6	STD2 240-72953/26	P4000026.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 6	LVL 3	LVL 4		B	M1	M2								
PCB-1221 Peak 1	15671580 12432699	14394860 12058051	14397315	12911706	Ave		13644368.5				10.0		20.0			
PCB-1221 Peak 2	9233080 6736724	8824060 6636306	7982425	7305936	Ave		7786421.75				14.0		20.0			
PCB-1221 Peak 3	39365080 30560336	35781520 29174951	33955780	31818840	Ave		33442751.1				11.0		20.0			
PCB-1254 Peak 1	84849160 74545543	77896850 74068205	77109535	75769764	Ave		77373176.2				5.1		20.0			
PCB-1254 Peak 2	89308360 76045301	84915550 76559185	82239440	76616530	Ave		80947394.3				6.8		20.0			
PCB-1254 Peak 3	56960980 59368622	57019530 60005903	56616820	58398556	Ave		58061735.3				2.4		20.0			
PCB-1254 Peak 4	59759120 51014165	54477020 51162280	52182860	51748440	Ave		53390647.4				6.3		20.0			
PCB-1254 Peak 5	86425360 76226492	78136180 77626004	76148645	76236504	Ave		78466530.8				5.1		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 16:05 Calibration End Date: 01/23/2013 17:23 Calibration ID: 13423

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/21	P4000021.D
Level 2	STD01 240-72953/22	P4000022.D
Level 3	STD02 240-72953/23	P4000023.D
Level 4	STD05 240-72953/24	P4000024.D
Level 5	STD1 240-72953/25	P4000025.D
Level 6	STD2 240-72953/26	P4000026.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	Ave	783579 24116102	1439486	2879463	6455853	12432699	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1221 Peak 2	Ave	461654 13272611	882406	1596485	3652968	6736724	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1221 Peak 3	Ave	1968254 58349901	3578152	6791156	15909420	30560336	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 1	Ave	4242458 148136410	7789685	15421907	37884882	74545543	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 2	Ave	4465418 153118369	8491555	16447888	38308265	76045301	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 3	Ave	2848049 120011807	5701953	11323364	29199278	59368622	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 4	Ave	2987956 102324559	5447702	10436572	25874220	51014165	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 5	Ave	4321268 155252007	7813618	15229729	38118252	76226492	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000021.D
Lims ID: STD005 AR2154 Client ID:
Inject. Date: 23-Jan-2013 16:05:25 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0016796-021
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 21
Lims Batch ID: 72953 Lims Sample ID: 21
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:47 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

First Level Reviewer: hassl Date: 24-Jan-2013 07:37:59

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									M
1	2	1.400	1.400	0.000	783579	0.0574		100.0	
1	3	1.508	1.508	0.000	461654	0.0593	30.4- 80.4	58.9	
1	4	1.537	1.537	0.000	1968254	0.0589	210.8- 260.8	251.2	
			Average of Peak Amounts =			0.0585			
2	4	1.945	1.945	0.000	702873	0.0614		100.0	
2	5	2.075	2.075	0.000	463112	0.0610	36.5- 96.5	65.9	M
2	6	2.132	2.132	0.000	1655429	0.0601	208.4- 268.4	235.5	M
			Average of Peak Amounts =			0.0608			
						RPD = 3.88			
8 PCB-1254									
1	100	3.334	3.334	0.000	4242458	0.0548		100.0	
1	2	3.720	3.720	0.000	4465418	0.0552	81.7- 131.7	105.3	
1	3	4.002	4.002	0.000	2848049	0.0491	48.4- 98.4	67.1	
1	4	4.193	4.193	0.000	2987956	0.0560	42.7- 92.7	70.4	
1	5	4.476	4.476	0.000	4321268	0.0551	73.8- 123.8	101.9	
			Average of Peak Amounts =			0.0540			
2	6	4.245	4.245	0.000	2706450	0.0578		100.0	
2	7	4.721	4.721	0.000	4135692	0.0566	125.3- 185.3	152.8	
2	8	4.966	4.966	0.000	2657507	0.0557	72.4- 132.4	98.2	
2	9	5.326	5.326	0.000	3122650	0.0572	85.8- 145.8	115.4	
2	10	5.530	5.530	0.000	3800782	0.0560	115.2- 175.2	140.4	
			Average of Peak Amounts =			0.0567			
						RPD = 4.78			

QC Flag Legend

Review Flags
M - Manually Integrated

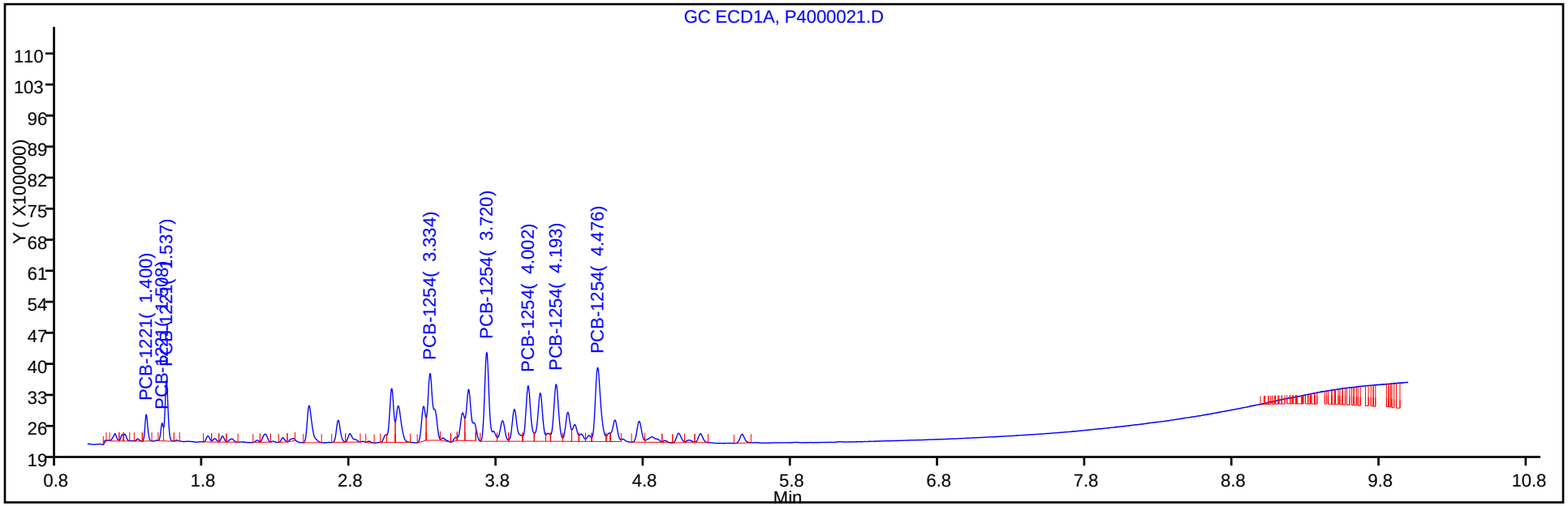
Report Date: 24-Jan-2013 07:49:48 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

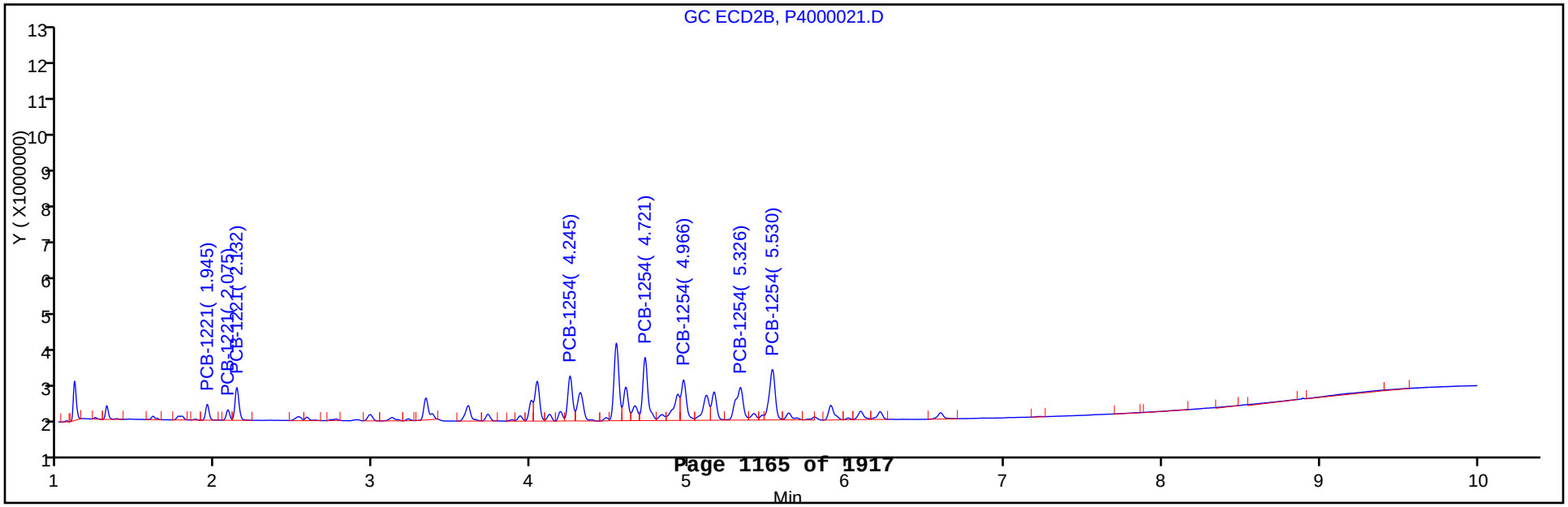
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000021.D

Injection Date:	23-Jan-2013 16:05:25	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	21
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000022.D
Lims ID: STD01 AR2154 Client ID:
Inject. Date: 23-Jan-2013 16:21:05 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0016796-022
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 22
Lims Batch ID: 72953 Lims Sample ID: 22
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:45 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

First Level Reviewer: hassl Date: 24-Jan-2013 07:39:24

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									M
1	2	1.399	1.400	-0.001	1439486	0.1055		100.0	M
1	3	1.507	1.508	-0.001	882406	0.1133	30.4- 80.4	61.3	
1	4	1.537	1.537	0.000	3578152	0.1070	210.8- 260.8	248.6	
			Average of Peak Amounts =			0.1086			
2	4	1.945	1.945	0.000	1205766	0.1054		100.0	M
2	5	2.075	2.075	0.000	826205	0.1087	36.5- 96.5	68.5	
2	6	2.132	2.132	0.000	2989528	0.1086	208.4- 268.4	247.9	
			Average of Peak Amounts =			0.1076			
						RPD = 0.95			
8 PCB-1254									
1	100	3.333	3.334	-0.001	7789685	0.1007		100.0	
1	2	3.718	3.720	-0.002	8491555	0.1049	81.7- 131.7	109.0	
1	3	4.002	4.002	0.000	5701953	0.0982	48.4- 98.4	73.2	
1	4	4.192	4.193	-0.001	5447702	0.1020	42.7- 92.7	69.9	
1	5	4.475	4.476	-0.001	7813618	0.0996	73.8- 123.8	100.3	
			Average of Peak Amounts =			0.1011			
2	6	4.246	4.245	0.001	4950218	0.1057		100.0	
2	7	4.722	4.721	0.001	7492080	0.1026	125.3- 185.3	151.3	
2	8	4.966	4.966	0.000	4738200	0.0994	72.4- 132.4	95.7	
2	9	5.326	5.326	0.000	5526031	0.1012	85.8- 145.8	111.6	
2	10	5.530	5.530	0.000	6840737	0.1008	115.2- 175.2	138.2	
			Average of Peak Amounts =			0.1019			
						RPD = 0.83			

QC Flag Legend

Review Flags
M - Manually Integrated

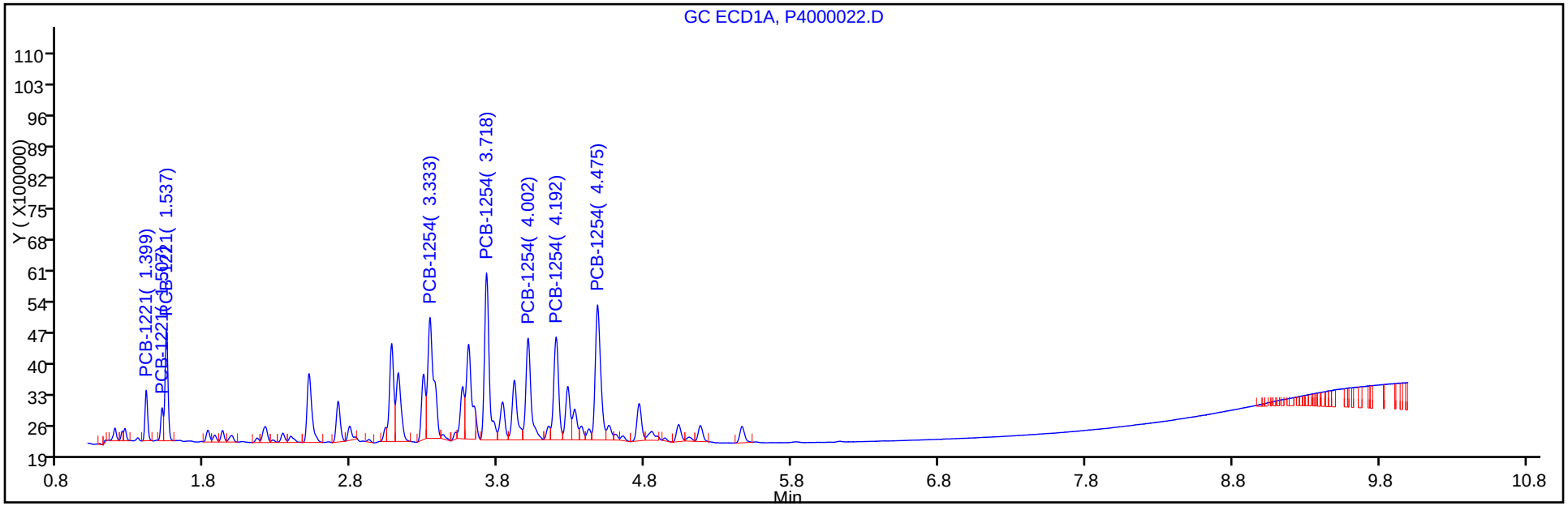
Report Date: 24-Jan-2013 07:49:46 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

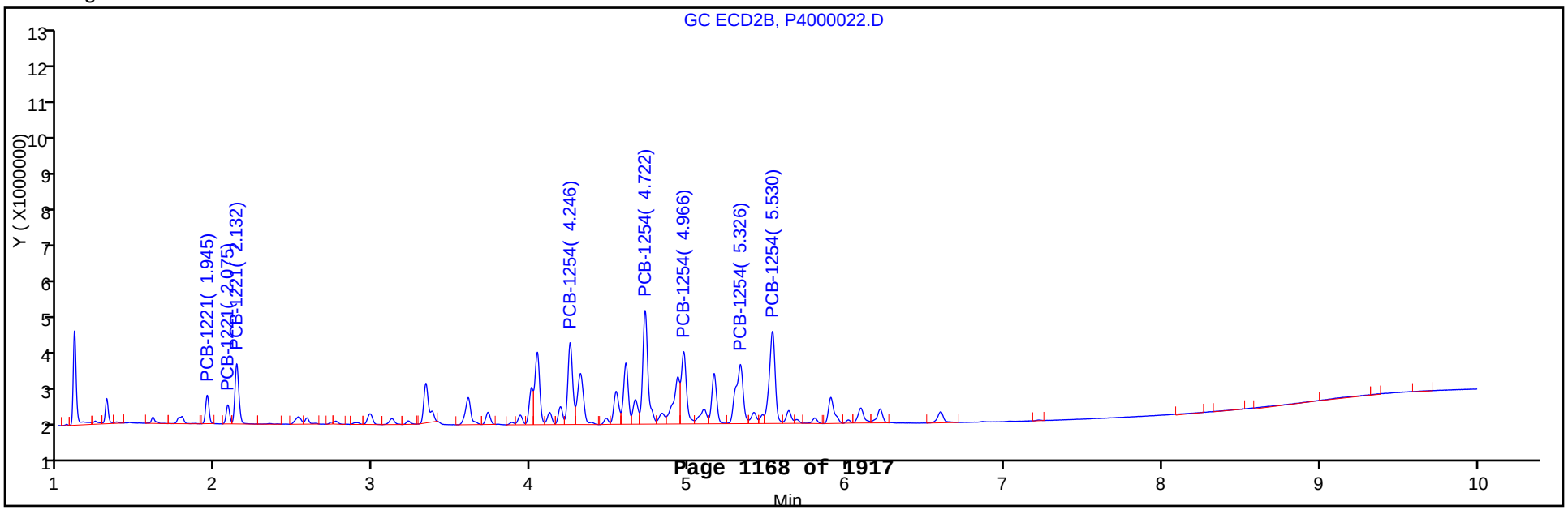
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000022.D

Injection Date:	23-Jan-2013 16:21:05	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	22
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



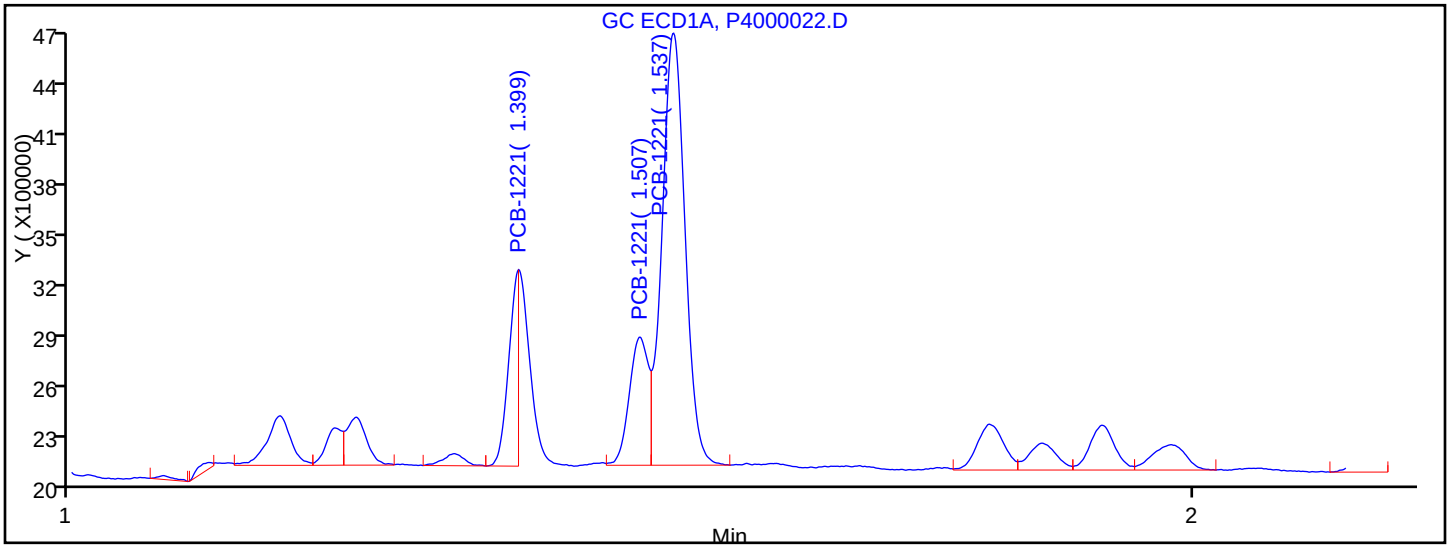
Report Date: 24-Jan-2013 07:49:46 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000022.D

Injection Date:	23-Jan-2013 16:21:05	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	22
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

3 PCB-1221, Detector: 1, GC ECD1A

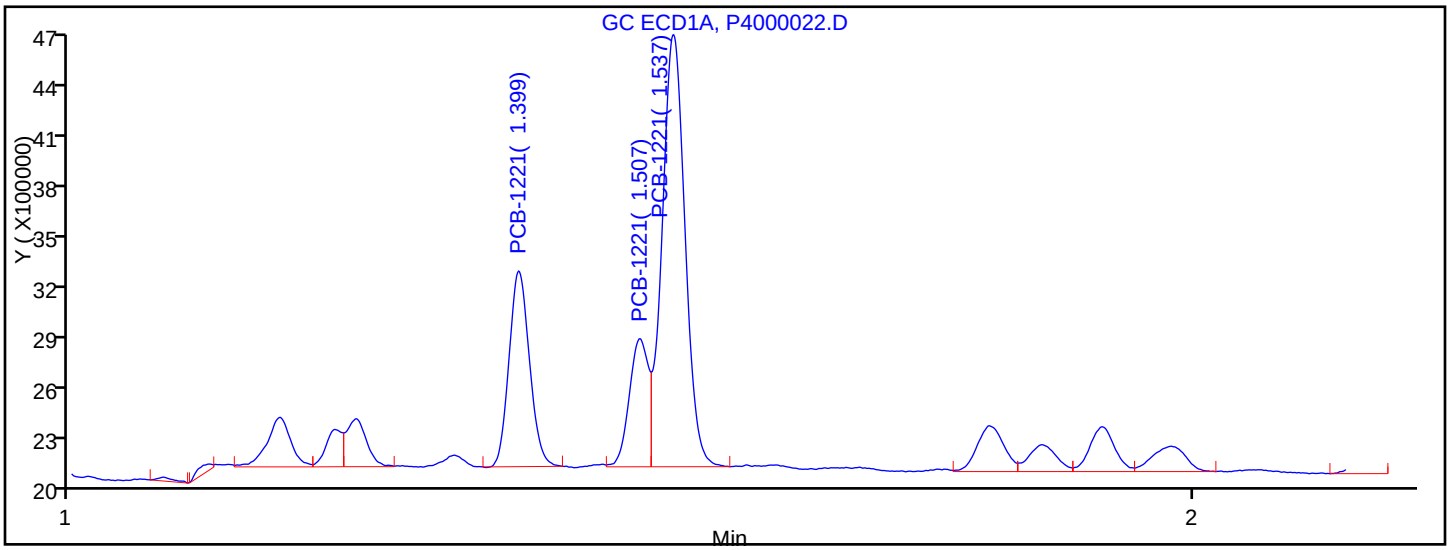


Processing Integration Results

RT = 1.399 Response = 664700 M

RT = 1.507 Response = 882406

RT = 1.537 Response = 3578152



Manual Integration Results

RT = 1.399 Response = 1439486 M

RT = 1.507 Response = 882406

RT = 1.537 Response = 3578152

Reviewer: hassl, 24-Jan-2013 07:40:52

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000023.D
Lims ID: STD02 AR2154 Client ID:
Inject. Date: 23-Jan-2013 16:36:46 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0016796-023
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 23
Lims Batch ID: 72953 Lims Sample ID: 23
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:43 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

First Level Reviewer: hassl Date: 24-Jan-2013 07:39:48

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.399	1.400	-0.001	2879463	0.2110		100.0	
1	3	1.508	1.508	0.000	1596485	0.2050	30.4- 80.4	55.4	
1	4	1.537	1.537	0.000	6791156	0.2031	210.8- 260.8	235.8	
			Average of Peak Amounts =			0.2064			
2	4	1.945	1.945	0.000	2317860	0.2026		100.0	
2	5	2.076	2.075	0.001	1542389	0.2030	36.5- 96.5	66.5	
2	6	2.132	2.132	0.000	5525818	0.2007	208.4- 268.4	238.4	
			Average of Peak Amounts =			0.2021			
						RPD = 2.09			
8 PCB-1254									
1	100	3.333	3.334	-0.001	15421907	0.1993		100.0	
1	2	3.719	3.720	-0.001	16447888	0.2032	81.7- 131.7	106.7	
1	3	4.002	4.002	0.000	11323364	0.1950	48.4- 98.4	73.4	
1	4	4.193	4.193	0.000	10436572	0.1955	42.7- 92.7	67.7	
1	5	4.475	4.476	-0.001	15229729	0.1941	73.8- 123.8	98.8	
			Average of Peak Amounts =			0.1974			
2	6	4.247	4.245	0.002	9303411	0.1987		100.0	
2	7	4.722	4.721	0.001	14448158	0.1978	125.3- 185.3	155.3	
2	8	4.968	4.966	0.002	9522384	0.1997	72.4- 132.4	102.4	
2	9	5.328	5.326	0.002	10770806	0.1972	85.8- 145.8	115.8	
2	10	5.530	5.530	0.000	13509378	0.1991	115.2- 175.2	145.2	
			Average of Peak Amounts =			0.1985			
						RPD = 0.54			

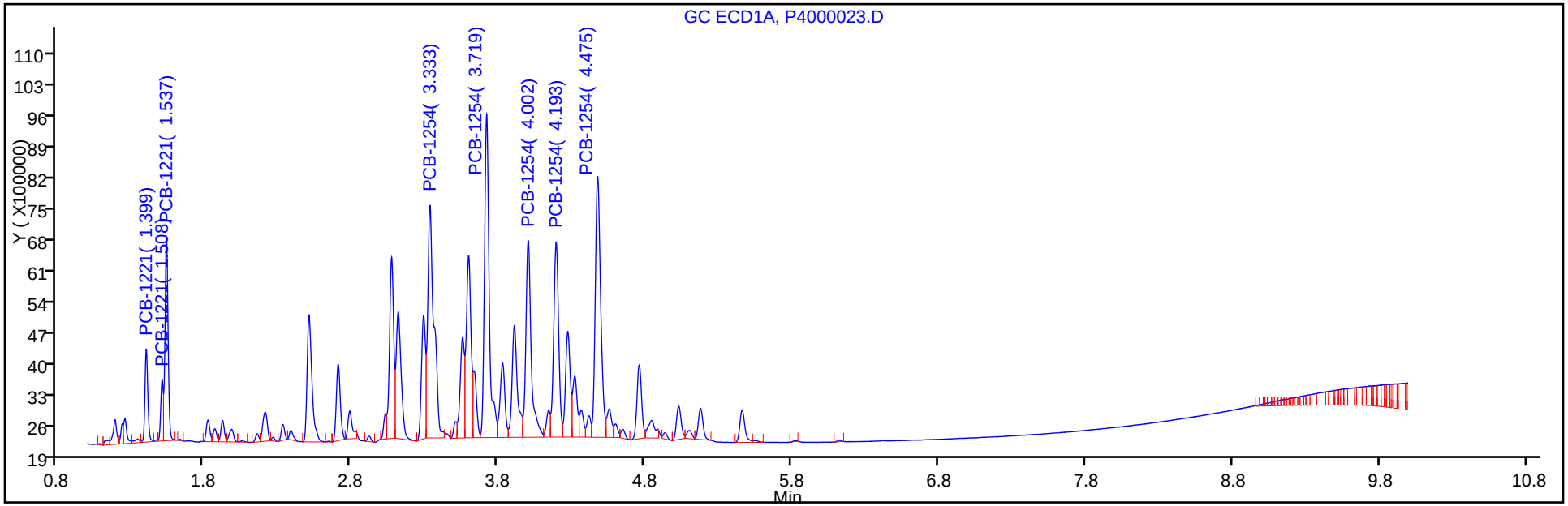
Report Date: 24-Jan-2013 07:49:44 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

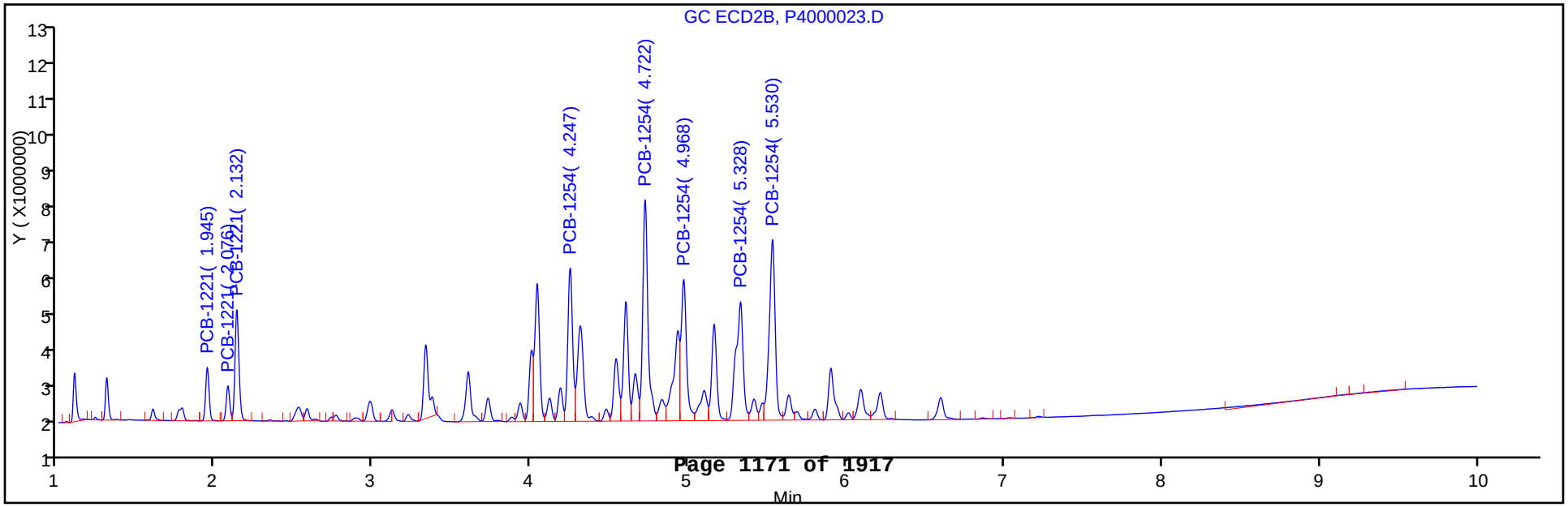
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000023.D

Injection Date:	23-Jan-2013 16:36:46	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	23
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000024.D
Lims ID: STD05 AR2154 Client ID:
Inject. Date: 23-Jan-2013 16:52:26 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0016796-024
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 24
Lims Batch ID: 72953 Lims Sample ID: 24
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:41 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

First Level Reviewer: hassl Date: 24-Jan-2013 07:40:01

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.399	1.400	-0.001	6455853	0.4732		100.0	
1	3	1.508	1.508	0.000	3652968	0.4691	30.4- 80.4	56.6	
1	4	1.538	1.537	0.001	15909420	0.4757	210.8- 260.8	246.4	
			Average of Peak Amounts =			0.4727			
2	4	1.945	1.945	0.000	5354538	0.4681		100.0	
2	5	2.076	2.075	0.001	3581077	0.4713	36.5- 96.5	66.9	
2	6	2.133	2.132	0.001	12932194	0.4697	208.4- 268.4	241.5	
			Average of Peak Amounts =			0.4697			
						RPD = 0.63			
8 PCB-1254									
1	100	3.333	3.334	-0.001	37884882	0.4896		100.0	
1	2	3.719	3.720	-0.001	38308265	0.4732	81.7- 131.7	101.1	
1	3	4.002	4.002	0.000	29199278	0.5029	48.4- 98.4	77.1	
1	4	4.192	4.193	-0.001	25874220	0.4846	42.7- 92.7	68.3	
1	5	4.475	4.476	-0.001	38118252	0.4858	73.8- 123.8	100.6	
			Average of Peak Amounts =			0.4872			
2	6	4.247	4.245	0.002	21942321	0.4687		100.0	
2	7	4.722	4.721	0.001	34759592	0.4758	125.3- 185.3	158.4	
2	8	4.966	4.966	0.000	22847762	0.4791	72.4- 132.4	104.1	
2	9	5.326	5.326	0.000	25760313	0.4715	85.8- 145.8	117.4	
2	10	5.529	5.530	-0.001	32308400	0.4761	115.2- 175.2	147.2	
			Average of Peak Amounts =			0.4742			
						RPD = 2.70			

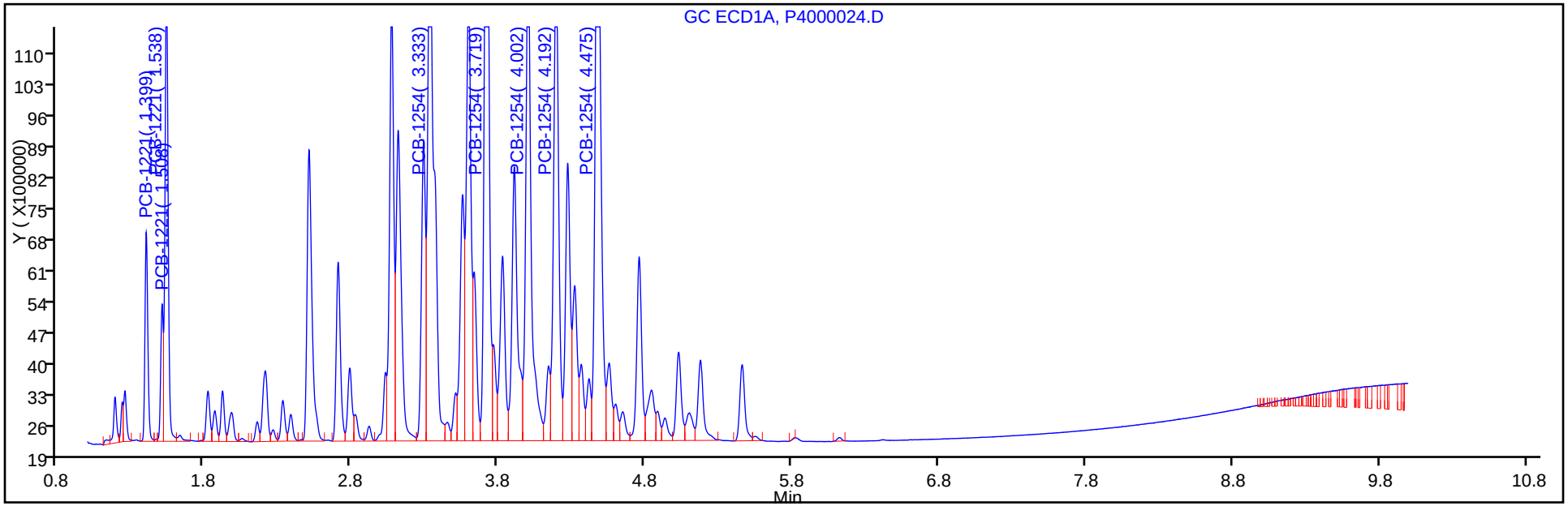
Report Date: 24-Jan-2013 07:49:42 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

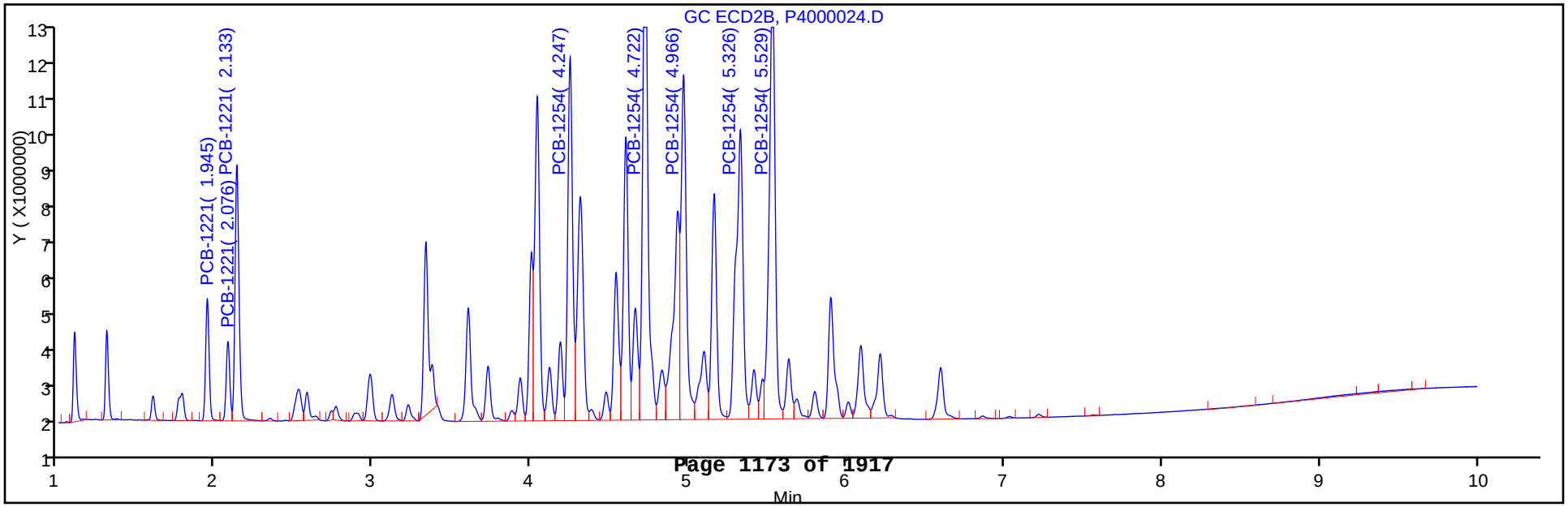
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000024.D

Injection Date:	23-Jan-2013 16:52:26	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	24
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000025.D
Lims ID: STD1 AR2154 Client ID:
Inject. Date: 23-Jan-2013 17:08:15 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0016796-025
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 25
Lims Batch ID: 72953 Lims Sample ID: 25
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:39 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

First Level Reviewer: hassl Date: 24-Jan-2013 07:40:11

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.399	1.400	-0.001	12432699	0.9112		100.0	
1	3	1.507	1.508	-0.001	6736724	0.8652	30.4- 80.4	54.2	
1	4	1.537	1.537	0.000	30560336	0.9138	210.8- 260.8	245.8	
			Average of Peak Amounts =			0.8967			
2	4	1.945	1.945	0.000	10225842	0.8939		100.0	
2	5	2.076	2.075	0.001	6724966	0.8851	36.5- 96.5	65.8	
2	6	2.132	2.132	0.000	24753439	0.8990	208.4- 268.4	242.1	
			Average of Peak Amounts =			0.8927			
						RPD = 0.45			
8 PCB-1254									
1	100	3.332	3.334	-0.002	74545543	0.9635		100.0	
1	2	3.719	3.720	-0.001	76045301	0.9394	81.7- 131.7	102.0	
1	3	4.002	4.002	0.000	59368622	1.02	48.4- 98.4	79.6	
1	4	4.192	4.193	-0.001	51014165	0.9555	42.7- 92.7	68.4	
1	5	4.476	4.476	0.000	76226492	0.9715	73.8- 123.8	102.3	
			Average of Peak Amounts =			0.9705			
2	6	4.247	4.245	0.002	43266335	0.9242		100.0	
2	7	4.722	4.721	0.001	68828811	0.9422	125.3- 185.3	159.1	
2	8	4.967	4.966	0.001	45014397	0.9439	72.4- 132.4	104.0	
2	9	5.327	5.326	0.001	51143241	0.9362	85.8- 145.8	118.2	
2	10	5.529	5.530	-0.001	64359606	0.9483	115.2- 175.2	148.8	
			Average of Peak Amounts =			0.9390			
						RPD = 3.30			

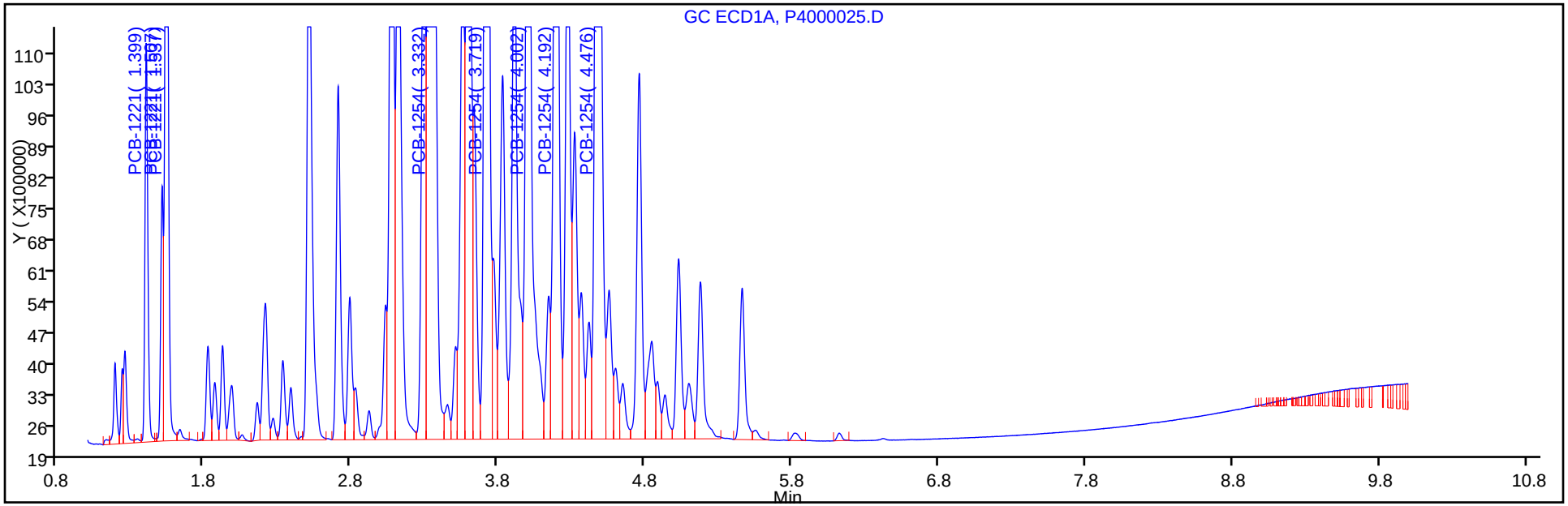
Report Date: 24-Jan-2013 07:49:40 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

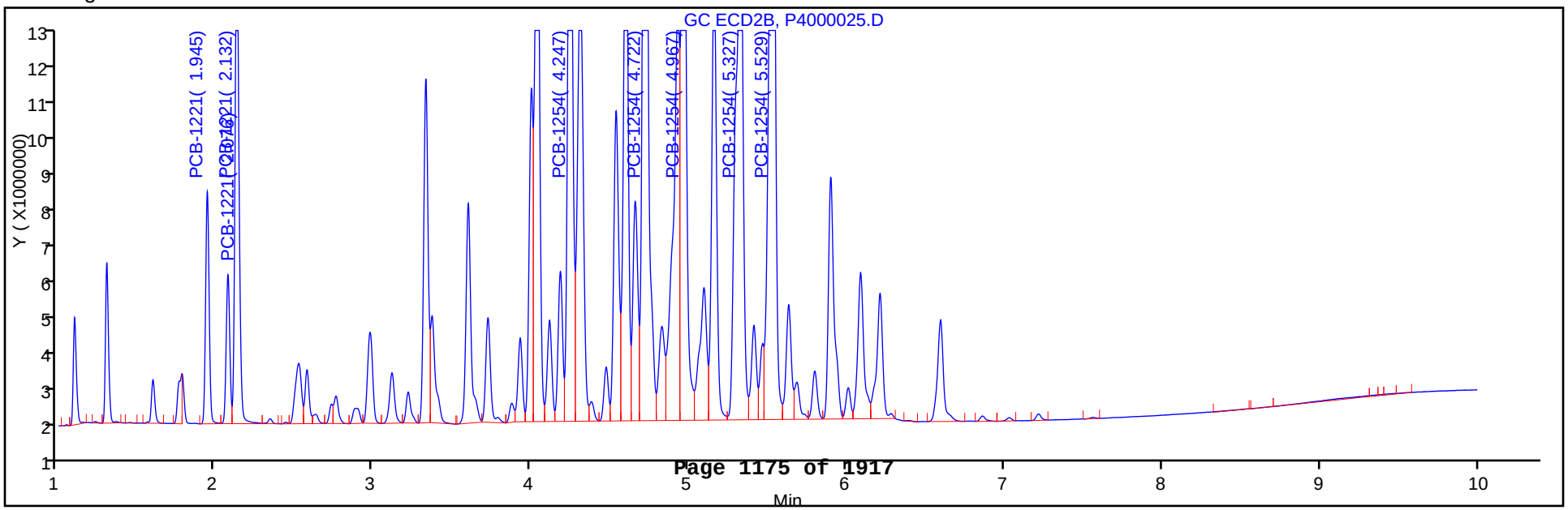
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000025.D

Injection Date:	23-Jan-2013 17:08:15	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	25
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000026.D
Lims ID: STD2 AR2154 Client ID:
Inject. Date: 23-Jan-2013 17:23:57 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0016796-026
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 26
Lims Batch ID: 72953 Lims Sample ID: 26
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:37 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

First Level Reviewer: hassl Date: 24-Jan-2013 07:40:21

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.399	1.400	-0.001	24116102	1.77		100.0	
1	3	1.507	1.508	-0.001	13272611	1.70	30.4- 80.4	55.0	
1	4	1.537	1.537	0.000	58349901	1.74	210.8- 260.8	242.0	
			Average of Peak Amounts =			1.74			
2	4	1.945	1.945	0.000	19996841	1.75		100.0	
2	5	2.076	2.075	0.001	12924102	1.70	36.5- 96.5	64.6	
2	6	2.132	2.132	0.000	47906616	1.74	208.4- 268.4	239.6	
			Average of Peak Amounts =			1.73			
						RPD = 0.53			
8 PCB-1254									
1	100	3.333	3.334	-0.001	148136410	1.91		100.0	
1	2	3.718	3.720	-0.002	153118369	1.89	81.7- 131.7	103.4	
1	3	4.002	4.002	0.000	120011807	2.07	48.4- 98.4	81.0	
1	4	4.192	4.193	-0.001	102324559	1.92	42.7- 92.7	69.1	
1	5	4.476	4.476	0.000	155252007	1.98	73.8- 123.8	104.8	
			Average of Peak Amounts =			1.95			
2	6	4.246	4.245	0.001	87185334	1.86		100.0	
2	7	4.722	4.721	0.001	140153774	1.92	125.3- 185.3	160.8	
2	8	4.967	4.966	0.001	94572630	1.98	72.4- 132.4	108.5	
2	9	5.327	5.326	0.001	107090023	1.96	85.8- 145.8	122.8	
2	10	5.531	5.530	0.001	132515112	1.95	115.2- 175.2	152.0	
			Average of Peak Amounts =			1.94			
						RPD = 0.94			

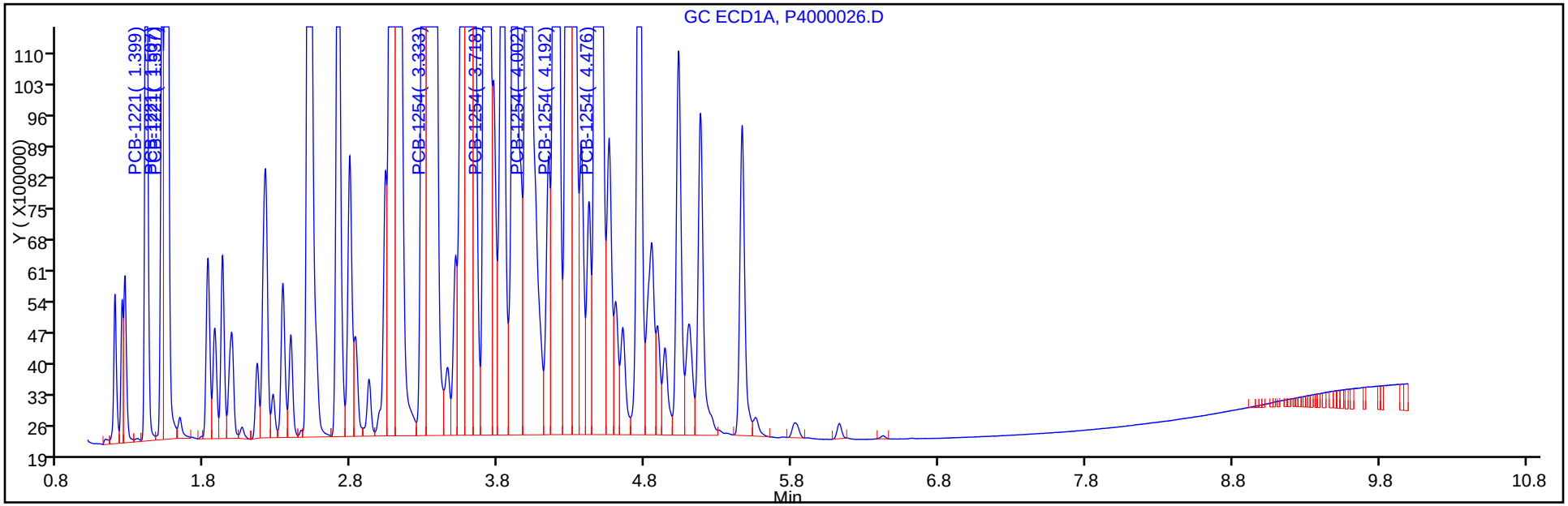
Report Date: 24-Jan-2013 07:49:38 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

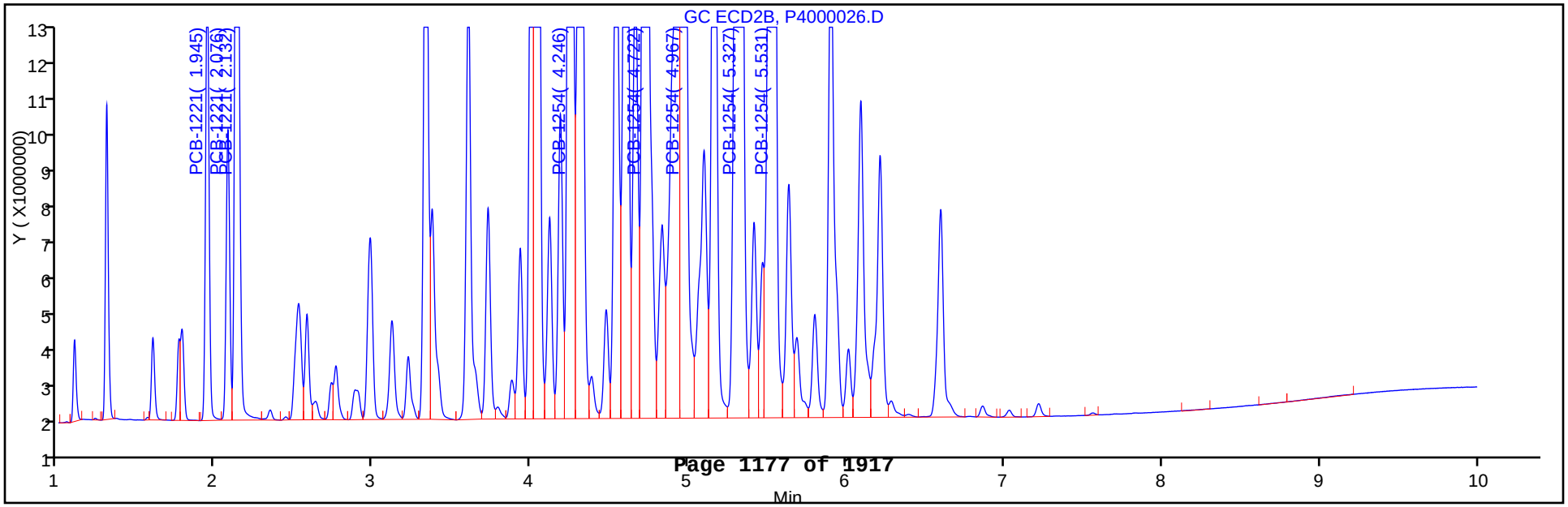
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000026.D

Injection Date:	23-Jan-2013 17:23:57	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	26
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 16:05 Calibration End Date: 01/23/2013 17:23 Calibration ID: 13424

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/21	P4000021.D
Level 2	STD01 240-72953/22	P4000022.D
Level 3	STD02 240-72953/23	P4000023.D
Level 4	STD05 240-72953/24	P4000024.D
Level 5	STD1 240-72953/25	P4000025.D
Level 6	STD2 240-72953/26	P4000026.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1221 Peak 1	1.945	1.945	1.945	1.945	1.945	1.945					1.845 - 2.045	1.945
PCB-1221 Peak 2	2.075	2.075	2.076	2.076	2.076	2.076					1.975 - 2.175	2.076
PCB-1221 Peak 3	2.132	2.132	2.132	2.133	2.132	2.132					2.032 - 2.232	2.132
PCB-1254 Peak 1	4.245	4.246	4.247	4.247	4.247	4.246					4.145 - 4.345	4.246
PCB-1254 Peak 2	4.721	4.722	4.722	4.722	4.722	4.722					4.621 - 4.821	4.722
PCB-1254 Peak 3	4.966	4.966	4.968	4.966	4.967	4.967					4.866 - 5.066	4.967
PCB-1254 Peak 4	5.326	5.326	5.328	5.326	5.327	5.327					5.226 - 5.426	5.327
PCB-1254 Peak 5	5.530	5.530	5.530	5.529	5.529	5.531					5.430 - 5.630	5.530

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 16:05 Calibration End Date: 01/23/2013 17:23 Calibration ID: 13424

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/21	P4000021.D
Level 2	STD01 240-72953/22	P4000022.D
Level 3	STD02 240-72953/23	P4000023.D
Level 4	STD05 240-72953/24	P4000024.D
Level 5	STD1 240-72953/25	P4000025.D
Level 6	STD2 240-72953/26	P4000026.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 6	LVL 3	LVL 4		B	M1	M2								
PCB-1221 Peak 1	14057460 10225842	12057660 9998421	11589300	10709076	Ave		11439626.4				13.0		20.0			
PCB-1221 Peak 2	9262240 6724966	8262050 6462051	7711945	7162154	Ave		7597567.67				14.0		20.0			
PCB-1221 Peak 3	33108580 24753439	29895280 23953308	27629090	25864388	Ave		27534014.2				13.0		20.0			
PCB-1254 Peak 1	54129000 43266335	49502180 43592667	46517055	43884642	Ave		46815313.2				9.2		20.0			
PCB-1254 Peak 2	82713840 68828811	74920800 70076887	72240790	69519184	Ave		73050052.0				7.2		20.0			
PCB-1254 Peak 3	53150140 45014397	47382000 47286315	47611920	45695524	Ave		47690049.3				6.0		20.0			
PCB-1254 Peak 4	62453000 51143241	55260310 53545011	53854030	51520626	Ave		54629369.8				7.6		20.0			
PCB-1254 Peak 5	76015640 64359606	68407370 66257556	67546890	64616800	Ave		67867310.3				6.3		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 16:05 Calibration End Date: 01/23/2013 17:23 Calibration ID: 13424

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/21	P4000021.D
Level 2	STD01 240-72953/22	P4000022.D
Level 3	STD02 240-72953/23	P4000023.D
Level 4	STD05 240-72953/24	P4000024.D
Level 5	STD1 240-72953/25	P4000025.D
Level 6	STD2 240-72953/26	P4000026.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	Ave	702873 19996841	1205766	2317860	5354538	10225842	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1221 Peak 2	Ave	463112 12924102	826205	1542389	3581077	6724966	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1221 Peak 3	Ave	1655429 47906616	2989528	5525818	12932194	24753439	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 1	Ave	2706450 87185334	4950218	9303411	21942321	43266335	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 2	Ave	4135692 140153774	7492080	14448158	34759592	68828811	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 3	Ave	2657507 94572630	4738200	9522384	22847762	45014397	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 4	Ave	3122650 107090023	5526031	10770806	25760313	51143241	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 5	Ave	3800782 132515112	6840737	13509378	32308400	64359606	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000021.D
Lims ID: STD005 AR2154 Client ID:
Inject. Date: 23-Jan-2013 16:05:25 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0016796-021
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 21
Lims Batch ID: 72953 Lims Sample ID: 21
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:47 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

First Level Reviewer: hassl Date: 24-Jan-2013 07:37:59

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									M
1	2	1.400	1.400	0.000	783579	0.0574		100.0	
1	3	1.508	1.508	0.000	461654	0.0593	30.4- 80.4	58.9	
1	4	1.537	1.537	0.000	1968254	0.0589	210.8- 260.8	251.2	
			Average of Peak Amounts =			0.0585			
2	4	1.945	1.945	0.000	702873	0.0614		100.0	
2	5	2.075	2.075	0.000	463112	0.0610	36.5- 96.5	65.9	M
2	6	2.132	2.132	0.000	1655429	0.0601	208.4- 268.4	235.5	M
			Average of Peak Amounts =			0.0608			
						RPD = 3.88			
8 PCB-1254									
1	100	3.334	3.334	0.000	4242458	0.0548		100.0	
1	2	3.720	3.720	0.000	4465418	0.0552	81.7- 131.7	105.3	
1	3	4.002	4.002	0.000	2848049	0.0491	48.4- 98.4	67.1	
1	4	4.193	4.193	0.000	2987956	0.0560	42.7- 92.7	70.4	
1	5	4.476	4.476	0.000	4321268	0.0551	73.8- 123.8	101.9	
			Average of Peak Amounts =			0.0540			
2	6	4.245	4.245	0.000	2706450	0.0578		100.0	
2	7	4.721	4.721	0.000	4135692	0.0566	125.3- 185.3	152.8	
2	8	4.966	4.966	0.000	2657507	0.0557	72.4- 132.4	98.2	
2	9	5.326	5.326	0.000	3122650	0.0572	85.8- 145.8	115.4	
2	10	5.530	5.530	0.000	3800782	0.0560	115.2- 175.2	140.4	
			Average of Peak Amounts =			0.0567			
						RPD = 4.78			

QC Flag Legend

Review Flags
M - Manually Integrated

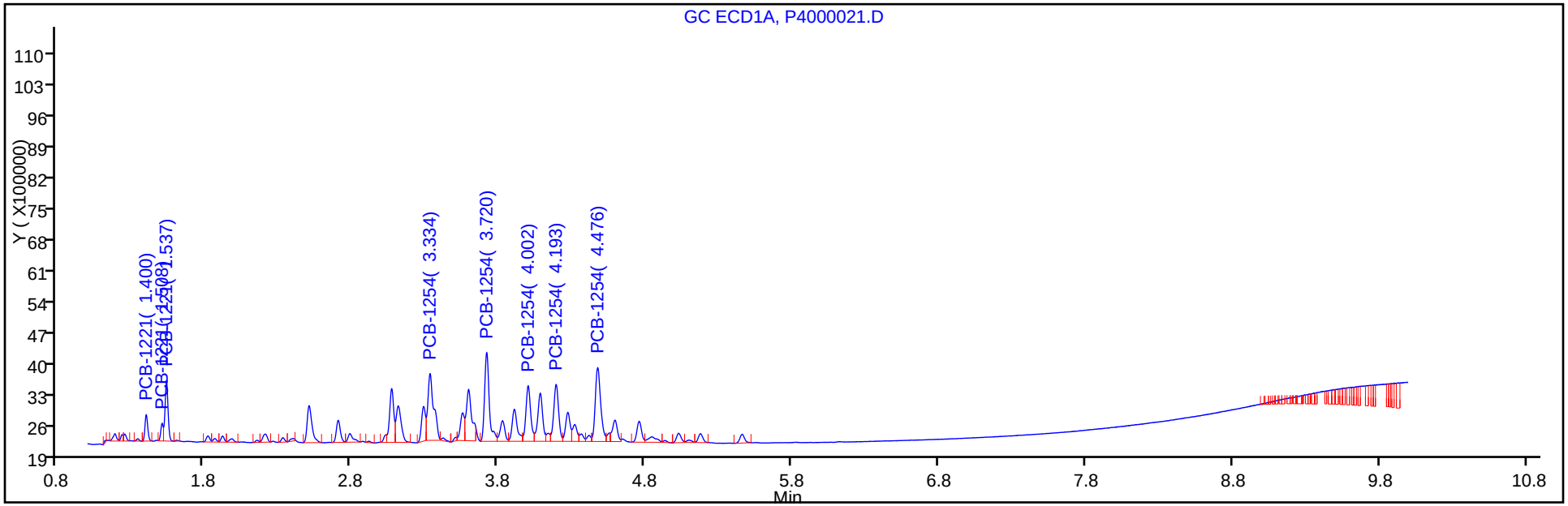
Report Date: 24-Jan-2013 07:49:48 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

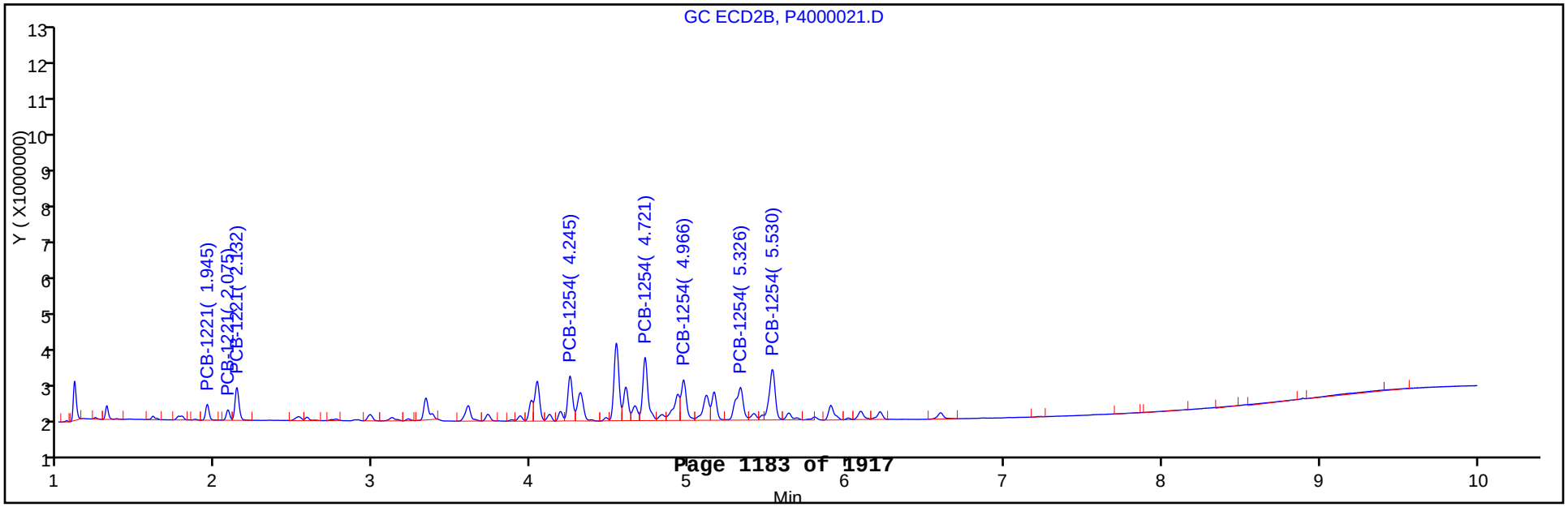
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000021.D

Injection Date:	23-Jan-2013 16:05:25	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	21
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



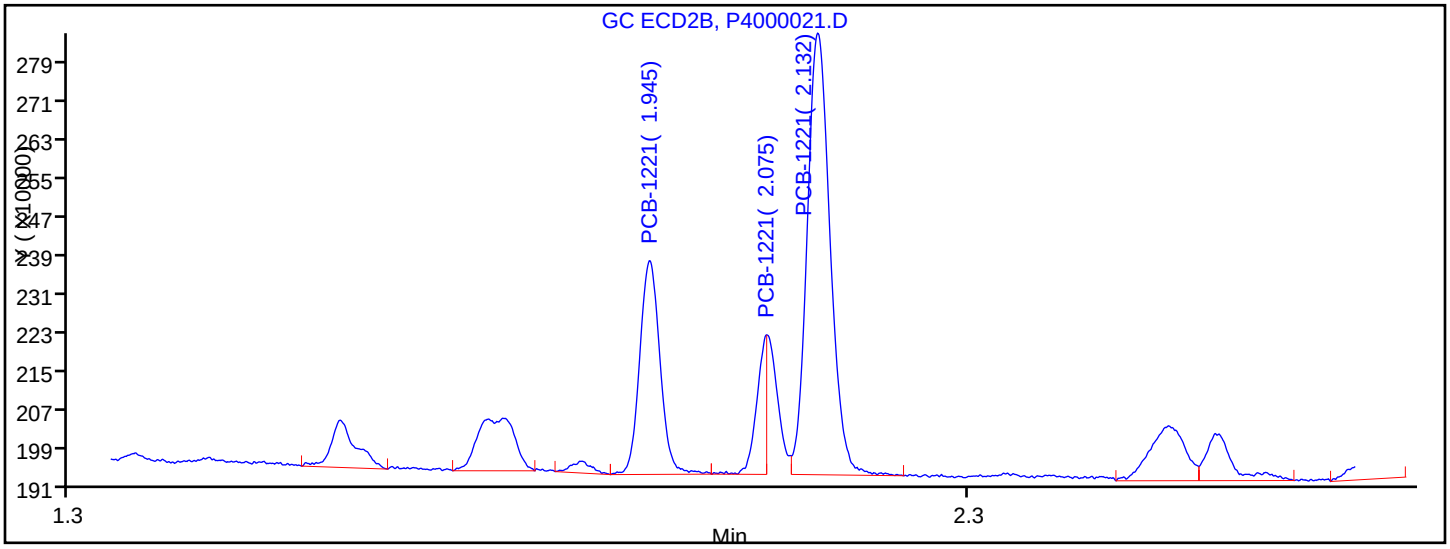
Report Date: 24-Jan-2013 07:49:49 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000021.D

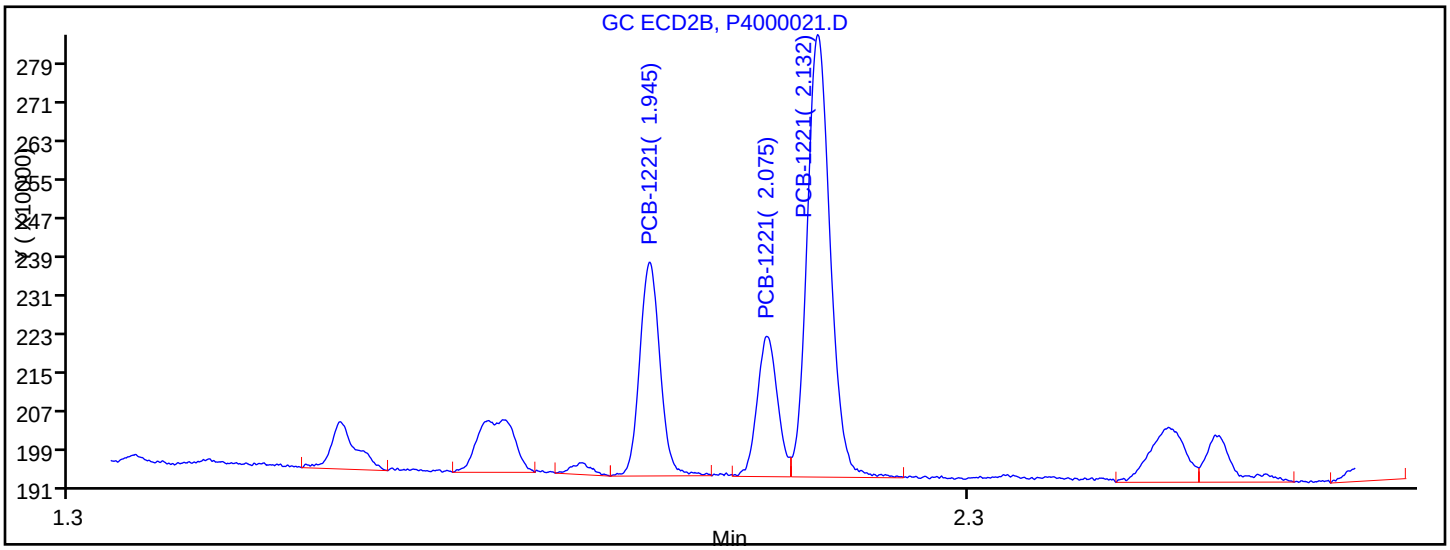
Injection Date:	23-Jan-2013 16:05:25	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	21
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

3 PCB-1221, Detector: 2, GC ecd2b



Processing Integration Results

RT = 1.945	Response = 702873	
RT = 2.075	Response = 215593	M
RT = 2.132	Response = 1644310	M



Manual Integration Results

RT = 1.945	Response = 702873	
RT = 2.075	Response = 463112	M
RT = 2.132	Response = 1655429	M

Reviewer: hassl, 24-Jan-2013 07:42:34

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000022.D
Lims ID: STD01 AR2154 Client ID:
Inject. Date: 23-Jan-2013 16:21:05 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0016796-022
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 22
Lims Batch ID: 72953 Lims Sample ID: 22
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:45 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

First Level Reviewer: hassl Date: 24-Jan-2013 07:39:24

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									M
1	2	1.399	1.400	-0.001	1439486	0.1055		100.0	M
1	3	1.507	1.508	-0.001	882406	0.1133	30.4- 80.4	61.3	
1	4	1.537	1.537	0.000	3578152	0.1070	210.8- 260.8	248.6	
			Average of Peak Amounts =			0.1086			
2	4	1.945	1.945	0.000	1205766	0.1054		100.0	M
2	5	2.075	2.075	0.000	826205	0.1087	36.5- 96.5	68.5	
2	6	2.132	2.132	0.000	2989528	0.1086	208.4- 268.4	247.9	
			Average of Peak Amounts =			0.1076			
						RPD = 0.95			
8 PCB-1254									
1	100	3.333	3.334	-0.001	7789685	0.1007		100.0	
1	2	3.718	3.720	-0.002	8491555	0.1049	81.7- 131.7	109.0	
1	3	4.002	4.002	0.000	5701953	0.0982	48.4- 98.4	73.2	
1	4	4.192	4.193	-0.001	5447702	0.1020	42.7- 92.7	69.9	
1	5	4.475	4.476	-0.001	7813618	0.0996	73.8- 123.8	100.3	
			Average of Peak Amounts =			0.1011			
2	6	4.246	4.245	0.001	4950218	0.1057		100.0	
2	7	4.722	4.721	0.001	7492080	0.1026	125.3- 185.3	151.3	
2	8	4.966	4.966	0.000	4738200	0.0994	72.4- 132.4	95.7	
2	9	5.326	5.326	0.000	5526031	0.1012	85.8- 145.8	111.6	
2	10	5.530	5.530	0.000	6840737	0.1008	115.2- 175.2	138.2	
			Average of Peak Amounts =			0.1019			
						RPD = 0.83			

QC Flag Legend

Review Flags
M - Manually Integrated

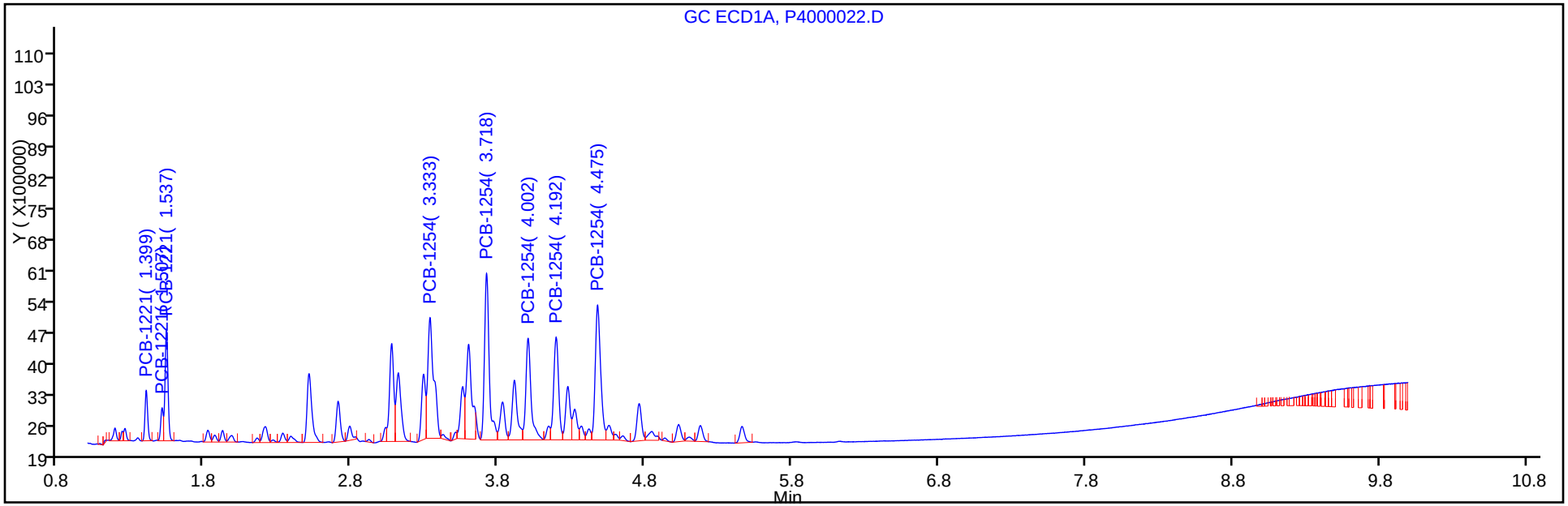
Report Date: 24-Jan-2013 07:49:47 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

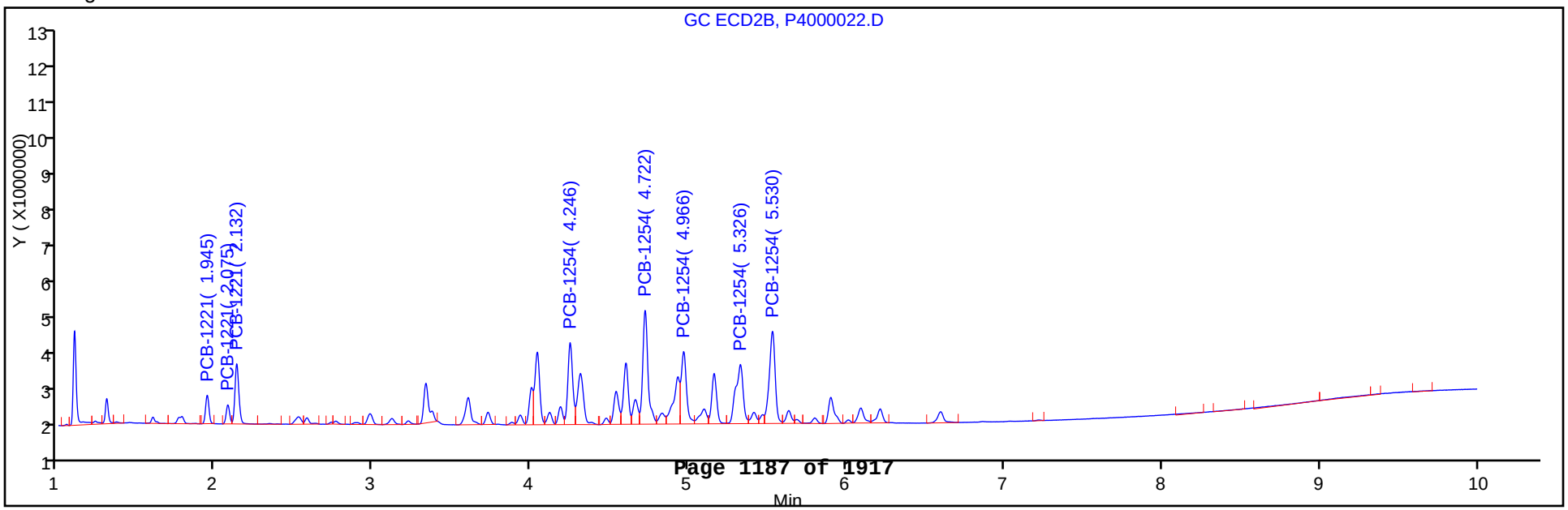
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000022.D

Injection Date:	23-Jan-2013 16:21:05	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	22
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



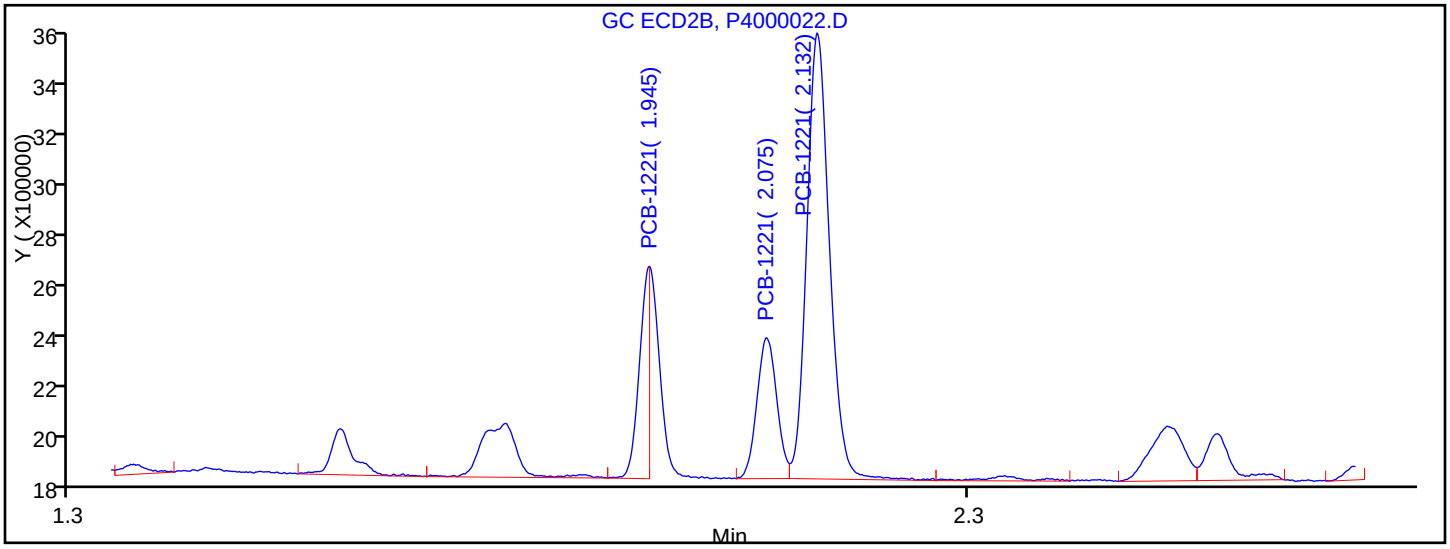
Report Date: 24-Jan-2013 07:49:47 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000022.D

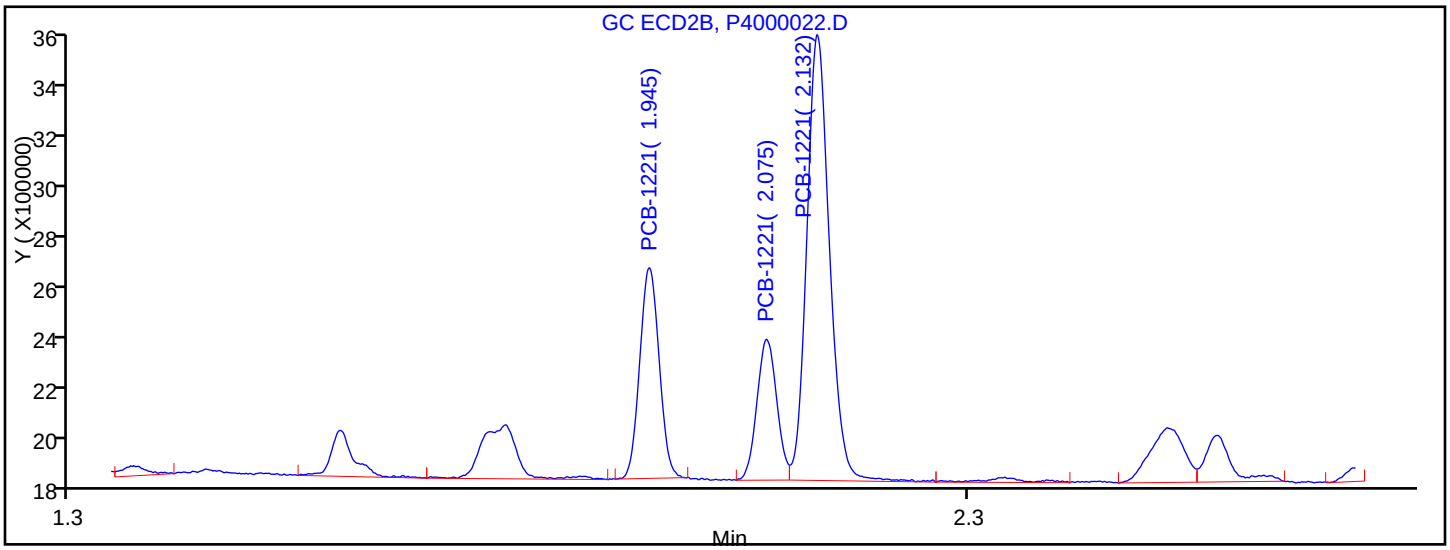
Injection Date:	23-Jan-2013 16:21:05	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	22
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

3 PCB-1221, Detector: 2, GC ecd2b



Processing Integration Results

RT = 1.945 Response = 613354 M
RT = 2.075 Response = 826205
RT = 2.132 Response = 2989528



Manual Integration Results

RT = 1.945 Response = 1205766 M
RT = 2.075 Response = 826205
RT = 2.132 Response = 2989528

Reviewer: hassl, 24-Jan-2013 07:40:52
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000023.D
Lims ID: STD02 AR2154 Client ID:
Inject. Date: 23-Jan-2013 16:36:46 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0016796-023
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 23
Lims Batch ID: 72953 Lims Sample ID: 23
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:43 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

First Level Reviewer: hassl Date: 24-Jan-2013 07:39:48

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.399	1.400	-0.001	2879463	0.2110		100.0	
1	3	1.508	1.508	0.000	1596485	0.2050	30.4- 80.4	55.4	
1	4	1.537	1.537	0.000	6791156	0.2031	210.8- 260.8	235.8	
			Average of Peak Amounts =			0.2064			
2	4	1.945	1.945	0.000	2317860	0.2026		100.0	
2	5	2.076	2.075	0.001	1542389	0.2030	36.5- 96.5	66.5	
2	6	2.132	2.132	0.000	5525818	0.2007	208.4- 268.4	238.4	
			Average of Peak Amounts =			0.2021			
						RPD = 2.09			
8 PCB-1254									
1	100	3.333	3.334	-0.001	15421907	0.1993		100.0	
1	2	3.719	3.720	-0.001	16447888	0.2032	81.7- 131.7	106.7	
1	3	4.002	4.002	0.000	11323364	0.1950	48.4- 98.4	73.4	
1	4	4.193	4.193	0.000	10436572	0.1955	42.7- 92.7	67.7	
1	5	4.475	4.476	-0.001	15229729	0.1941	73.8- 123.8	98.8	
			Average of Peak Amounts =			0.1974			
2	6	4.247	4.245	0.002	9303411	0.1987		100.0	
2	7	4.722	4.721	0.001	14448158	0.1978	125.3- 185.3	155.3	
2	8	4.968	4.966	0.002	9522384	0.1997	72.4- 132.4	102.4	
2	9	5.328	5.326	0.002	10770806	0.1972	85.8- 145.8	115.8	
2	10	5.530	5.530	0.000	13509378	0.1991	115.2- 175.2	145.2	
			Average of Peak Amounts =			0.1985			
						RPD = 0.54			

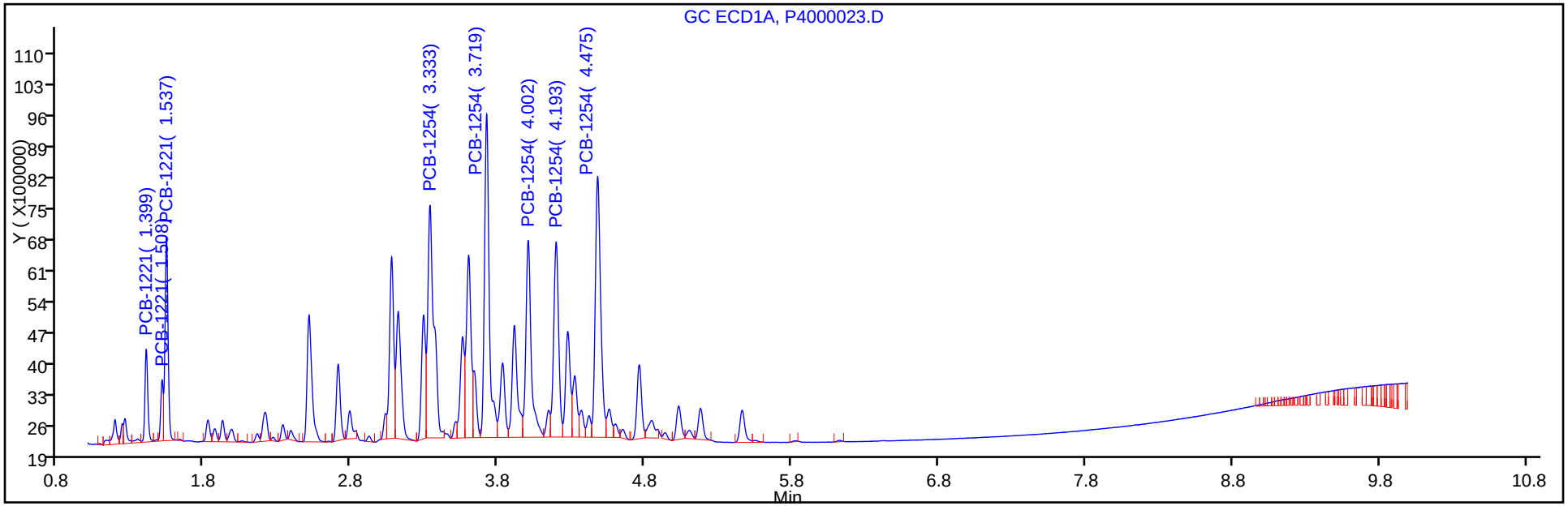
Report Date: 24-Jan-2013 07:49:44 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

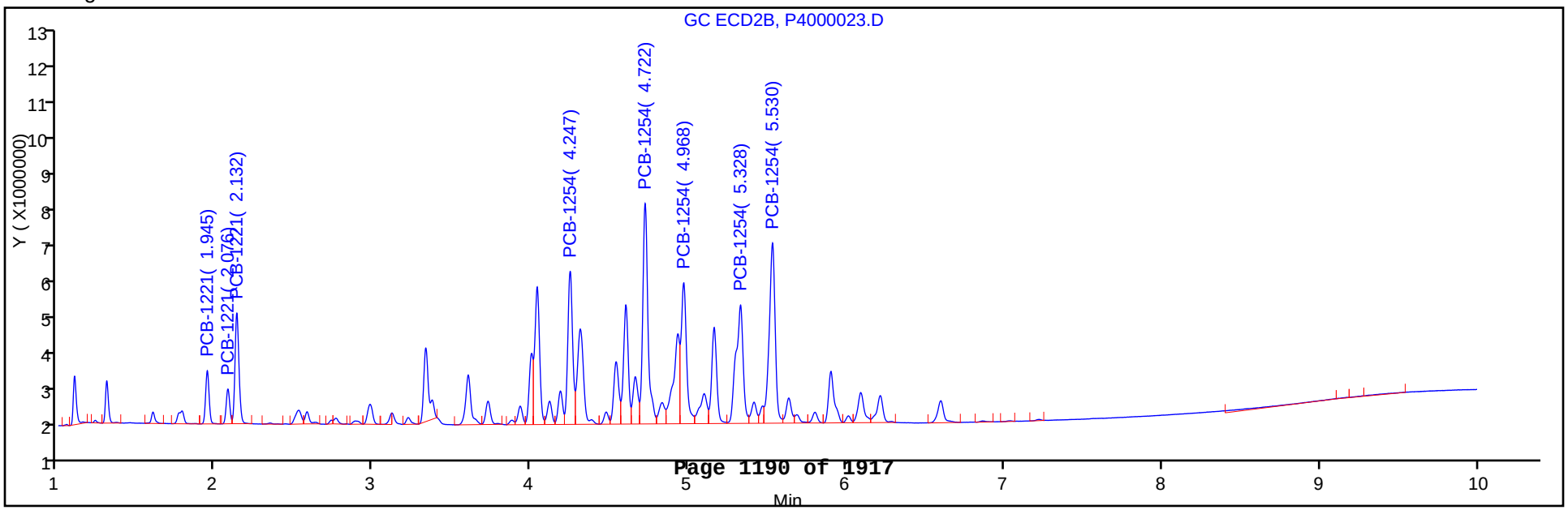
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000023.D

Injection Date:	23-Jan-2013 16:36:46	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	23
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000024.D
Lims ID: STD05 AR2154 Client ID:
Inject. Date: 23-Jan-2013 16:52:26 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0016796-024
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 24
Lims Batch ID: 72953 Lims Sample ID: 24
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:41 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

First Level Reviewer: hassl Date: 24-Jan-2013 07:40:01

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.399	1.400	-0.001	6455853	0.4732		100.0	
1	3	1.508	1.508	0.000	3652968	0.4691	30.4- 80.4	56.6	
1	4	1.538	1.537	0.001	15909420	0.4757	210.8- 260.8	246.4	
			Average of Peak Amounts =			0.4727			
2	4	1.945	1.945	0.000	5354538	0.4681		100.0	
2	5	2.076	2.075	0.001	3581077	0.4713	36.5- 96.5	66.9	
2	6	2.133	2.132	0.001	12932194	0.4697	208.4- 268.4	241.5	
			Average of Peak Amounts =			0.4697			
						RPD = 0.63			
8 PCB-1254									
1	100	3.333	3.334	-0.001	37884882	0.4896		100.0	
1	2	3.719	3.720	-0.001	38308265	0.4732	81.7- 131.7	101.1	
1	3	4.002	4.002	0.000	29199278	0.5029	48.4- 98.4	77.1	
1	4	4.192	4.193	-0.001	25874220	0.4846	42.7- 92.7	68.3	
1	5	4.475	4.476	-0.001	38118252	0.4858	73.8- 123.8	100.6	
			Average of Peak Amounts =			0.4872			
2	6	4.247	4.245	0.002	21942321	0.4687		100.0	
2	7	4.722	4.721	0.001	34759592	0.4758	125.3- 185.3	158.4	
2	8	4.966	4.966	0.000	22847762	0.4791	72.4- 132.4	104.1	
2	9	5.326	5.326	0.000	25760313	0.4715	85.8- 145.8	117.4	
2	10	5.529	5.530	-0.001	32308400	0.4761	115.2- 175.2	147.2	
			Average of Peak Amounts =			0.4742			
						RPD = 2.70			

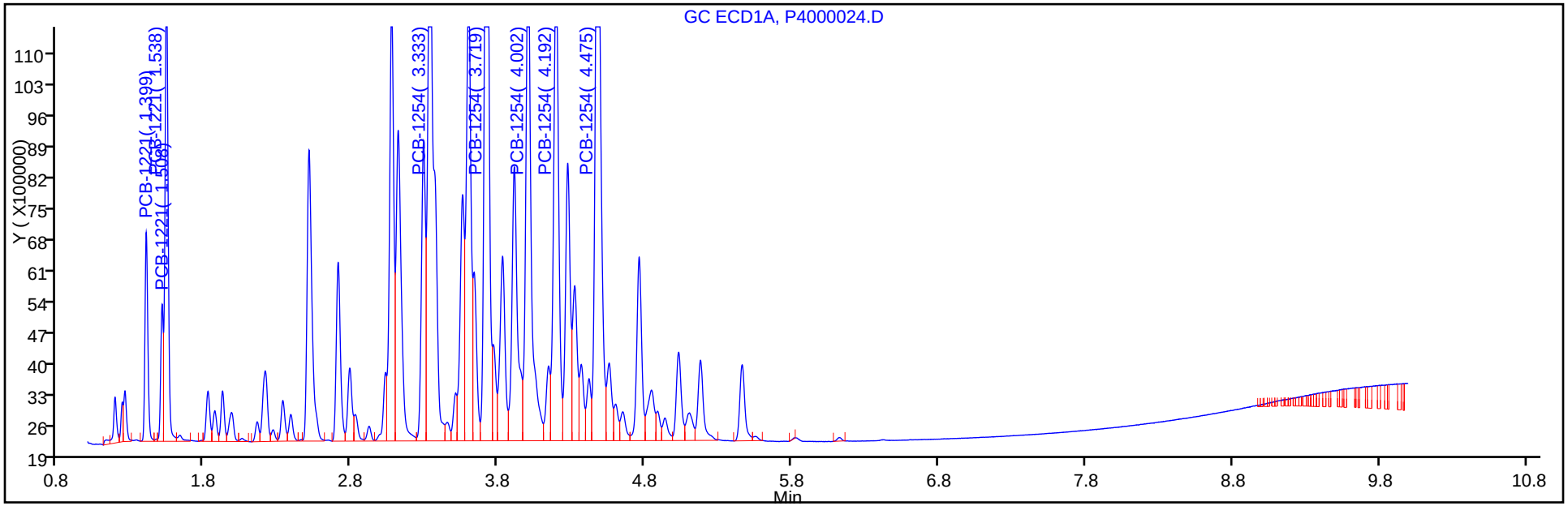
Report Date: 24-Jan-2013 07:49:42 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

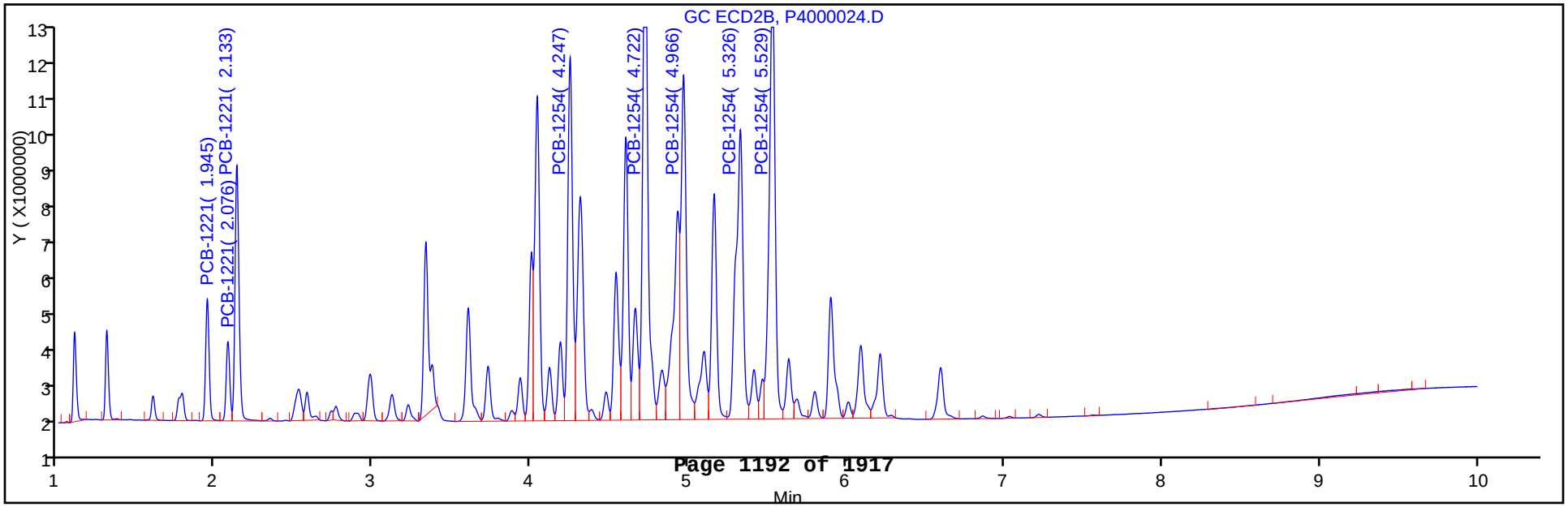
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000024.D

Injection Date:	23-Jan-2013 16:52:26	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	24
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000025.D
Lims ID: STD1 AR2154 Client ID:
Inject. Date: 23-Jan-2013 17:08:15 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0016796-025
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 25
Lims Batch ID: 72953 Lims Sample ID: 25
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:39 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

First Level Reviewer: hassl Date: 24-Jan-2013 07:40:11

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.399	1.400	-0.001	12432699	0.9112		100.0	
1	3	1.507	1.508	-0.001	6736724	0.8652	30.4- 80.4	54.2	
1	4	1.537	1.537	0.000	30560336	0.9138	210.8- 260.8	245.8	
			Average of Peak Amounts =			0.8967			
2	4	1.945	1.945	0.000	10225842	0.8939		100.0	
2	5	2.076	2.075	0.001	6724966	0.8851	36.5- 96.5	65.8	
2	6	2.132	2.132	0.000	24753439	0.8990	208.4- 268.4	242.1	
			Average of Peak Amounts =			0.8927			
						RPD = 0.45			
8 PCB-1254									
1	100	3.332	3.334	-0.002	74545543	0.9635		100.0	
1	2	3.719	3.720	-0.001	76045301	0.9394	81.7- 131.7	102.0	
1	3	4.002	4.002	0.000	59368622	1.02	48.4- 98.4	79.6	
1	4	4.192	4.193	-0.001	51014165	0.9555	42.7- 92.7	68.4	
1	5	4.476	4.476	0.000	76226492	0.9715	73.8- 123.8	102.3	
			Average of Peak Amounts =			0.9705			
2	6	4.247	4.245	0.002	43266335	0.9242		100.0	
2	7	4.722	4.721	0.001	68828811	0.9422	125.3- 185.3	159.1	
2	8	4.967	4.966	0.001	45014397	0.9439	72.4- 132.4	104.0	
2	9	5.327	5.326	0.001	51143241	0.9362	85.8- 145.8	118.2	
2	10	5.529	5.530	-0.001	64359606	0.9483	115.2- 175.2	148.8	
			Average of Peak Amounts =			0.9390			
						RPD = 3.30			

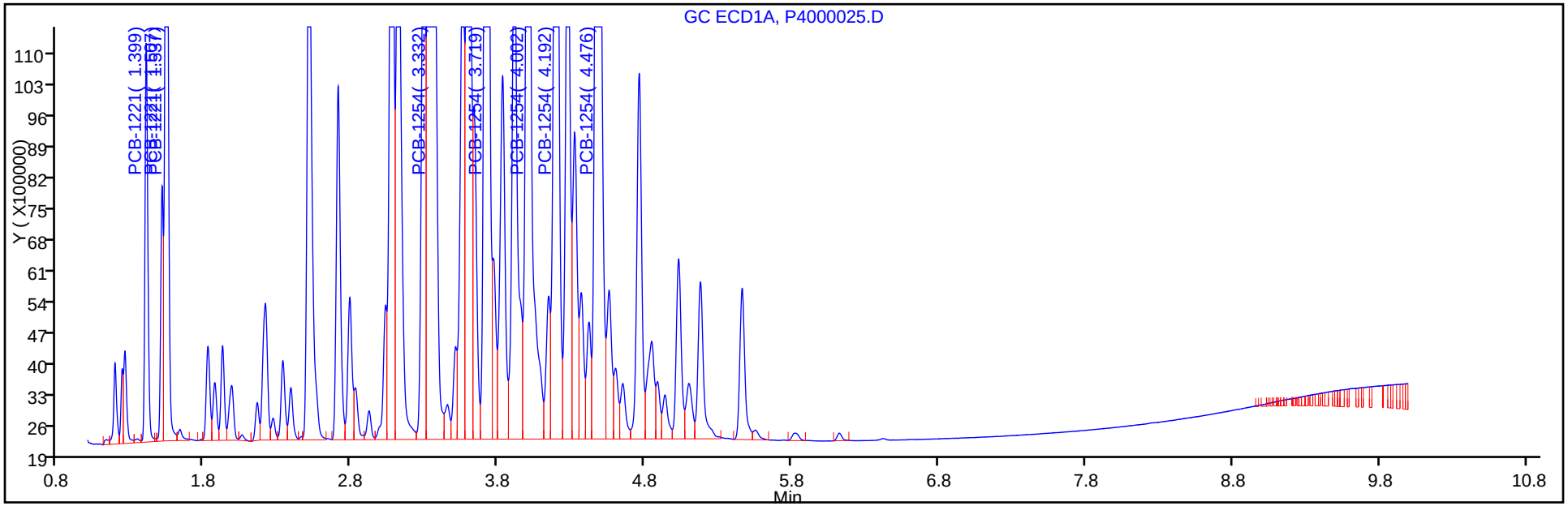
Report Date: 24-Jan-2013 07:49:40 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

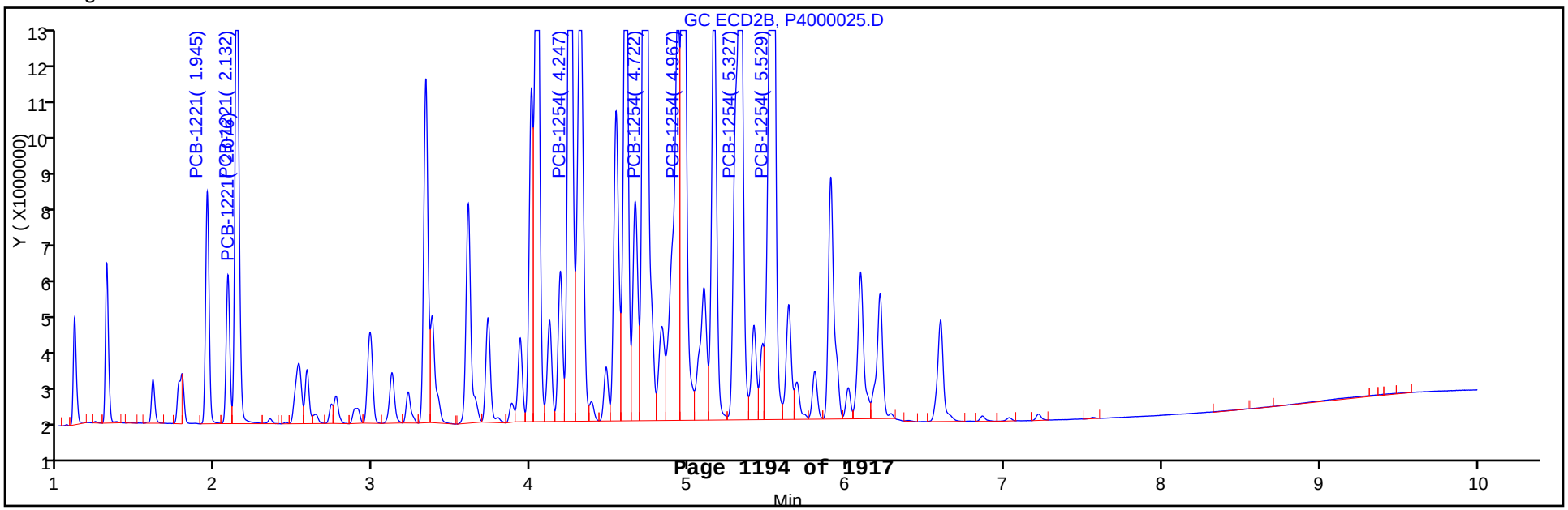
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000025.D

Injection Date:	23-Jan-2013 17:08:15	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	25
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000026.D
Lims ID: STD2 AR2154 Client ID:
Inject. Date: 23-Jan-2013 17:23:57 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0016796-026
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 26
Lims Batch ID: 72953 Lims Sample ID: 26
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:37 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

First Level Reviewer: hassl Date: 24-Jan-2013 07:40:21

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.399	1.400	-0.001	24116102	1.77		100.0	
1	3	1.507	1.508	-0.001	13272611	1.70	30.4- 80.4	55.0	
1	4	1.537	1.537	0.000	58349901	1.74	210.8- 260.8	242.0	
			Average of Peak Amounts =			1.74			
2	4	1.945	1.945	0.000	19996841	1.75		100.0	
2	5	2.076	2.075	0.001	12924102	1.70	36.5- 96.5	64.6	
2	6	2.132	2.132	0.000	47906616	1.74	208.4- 268.4	239.6	
			Average of Peak Amounts =			1.73			
						RPD = 0.53			
8 PCB-1254									
1	100	3.333	3.334	-0.001	148136410	1.91		100.0	
1	2	3.718	3.720	-0.002	153118369	1.89	81.7- 131.7	103.4	
1	3	4.002	4.002	0.000	120011807	2.07	48.4- 98.4	81.0	
1	4	4.192	4.193	-0.001	102324559	1.92	42.7- 92.7	69.1	
1	5	4.476	4.476	0.000	155252007	1.98	73.8- 123.8	104.8	
			Average of Peak Amounts =			1.95			
2	6	4.246	4.245	0.001	87185334	1.86		100.0	
2	7	4.722	4.721	0.001	140153774	1.92	125.3- 185.3	160.8	
2	8	4.967	4.966	0.001	94572630	1.98	72.4- 132.4	108.5	
2	9	5.327	5.326	0.001	107090023	1.96	85.8- 145.8	122.8	
2	10	5.531	5.530	0.001	132515112	1.95	115.2- 175.2	152.0	
			Average of Peak Amounts =			1.94			
						RPD = 0.94			

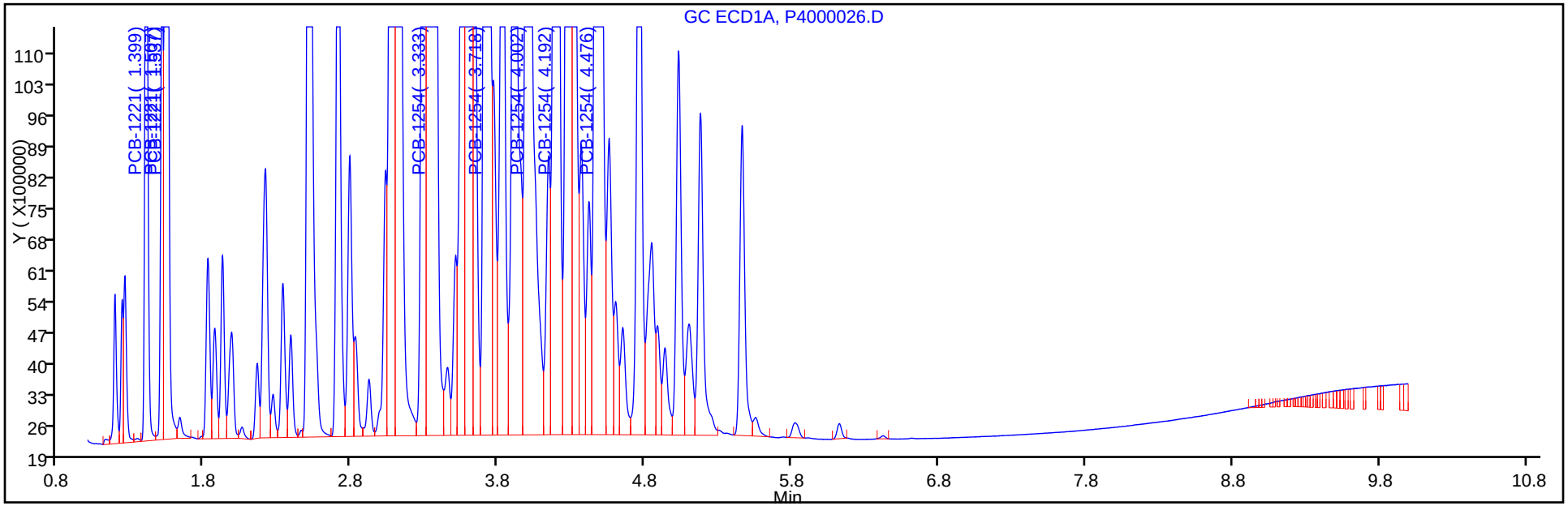
Report Date: 24-Jan-2013 07:49:38 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

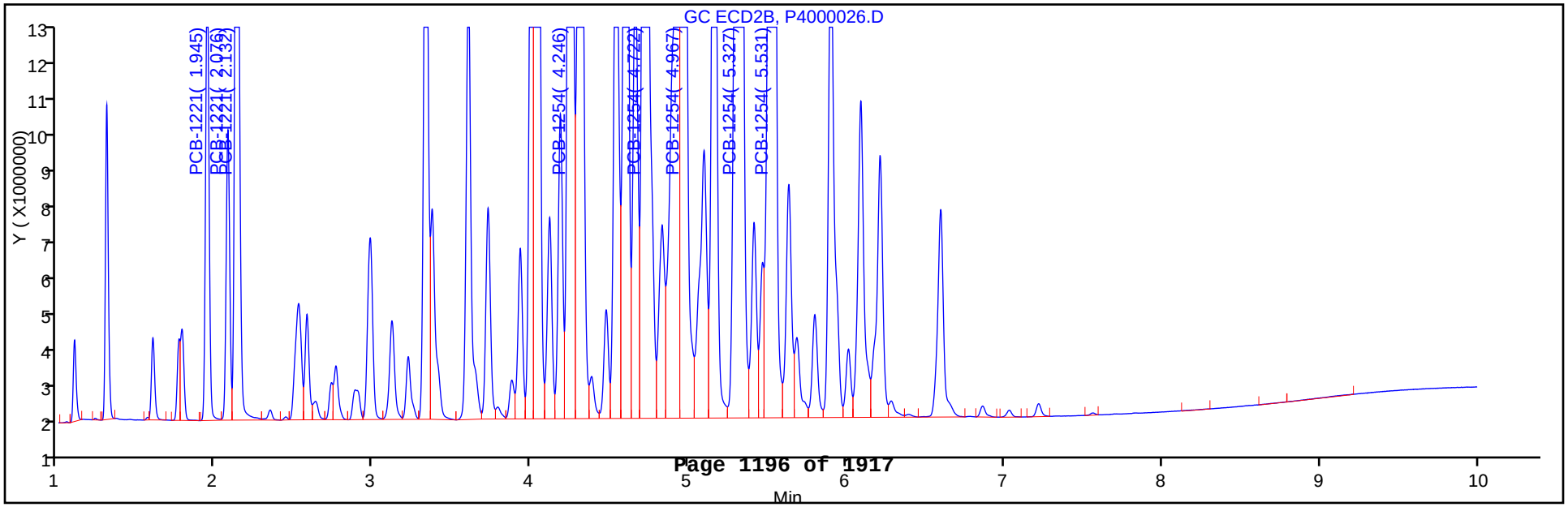
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000026.D

Injection Date:	23-Jan-2013 17:23:57	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	26
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 17:39 Calibration End Date: 01/23/2013 18:58 Calibration ID: 13429

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/27	P4000027.D
Level 2	STD01 240-72953/28	P4000028.D
Level 3	STD02 240-72953/29	P4000029.D
Level 4	STD05 240-72953/30	P4000030.D
Level 5	STD1 240-72953/31	P4000031.D
Level 6	STD2 240-72953/32	P4000032.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1016 Peak 1	1.538	1.538	1.539	1.538	1.538	1.538					1.438 - 1.638	1.538
PCB-1016 Peak 2	1.819	1.819	1.820	1.819	1.819	1.819					1.719 - 1.919	1.819
PCB-1016 Peak 3	2.211	2.210	2.211	2.210	2.210	2.211					2.110 - 2.310	2.211
PCB-1016 Peak 4	2.331	2.331	2.331	2.330	2.330	2.330					2.230 - 2.430	2.331
PCB-1016 Peak 5	2.708	2.710	2.710	2.709	2.709	2.708					2.609 - 2.809	2.709
PCB-1260 Peak 1	3.908	3.908	3.908	3.908	3.908	3.907					3.808 - 4.008	3.908
PCB-1260 Peak 2	4.194	4.195	4.195	4.195	4.195	4.194					4.095 - 4.295	4.195
PCB-1260 Peak 3	4.474	4.475	4.475	4.475	4.475	4.474					4.375 - 4.575	4.475
PCB-1260 Peak 4	5.176	5.175	5.176	5.176	5.176	5.175					5.076 - 5.276	5.176
PCB-1260 Peak 5	5.460	5.460	5.460	5.459	5.460	5.459					5.359 - 5.559	5.460
Tetrachloro-m-xylene	1.269	1.269	1.270	1.269	1.270	1.269					1.169 - 1.369	1.269
DCB Decachlorobiphenyl	6.617	6.618	6.617	6.616	6.616	6.617					6.516 - 6.716	6.617

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 17:39 Calibration End Date: 01/23/2013 18:58 Calibration ID: 13429

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/27	P4000027.D
Level 2	STD01 240-72953/28	P4000028.D
Level 3	STD02 240-72953/29	P4000029.D
Level 4	STD05 240-72953/30	P4000030.D
Level 5	STD1 240-72953/31	P4000031.D
Level 6	STD2 240-72953/32	P4000032.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 6	LVL 3	LVL 4		B	M1	M2								
PCB-1016 Peak 1	30338840 22763051	26770610 21159418	24884225	23512384	Ave		24904754.6				13.0		20.0			
PCB-1016 Peak 2	54488700 41873472	48678190 38773254	45465140	43490016	Ave		45461461.9				12.0		20.0			
PCB-1016 Peak 3	100913920 89309171	93434850 85587206	89746580	89968490	Ave		91493369.5				5.7		20.0			
PCB-1016 Peak 4	46621260 39203590	42856090 36931699	40509565	39419012	Ave		40923536.0				8.3		20.0			
PCB-1016 Peak 5	46737860 39308284	43602380 37258146	41198490	39692852	Ave		41299668.7				8.2		20.0			
PCB-1260 Peak 1	67486340 57684671	62595790 55385528	59783325	58122966	Ave		60176436.7				7.2		20.0			
PCB-1260 Peak 2	119412860 103941899	111074050 99528178	106587420	104439676	Ave		107497347				6.5		20.0			
PCB-1260 Peak 3	116215740 105582253	108757630 102206743	106262580	104997792	Ave		107337123				4.5		20.0			
PCB-1260 Peak 4	126114980 122952733	120662100 119539431	120901215	121229960	Ave		121900070				1.9		20.0			
PCB-1260 Peak 5	64487360 61431693	62224570 59935222	61141395	60222176	Ave		61573736.1				2.7		20.0			
Tetrachloro-m-xylene	1618459200 1449045480	1458974200 1362467390	1441350300	1442071440	Ave		1462061335				5.8		20.0			
DCB Decachlorobiphenyl	1417926800 1247227280	1307133600 1188265260	1303955300	1238364640	Ave		1283812147				6.2		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 17:39 Calibration End Date: 01/23/2013 18:58 Calibration ID: 13429

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/27	P4000027.D
Level 2	STD01 240-72953/28	P4000028.D
Level 3	STD02 240-72953/29	P4000029.D
Level 4	STD05 240-72953/30	P4000030.D
Level 5	STD1 240-72953/31	P4000031.D
Level 6	STD2 240-72953/32	P4000032.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Ave	1516942 42318835	2677061	4976845	11756192	22763051	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 2	Ave	2724435 77546507	4867819	9093028	21745008	41873472	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 3	Ave	5045696 171174412	9343485	17949316	44984245	89309171	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 4	Ave	2331063 73863398	4285609	8101913	19709506	39203590	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 5	Ave	2336893 74516292	4360238	8239698	19846426	39308284	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 1	Ave	3374317 110771056	6259579	11956665	29061483	57684671	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 2	Ave	5970643 199056355	11107405	21317484	52219838	103941899	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 3	Ave	5810787 204413485	10875763	21252516	52498896	105582253	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 4	Ave	6305749 239078863	12066210	24180243	60614980	122952733	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 5	Ave	3224368 119870445	6222457	12228279	30111088	61431693	0.0500 2.00	0.100	0.200	0.500	1.00
Tetrachloro-m-xylene	Ave	4046148 136246739	7294871	14413503	36051786	72452274	0.00250 0.100	0.00500	0.0100	0.0250	0.0500
DCB Decachlorobiphenyl	Ave	3544817 118826526	6535668	13039553	30959116	62361364	0.00250 0.100	0.00500	0.0100	0.0250	0.0500

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000027.D
Lims ID: STD005 1660 Client ID:
Inject. Date: 23-Jan-2013 17:39:41 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0016796-027
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 27
Lims Batch ID: 72953 Lims Sample ID: 27
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:35 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.269	1.269	0.000	4046148	0.002767			
2	2	1.672	1.671	0.001	2993071	0.002614			
						RPD = 5.70			
6 PCB-1016									
1	100	1.538	1.538	0.000	1516942	0.0609		100.0	
1	2	1.819	1.819	0.000	2724435	0.0599	157.7- 207.7	179.6	
1	3	2.211	2.210	0.001	5045696	0.0551	335.7- 385.7	332.6	
1	4	2.331	2.330	0.001	2331063	0.0570	127.8- 197.8	153.7	
1	5	2.708	2.709	-0.001	2336893	0.0566	140.6- 190.6	154.1	
			Average of Peak Amounts =			0.0579			
2	6	2.132	2.133	-0.001	1109156	0.0580		100.0	
2	7	2.527	2.527	0.000	2223194	0.0579	173.3- 233.3	200.4	
2	8	2.978	2.978	0.000	4100024	0.0535	368.6- 428.6	369.7	
2	9	3.115	3.116	-0.001	1810246	0.0546	147.6- 207.6	163.2	
2	10	3.218	3.219	-0.001	1373024	0.0530	109.0- 169.0	123.8	
			Average of Peak Amounts =			0.0554			
						RPD = 4.45			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.908	3.908	0.000	3374317	0.0561		100.0	
1	2	4.194	4.195	-0.001	5970643	0.0555	153.3- 203.3	176.9	
1	3	4.474	4.475	-0.001	5810787	0.0541	152.7- 202.7	172.2	
1	4	5.176	5.176	0.000	6305749	0.0517	177.2- 227.2	186.9	
1	5	5.460	5.459	0.001	3224368	0.0524	77.3- 127.3	95.6	
			Average of Peak Amounts =			0.0540			
2	6	4.928	4.929	-0.001	2957671	0.0548		100.0	
2	7	5.159	5.159	0.000	3414553	0.0543	86.6- 146.6	115.4	
2	8	5.527	5.527	0.000	4983028	0.0535	141.2- 201.2	168.5	
2	9	6.213	6.213	0.000	5865039	0.0526	175.0- 235.0	198.3	
2	10	6.593	6.594	-0.001	4259967	0.0538	115.7- 175.7	144.0	
			Average of Peak Amounts =			0.0538			
						RPD = 0.34			
$ 12 DCB Decachlorobiphenyl									
1	100	6.617	6.616	0.001	3544817	0.002761			
2	2	7.832	7.830	0.002	3084435	0.002810			
						RPD = 1.77			

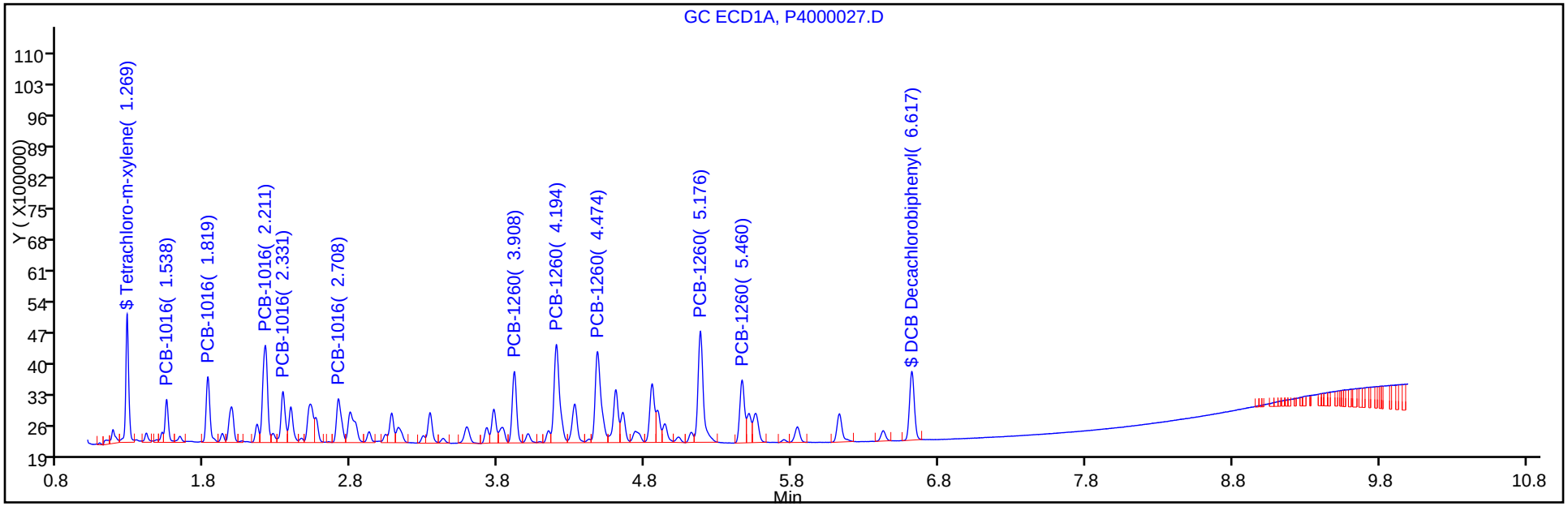
Report Date: 24-Jan-2013 07:49:36 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

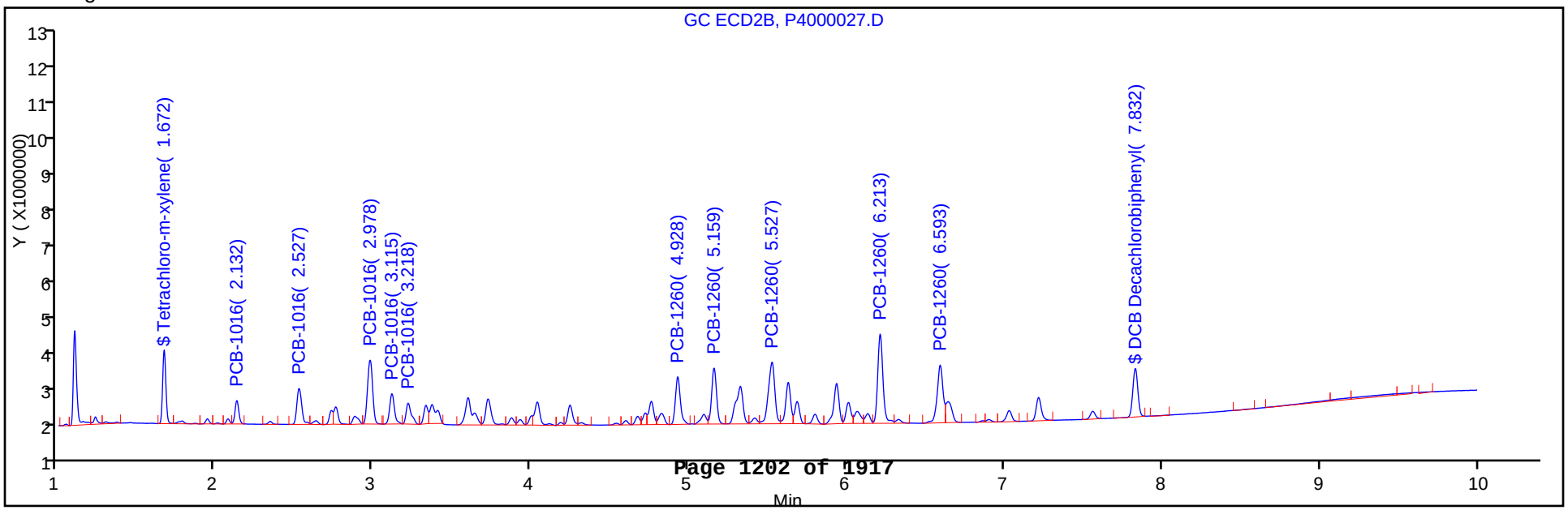
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000027.D

Injection Date:	23-Jan-2013 17:39:41	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	27
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000028.D
Lims ID: STD01 1660 Client ID:
Inject. Date: 23-Jan-2013 17:55:23 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0016796-028
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 28
Lims Batch ID: 72953 Lims Sample ID: 28
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:33 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.269	1.269	0.000	7294871	0.004989			
2	2	1.671	1.671	0.000	5559390	0.004855			
						RPD = 2.73			
6 PCB-1016									
1	100	1.538	1.538	0.000	2677061	0.1075		100.0	
1	2	1.819	1.819	0.000	4867819	0.1071	157.7- 207.7	181.8	
1	3	2.210	2.210	0.000	9343485	0.1021	335.7- 385.7	349.0	
1	4	2.331	2.330	0.001	4285609	0.1047	127.8- 197.8	160.1	
1	5	2.710	2.709	0.001	4360238	0.1056	140.6- 190.6	162.9	
			Average of Peak Amounts =			0.1054			
2	6	2.132	2.133	-0.001	2043841	0.1068		100.0	
2	7	2.527	2.527	0.000	4089639	0.1065	173.3- 233.3	200.1	
2	8	2.979	2.978	0.001	7612172	0.0994	368.6- 428.6	372.4	
2	9	3.115	3.116	-0.001	3313475	0.0999	147.6- 207.6	162.1	
2	10	3.219	3.219	0.000	2543529	0.0981	109.0- 169.0	124.4	
			Average of Peak Amounts =			0.1021			
						RPD = 3.14			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.908	3.908	0.000	6259579	0.1040		100.0	
1	2	4.195	4.195	0.000	11107405	0.1033	153.3- 203.3	177.4	
1	3	4.475	4.475	0.000	10875763	0.1013	152.7- 202.7	173.7	
1	4	5.175	5.176	-0.001	12066210	0.0990	177.2- 227.2	192.8	
1	5	5.460	5.459	0.001	6222457	0.1011	77.3- 127.3	99.4	
			Average of Peak Amounts =			0.1017			
2	6	4.930	4.929	0.001	5653485	0.1047		100.0	
2	7	5.160	5.159	0.001	6546715	0.1041	86.6- 146.6	115.8	
2	8	5.526	5.527	-0.001	9497859	0.1019	141.2- 201.2	168.0	
2	9	6.213	6.213	0.000	11204548	0.1006	175.0- 235.0	198.2	
2	10	6.595	6.594	0.001	8044676	0.1015	115.7- 175.7	142.3	
			Average of Peak Amounts =			0.1026			
						RPD = 0.80			
$ 12 DCB Decachlorobiphenyl									
1	100	6.618	6.616	0.002	6535668	0.005091			
2	2	7.832	7.830	0.002	5666970	0.005163			
						RPD = 1.42			

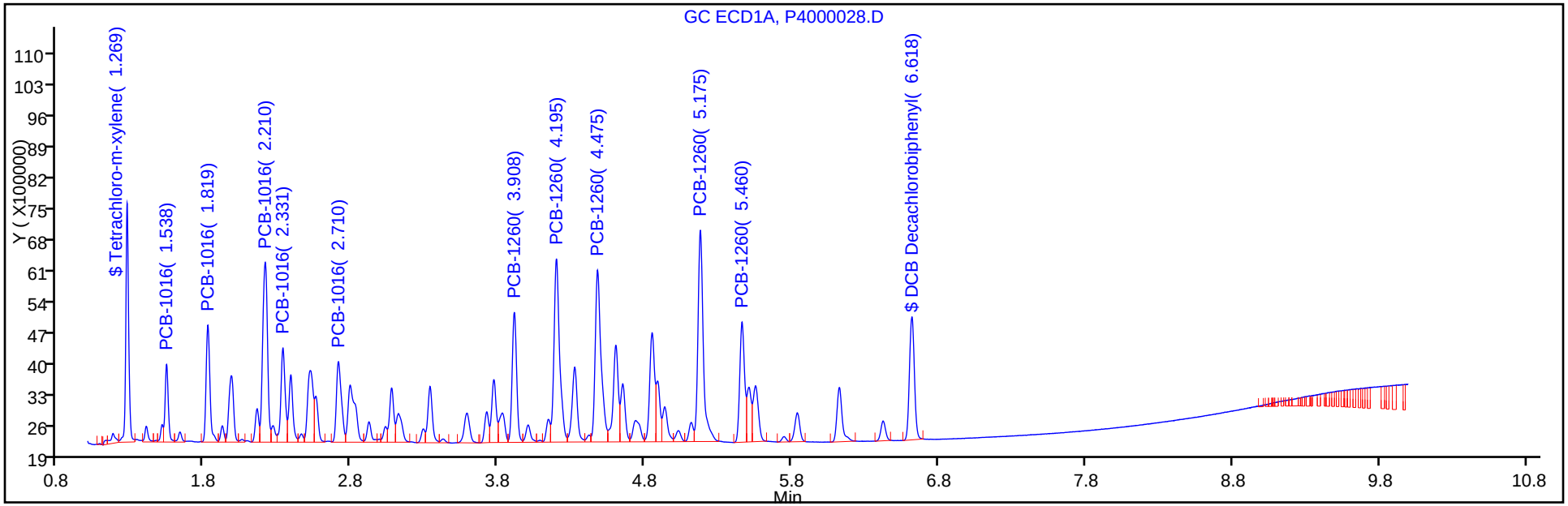
Report Date: 24-Jan-2013 07:49:34 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

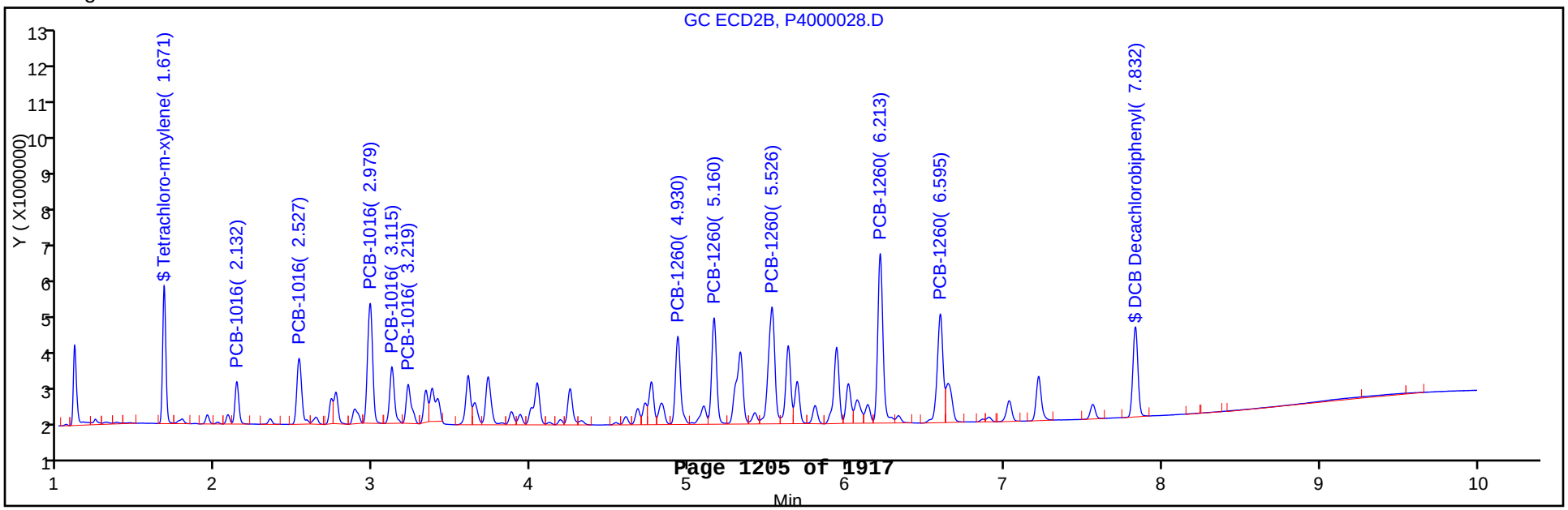
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000028.D

Injection Date:	23-Jan-2013 17:55:23	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	28
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000029.D
Lims ID: STD02 1660 Client ID:
Inject. Date: 23-Jan-2013 18:11:08 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0016796-029
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 29
Lims Batch ID: 72953 Lims Sample ID: 29
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:30 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.270	1.269	0.001	14413503	0.009858			
2	2	1.672	1.671	0.001	11237572	0.009814			
						RPD = 0.45			
6 PCB-1016									
1	100	1.539	1.538	0.001	4976845	0.1998		100.0	
1	2	1.820	1.819	0.001	9093028	0.2000	157.7- 207.7	182.7	
1	3	2.211	2.210	0.001	17949316	0.1962	335.7- 385.7	360.7	
1	4	2.331	2.330	0.001	8101913	0.1980	127.8- 197.8	162.8	
1	5	2.710	2.709	0.001	8239698	0.1995	140.6- 190.6	165.6	
			Average of Peak Amounts =			0.1987			
2	6	2.133	2.133	0.000	3823879	0.1999		100.0	
2	7	2.528	2.527	0.001	7775644	0.2024	173.3- 233.3	203.3	
2	8	2.979	2.978	0.001	15242552	0.1989	368.6- 428.6	398.6	
2	9	3.117	3.116	0.001	6792737	0.2049	147.6- 207.6	177.6	
2	10	3.220	3.219	0.001	5316920	0.2051	109.0- 169.0	139.0	
			Average of Peak Amounts =			0.2022			
						RPD = 1.76			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.908	3.908	0.000	11956665	0.1987		100.0	
1	2	4.195	4.195	0.000	21317484	0.1983	153.3- 203.3	178.3	
1	3	4.475	4.475	0.000	21252516	0.1980	152.7- 202.7	177.7	
1	4	5.176	5.176	0.000	24180243	0.1984	177.2- 227.2	202.2	
1	5	5.460	5.459	0.001	12228279	0.1986	77.3- 127.3	102.3	
			Average of Peak Amounts =			0.1984			
2	6	4.930	4.929	0.001	10771091	0.1995		100.0	
2	7	5.160	5.159	0.001	12560305	0.1997	86.6- 146.6	116.6	
2	8	5.526	5.527	-0.001	18441956	0.1979	141.2- 201.2	171.2	
2	9	6.213	6.213	0.000	22076749	0.1981	175.0- 235.0	205.0	
2	10	6.595	6.594	0.001	15693347	0.1980	115.7- 175.7	145.7	
			Average of Peak Amounts =			0.1987			
						RPD = 0.13			
$ 12 DCB Decachlorobiphenyl									
1	100	6.617	6.616	0.001	13039553	0.0102			
2	2	7.832	7.830	0.002	11241456	0.0102			
						RPD = 0.84			

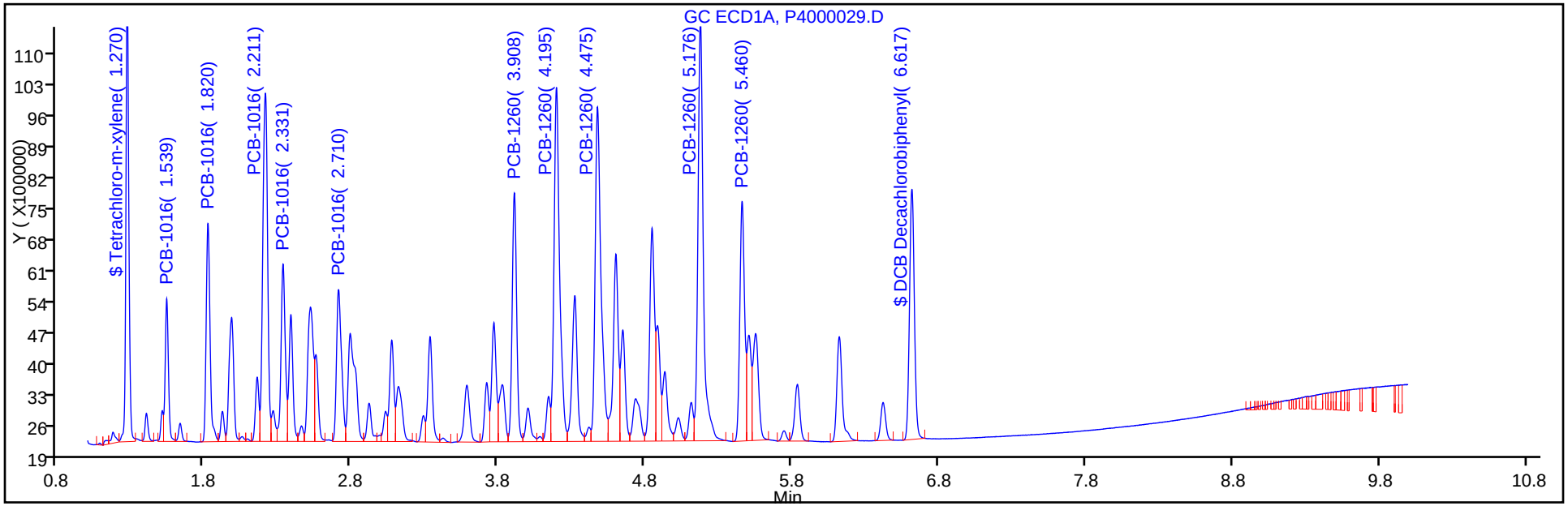
Report Date: 24-Jan-2013 07:49:32 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

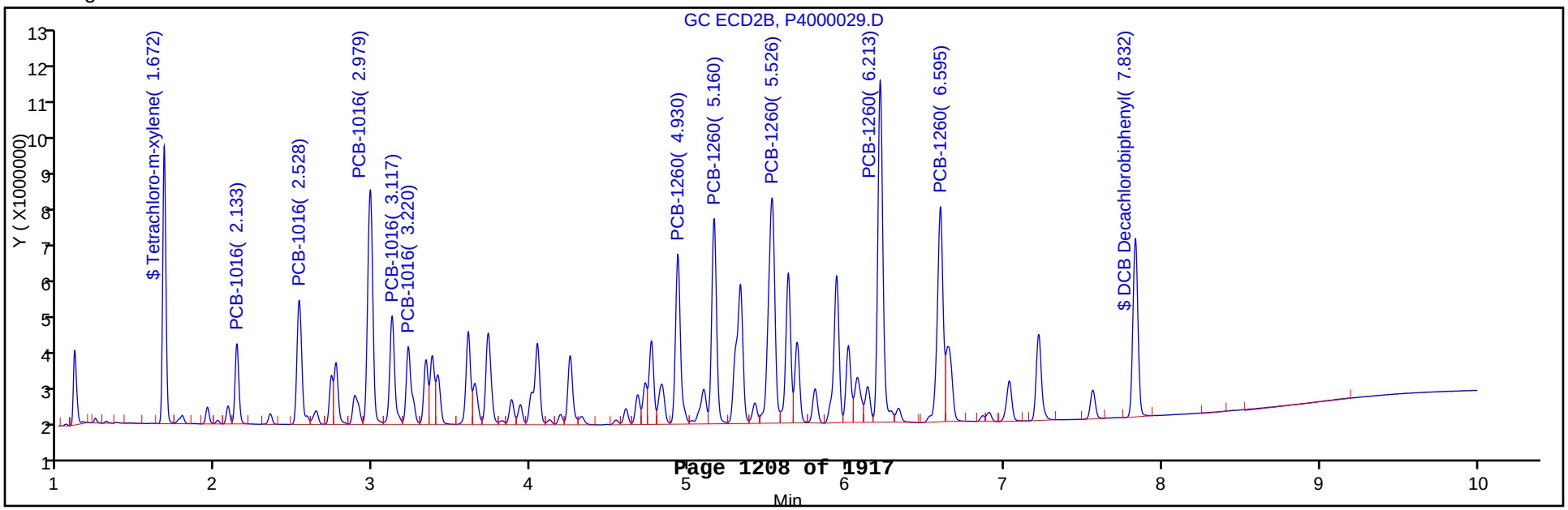
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000029.D

Injection Date:	23-Jan-2013 18:11:08	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	29
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000030.D
Lims ID: STD05 1660 Client ID:
Inject. Date: 23-Jan-2013 18:26:48 Dil. Factor: 1.0000
Sample Type: ICRT Calib Level: 4
Sample ID: 240-0016796-030
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 30
Lims Batch ID: 72953 Lims Sample ID: 30
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:28 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.269	1.269	0.000	36051786	0.0247			
2	2	1.671	1.671	0.000	28566441	0.0249			
						RPD = 1.17			
6 PCB-1016									
1	100	1.538	1.538	0.000	11756192	0.4720		100.0	
1	2	1.819	1.819	0.000	21745008	0.4783	157.7- 207.7	185.0	
1	3	2.210	2.210	0.000	44984245	0.4917	335.7- 385.7	382.6	
1	4	2.330	2.330	0.000	19709506	0.4816	127.8- 197.8	167.7	
1	5	2.709	2.709	0.000	19846426	0.4805	140.6- 190.6	168.8	
			Average of Peak Amounts =			0.4808			
2	6	2.133	2.133	0.000	9250986	0.4836		100.0	
2	7	2.527	2.527	0.000	18577290	0.4836	173.3- 233.3	200.8	
2	8	2.978	2.978	0.000	38084148	0.4971	368.6- 428.6	411.7	
2	9	3.116	3.116	0.000	16327982	0.4925	147.6- 207.6	176.5	
2	10	3.219	3.219	0.000	12879316	0.4968	109.0- 169.0	139.2	
			Average of Peak Amounts =			0.4907			
						RPD = 2.03			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.908	3.908	0.000	29061483	0.4829		100.0	
1	2	4.195	4.195	0.000	52219838	0.4858	153.3- 203.3	179.7	
1	3	4.475	4.475	0.000	52498896	0.4891	152.7- 202.7	180.6	
1	4	5.176	5.176	0.000	60614980	0.4973	177.2- 227.2	208.6	
1	5	5.459	5.459	0.000	30111088	0.4890	77.3- 127.3	103.6	
			Average of Peak Amounts =			0.4888			
2	6	4.929	4.929	0.000	26093141	0.4833		100.0	
2	7	5.159	5.159	0.000	30426541	0.4837	86.6- 146.6	116.6	
2	8	5.527	5.527	0.000	45577639	0.4892	141.2- 201.2	174.7	
2	9	6.213	6.213	0.000	55108750	0.4946	175.0- 235.0	211.2	
2	10	6.594	6.594	0.000	38615425	0.4872	115.7- 175.7	148.0	
			Average of Peak Amounts =			0.4876			
						RPD = 0.25			
$ 12 DCB Decachlorobiphenyl									
1	100	6.616	6.616	0.000	30959116	0.0241			
2	2	7.830	7.830	0.000	26303358	0.0240			
						RPD = 0.62			

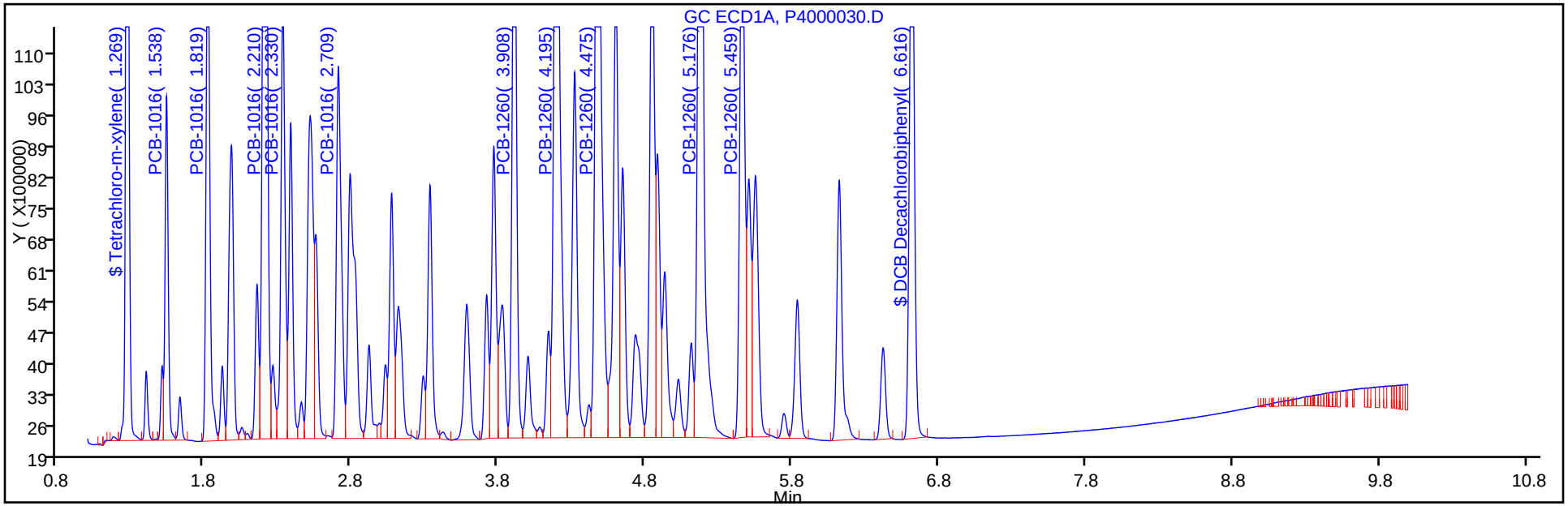
Report Date: 24-Jan-2013 07:49:29 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

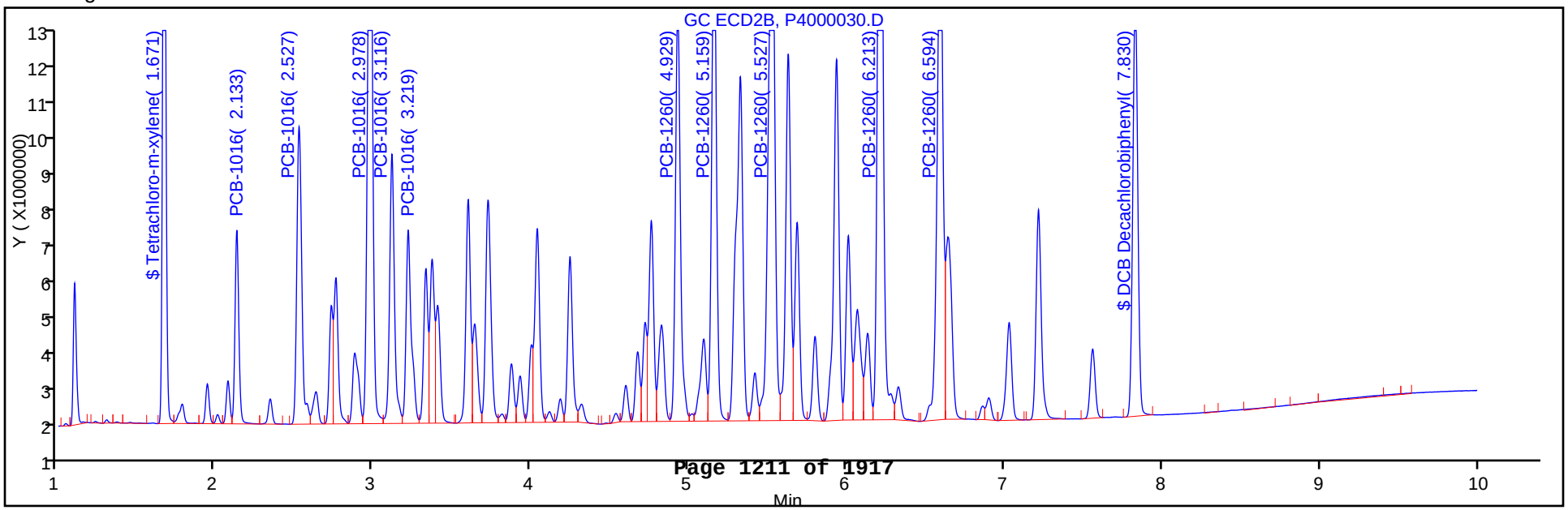
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000030.D

Injection Date:	23-Jan-2013 18:26:48	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	30
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000031.D
Lims ID: STD1 1660 Client ID:
Inject. Date: 23-Jan-2013 18:42:33 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0016796-031
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 31
Lims Batch ID: 72953 Lims Sample ID: 31
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:26 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

First Level Reviewer: hassl Date: 24-Jan-2013 07:43:09

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.270	1.269	0.001	72452274	0.0496			
2	2	1.671	1.671	0.000	58027048	0.0507			
						RPD = 2.24			
6 PCB-1016									M
1	100	1.538	1.538	0.000	22763051	0.9140		100.0	
1	2	1.819	1.819	0.000	41873472	0.9211	157.7- 207.7	184.0	M
1	3	2.210	2.210	0.000	89309171	0.9761	335.7- 385.7	392.3	M
1	4	2.330	2.330	0.000	39203590	0.9580	127.8- 197.8	172.2	M
1	5	2.709	2.709	0.000	39308284	0.9518	140.6- 190.6	172.7	M
			Average of Peak Amounts =			0.9442			
2	6	2.132	2.133	-0.001	17735743	0.9271		100.0	
2	7	2.527	2.527	0.000	35665826	0.9285	173.3- 233.3	201.1	
2	8	2.979	2.978	0.001	75793095	0.9892	368.6- 428.6	427.3	
2	9	3.116	3.116	0.000	32110611	0.9685	147.6- 207.6	181.1	
2	10	3.220	3.219	0.001	25489545	0.9832	109.0- 169.0	143.7	
			Average of Peak Amounts =			0.9593			
						RPD = 1.59			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.908	3.908	0.000	57684671	0.9586		100.0	
1	2	4.195	4.195	0.000	103941899	0.9669	153.3- 203.3	180.2	
1	3	4.475	4.475	0.000	105582253	0.9837	152.7- 202.7	183.0	
1	4	5.176	5.176	0.000	122952733	1.01	177.2- 227.2	213.1	
1	5	5.460	5.459	0.001	61431693	1.00	77.3- 127.3	106.5	
			Average of Peak Amounts =			0.9831			
2	6	4.930	4.929	0.001	51792008	0.9594		100.0	
2	7	5.160	5.159	0.001	60829967	0.9670	86.6- 146.6	117.5	
2	8	5.528	5.527	0.001	91516414	0.9822	141.2- 201.2	176.7	
2	9	6.213	6.213	0.000	109317855	0.9812	175.0- 235.0	211.1	
2	10	6.594	6.594	0.000	78109940	0.9856	115.7- 175.7	150.8	
			Average of Peak Amounts =			0.9751			
						RPD = 0.82			
$ 12 DCB Decachlorobiphenyl									
1	100	6.616	6.616	0.000	62361364	0.0486			
2	2	7.831	7.830	0.001	52431061	0.0478			
						RPD = 1.67			

QC Flag Legend

Review Flags
M - Manually Integrated

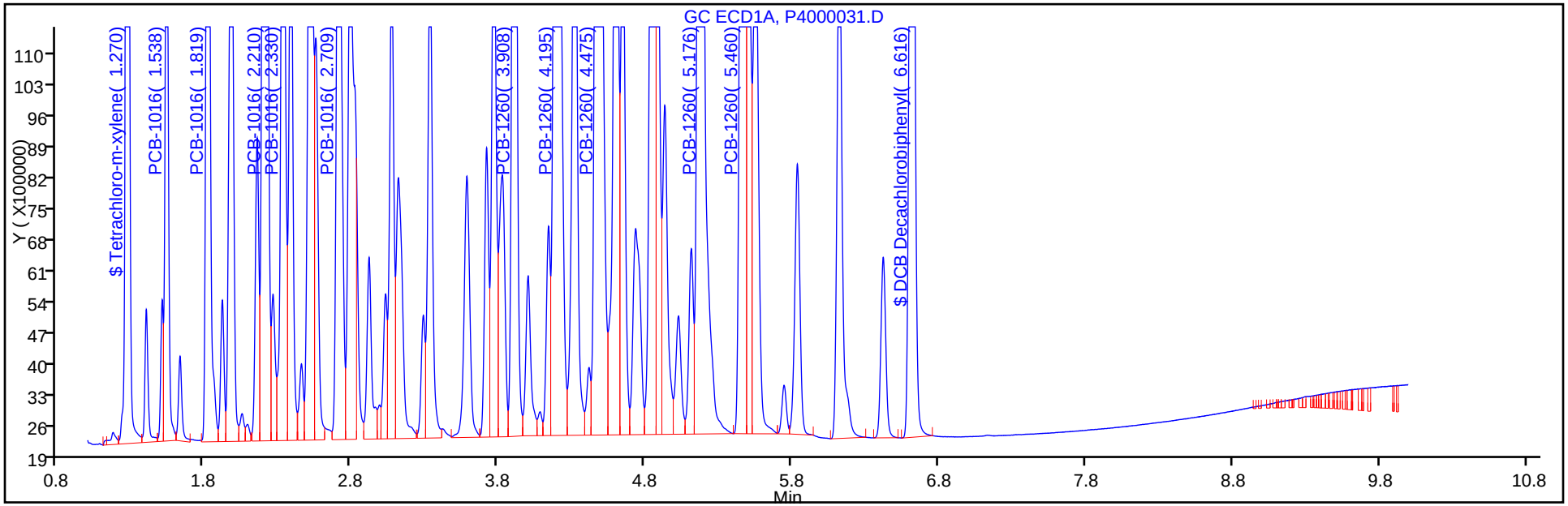
Report Date: 24-Jan-2013 07:49:27 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

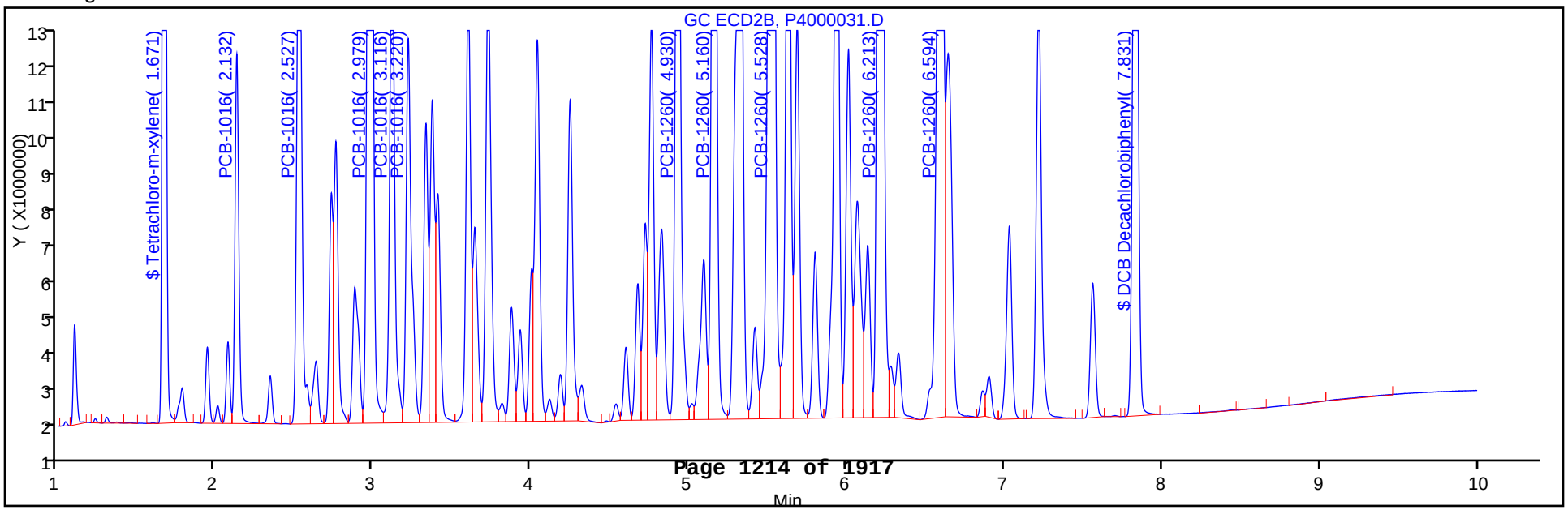
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000031.D

Injection Date:	23-Jan-2013 18:42:33	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	31
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



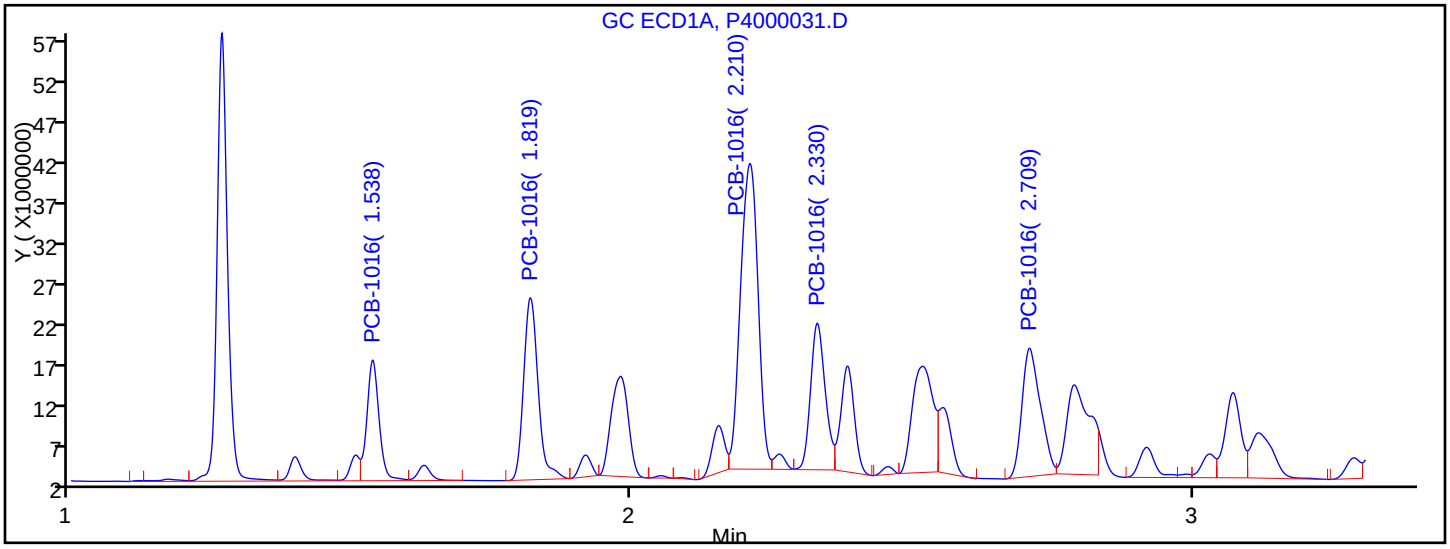
Report Date: 24-Jan-2013 07:49:27 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000031.D

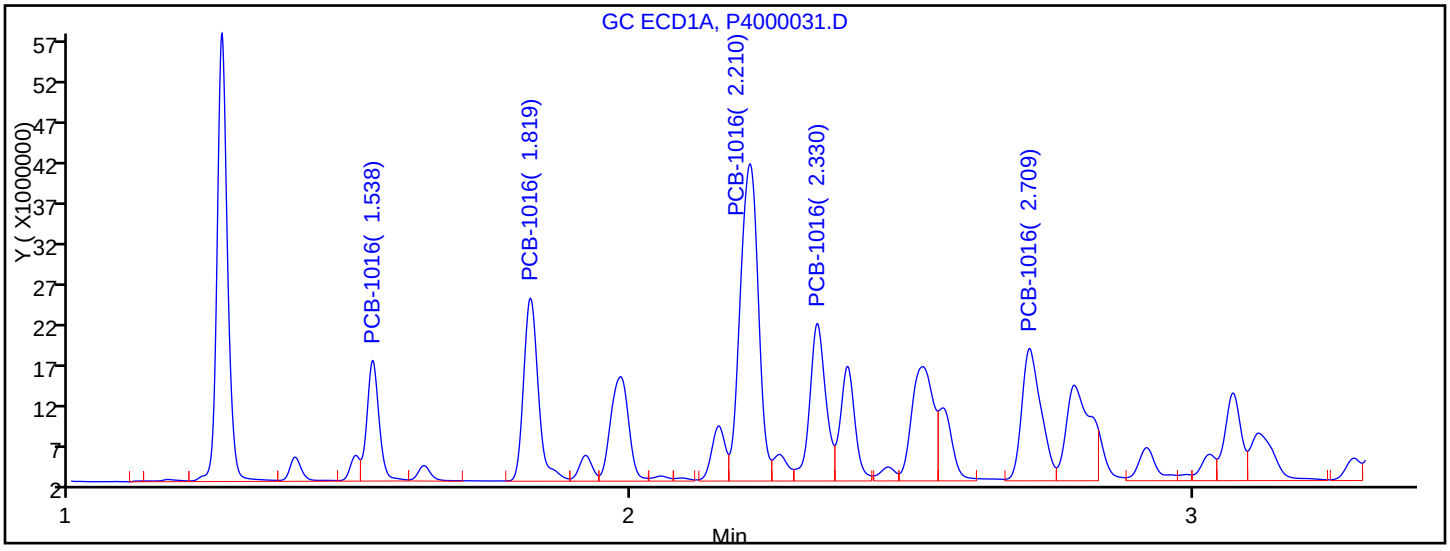
Injection Date:	23-Jan-2013 18:42:33	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	31
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

6 PCB-1016, Detector: 1, GC ECD1A



Processing Integration Results

RT = 1.538	Response = 22763051	
RT = 1.819	Response = 40798050	M
RT = 2.210	Response = 82714841	M
RT = 2.330	Response = 33252894	M
RT = 2.709	Response = 36522311	M



Manual Integration Results

RT = 1.538	Response = 22763051	
RT = 1.819	Response = 41873472	M
RT = 2.210	Response = 89309171	M
RT = 2.330	Response = 39203590	M
RT = 2.709	Response = 39308284	M

Reviewer: hassl, 24-Jan-2013 07:43:09

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000032.D
Lims ID: STD2 1660 Client ID:
Inject. Date: 23-Jan-2013 18:58:12 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0016796-032
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 32
Lims Batch ID: 72953 Lims Sample ID: 32
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:24 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.269	1.269	0.000	136246739	0.0932			
2	2	1.671	1.671	0.000	113409771	0.0990			
						RPD = 6.09			
6 PCB-1016									
1	100	1.538	1.538	0.000	42318835	1.70		100.0	
1	2	1.819	1.819	0.000	77546507	1.71	157.7- 207.7	183.2	
1	3	2.211	2.210	0.001	171174412	1.87	335.7- 385.7	404.5	
1	4	2.330	2.330	0.000	73863398	1.80	127.8- 197.8	174.5	
1	5	2.708	2.709	-0.001	74516292	1.80	140.6- 190.6	176.1	
			Average of Peak Amounts =			1.78			
2	6	2.132	2.133	-0.001	33610835	1.76		100.0	
2	7	2.527	2.527	0.000	66840422	1.74	173.3- 233.3	198.9	
2	8	2.978	2.978	0.000	146832964	1.92	368.6- 428.6	436.9	
2	9	3.116	3.116	0.000	61715088	1.86	147.6- 207.6	183.6	
2	10	3.219	3.219	0.000	49645719	1.91	109.0- 169.0	147.7	
			Average of Peak Amounts =			1.84			
						RPD = 3.37			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.907	3.908	-0.001	110771056	1.84		100.0	
1	2	4.194	4.195	-0.001	199056355	1.85	153.3- 203.3	179.7	
1	3	4.474	4.475	-0.001	204413485	1.90	152.7- 202.7	184.5	
1	4	5.175	5.176	-0.001	239078863	1.96	177.2- 227.2	215.8	
1	5	5.459	5.459	0.000	119870445	1.95	77.3- 127.3	108.2	
			Average of Peak Amounts =			1.90			
2	6	4.930	4.929	0.001	100790684	1.87		100.0	
2	7	5.160	5.159	0.001	118381646	1.88	86.6- 146.6	117.5	
2	8	5.528	5.527	0.001	179032158	1.92	141.2- 201.2	177.6	
2	9	6.213	6.213	0.000	218480385	1.96	175.0- 235.0	216.8	
2	10	6.593	6.594	-0.001	152152454	1.92	115.7- 175.7	151.0	
			Average of Peak Amounts =			1.91			
						RPD = 0.48			
$ 12 DCB Decachlorobiphenyl									
1	100	6.617	6.616	0.001	118826526	0.0926			
2	2	7.830	7.830	0.000	99307186	0.0905			
						RPD = 2.27			

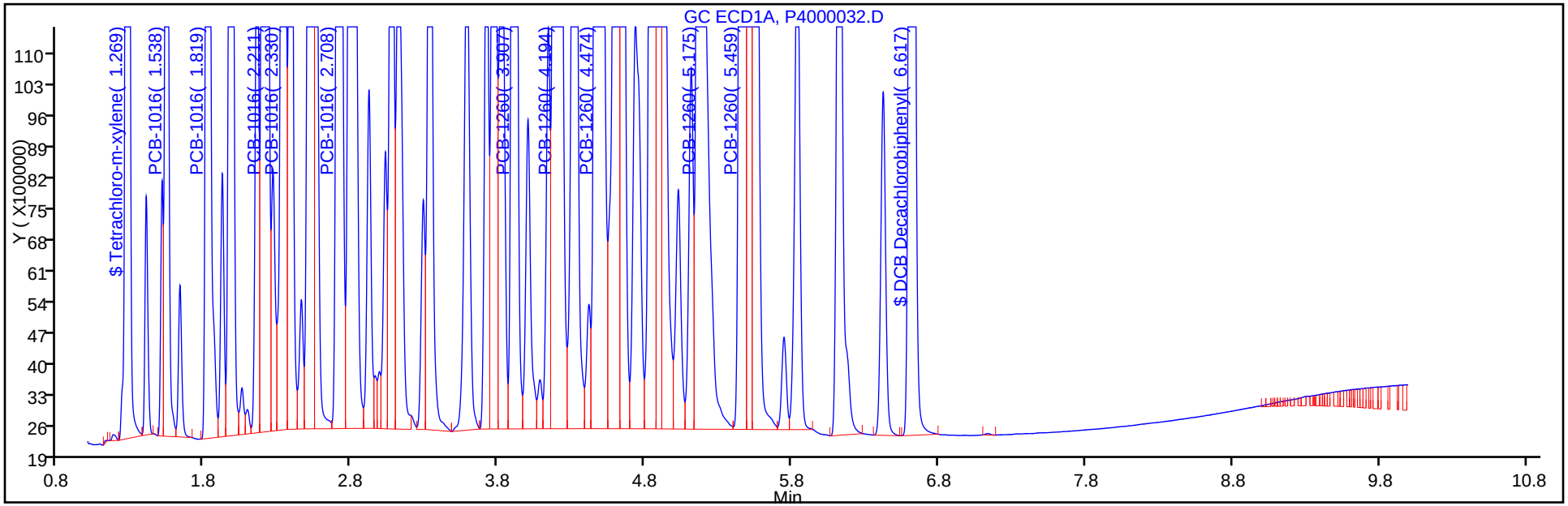
Report Date: 24-Jan-2013 07:49:25 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

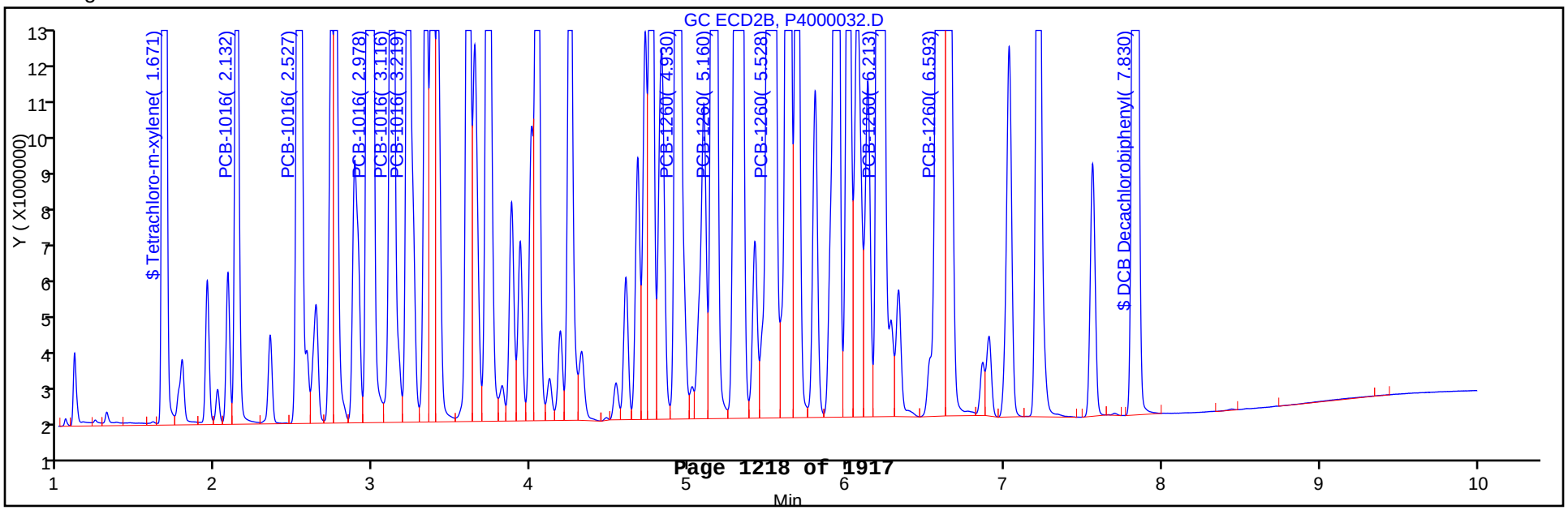
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000032.D

Injection Date:	23-Jan-2013 18:58:12	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	32
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 17:39 Calibration End Date: 01/23/2013 18:58 Calibration ID: 13430

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/27	P4000027.D
Level 2	STD01 240-72953/28	P4000028.D
Level 3	STD02 240-72953/29	P4000029.D
Level 4	STD05 240-72953/30	P4000030.D
Level 5	STD1 240-72953/31	P4000031.D
Level 6	STD2 240-72953/32	P4000032.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1016 Peak 1	2.132	2.132	2.133	2.133	2.132	2.132					2.033 - 2.233	2.132
PCB-1016 Peak 2	2.527	2.527	2.528	2.527	2.527	2.527					2.427 - 2.627	2.527
PCB-1016 Peak 3	2.978	2.979	2.979	2.978	2.979	2.978					2.878 - 3.078	2.979
PCB-1016 Peak 4	3.115	3.115	3.117	3.116	3.116	3.116					3.016 - 3.216	3.116
PCB-1016 Peak 5	3.218	3.219	3.220	3.219	3.220	3.219					3.119 - 3.319	3.219
PCB-1260 Peak 1	4.928	4.930	4.930	4.929	4.930	4.930					4.829 - 5.029	4.930
PCB-1260 Peak 2	5.159	5.160	5.160	5.159	5.160	5.160					5.059 - 5.259	5.160
PCB-1260 Peak 3	5.527	5.526	5.526	5.527	5.528	5.528					5.427 - 5.627	5.527
PCB-1260 Peak 4	6.213	6.213	6.213	6.213	6.213	6.213					6.113 - 6.313	6.213
PCB-1260 Peak 5	6.593	6.595	6.595	6.594	6.594	6.593					6.494 - 6.694	6.594
Tetrachloro-m-xylene	1.672	1.671	1.672	1.671	1.671	1.671					1.571 - 1.771	1.671
DCB Decachlorobiphenyl	7.832	7.832	7.832	7.830	7.831	7.830					7.730 - 7.930	7.831

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 17:39 Calibration End Date: 01/23/2013 18:58 Calibration ID: 13430

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/27	P4000027.D
Level 2	STD01 240-72953/28	P4000028.D
Level 3	STD02 240-72953/29	P4000029.D
Level 4	STD05 240-72953/30	P4000030.D
Level 5	STD1 240-72953/31	P4000031.D
Level 6	STD2 240-72953/32	P4000032.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 6	LVL 3	LVL 4		B	M1	M2								
PCB-1016 Peak 1	22183120 17735743	20438410 16805418	19119395	18501972	Ave		19130676.3				10.0		20.0			
PCB-1016 Peak 2	44463880 35665826	40896390 33420211	38878220	37154580	Ave		38413184.5				10.0		20.0			
PCB-1016 Peak 3	82000480 75793095	76121720 73416482	76212760	76168296	Ave		76618805.5				3.7		20.0			
PCB-1016 Peak 4	36204920 32110611	33134750 30857544	33963685	32655964	Ave		33154579.0				5.5		20.0			
PCB-1016 Peak 5	27460480 25489545	25435290 24822860	26584600	25758632	Ave		25925234.4				3.6		20.0			
PCB-1260 Peak 1	59153420 51792008	56534850 50395342	53855455	52186282	Ave		53986226.2				6.1		20.0			
PCB-1260 Peak 2	68291060 60829967	65467150 59190823	62801525	60853082	Ave		62905601.2				5.4		20.0			
PCB-1260 Peak 3	99660560 91516414	94978590 89516079	92209780	91155278	Ave		93172783.5				3.9		20.0			
PCB-1260 Peak 4	117300780 109317855	112045480 109240193	110383745	110217500	Ave		111417592				2.7		20.0			
PCB-1260 Peak 5	85199340 78109940	80446760 76076227	78466735	77230850	Ave		79254975.3				4.1		20.0			
Tetrachloro-m-xylene	1197228400 1160540960	1111878000 1134097710	1123757200	1142657640	Ave		1145026652				2.7		20.0			
DCB Decachlorobiphenyl	1233774000 1048621220	1133394000 993071860	1124145600	1052134320	Ave		1097523500				7.7		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-21987-1 Analy Batch No.: 72953

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2013 17:39 Calibration End Date: 01/23/2013 18:58 Calibration ID: 13430

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-72953/27	P4000027.D
Level 2	STD01 240-72953/28	P4000028.D
Level 3	STD02 240-72953/29	P4000029.D
Level 4	STD05 240-72953/30	P4000030.D
Level 5	STD1 240-72953/31	P4000031.D
Level 6	STD2 240-72953/32	P4000032.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Ave	1109156 33610835	2043841	3823879	9250986	17735743	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 2	Ave	2223194 66840422	4089639	7775644	18577290	35665826	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 3	Ave	4100024 146832964	7612172	15242552	38084148	75793095	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 4	Ave	1810246 61715088	3313475	6792737	16327982	32110611	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 5	Ave	1373024 49645719	2543529	5316920	12879316	25489545	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 1	Ave	2957671 100790684	5653485	10771091	26093141	51792008	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 2	Ave	3414553 118381646	6546715	12560305	30426541	60829967	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 3	Ave	4983028 179032158	9497859	18441956	45577639	91516414	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 4	Ave	5865039 218480385	11204548	22076749	55108750	109317855	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 5	Ave	4259967 152152454	8044676	15693347	38615425	78109940	0.0500 2.00	0.100	0.200	0.500	1.00
Tetrachloro-m-xylene	Ave	2993071 113409771	5559390	11237572	28566441	58027048	0.00250 0.100	0.00500	0.0100	0.0250	0.0500
DCB Decachlorobiphenyl	Ave	3084435 99307186	5666970	11241456	26303358	52431061	0.00250 0.100	0.00500	0.0100	0.0250	0.0500

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000027.D
Lims ID: STD005 1660 Client ID:
Inject. Date: 23-Jan-2013 17:39:41 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0016796-027
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 27
Lims Batch ID: 72953 Lims Sample ID: 27
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:35 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.269	1.269	0.000	4046148	0.002767			
2	2	1.672	1.671	0.001	2993071	0.002614			
						RPD = 5.70			
6 PCB-1016									
1	100	1.538	1.538	0.000	1516942	0.0609		100.0	
1	2	1.819	1.819	0.000	2724435	0.0599	157.7- 207.7	179.6	
1	3	2.211	2.210	0.001	5045696	0.0551	335.7- 385.7	332.6	
1	4	2.331	2.330	0.001	2331063	0.0570	127.8- 197.8	153.7	
1	5	2.708	2.709	-0.001	2336893	0.0566	140.6- 190.6	154.1	
			Average of Peak Amounts =			0.0579			
2	6	2.132	2.133	-0.001	1109156	0.0580		100.0	
2	7	2.527	2.527	0.000	2223194	0.0579	173.3- 233.3	200.4	
2	8	2.978	2.978	0.000	4100024	0.0535	368.6- 428.6	369.7	
2	9	3.115	3.116	-0.001	1810246	0.0546	147.6- 207.6	163.2	
2	10	3.218	3.219	-0.001	1373024	0.0530	109.0- 169.0	123.8	
			Average of Peak Amounts =			0.0554			
						RPD = 4.45			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.908	3.908	0.000	3374317	0.0561		100.0	
1	2	4.194	4.195	-0.001	5970643	0.0555	153.3- 203.3	176.9	
1	3	4.474	4.475	-0.001	5810787	0.0541	152.7- 202.7	172.2	
1	4	5.176	5.176	0.000	6305749	0.0517	177.2- 227.2	186.9	
1	5	5.460	5.459	0.001	3224368	0.0524	77.3- 127.3	95.6	
			Average of Peak Amounts =			0.0540			
2	6	4.928	4.929	-0.001	2957671	0.0548		100.0	
2	7	5.159	5.159	0.000	3414553	0.0543	86.6- 146.6	115.4	
2	8	5.527	5.527	0.000	4983028	0.0535	141.2- 201.2	168.5	
2	9	6.213	6.213	0.000	5865039	0.0526	175.0- 235.0	198.3	
2	10	6.593	6.594	-0.001	4259967	0.0538	115.7- 175.7	144.0	
			Average of Peak Amounts =			0.0538			
						RPD = 0.34			
$ 12 DCB Decachlorobiphenyl									
1	100	6.617	6.616	0.001	3544817	0.002761			
2	2	7.832	7.830	0.002	3084435	0.002810			
						RPD = 1.77			

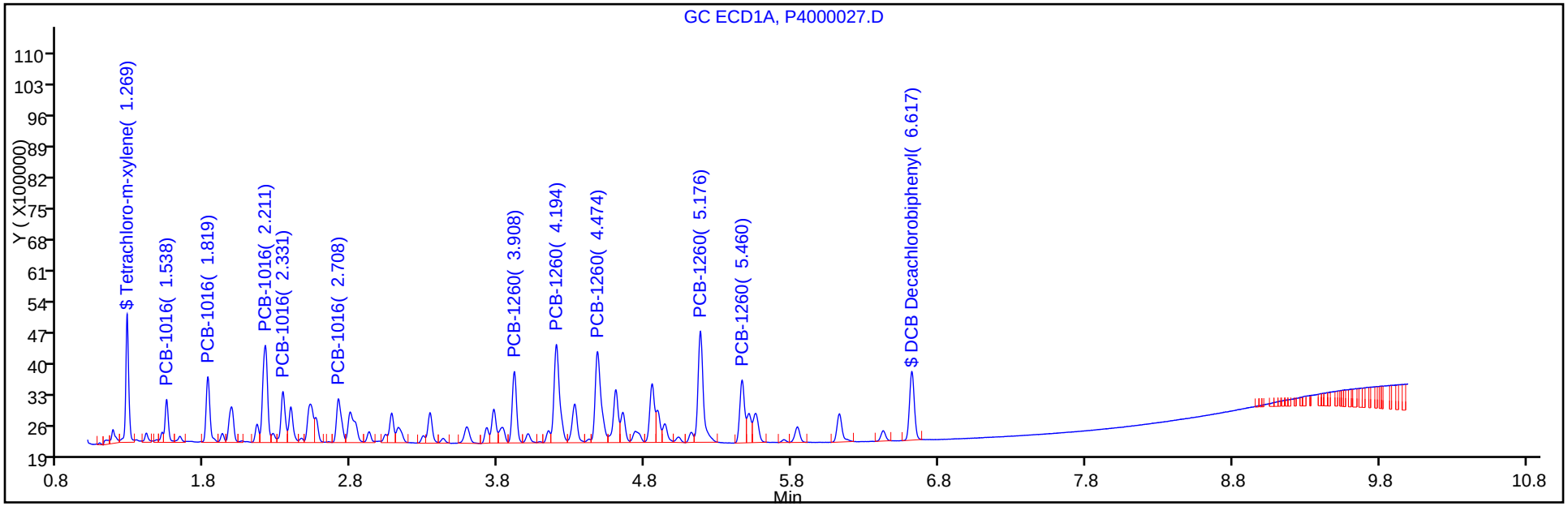
Report Date: 24-Jan-2013 07:49:36 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

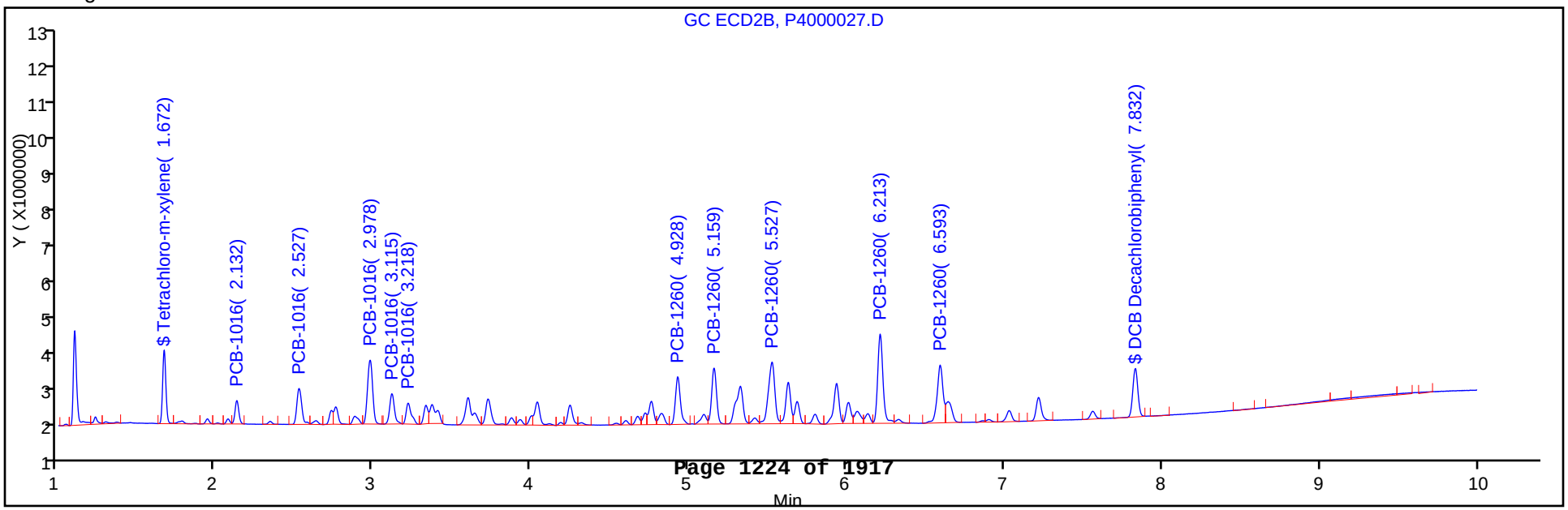
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000027.D

Injection Date:	23-Jan-2013 17:39:41	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	27
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000028.D
Lims ID: STD01 1660 Client ID:
Inject. Date: 23-Jan-2013 17:55:23 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0016796-028
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 28
Lims Batch ID: 72953 Lims Sample ID: 28
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:33 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.269	1.269	0.000	7294871	0.004989			
2	2	1.671	1.671	0.000	5559390	0.004855			
						RPD = 2.73			
6 PCB-1016									
1	100	1.538	1.538	0.000	2677061	0.1075		100.0	
1	2	1.819	1.819	0.000	4867819	0.1071	157.7- 207.7	181.8	
1	3	2.210	2.210	0.000	9343485	0.1021	335.7- 385.7	349.0	
1	4	2.331	2.330	0.001	4285609	0.1047	127.8- 197.8	160.1	
1	5	2.710	2.709	0.001	4360238	0.1056	140.6- 190.6	162.9	
			Average of Peak Amounts =			0.1054			
2	6	2.132	2.133	-0.001	2043841	0.1068		100.0	
2	7	2.527	2.527	0.000	4089639	0.1065	173.3- 233.3	200.1	
2	8	2.979	2.978	0.001	7612172	0.0994	368.6- 428.6	372.4	
2	9	3.115	3.116	-0.001	3313475	0.0999	147.6- 207.6	162.1	
2	10	3.219	3.219	0.000	2543529	0.0981	109.0- 169.0	124.4	
			Average of Peak Amounts =			0.1021			
						RPD = 3.14			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.908	3.908	0.000	6259579	0.1040		100.0	
1	2	4.195	4.195	0.000	11107405	0.1033	153.3- 203.3	177.4	
1	3	4.475	4.475	0.000	10875763	0.1013	152.7- 202.7	173.7	
1	4	5.175	5.176	-0.001	12066210	0.0990	177.2- 227.2	192.8	
1	5	5.460	5.459	0.001	6222457	0.1011	77.3- 127.3	99.4	
			Average of Peak Amounts =			0.1017			
2	6	4.930	4.929	0.001	5653485	0.1047		100.0	
2	7	5.160	5.159	0.001	6546715	0.1041	86.6- 146.6	115.8	
2	8	5.526	5.527	-0.001	9497859	0.1019	141.2- 201.2	168.0	
2	9	6.213	6.213	0.000	11204548	0.1006	175.0- 235.0	198.2	
2	10	6.595	6.594	0.001	8044676	0.1015	115.7- 175.7	142.3	
			Average of Peak Amounts =			0.1026			
						RPD = 0.80			
$ 12 DCB Decachlorobiphenyl									
1	100	6.618	6.616	0.002	6535668	0.005091			
2	2	7.832	7.830	0.002	5666970	0.005163			
						RPD = 1.42			

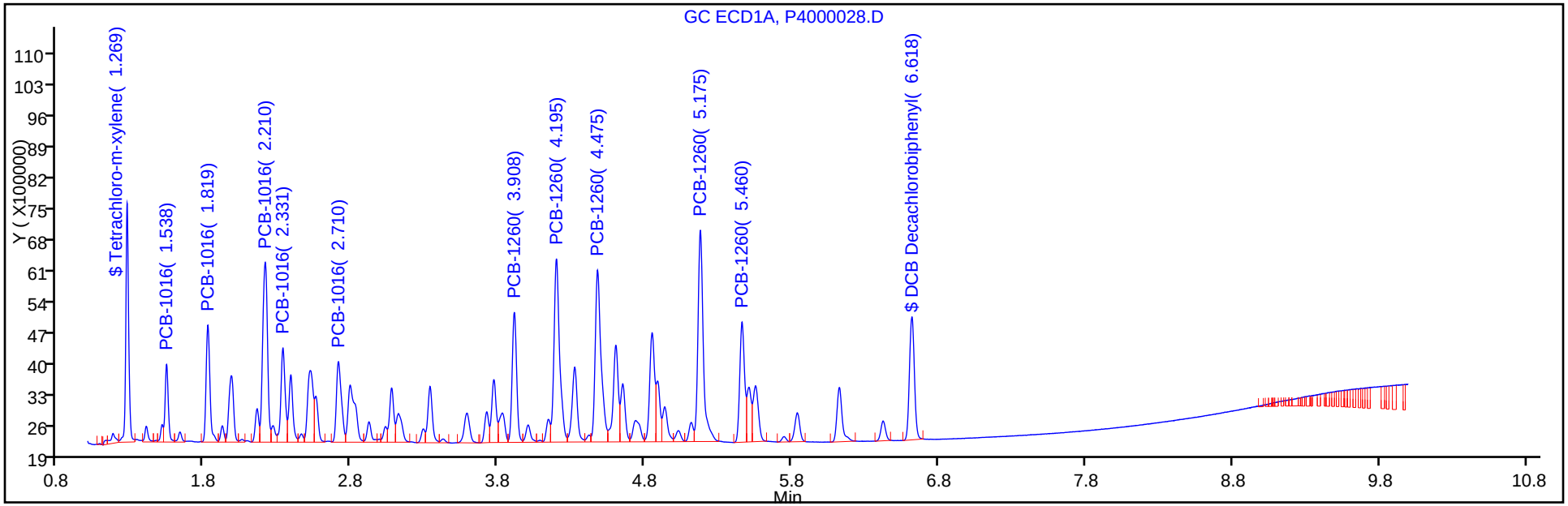
Report Date: 24-Jan-2013 07:49:34 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

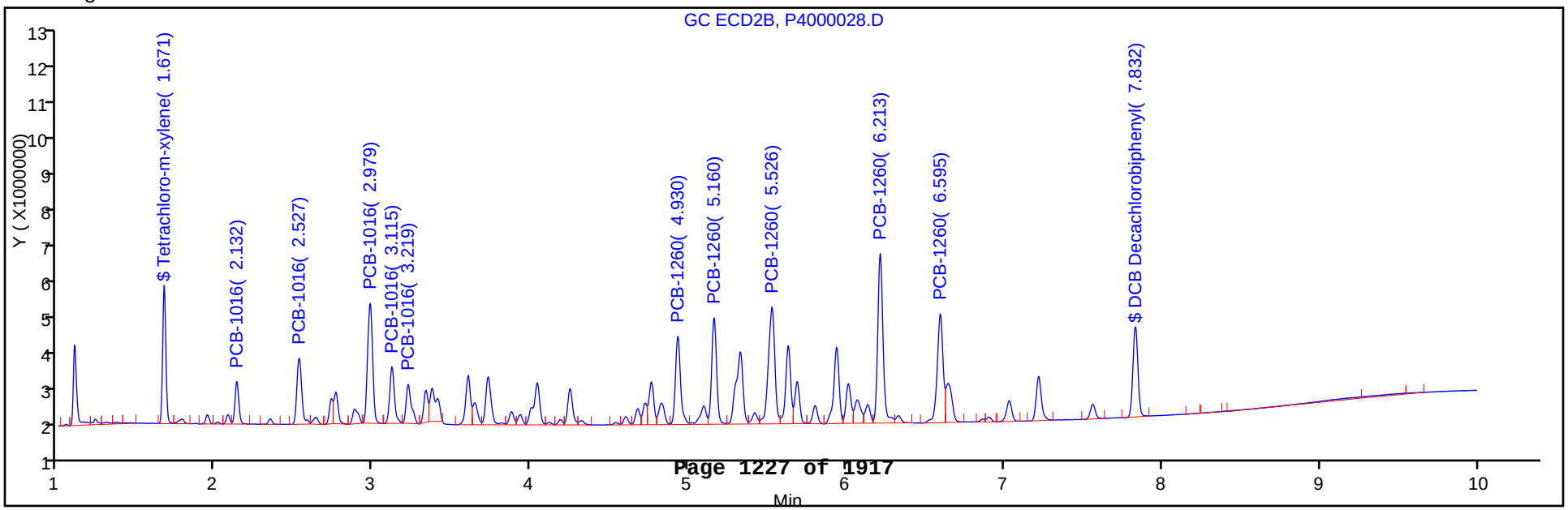
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000028.D

Injection Date:	23-Jan-2013 17:55:23	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	28
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000029.D
Lims ID: STD02 1660 Client ID:
Inject. Date: 23-Jan-2013 18:11:08 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0016796-029
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 29
Lims Batch ID: 72953 Lims Sample ID: 29
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:30 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.270	1.269	0.001	14413503	0.009858			
2	2	1.672	1.671	0.001	11237572	0.009814			
						RPD = 0.45			
6 PCB-1016									
1	100	1.539	1.538	0.001	4976845	0.1998		100.0	
1	2	1.820	1.819	0.001	9093028	0.2000	157.7- 207.7	182.7	
1	3	2.211	2.210	0.001	17949316	0.1962	335.7- 385.7	360.7	
1	4	2.331	2.330	0.001	8101913	0.1980	127.8- 197.8	162.8	
1	5	2.710	2.709	0.001	8239698	0.1995	140.6- 190.6	165.6	
			Average of Peak Amounts =			0.1987			
2	6	2.133	2.133	0.000	3823879	0.1999		100.0	
2	7	2.528	2.527	0.001	7775644	0.2024	173.3- 233.3	203.3	
2	8	2.979	2.978	0.001	15242552	0.1989	368.6- 428.6	398.6	
2	9	3.117	3.116	0.001	6792737	0.2049	147.6- 207.6	177.6	
2	10	3.220	3.219	0.001	5316920	0.2051	109.0- 169.0	139.0	
			Average of Peak Amounts =			0.2022			
						RPD = 1.76			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.908	3.908	0.000	11956665	0.1987		100.0	
1	2	4.195	4.195	0.000	21317484	0.1983	153.3- 203.3	178.3	
1	3	4.475	4.475	0.000	21252516	0.1980	152.7- 202.7	177.7	
1	4	5.176	5.176	0.000	24180243	0.1984	177.2- 227.2	202.2	
1	5	5.460	5.459	0.001	12228279	0.1986	77.3- 127.3	102.3	
			Average of Peak Amounts =			0.1984			
2	6	4.930	4.929	0.001	10771091	0.1995		100.0	
2	7	5.160	5.159	0.001	12560305	0.1997	86.6- 146.6	116.6	
2	8	5.526	5.527	-0.001	18441956	0.1979	141.2- 201.2	171.2	
2	9	6.213	6.213	0.000	22076749	0.1981	175.0- 235.0	205.0	
2	10	6.595	6.594	0.001	15693347	0.1980	115.7- 175.7	145.7	
			Average of Peak Amounts =			0.1987			
						RPD = 0.13			
$ 12 DCB Decachlorobiphenyl									
1	100	6.617	6.616	0.001	13039553	0.0102			
2	2	7.832	7.830	0.002	11241456	0.0102			
						RPD = 0.84			

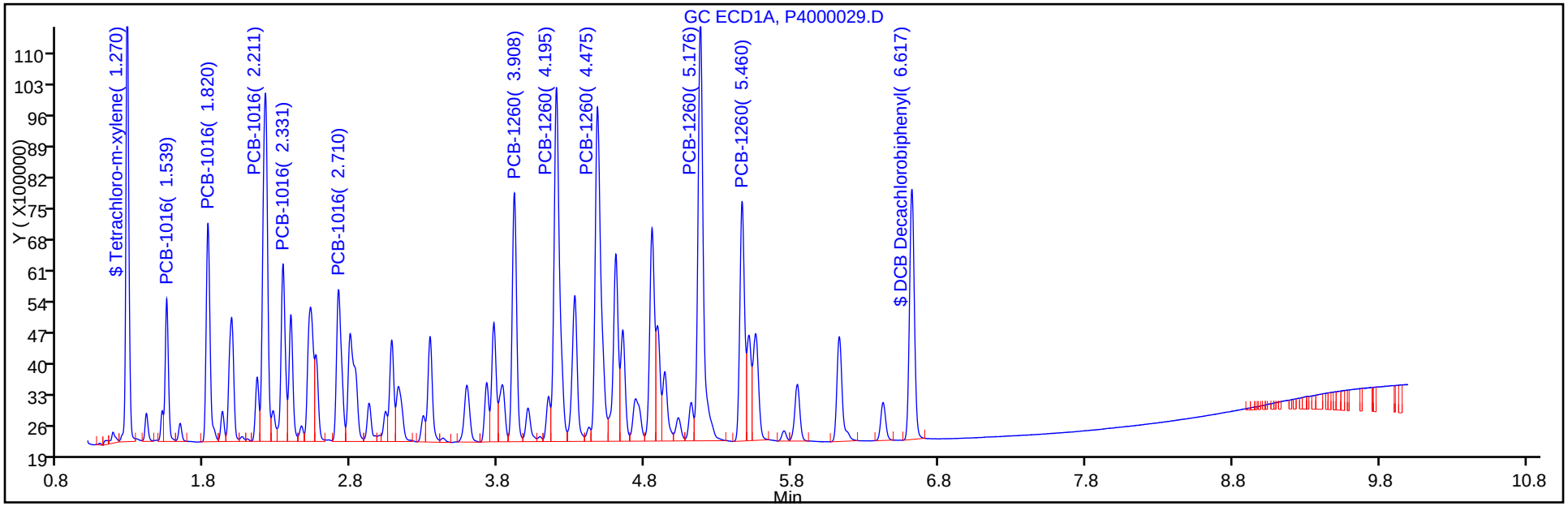
Report Date: 24-Jan-2013 07:49:32 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

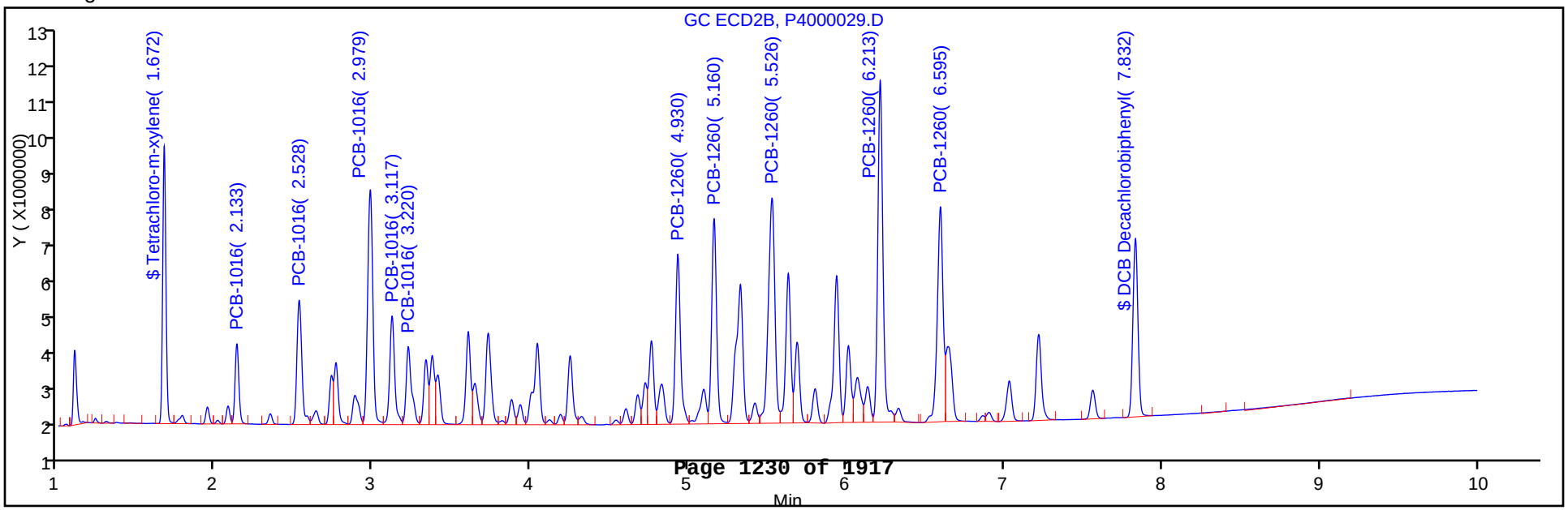
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000029.D

Injection Date:	23-Jan-2013 18:11:08	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	29
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000030.D
Lims ID: STD05 1660 Client ID:
Inject. Date: 23-Jan-2013 18:26:48 Dil. Factor: 1.0000
Sample Type: ICRT Calib Level: 4
Sample ID: 240-0016796-030
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 30
Lims Batch ID: 72953 Lims Sample ID: 30
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:28 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.269	1.269	0.000	36051786	0.0247			
2	2	1.671	1.671	0.000	28566441	0.0249			
						RPD = 1.17			
6 PCB-1016									
1	100	1.538	1.538	0.000	11756192	0.4720		100.0	
1	2	1.819	1.819	0.000	21745008	0.4783	157.7- 207.7	185.0	
1	3	2.210	2.210	0.000	44984245	0.4917	335.7- 385.7	382.6	
1	4	2.330	2.330	0.000	19709506	0.4816	127.8- 197.8	167.7	
1	5	2.709	2.709	0.000	19846426	0.4805	140.6- 190.6	168.8	
			Average of Peak Amounts =			0.4808			
2	6	2.133	2.133	0.000	9250986	0.4836		100.0	
2	7	2.527	2.527	0.000	18577290	0.4836	173.3- 233.3	200.8	
2	8	2.978	2.978	0.000	38084148	0.4971	368.6- 428.6	411.7	
2	9	3.116	3.116	0.000	16327982	0.4925	147.6- 207.6	176.5	
2	10	3.219	3.219	0.000	12879316	0.4968	109.0- 169.0	139.2	
			Average of Peak Amounts =			0.4907			
						RPD = 2.03			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.908	3.908	0.000	29061483	0.4829		100.0	
1	2	4.195	4.195	0.000	52219838	0.4858	153.3- 203.3	179.7	
1	3	4.475	4.475	0.000	52498896	0.4891	152.7- 202.7	180.6	
1	4	5.176	5.176	0.000	60614980	0.4973	177.2- 227.2	208.6	
1	5	5.459	5.459	0.000	30111088	0.4890	77.3- 127.3	103.6	
			Average of Peak Amounts =			0.4888			
2	6	4.929	4.929	0.000	26093141	0.4833		100.0	
2	7	5.159	5.159	0.000	30426541	0.4837	86.6- 146.6	116.6	
2	8	5.527	5.527	0.000	45577639	0.4892	141.2- 201.2	174.7	
2	9	6.213	6.213	0.000	55108750	0.4946	175.0- 235.0	211.2	
2	10	6.594	6.594	0.000	38615425	0.4872	115.7- 175.7	148.0	
			Average of Peak Amounts =			0.4876			
						RPD = 0.25			
$ 12 DCB Decachlorobiphenyl									
1	100	6.616	6.616	0.000	30959116	0.0241			
2	2	7.830	7.830	0.000	26303358	0.0240			
						RPD = 0.62			

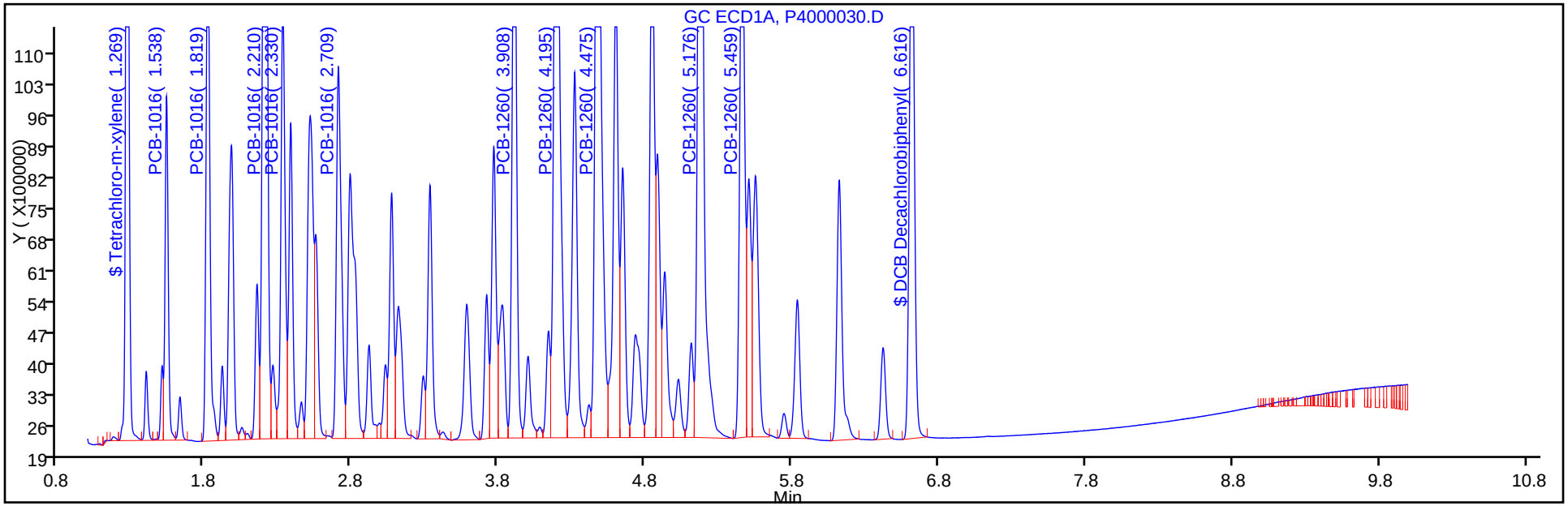
Report Date: 24-Jan-2013 07:49:29 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

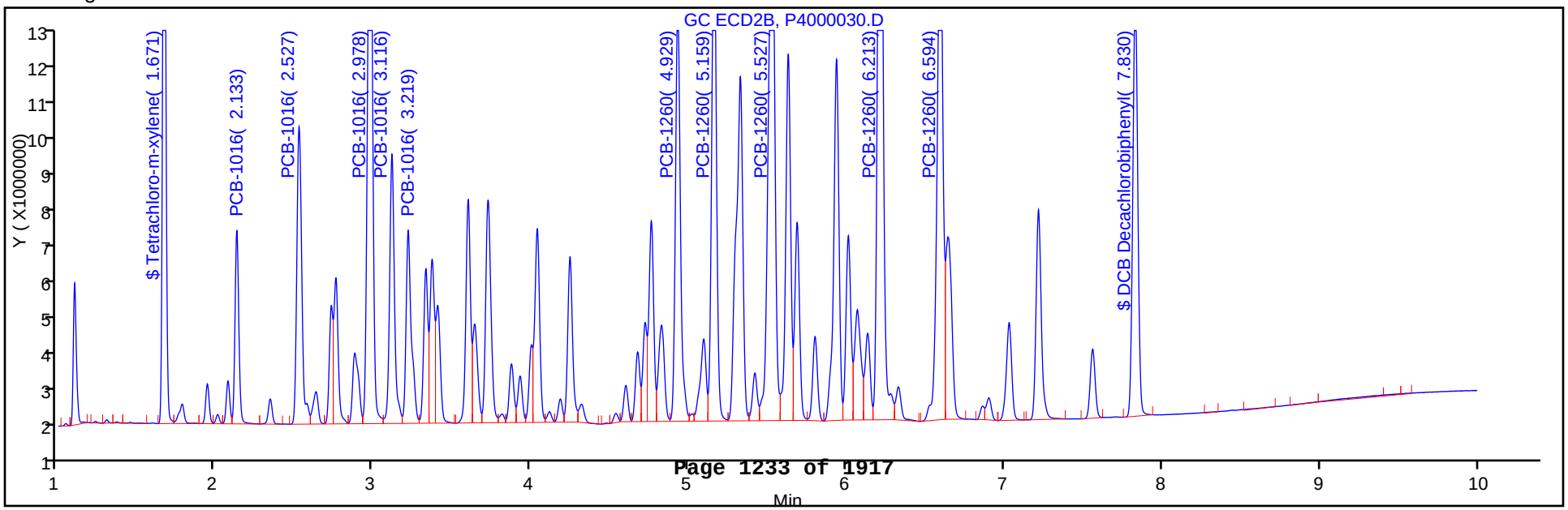
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000030.D

Injection Date:	23-Jan-2013 18:26:48	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	30
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000031.D
Lims ID: STD1 1660 Client ID:
Inject. Date: 23-Jan-2013 18:42:33 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0016796-031
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 31
Lims Batch ID: 72953 Lims Sample ID: 31
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:26 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

First Level Reviewer: hassl Date: 24-Jan-2013 07:43:09

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.270	1.269	0.001	72452274	0.0496			
2	2	1.671	1.671	0.000	58027048	0.0507			
						RPD = 2.24			
6 PCB-1016									M
1	100	1.538	1.538	0.000	22763051	0.9140		100.0	
1	2	1.819	1.819	0.000	41873472	0.9211	157.7- 207.7	184.0	M
1	3	2.210	2.210	0.000	89309171	0.9761	335.7- 385.7	392.3	M
1	4	2.330	2.330	0.000	39203590	0.9580	127.8- 197.8	172.2	M
1	5	2.709	2.709	0.000	39308284	0.9518	140.6- 190.6	172.7	M
			Average of Peak Amounts =			0.9442			
2	6	2.132	2.133	-0.001	17735743	0.9271		100.0	
2	7	2.527	2.527	0.000	35665826	0.9285	173.3- 233.3	201.1	
2	8	2.979	2.978	0.001	75793095	0.9892	368.6- 428.6	427.3	
2	9	3.116	3.116	0.000	32110611	0.9685	147.6- 207.6	181.1	
2	10	3.220	3.219	0.001	25489545	0.9832	109.0- 169.0	143.7	
			Average of Peak Amounts =			0.9593			
						RPD = 1.59			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.908	3.908	0.000	57684671	0.9586		100.0	
1	2	4.195	4.195	0.000	103941899	0.9669	153.3- 203.3	180.2	
1	3	4.475	4.475	0.000	105582253	0.9837	152.7- 202.7	183.0	
1	4	5.176	5.176	0.000	122952733	1.01	177.2- 227.2	213.1	
1	5	5.460	5.459	0.001	61431693	1.00	77.3- 127.3	106.5	
			Average of Peak Amounts =			0.9831			
2	6	4.930	4.929	0.001	51792008	0.9594		100.0	
2	7	5.160	5.159	0.001	60829967	0.9670	86.6- 146.6	117.5	
2	8	5.528	5.527	0.001	91516414	0.9822	141.2- 201.2	176.7	
2	9	6.213	6.213	0.000	109317855	0.9812	175.0- 235.0	211.1	
2	10	6.594	6.594	0.000	78109940	0.9856	115.7- 175.7	150.8	
			Average of Peak Amounts =			0.9751			
						RPD = 0.82			
$ 12 DCB Decachlorobiphenyl									
1	100	6.616	6.616	0.000	62361364	0.0486			
2	2	7.831	7.830	0.001	52431061	0.0478			
						RPD = 1.67			

QC Flag Legend

Review Flags
M - Manually Integrated

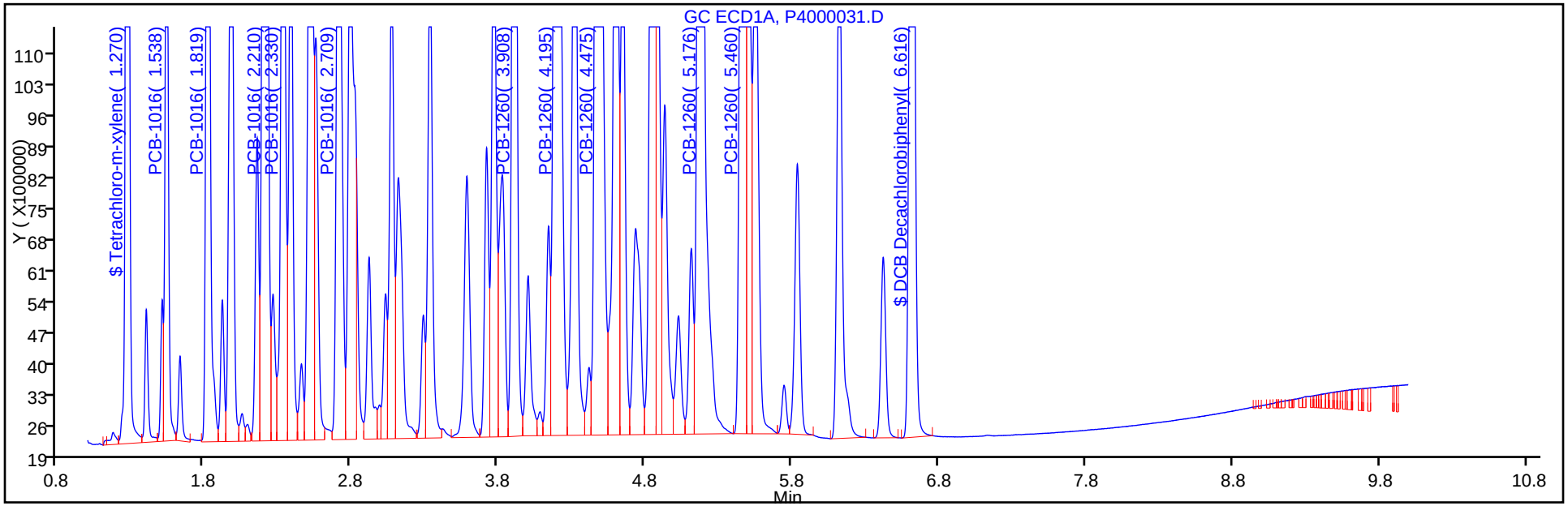
Report Date: 24-Jan-2013 07:49:27 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

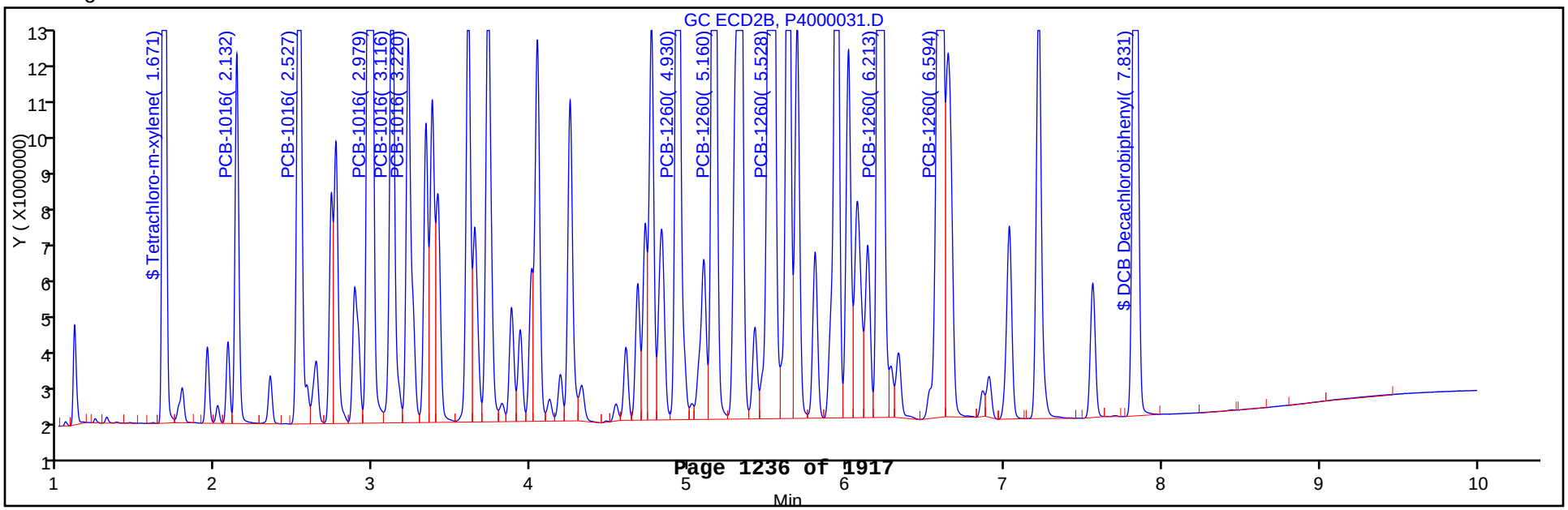
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000031.D

Injection Date:	23-Jan-2013 18:42:33	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	31
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000032.D
Lims ID: STD2 1660 Client ID:
Inject. Date: 23-Jan-2013 18:58:12 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0016796-032
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 32
Lims Batch ID: 72953 Lims Sample ID: 32
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:49:24 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.269	1.269	0.000	136246739	0.0932			
2	2	1.671	1.671	0.000	113409771	0.0990			
						RPD = 6.09			
6 PCB-1016									
1	100	1.538	1.538	0.000	42318835	1.70		100.0	
1	2	1.819	1.819	0.000	77546507	1.71	157.7- 207.7	183.2	
1	3	2.211	2.210	0.001	171174412	1.87	335.7- 385.7	404.5	
1	4	2.330	2.330	0.000	73863398	1.80	127.8- 197.8	174.5	
1	5	2.708	2.709	-0.001	74516292	1.80	140.6- 190.6	176.1	
			Average of Peak Amounts =			1.78			
2	6	2.132	2.133	-0.001	33610835	1.76		100.0	
2	7	2.527	2.527	0.000	66840422	1.74	173.3- 233.3	198.9	
2	8	2.978	2.978	0.000	146832964	1.92	368.6- 428.6	436.9	
2	9	3.116	3.116	0.000	61715088	1.86	147.6- 207.6	183.6	
2	10	3.219	3.219	0.000	49645719	1.91	109.0- 169.0	147.7	
			Average of Peak Amounts =			1.84			
						RPD = 3.37			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.907	3.908	-0.001	110771056	1.84		100.0	
1	2	4.194	4.195	-0.001	199056355	1.85	153.3- 203.3	179.7	
1	3	4.474	4.475	-0.001	204413485	1.90	152.7- 202.7	184.5	
1	4	5.175	5.176	-0.001	239078863	1.96	177.2- 227.2	215.8	
1	5	5.459	5.459	0.000	119870445	1.95	77.3- 127.3	108.2	
			Average of Peak Amounts =			1.90			
2	6	4.930	4.929	0.001	100790684	1.87		100.0	
2	7	5.160	5.159	0.001	118381646	1.88	86.6- 146.6	117.5	
2	8	5.528	5.527	0.001	179032158	1.92	141.2- 201.2	177.6	
2	9	6.213	6.213	0.000	218480385	1.96	175.0- 235.0	216.8	
2	10	6.593	6.594	-0.001	152152454	1.92	115.7- 175.7	151.0	
			Average of Peak Amounts =			1.91			
						RPD = 0.48			
$ 12 DCB Decachlorobiphenyl									
1	100	6.617	6.616	0.001	118826526	0.0926			
2	2	7.830	7.830	0.000	99307186	0.0905			
						RPD = 2.27			

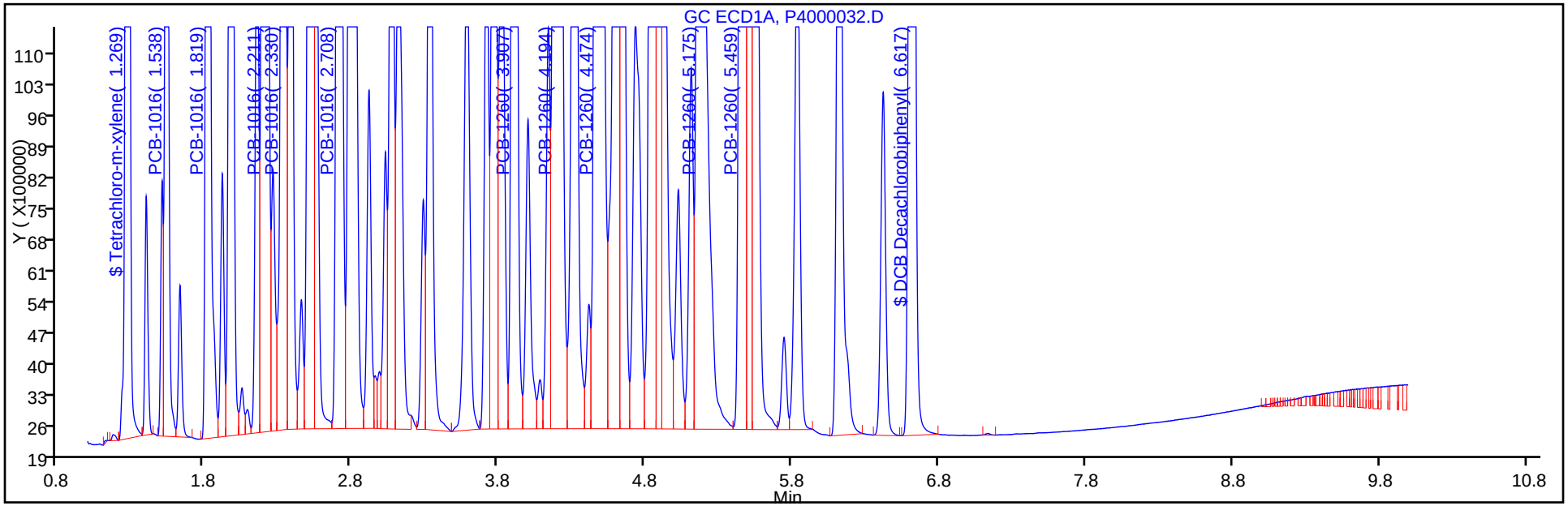
Report Date: 24-Jan-2013 07:49:25 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

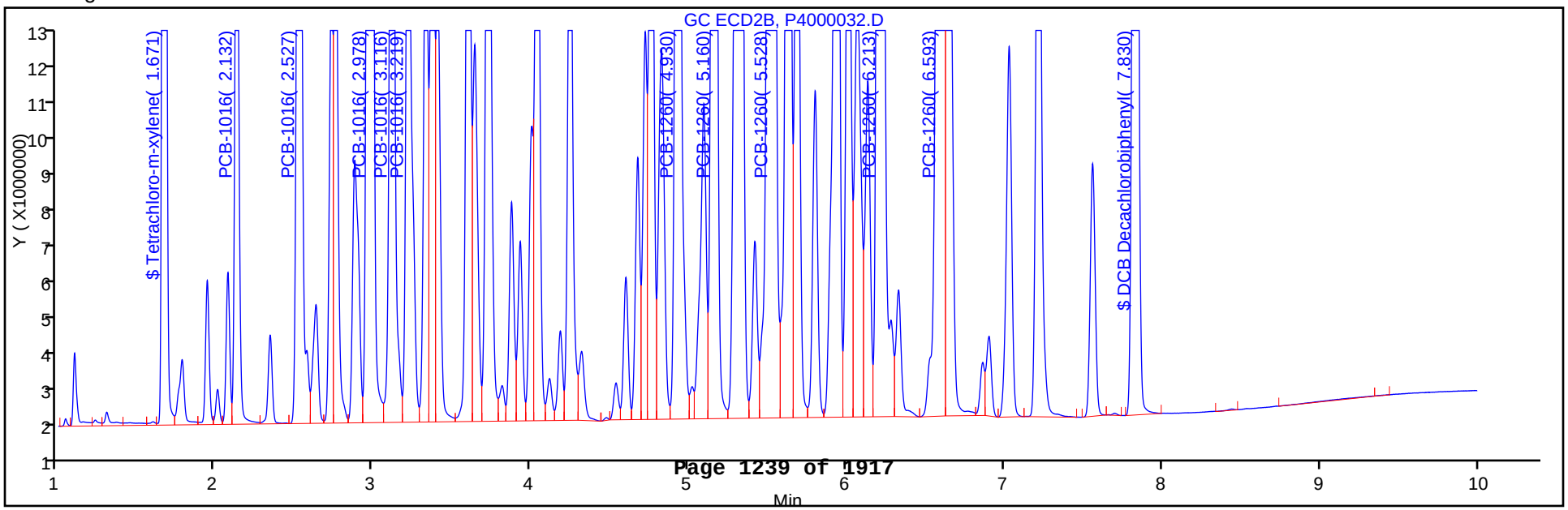
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000032.D

Injection Date:	23-Jan-2013 18:58:12	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	32
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/45 Calibration Date: 01/23/2013 22:22

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 16:05

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/23/2013 17:23

Lab File ID: P4000045.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	13644369	13304900		0.975	1.00	-2.5	20.0
PCB-1221 Peak 2	Ave	7786422	7287779		0.936	1.00	-6.4	20.0
PCB-1221 Peak 3	Ave	33442751	31905736		0.954	1.00	-4.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/45 Calibration Date: 01/23/2013 22:22

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 16:05

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/23/2013 17:23

Lab File ID: P4000045.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.40	1.30	1.50
PCB-1221 Peak 2	1.51	1.41	1.61
PCB-1221 Peak 3	1.54	1.44	1.64

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000045.D
Lims ID: ICV 1221 Client ID:
Inject. Date: 23-Jan-2013 22:22:35 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0016796-045
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 45
Lims Batch ID: 72953 Lims Sample ID: 45
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:48:31 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

First Level Reviewer: hassl Date: 24-Jan-2013 07:44:11

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.399	1.400	-0.001	13304900	0.9751		100.0	
1	3	1.508	1.508	0.000	7287779	0.9360	30.4- 80.4	54.8	
1	4	1.538	1.537	0.001	31905736	0.9540	210.8- 260.8	239.8	
			Average of Peak Amounts =			0.9550			
2	4	1.945	1.945	0.000	10472847	0.9155		100.0	
2	5	2.076	2.075	0.001	7061905	0.9295	36.5- 96.5	67.4	
2	6	2.133	2.132	0.001	26209266	0.9519	208.4- 268.4	250.3	
			Average of Peak Amounts =			0.9323			
						RPD = 2.41			

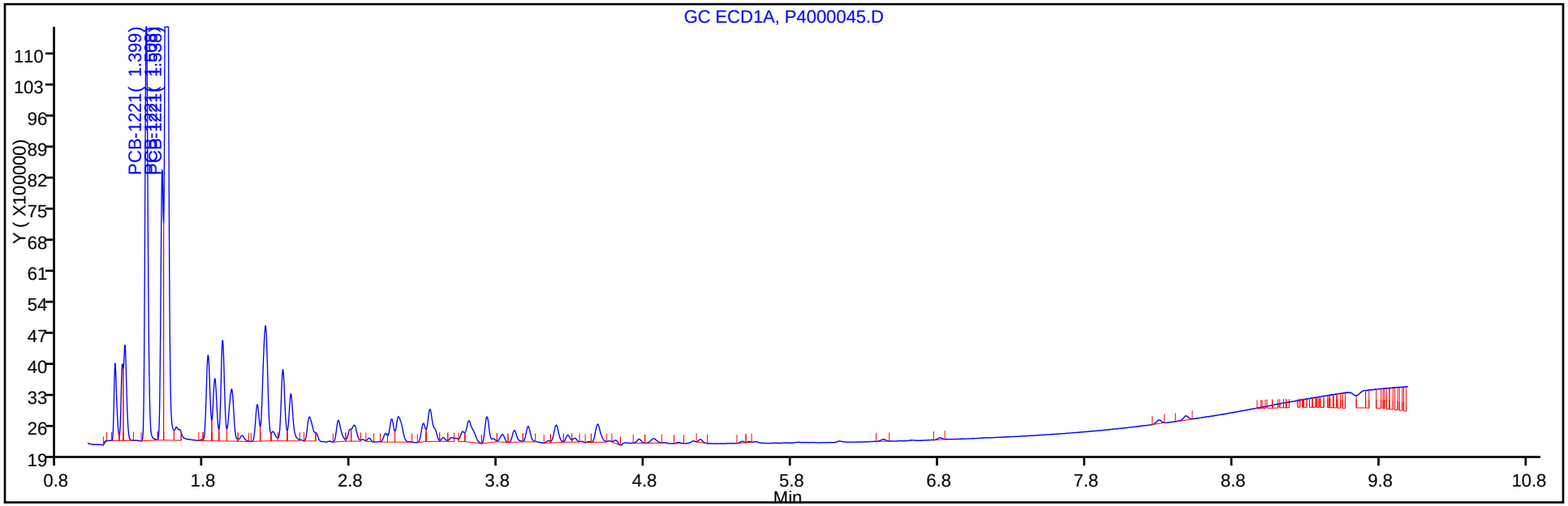
Report Date: 24-Jan-2013 07:48:57 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

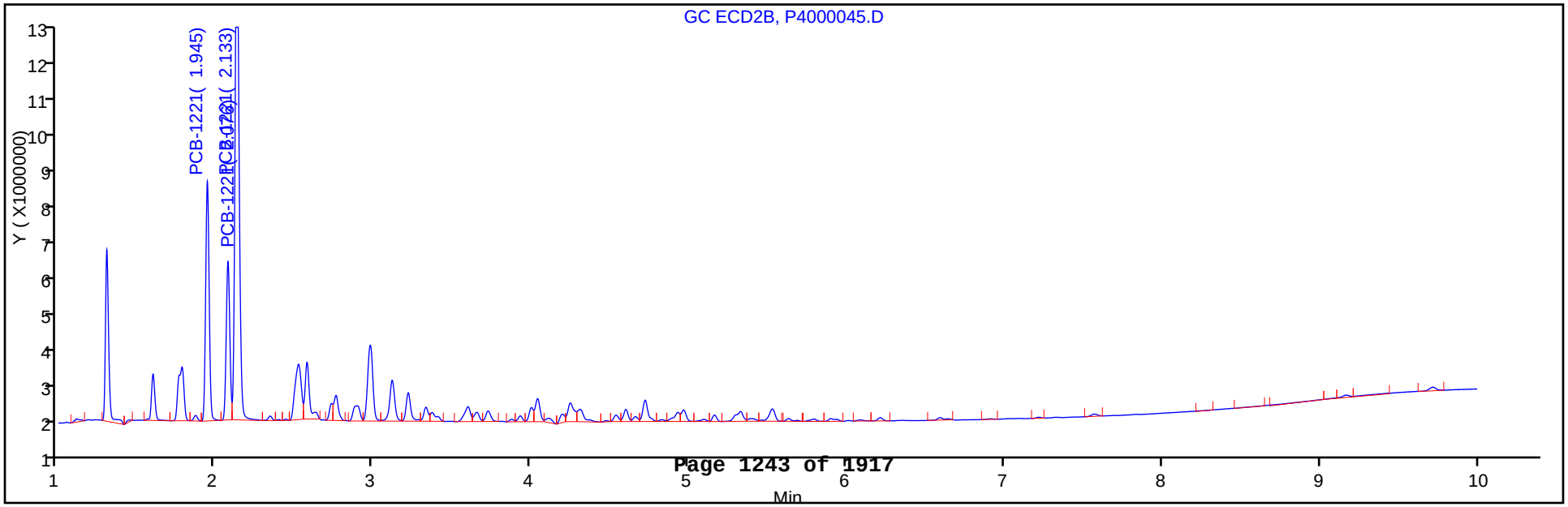
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000045.D

Injection Date:	23-Jan-2013 22:22:35	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	45
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/45 Calibration Date: 01/23/2013 22:22

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 16:05

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/23/2013 17:23

Lab File ID: P4000045.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	11439626	10472847		0.915	1.00	-8.5	20.0
PCB-1221 Peak 2	Ave	7597568	7061905		0.929	1.00	-7.1	20.0
PCB-1221 Peak 3	Ave	27534014	26209266		0.952	1.00	-4.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/45 Calibration Date: 01/23/2013 22:22

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 16:05

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/23/2013 17:23

Lab File ID: P4000045.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.95	1.85	2.05
PCB-1221 Peak 2	2.08	1.98	2.18
PCB-1221 Peak 3	2.13	2.03	2.23

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000045.D
Lims ID: ICV 1221 Client ID:
Inject. Date: 23-Jan-2013 22:22:35 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0016796-045
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 45
Lims Batch ID: 72953 Lims Sample ID: 45
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:48:31 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

First Level Reviewer: hassl Date: 24-Jan-2013 07:44:11

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.399	1.400	-0.001	13304900	0.9751		100.0	
1	3	1.508	1.508	0.000	7287779	0.9360	30.4- 80.4	54.8	
1	4	1.538	1.537	0.001	31905736	0.9540	210.8- 260.8	239.8	
			Average of Peak Amounts =			0.9550			
2	4	1.945	1.945	0.000	10472847	0.9155		100.0	
2	5	2.076	2.075	0.001	7061905	0.9295	36.5- 96.5	67.4	
2	6	2.133	2.132	0.001	26209266	0.9519	208.4- 268.4	250.3	
			Average of Peak Amounts =			0.9323			
						RPD = 2.41			

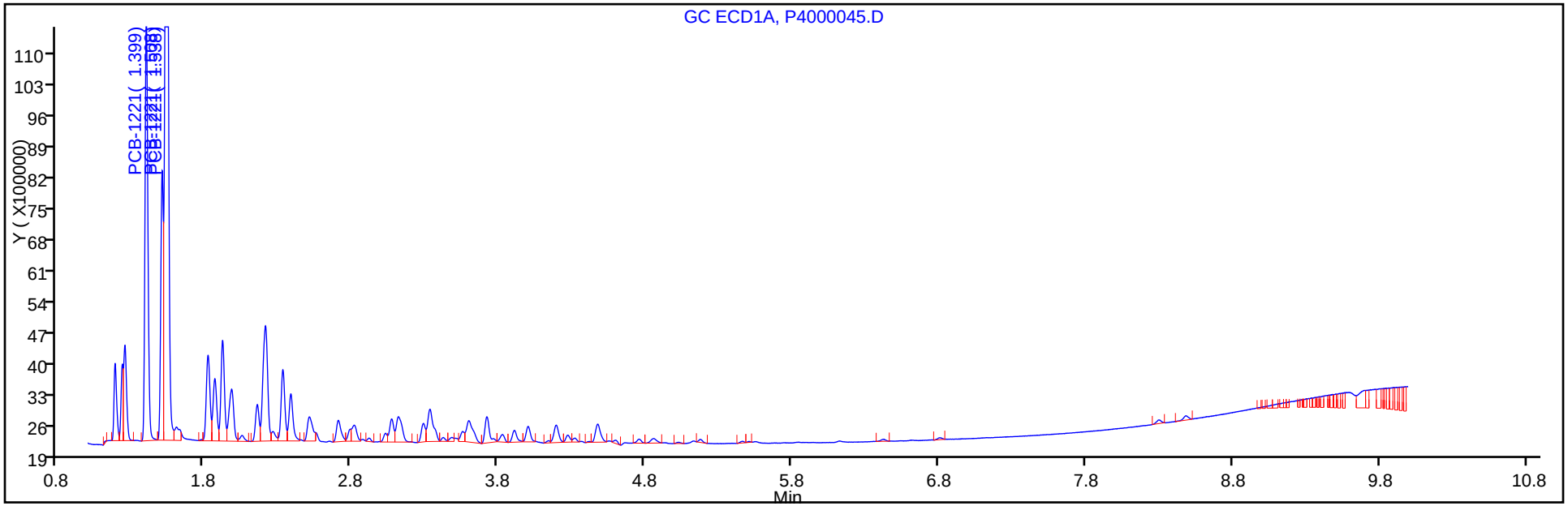
Report Date: 24-Jan-2013 07:48:58 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

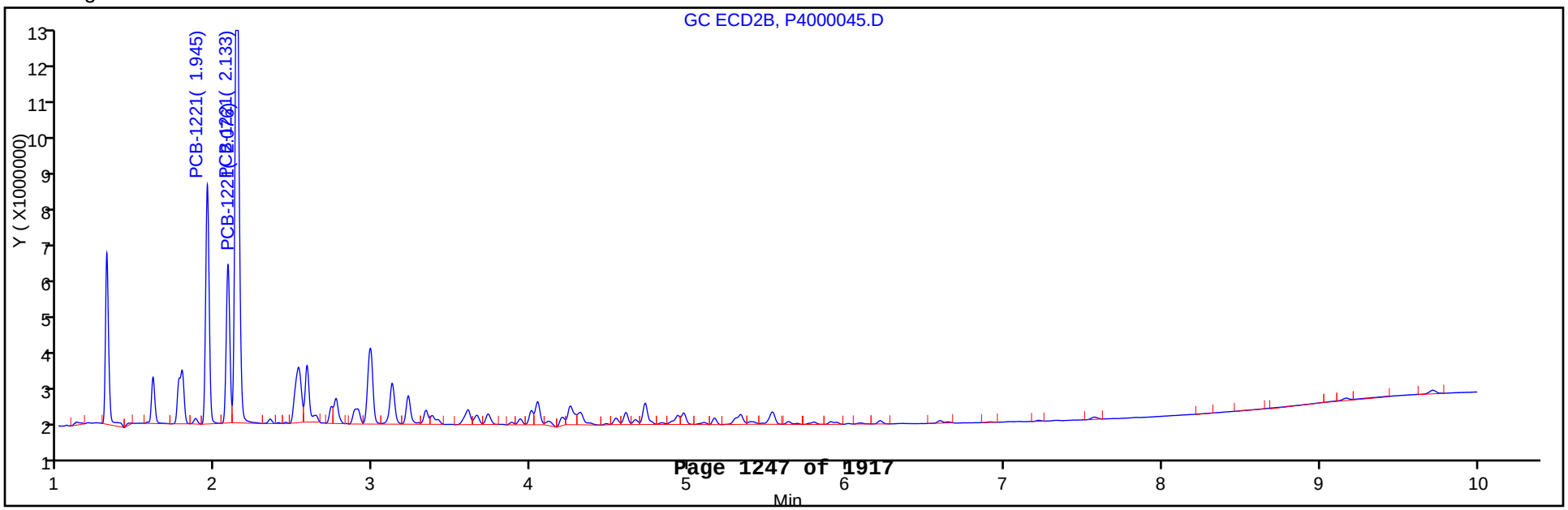
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000045.D

Injection Date:	23-Jan-2013 22:22:35	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	45
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/46 Calibration Date: 01/23/2013 22:38

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 11:22

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/23/2013 12:41

Lab File ID: P4000046.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	27277651	22508485		0.825	1.00	-17.5	20.0
PCB-1232 Peak 2	Ave	19327512	17911629		0.927	1.00	-7.3	20.0
PCB-1232 Peak 3	Ave	39217327	38045227		0.970	1.00	-3.0	20.0
PCB-1232 Peak 4	Ave	17270323	16671002		0.965	1.00	-3.5	20.0
PCB-1232 Peak 5	Ave	16031372	16023746		1.00	1.00	-0.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/46 Calibration Date: 01/23/2013 22:38

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 11:22

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/23/2013 12:41

Lab File ID: P4000046.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	1.54	1.44	1.64
PCB-1232 Peak 2	1.82	1.72	1.92
PCB-1232 Peak 3	2.21	2.11	2.31
PCB-1232 Peak 4	2.33	2.23	2.43
PCB-1232 Peak 5	2.71	2.61	2.81

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000046.D
Lims ID: ICV 1232 Client ID:
Inject. Date: 23-Jan-2013 22:38:14 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0016796-046
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 46
Lims Batch ID: 72953 Lims Sample ID: 46
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:48:31 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.537	1.536	0.001	22508485	0.8252		100.0	
1	2	1.818	1.818	0.000	17911629	0.9267	46.8- 96.8	79.6	
1	3	2.210	2.211	-0.001	38045227	0.9701	117.9- 167.9	169.0	
1	4	2.330	2.329	0.001	16671002	0.9653	39.4- 89.4	74.1	
1	5	2.709	2.707	0.002	16023746	1.00	34.4- 84.4	71.2	
			Average of Peak Amounts =			0.9374			
2	6	2.133	2.131	0.002	18493538	0.8258		100.0	
2	7	2.527	2.526	0.001	17846493	0.9812	47.9- 107.9	96.5	
2	8	2.978	2.978	0.000	32440867	0.9640	118.4- 178.4	175.4	
2	9	3.117	3.116	0.001	13966223	0.9435	36.9- 96.9	75.5	
2	10	3.726	3.726	0.000	11741086	0.9554	22.5- 82.5	63.5	
			Average of Peak Amounts =			0.9340			
						RPD = 0.36			

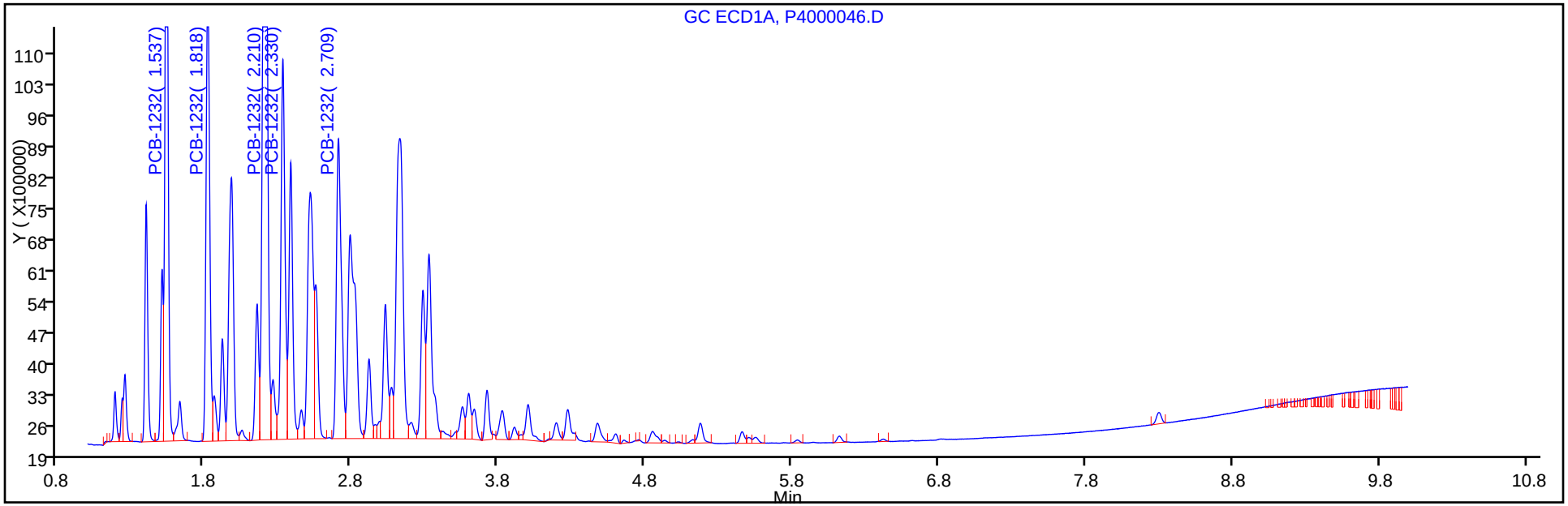
Report Date: 24-Jan-2013 07:48:54 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

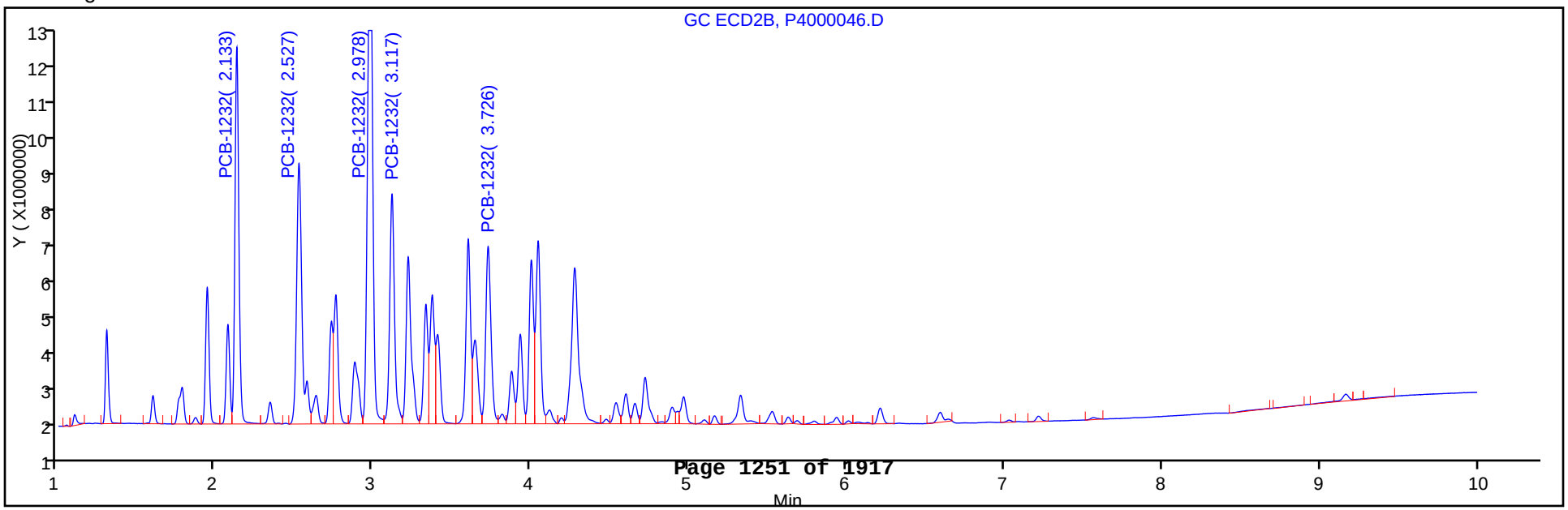
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000046.D

Injection Date:	23-Jan-2013 22:38:14	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	46
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/46 Calibration Date: 01/23/2013 22:38

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 11:22

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/23/2013 12:41

Lab File ID: P4000046.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	22395001	18493538		0.826	1.00	-17.4	20.0
PCB-1232 Peak 2	Ave	18188459	17846493		0.981	1.00	-1.9	20.0
PCB-1232 Peak 3	Ave	33651423	32440867		0.964	1.00	-3.6	20.0
PCB-1232 Peak 4	Ave	14802362	13966223		0.944	1.00	-5.6	20.0
PCB-1232 Peak 5	Ave	12288795	11741086		0.955	1.00	-4.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/46 Calibration Date: 01/23/2013 22:38

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 11:22

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/23/2013 12:41

Lab File ID: P4000046.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.13	2.03	2.23
PCB-1232 Peak 2	2.53	2.43	2.63
PCB-1232 Peak 3	2.98	2.88	3.08
PCB-1232 Peak 4	3.12	3.02	3.22
PCB-1232 Peak 5	3.73	3.63	3.83

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000046.D
Lims ID: ICV 1232 Client ID:
Inject. Date: 23-Jan-2013 22:38:14 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0016796-046
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 46
Lims Batch ID: 72953 Lims Sample ID: 46
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:48:31 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.537	1.536	0.001	22508485	0.8252		100.0	
1	2	1.818	1.818	0.000	17911629	0.9267	46.8- 96.8	79.6	
1	3	2.210	2.211	-0.001	38045227	0.9701	117.9- 167.9	169.0	
1	4	2.330	2.329	0.001	16671002	0.9653	39.4- 89.4	74.1	
1	5	2.709	2.707	0.002	16023746	1.00	34.4- 84.4	71.2	
			Average of Peak Amounts =			0.9374			
2	6	2.133	2.131	0.002	18493538	0.8258		100.0	
2	7	2.527	2.526	0.001	17846493	0.9812	47.9- 107.9	96.5	
2	8	2.978	2.978	0.000	32440867	0.9640	118.4- 178.4	175.4	
2	9	3.117	3.116	0.001	13966223	0.9435	36.9- 96.9	75.5	
2	10	3.726	3.726	0.000	11741086	0.9554	22.5- 82.5	63.5	
			Average of Peak Amounts =			0.9340			
						RPD = 0.36			

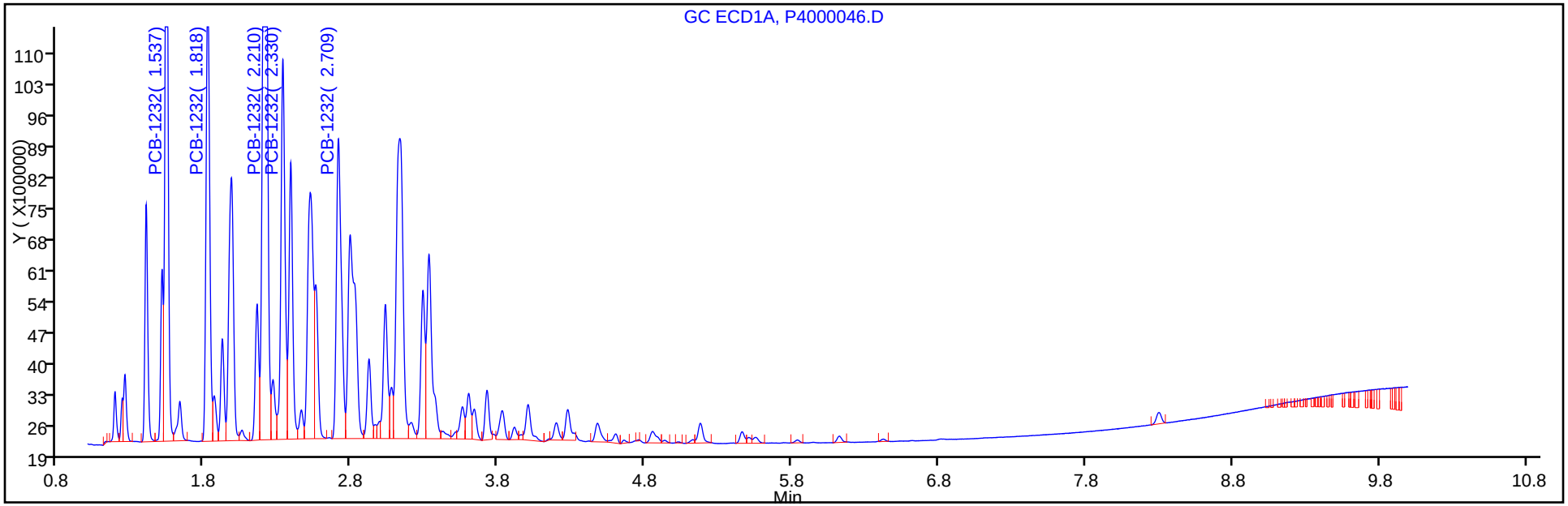
Report Date: 24-Jan-2013 07:48:55 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

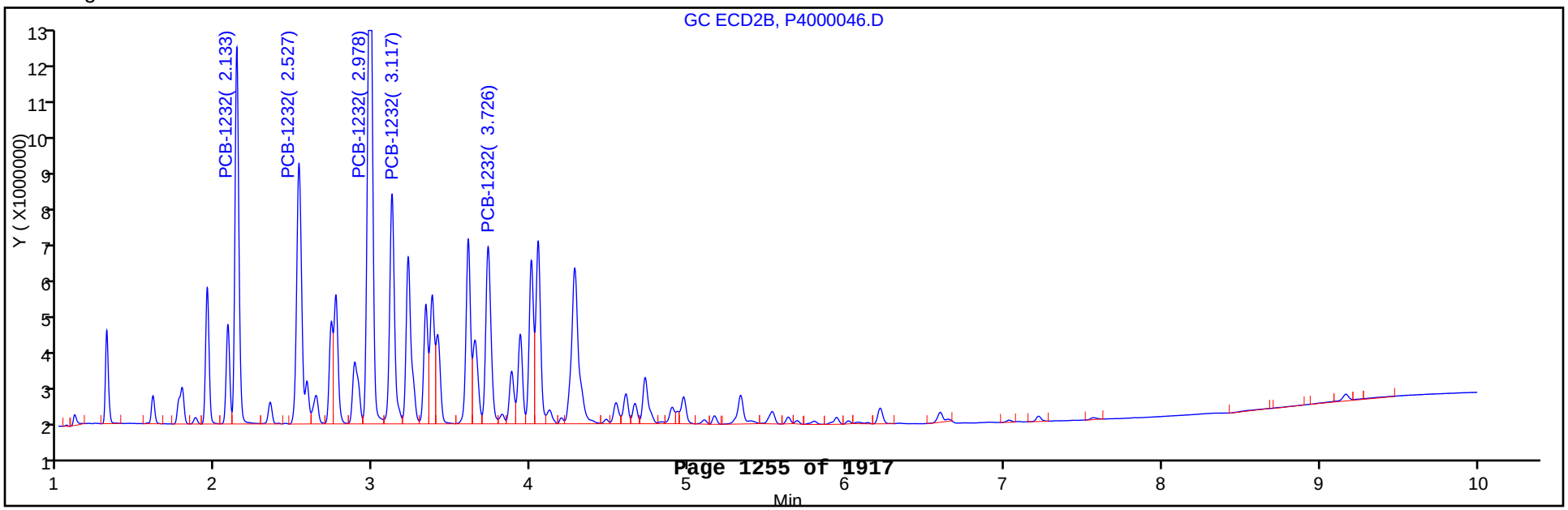
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000046.D

Injection Date:	23-Jan-2013 22:38:14	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	46
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/47 Calibration Date: 01/23/2013 22:53

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 12:56

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/23/2013 14:15

Lab File ID: P4000047.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	19899213	18964750		0.953	1.00	-4.7	20.0
PCB-1242 Peak 2	Ave	37427133	37431832		1.00	1.00	0.0	20.0
PCB-1242 Peak 3	Ave	74825726	77451036		1.04	1.00	3.5	20.0
PCB-1242 Peak 4	Ave	33488510	33947630		1.01	1.00	1.4	20.0
PCB-1242 Peak 5	Ave	33566955	34864738		1.04	1.00	3.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/47 Calibration Date: 01/23/2013 22:53

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 12:56

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/23/2013 14:15

Lab File ID: P4000047.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	1.54	1.44	1.64
PCB-1242 Peak 2	1.82	1.72	1.92
PCB-1242 Peak 3	2.21	2.11	2.31
PCB-1242 Peak 4	2.33	2.23	2.43
PCB-1242 Peak 5	2.71	2.61	2.81

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000047.D
Lims ID: ICV 1242 Client ID:
Inject. Date: 23-Jan-2013 22:53:57 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0016796-047
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 47
Lims Batch ID: 72953 Lims Sample ID: 47
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:48:31 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.538	1.537	0.001	18964750	0.9530		100.0	
1	2	1.818	1.818	0.000	37431832	1.00	162.6- 212.6	197.4	
1	3	2.210	2.209	0.001	77451036	1.04	338.7- 388.7	408.4	
1	4	2.330	2.330	0.000	33947630	1.01	141.8- 191.8	179.0	
1	5	2.709	2.708	0.001	34864738	1.04	143.4- 193.4	183.8	
			Average of Peak Amounts =			1.01			
2	6	2.132	2.132	0.000	15701261	0.9646		100.0	
2	7	2.527	2.527	0.000	31961347	0.9884	169.0- 229.0	203.6	
2	8	2.978	2.978	0.000	66151270	1.03	354.8- 414.8	421.3	
2	9	3.116	3.115	0.001	28388050	0.99	141.8- 201.8	180.8	
2	10	3.600	3.596	0.004	23131427	1.14	117.7- 177.7	147.3	
			Average of Peak Amounts =			1.02			
						RPD = 1.30			

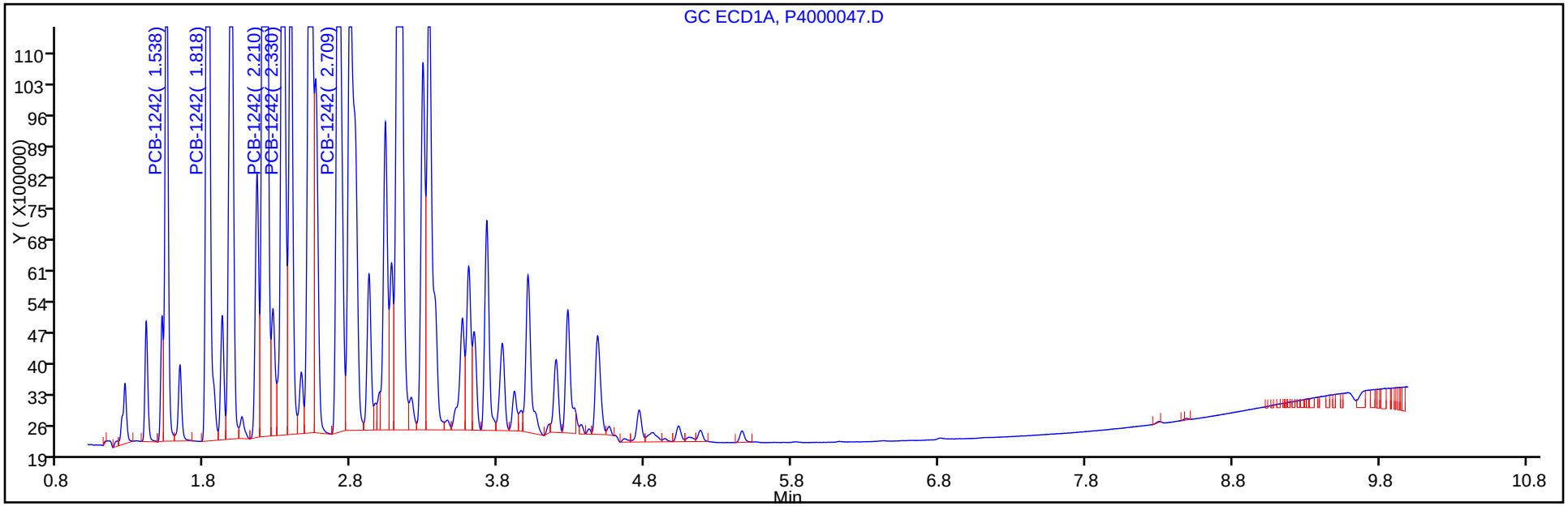
Report Date: 24-Jan-2013 07:48:51 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

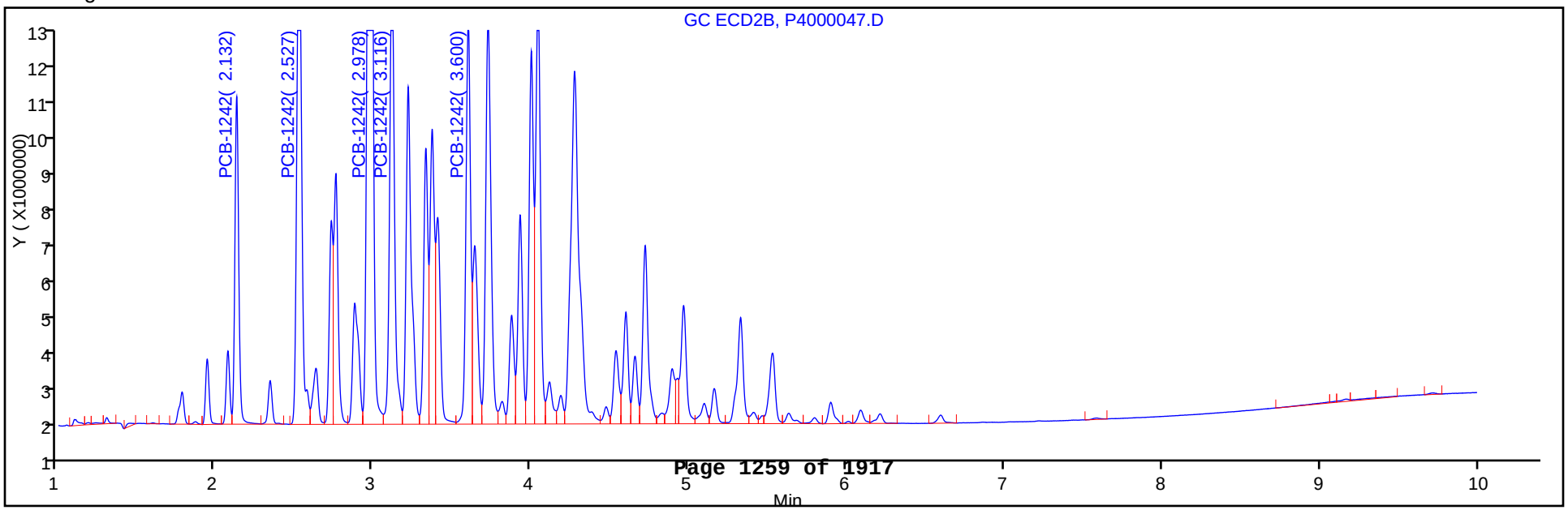
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000047.D

Injection Date:	23-Jan-2013 22:53:57	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	47
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/47 Calibration Date: 01/23/2013 22:53

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 12:56

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/23/2013 14:15

Lab File ID: P4000047.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	16277919	15701261		0.965	1.00	-3.5	20.0
PCB-1242 Peak 2	Ave	32337894	31961347		0.988	1.00	-1.2	20.0
PCB-1242 Peak 3	Ave	64500287	66151270		1.03	1.00	2.6	20.0
PCB-1242 Peak 4	Ave	28623488	28388050		0.992	1.00	-0.8	20.0
PCB-1242 Peak 5	Lin1		23131427		1.14	1.00	13.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/47 Calibration Date: 01/23/2013 22:53

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 12:56

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/23/2013 14:15

Lab File ID: P4000047.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	2.13	2.03	2.23
PCB-1242 Peak 2	2.53	2.43	2.63
PCB-1242 Peak 3	2.98	2.88	3.08
PCB-1242 Peak 4	3.12	3.02	3.22
PCB-1242 Peak 5	3.60	3.50	3.70

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000047.D
Lims ID: ICV 1242 Client ID:
Inject. Date: 23-Jan-2013 22:53:57 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0016796-047
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 47
Lims Batch ID: 72953 Lims Sample ID: 47
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:48:31 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.538	1.537	0.001	18964750	0.9530		100.0	
1	2	1.818	1.818	0.000	37431832	1.00	162.6- 212.6	197.4	
1	3	2.210	2.209	0.001	77451036	1.04	338.7- 388.7	408.4	
1	4	2.330	2.330	0.000	33947630	1.01	141.8- 191.8	179.0	
1	5	2.709	2.708	0.001	34864738	1.04	143.4- 193.4	183.8	
			Average of Peak Amounts =			1.01			
2	6	2.132	2.132	0.000	15701261	0.9646		100.0	
2	7	2.527	2.527	0.000	31961347	0.9884	169.0- 229.0	203.6	
2	8	2.978	2.978	0.000	66151270	1.03	354.8- 414.8	421.3	
2	9	3.116	3.115	0.001	28388050	0.99	141.8- 201.8	180.8	
2	10	3.600	3.596	0.004	23131427	1.14	117.7- 177.7	147.3	
			Average of Peak Amounts =			1.02			
						RPD = 1.30			

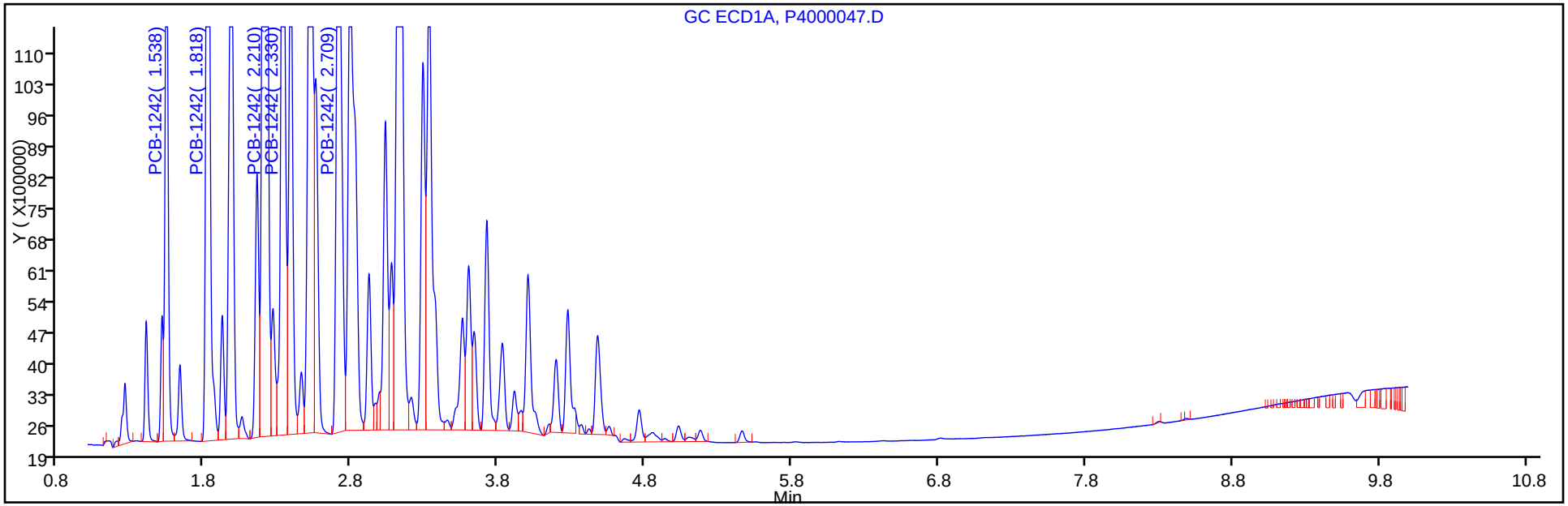
Report Date: 24-Jan-2013 07:48:51 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

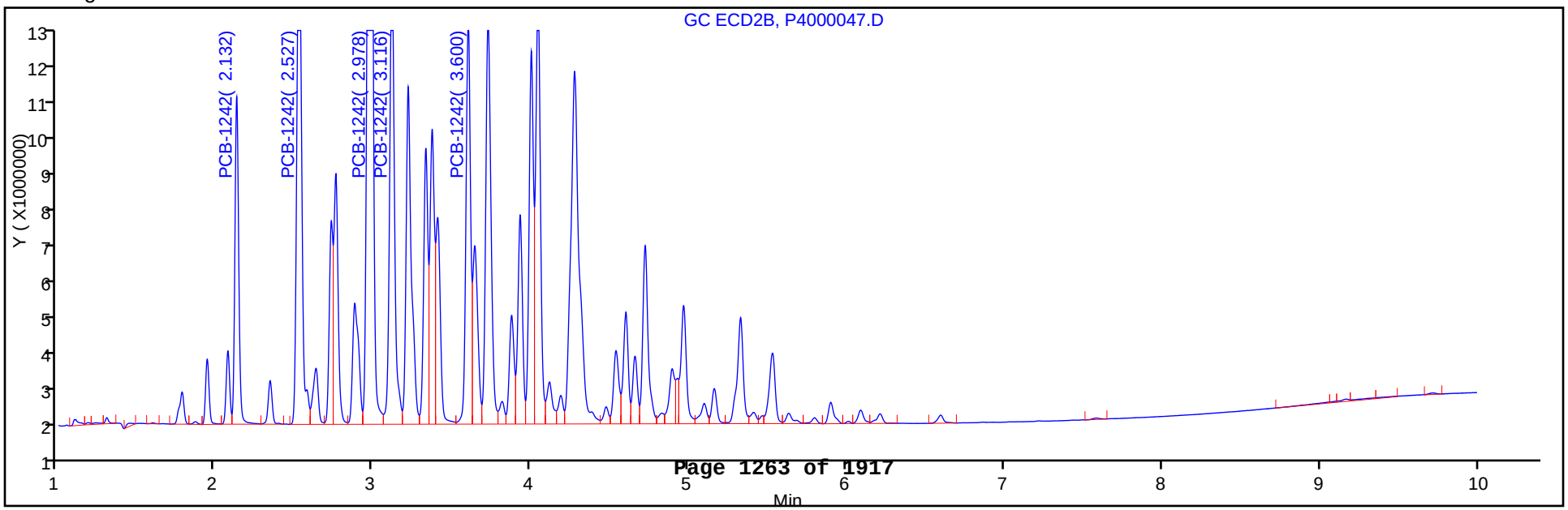
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000047.D

Injection Date:	23-Jan-2013 22:53:57	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	47
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/48 Calibration Date: 01/23/2013 23:09

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 14:31

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/23/2013 15:49

Lab File ID: P4000048.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	18195856	17206158		0.946	1.00	-5.4	20.0
PCB-1248 Peak 2	Ave	46836810	44461579		0.949	1.00	-5.1	20.0
PCB-1248 Peak 3	Ave	52728503	47157173		0.894	1.00	-10.6	20.0
PCB-1248 Peak 4	Ave	26713255	24914171		0.933	1.00	-6.7	20.0
PCB-1248 Peak 5	Ave	24642619	19750010		0.801	1.00	-19.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/48 Calibration Date: 01/23/2013 23:09

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 14:31

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/23/2013 15:49

Lab File ID: P4000048.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	1.82	1.72	1.92
PCB-1248 Peak 2	2.21	2.11	2.31
PCB-1248 Peak 3	2.71	2.61	2.81
PCB-1248 Peak 4	3.29	3.19	3.39
PCB-1248 Peak 5	3.72	3.62	3.82

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000048.D
Lims ID: ICV 1248 Client ID:
Inject. Date: 23-Jan-2013 23:09:39 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0016796-048
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 48
Lims Batch ID: 72953 Lims Sample ID: 48
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:48:31 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

First Level Reviewer: hassl Date: 24-Jan-2013 07:45:10

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									M
1	86	1.819	1.818	0.001	17206158	0.9456		100.0	M
1	2	2.209	2.207	0.002	44461579	0.9493	231.7- 281.7	258.4	M
1	3	2.710	2.708	0.002	47157173	0.8943	255.5- 305.5	274.1	M
1	4	3.286	3.286	0.000	24914171	0.9327	114.8- 164.8	144.8	M
1	5	3.720	3.719	0.001	19750010	0.8015	108.6- 158.6	114.8	M
			Average of Peak Amounts =			0.9047			
2	6	2.525	2.525	0.000	14666272	0.9391		100.0	
2	7	2.977	2.977	0.000	38031134	0.9258	225.5- 285.5	259.3	
2	8	3.725	3.725	0.000	34581341	0.8363	235.9- 295.9	235.8	
2	9	4.000	3.999	0.001	32403284	0.8648	207.4- 267.4	220.9	
2	10	4.722	4.723	-0.001	21019954	0.8832	121.0- 181.0	143.3	
			Average of Peak Amounts =			0.8899			
						RPD = 1.65			

QC Flag Legend

Review Flags
M - Manually Integrated

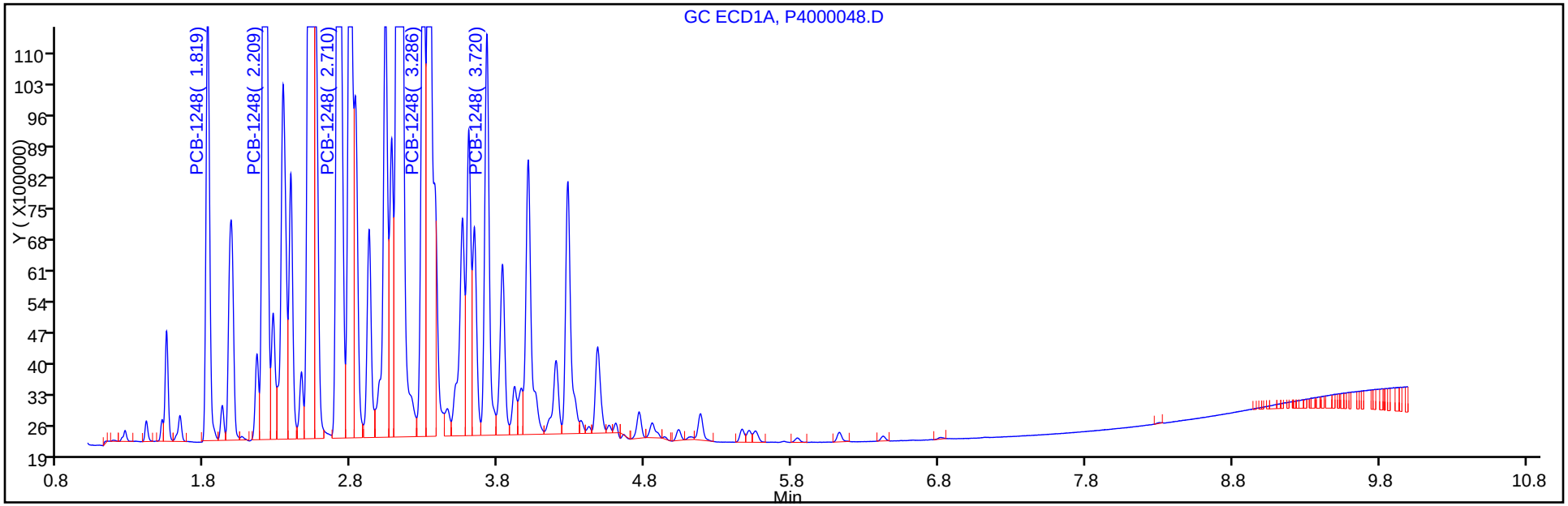
Report Date: 24-Jan-2013 07:48:48 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

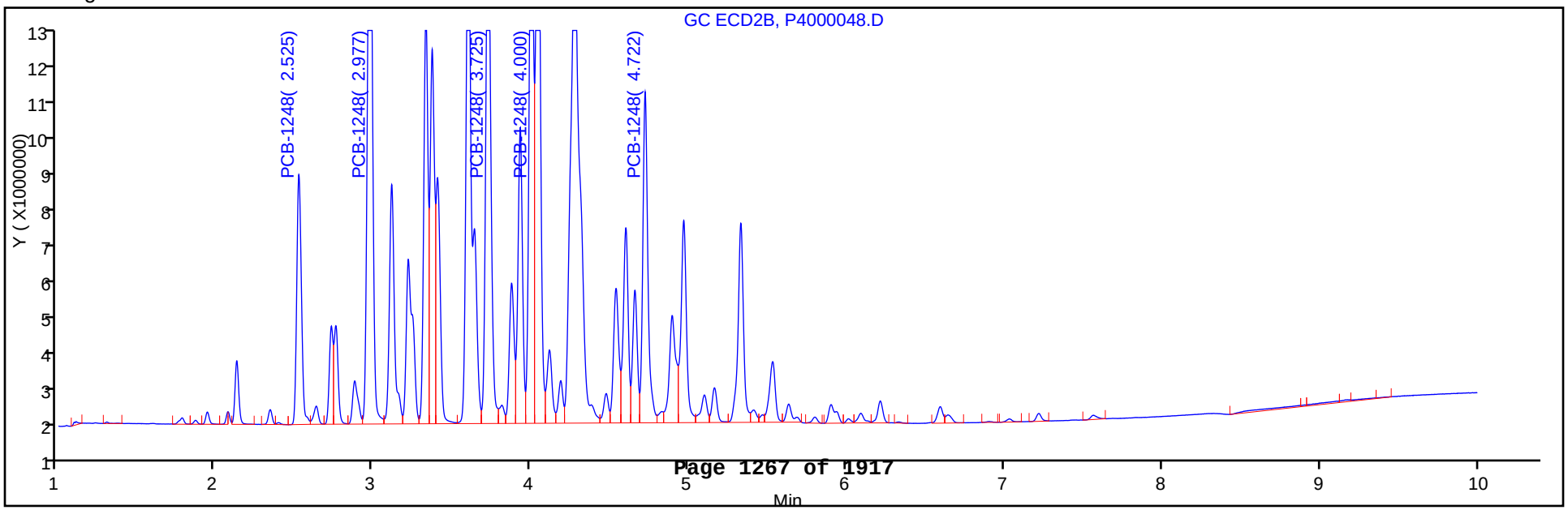
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000048.D

Injection Date:	23-Jan-2013 23:09:39	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	48
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



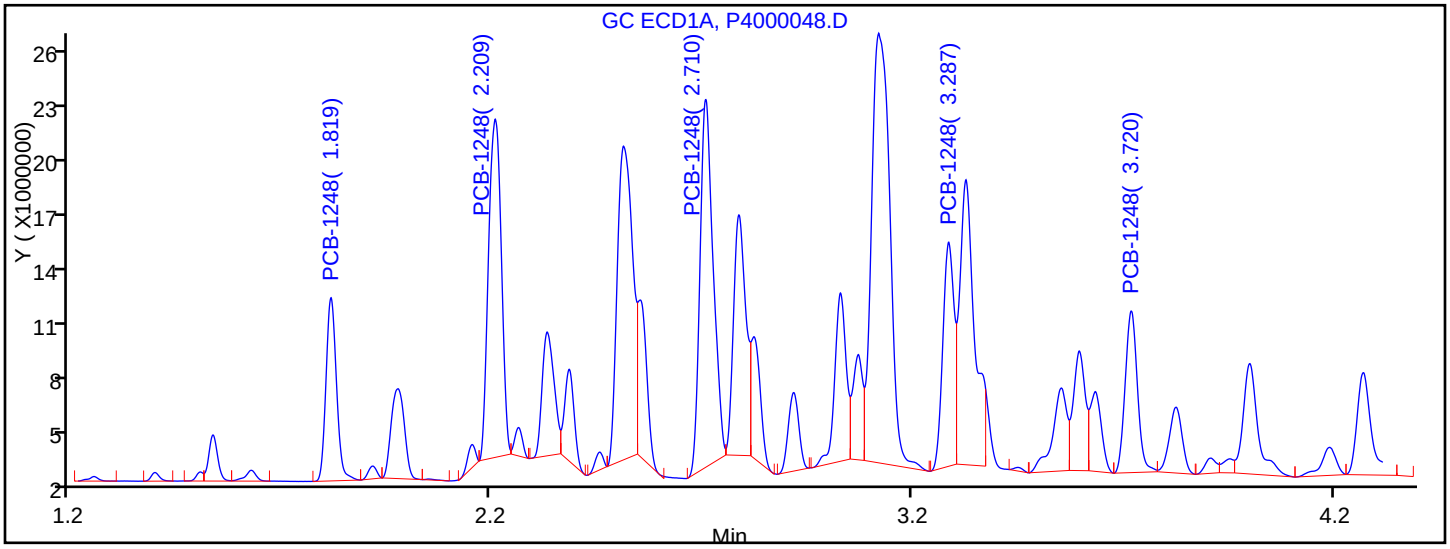
Report Date: 24-Jan-2013 07:48:48 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000048.D

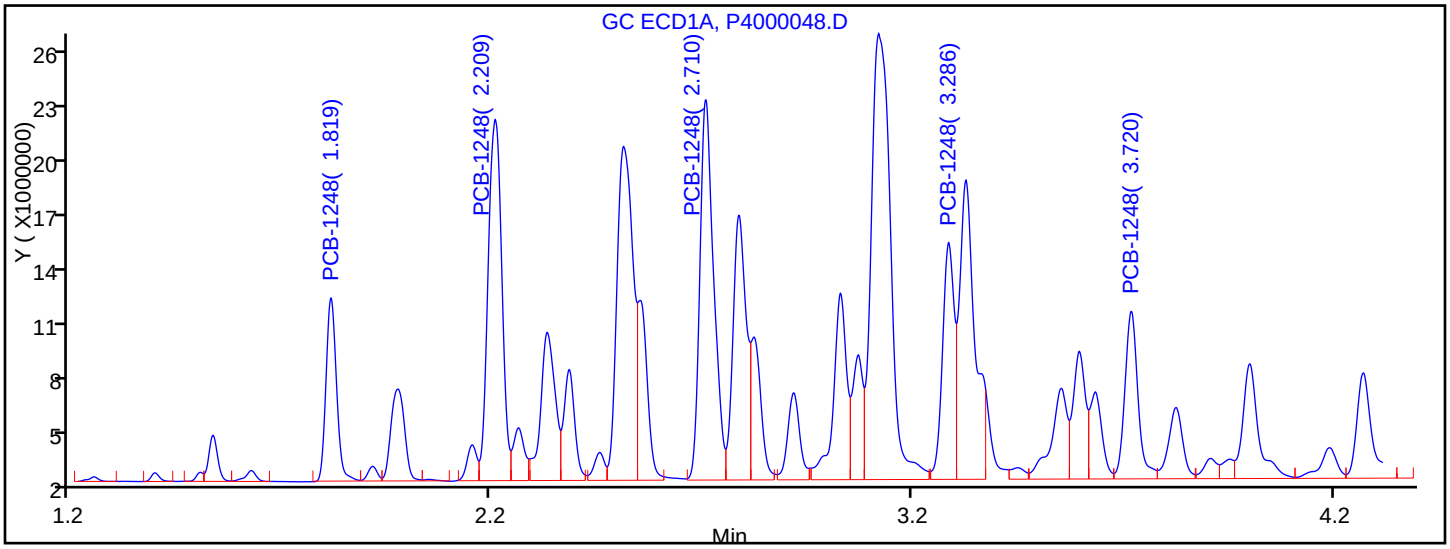
Injection Date:	23-Jan-2013 23:09:39	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	48
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

7 PCB-1248, Detector: 1, GC ECD1A



Processing Integration Results

RT = 1.819	Response = 17201612	M
RT = 2.209	Response = 38833977	M
RT = 2.710	Response = 43299773	M
RT = 3.287	Response = 22643252	M
RT = 3.720	Response = 17722136	M



Manual Integration Results

RT = 1.819	Response = 17206158	M
RT = 2.209	Response = 44461579	M
RT = 2.710	Response = 47157173	M
RT = 3.286	Response = 24914171	M
RT = 3.720	Response = 19750010	M

Reviewer: hassl, 24-Jan-2013 07:45:10

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/48 Calibration Date: 01/23/2013 23:09

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 14:31

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/23/2013 15:49

Lab File ID: P4000048.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	15616640	14666272		0.939	1.00	-6.1	20.0
PCB-1248 Peak 2	Ave	41079270	38031134		0.926	1.00	-7.4	20.0
PCB-1248 Peak 3	Ave	41349213	34581341		0.836	1.00	-16.4	20.0
PCB-1248 Peak 4	Ave	37470933	32403284		0.865	1.00	-13.5	20.0
PCB-1248 Peak 5	Ave	23798823	21019954		0.883	1.00	-11.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/48 Calibration Date: 01/23/2013 23:09

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 14:31

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/23/2013 15:49

Lab File ID: P4000048.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	2.53	2.43	2.63
PCB-1248 Peak 2	2.98	2.88	3.08
PCB-1248 Peak 3	3.73	3.63	3.83
PCB-1248 Peak 4	4.00	3.90	4.10
PCB-1248 Peak 5	4.72	4.62	4.82

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000048.D
Lims ID: ICV 1248 Client ID:
Inject. Date: 23-Jan-2013 23:09:39 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0016796-048
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 48
Lims Batch ID: 72953 Lims Sample ID: 48
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:48:31 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

First Level Reviewer: hassl Date: 24-Jan-2013 07:45:10

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									M
1	86	1.819	1.818	0.001	17206158	0.9456		100.0	M
1	2	2.209	2.207	0.002	44461579	0.9493	231.7- 281.7	258.4	M
1	3	2.710	2.708	0.002	47157173	0.8943	255.5- 305.5	274.1	M
1	4	3.286	3.286	0.000	24914171	0.9327	114.8- 164.8	144.8	M
1	5	3.720	3.719	0.001	19750010	0.8015	108.6- 158.6	114.8	M
			Average of Peak Amounts =			0.9047			
2	6	2.525	2.525	0.000	14666272	0.9391		100.0	
2	7	2.977	2.977	0.000	38031134	0.9258	225.5- 285.5	259.3	
2	8	3.725	3.725	0.000	34581341	0.8363	235.9- 295.9	235.8	
2	9	4.000	3.999	0.001	32403284	0.8648	207.4- 267.4	220.9	
2	10	4.722	4.723	-0.001	21019954	0.8832	121.0- 181.0	143.3	
			Average of Peak Amounts =			0.8899			
						RPD = 1.65			

QC Flag Legend

Review Flags
M - Manually Integrated

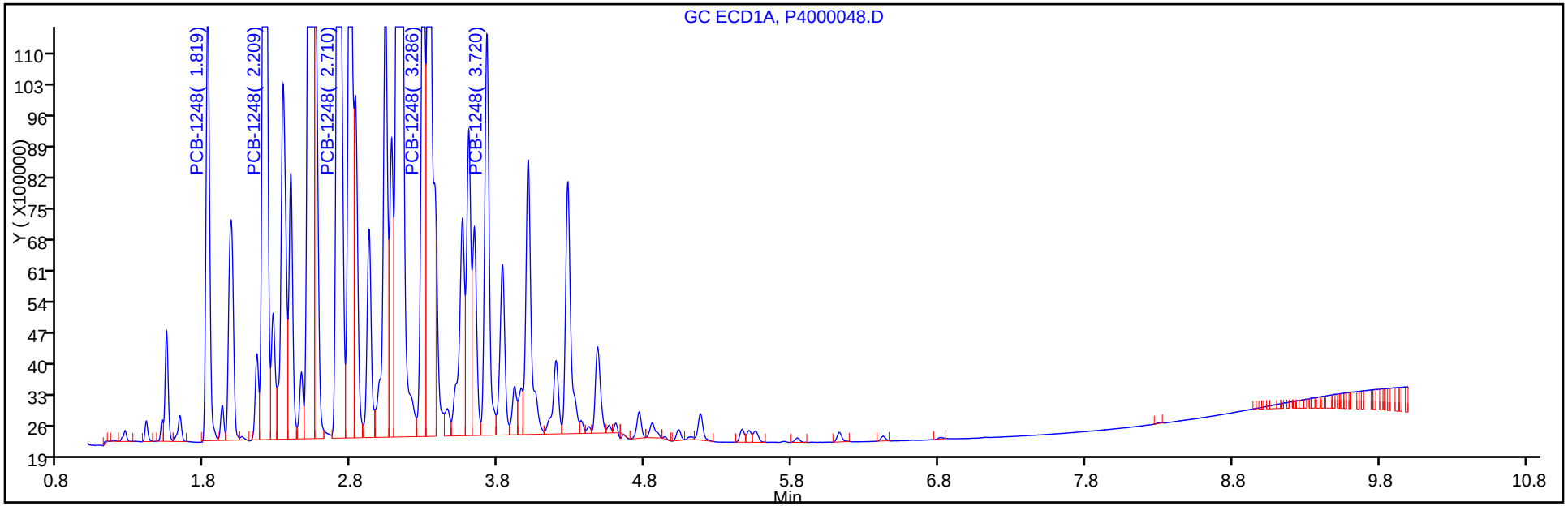
Report Date: 24-Jan-2013 07:48:48 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

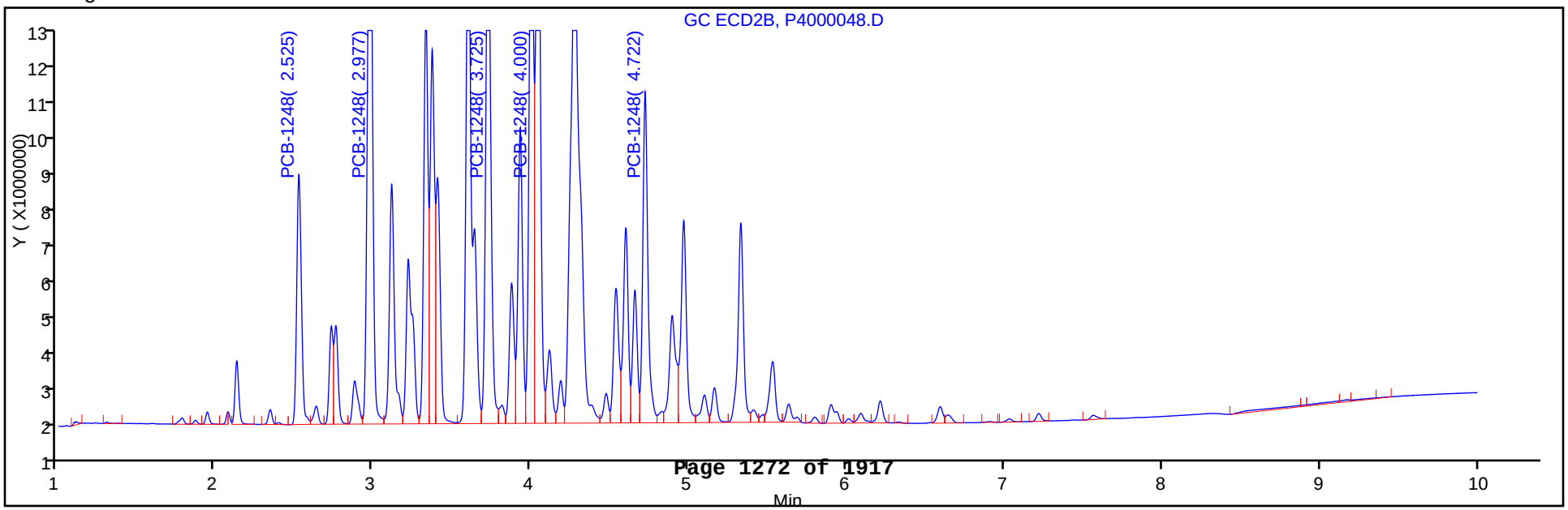
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000048.D

Injection Date:	23-Jan-2013 23:09:39	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	48
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/49 Calibration Date: 01/23/2013 23:25

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 16:05

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/23/2013 17:23

Lab File ID: P4000049.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1254 Peak 1	Ave	77373176	73457027		0.949	1.00	-5.1	20.0
PCB-1254 Peak 2	Ave	80947394	64616315		0.798	1.00	-20.2*	20.0
PCB-1254 Peak 3	Ave	58061735	59585605		1.03	1.00	2.6	20.0
PCB-1254 Peak 4	Ave	53390647	53131655		0.995	1.00	-0.5	20.0
PCB-1254 Peak 5	Ave	78466531	81612469		1.04	1.00	4.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/49 Calibration Date: 01/23/2013 23:25

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 16:05

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/23/2013 17:23

Lab File ID: P4000049.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1254 Peak 1	3.33	3.23	3.43
PCB-1254 Peak 2	3.72	3.62	3.82
PCB-1254 Peak 3	4.00	3.90	4.10
PCB-1254 Peak 4	4.19	4.09	4.29
PCB-1254 Peak 5	4.48	4.38	4.58

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000049.D
Lims ID: ICV 1254 Client ID:
Inject. Date: 23-Jan-2013 23:25:27 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0016796-049
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 49
Lims Batch ID: 72953 Lims Sample ID: 49
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:48:31 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 PCB-1254									
1	100	3.333	3.334	-0.001	73457027	0.9494		100.0	
1	2	3.719	3.720	-0.001	64616315	0.7983	81.7- 131.7	88.0	
1	3	4.002	4.002	0.000	59585605	1.03	48.4- 98.4	81.1	
1	4	4.193	4.193	0.000	53131655	1.00	42.7- 92.7	72.3	
1	5	4.476	4.476	0.000	81612469	1.04	73.8- 123.8	111.1	
			Average of Peak Amounts =			0.9618			
2	6	4.246	4.245	0.001	42984792	0.9182		100.0	
2	7	4.723	4.721	0.002	68757406	0.9412	125.3- 185.3	160.0	
2	8	4.967	4.966	0.001	45452058	0.9531	72.4- 132.4	105.7	
2	9	5.327	5.326	0.001	53764118	0.9842	85.8- 145.8	125.1	
2	10	5.529	5.530	-0.001	69324964	1.02	115.2- 175.2	161.3	
			Average of Peak Amounts =			0.9636			
						RPD = 0.19			

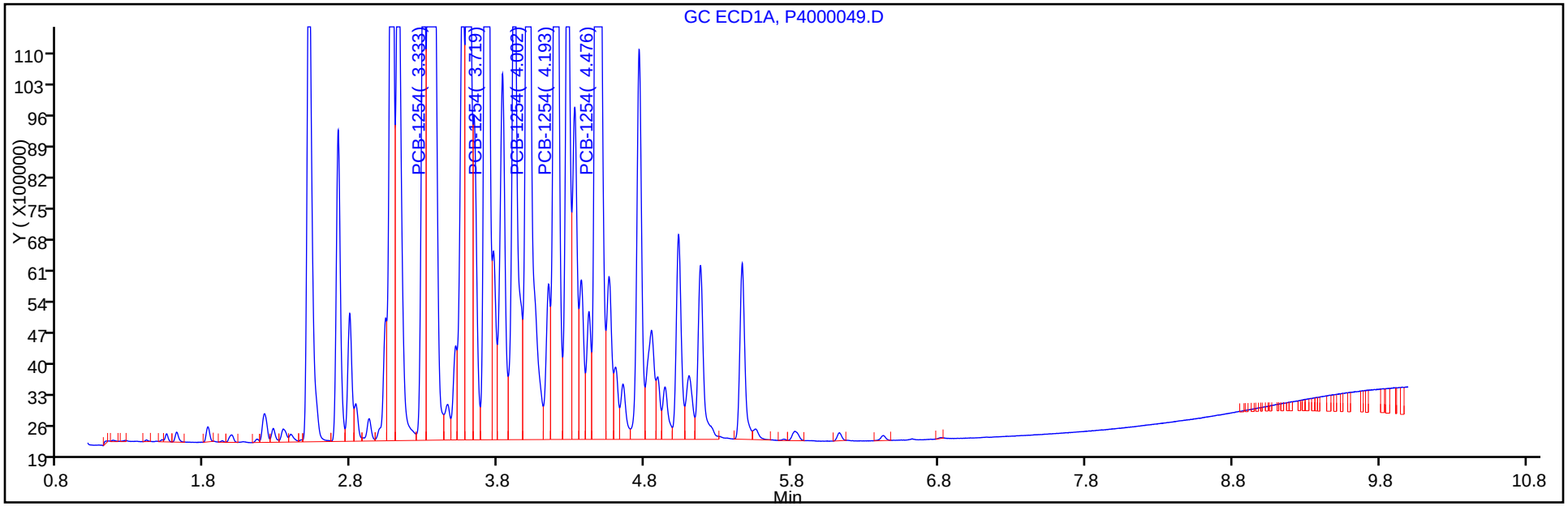
Report Date: 24-Jan-2013 07:48:44 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

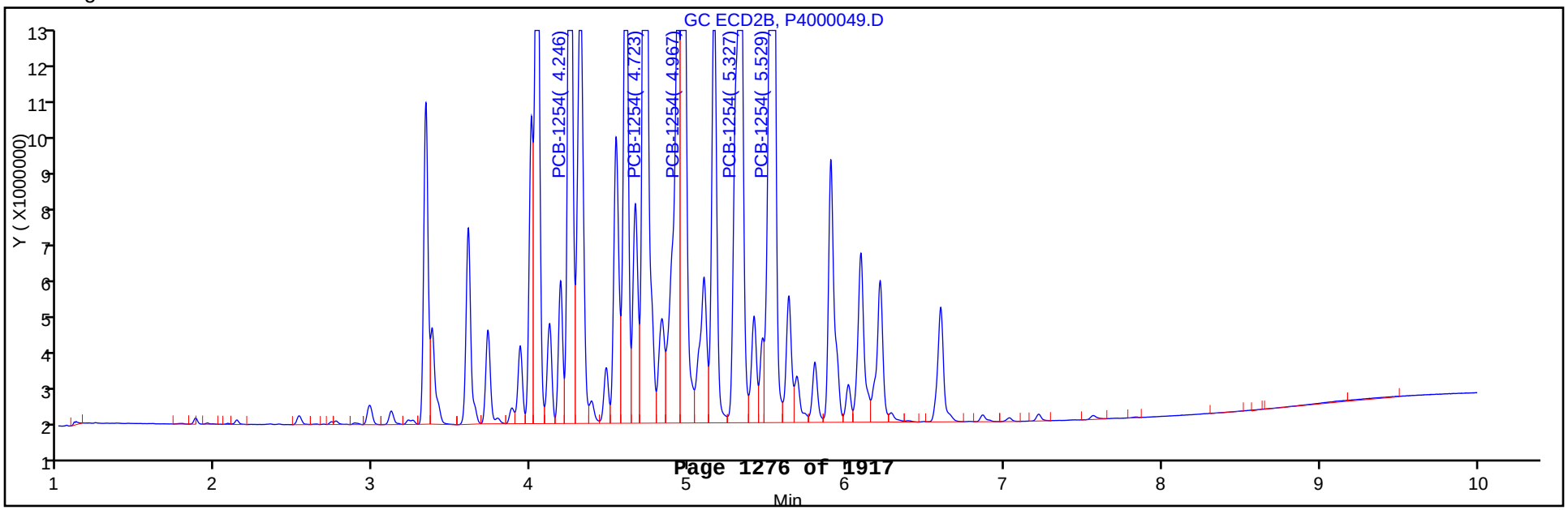
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000049.D

Injection Date:	23-Jan-2013 23:25:27	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	49
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/49 Calibration Date: 01/23/2013 23:25

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 16:05

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/23/2013 17:23

Lab File ID: P4000049.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1254 Peak 1	Ave	46815313	42984792		0.918	1.00	-8.2	20.0
PCB-1254 Peak 2	Ave	73050052	68757406		0.941	1.00	-5.9	20.0
PCB-1254 Peak 3	Ave	47690049	45452058		0.953	1.00	-4.7	20.0
PCB-1254 Peak 4	Ave	54629370	53764118		0.984	1.00	-1.6	20.0
PCB-1254 Peak 5	Ave	67867310	69324964		1.02	1.00	2.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/49 Calibration Date: 01/23/2013 23:25

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 16:05

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/23/2013 17:23

Lab File ID: P4000049.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1254 Peak 1	4.25	4.15	4.35
PCB-1254 Peak 2	4.72	4.62	4.82
PCB-1254 Peak 3	4.97	4.87	5.07
PCB-1254 Peak 4	5.33	5.23	5.43
PCB-1254 Peak 5	5.53	5.43	5.63

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000049.D
Lims ID: ICV 1254 Client ID:
Inject. Date: 23-Jan-2013 23:25:27 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0016796-049
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 49
Lims Batch ID: 72953 Lims Sample ID: 49
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:48:31 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 PCB-1254									
1	100	3.333	3.334	-0.001	73457027	0.9494		100.0	
1	2	3.719	3.720	-0.001	64616315	0.7983	81.7- 131.7	88.0	
1	3	4.002	4.002	0.000	59585605	1.03	48.4- 98.4	81.1	
1	4	4.193	4.193	0.000	53131655	1.00	42.7- 92.7	72.3	
1	5	4.476	4.476	0.000	81612469	1.04	73.8- 123.8	111.1	
			Average of Peak Amounts =			0.9618			
2	6	4.246	4.245	0.001	42984792	0.9182		100.0	
2	7	4.723	4.721	0.002	68757406	0.9412	125.3- 185.3	160.0	
2	8	4.967	4.966	0.001	45452058	0.9531	72.4- 132.4	105.7	
2	9	5.327	5.326	0.001	53764118	0.9842	85.8- 145.8	125.1	
2	10	5.529	5.530	-0.001	69324964	1.02	115.2- 175.2	161.3	
			Average of Peak Amounts =			0.9636			
						RPD = 0.19			

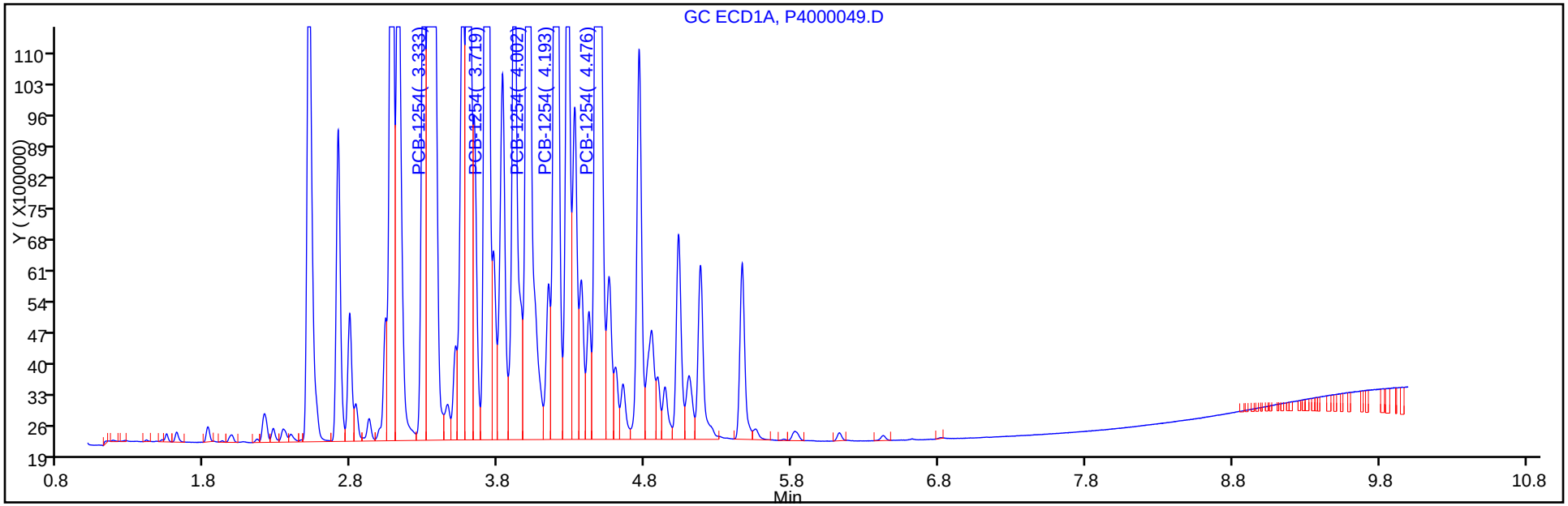
Report Date: 24-Jan-2013 07:48:44 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

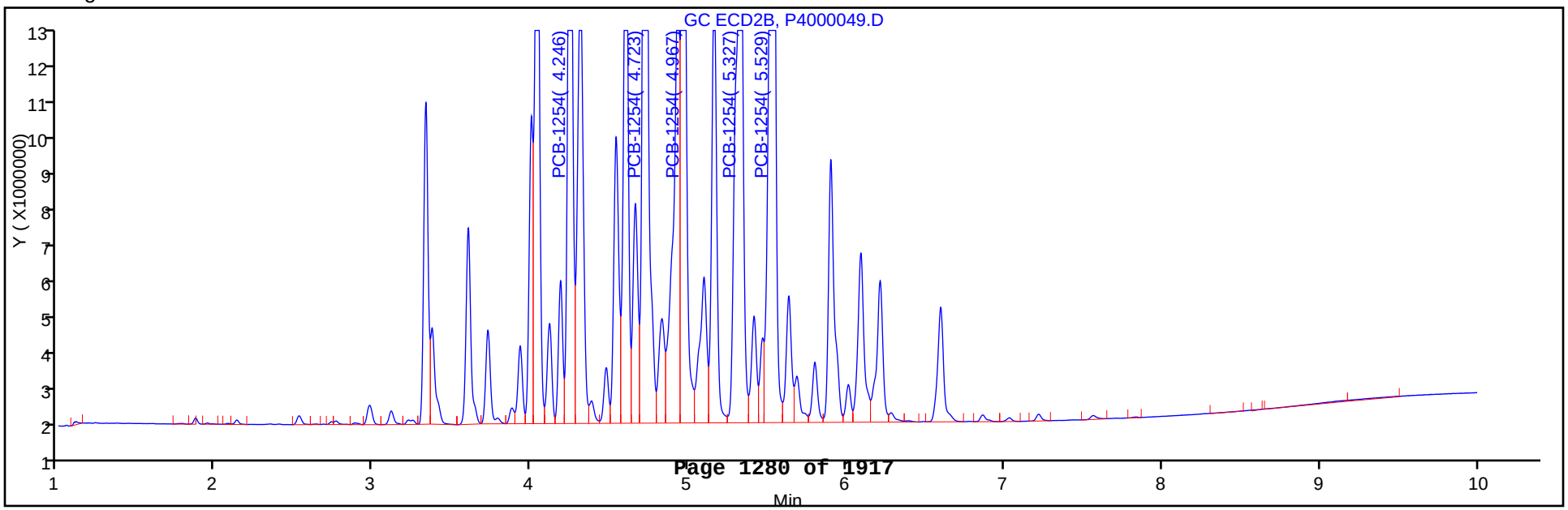
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000049.D

Injection Date:	23-Jan-2013 23:25:27	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	49
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/50 Calibration Date: 01/23/2013 23:41

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 17:39

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/23/2013 18:58

Lab File ID: P4000050.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	24904755	22145890		0.889	1.00	-11.1	20.0
PCB-1016 Peak 2	Ave	45461462	45311515		0.997	1.00	-0.3	20.0
PCB-1016 Peak 3	Ave	91493370	96638979		1.06	1.00	5.6	20.0
PCB-1016 Peak 4	Ave	40923536	42443080		1.04	1.00	3.7	20.0
PCB-1016 Peak 5	Ave	41299669	41470882		1.00	1.00	0.4	20.0
PCB-1260 Peak 1	Ave	60176437	58370853		0.970	1.00	-3.0	20.0
PCB-1260 Peak 2	Ave	107497347	105036319		0.977	1.00	-2.3	20.0
PCB-1260 Peak 3	Ave	107337123	98726268		0.920	1.00	-8.0	20.0
PCB-1260 Peak 4	Ave	121900070	146566793		1.20	1.00	20.2*	20.0
PCB-1260 Peak 5	Ave	61573736	68433662		1.11	1.00	11.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/50 Calibration Date: 01/23/2013 23:41

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 17:39

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/23/2013 18:58

Lab File ID: P4000050.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.54	1.44	1.64
PCB-1016 Peak 2	1.82	1.72	1.92
PCB-1016 Peak 3	2.21	2.11	2.31
PCB-1016 Peak 4	2.33	2.23	2.43
PCB-1016 Peak 5	2.71	2.61	2.81
PCB-1260 Peak 1	3.91	3.81	4.01
PCB-1260 Peak 2	4.20	4.10	4.30
PCB-1260 Peak 3	4.47	4.38	4.58
PCB-1260 Peak 4	5.18	5.08	5.28
PCB-1260 Peak 5	5.46	5.36	5.56

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000050.D
Lims ID: ICV 1660 Client ID:
Inject. Date: 23-Jan-2013 23:41:06 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0016796-050
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 50
Lims Batch ID: 72953 Lims Sample ID: 50
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:48:31 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
6 PCB-1016									
1	100	1.538	1.538	0.000	22145890	0.8892		100.0	
1	2	1.819	1.819	0.000	45311515	1.00	157.7- 207.7	204.6	
1	3	2.211	2.210	0.001	96638979	1.06	335.7- 385.7	436.4	
1	4	2.330	2.330	0.000	42443080	1.04	127.8- 197.8	191.7	
1	5	2.709	2.709	0.000	41470882	1.00	140.6- 190.6	187.3	
			Average of Peak Amounts =			1.00			
2	6	2.132	2.133	-0.001	17946430	0.9381		100.0	
2	7	2.527	2.527	0.000	38594275	1.00	173.3- 233.3	215.1	
2	8	2.978	2.978	0.000	82681353	1.08	368.6- 428.6	460.7	
2	9	3.116	3.116	0.000	34784338	1.05	147.6- 207.6	193.8	
2	10	3.219	3.219	0.000	27827353	1.07	109.0- 169.0	155.1	
			Average of Peak Amounts =			1.03			
						RPD = 3.18			
10 PCB-1260									
1	100	3.908	3.908	0.000	58370853	0.9700		100.0	
1	2	4.195	4.195	0.000	105036319	0.9771	153.3- 203.3	179.9	
1	3	4.474	4.475	-0.001	98726268	0.9198	152.7- 202.7	169.1	
1	4	5.176	5.176	0.000	146566793	1.20	177.2- 227.2	251.1	
1	5	5.460	5.459	0.001	68433662	1.11	77.3- 127.3	117.2	
			Average of Peak Amounts =			1.04			
2	6	4.930	4.929	0.001	50929149	0.9434		100.0	
2	7	5.159	5.159	0.000	59328664	0.9431	86.6- 146.6	116.5	
2	8	5.527	5.527	0.000	85403554	0.9166	141.2- 201.2	167.7	
2	9	6.213	6.213	0.000	133246420	1.20	175.0- 235.0	261.6	
2	10	6.594	6.594	0.000	90469539	1.14	115.7- 175.7	177.6	
			Average of Peak Amounts =			1.03			
						RPD = 0.78			

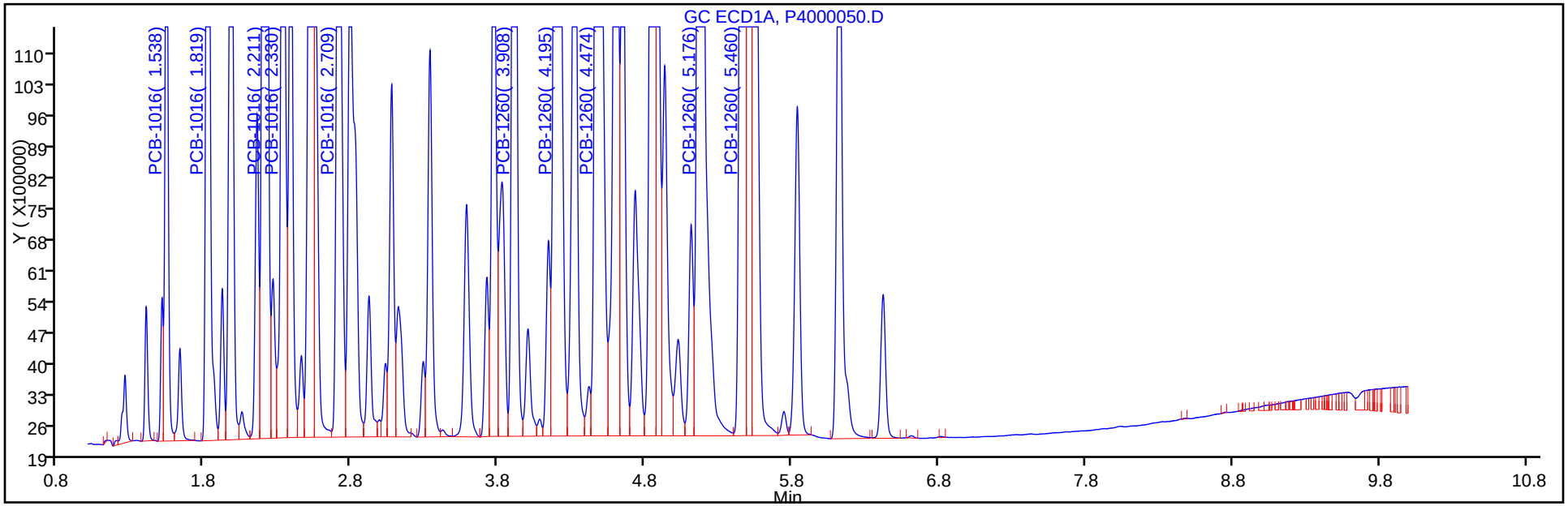
Report Date: 24-Jan-2013 07:48:39 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

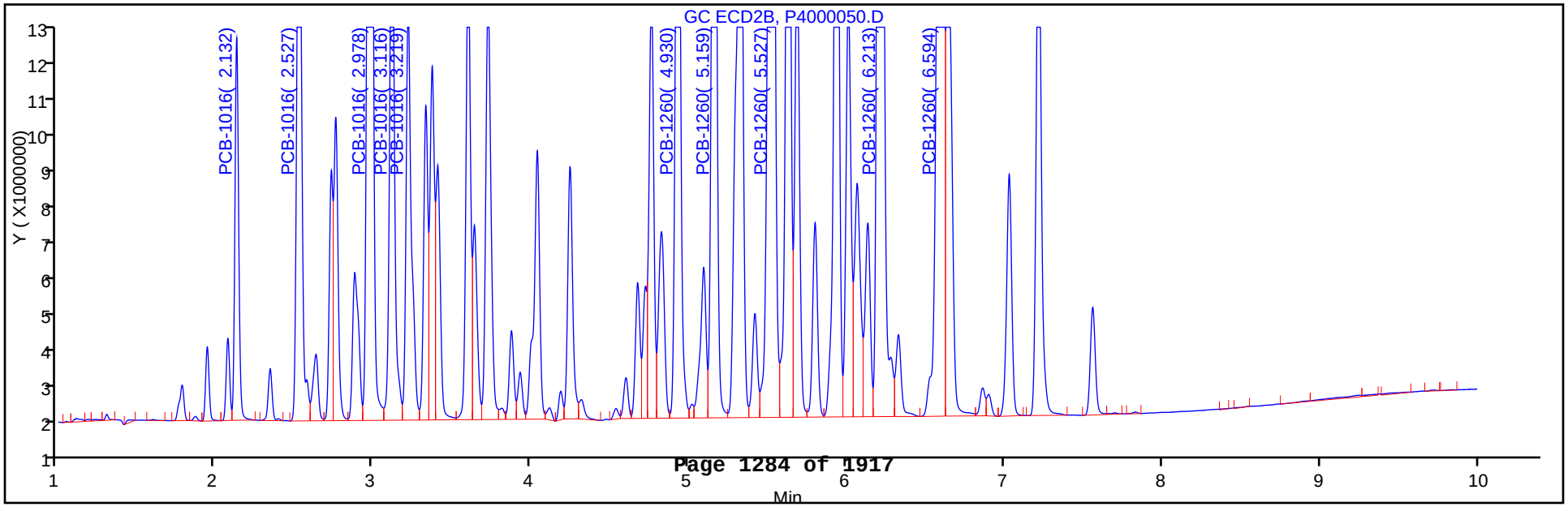
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000050.D

Injection Date:	23-Jan-2013 23:41:06	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	50
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/50 Calibration Date: 01/23/2013 23:41

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 17:39

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/23/2013 18:58

Lab File ID: P4000050.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	19130676	17946430		0.938	1.00	-6.2	20.0
PCB-1016 Peak 2	Ave	38413185	38594275		1.00	1.00	0.5	20.0
PCB-1016 Peak 3	Ave	76618806	82681353		1.08	1.00	7.9	20.0
PCB-1016 Peak 4	Ave	33154579	34784338		1.05	1.00	4.9	20.0
PCB-1016 Peak 5	Ave	25925234	27827353		1.07	1.00	7.3	20.0
PCB-1260 Peak 1	Ave	53986226	50929149		0.943	1.00	-5.7	20.0
PCB-1260 Peak 2	Ave	62905601	59328664		0.943	1.00	-5.7	20.0
PCB-1260 Peak 3	Ave	93172784	85403554		0.917	1.00	-8.3	20.0
PCB-1260 Peak 4	Ave	111417592	133246420		1.20	1.00	19.6	20.0
PCB-1260 Peak 5	Ave	79254975	90469539		1.14	1.00	14.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: ICV 240-72953/50 Calibration Date: 01/23/2013 23:41

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 17:39

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/23/2013 18:58

Lab File ID: P4000050.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.13	2.03	2.23
PCB-1016 Peak 2	2.53	2.43	2.63
PCB-1016 Peak 3	2.98	2.88	3.08
PCB-1016 Peak 4	3.12	3.02	3.22
PCB-1016 Peak 5	3.22	3.12	3.32
PCB-1260 Peak 1	4.93	4.83	5.03
PCB-1260 Peak 2	5.16	5.06	5.26
PCB-1260 Peak 3	5.53	5.43	5.63
PCB-1260 Peak 4	6.21	6.11	6.31
PCB-1260 Peak 5	6.59	6.49	6.69

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000050.D
Lims ID: ICV 1660 Client ID:
Inject. Date: 23-Jan-2013 23:41:06 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0016796-050
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 50
Lims Batch ID: 72953 Lims Sample ID: 50
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\PCB4.m
Last Update: 24-Jan-2013 07:48:31 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK022

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
6 PCB-1016									
1	100	1.538	1.538	0.000	22145890	0.8892		100.0	
1	2	1.819	1.819	0.000	45311515	1.00	157.7- 207.7	204.6	
1	3	2.211	2.210	0.001	96638979	1.06	335.7- 385.7	436.4	
1	4	2.330	2.330	0.000	42443080	1.04	127.8- 197.8	191.7	
1	5	2.709	2.709	0.000	41470882	1.00	140.6- 190.6	187.3	
			Average of Peak Amounts =			1.00			
2	6	2.132	2.133	-0.001	17946430	0.9381		100.0	
2	7	2.527	2.527	0.000	38594275	1.00	173.3- 233.3	215.1	
2	8	2.978	2.978	0.000	82681353	1.08	368.6- 428.6	460.7	
2	9	3.116	3.116	0.000	34784338	1.05	147.6- 207.6	193.8	
2	10	3.219	3.219	0.000	27827353	1.07	109.0- 169.0	155.1	
			Average of Peak Amounts =			1.03			
						RPD = 3.18			
10 PCB-1260									
1	100	3.908	3.908	0.000	58370853	0.9700		100.0	
1	2	4.195	4.195	0.000	105036319	0.9771	153.3- 203.3	179.9	
1	3	4.474	4.475	-0.001	98726268	0.9198	152.7- 202.7	169.1	
1	4	5.176	5.176	0.000	146566793	1.20	177.2- 227.2	251.1	
1	5	5.460	5.459	0.001	68433662	1.11	77.3- 127.3	117.2	
			Average of Peak Amounts =			1.04			
2	6	4.930	4.929	0.001	50929149	0.9434		100.0	
2	7	5.159	5.159	0.000	59328664	0.9431	86.6- 146.6	116.5	
2	8	5.527	5.527	0.000	85403554	0.9166	141.2- 201.2	167.7	
2	9	6.213	6.213	0.000	133246420	1.20	175.0- 235.0	261.6	
2	10	6.594	6.594	0.000	90469539	1.14	115.7- 175.7	177.6	
			Average of Peak Amounts =			1.03			
						RPD = 0.78			

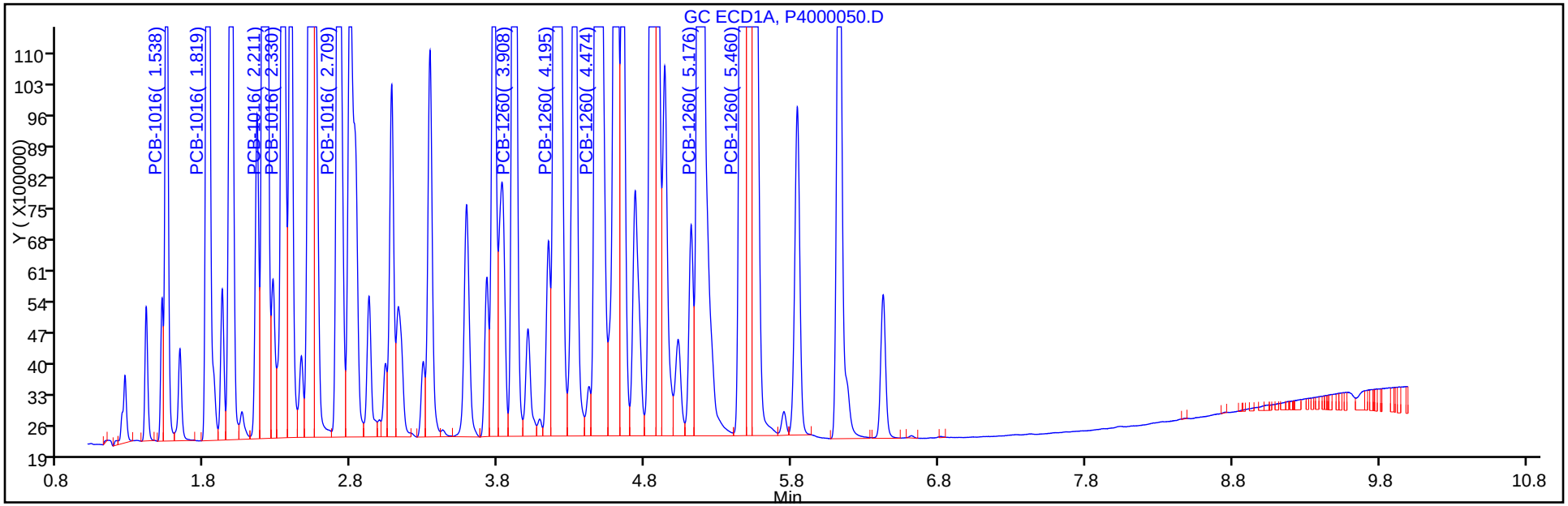
Report Date: 24-Jan-2013 07:48:40 Chrom Revision: 2.0 27-Nov-2012 13:14:12

TestAmerica Canton

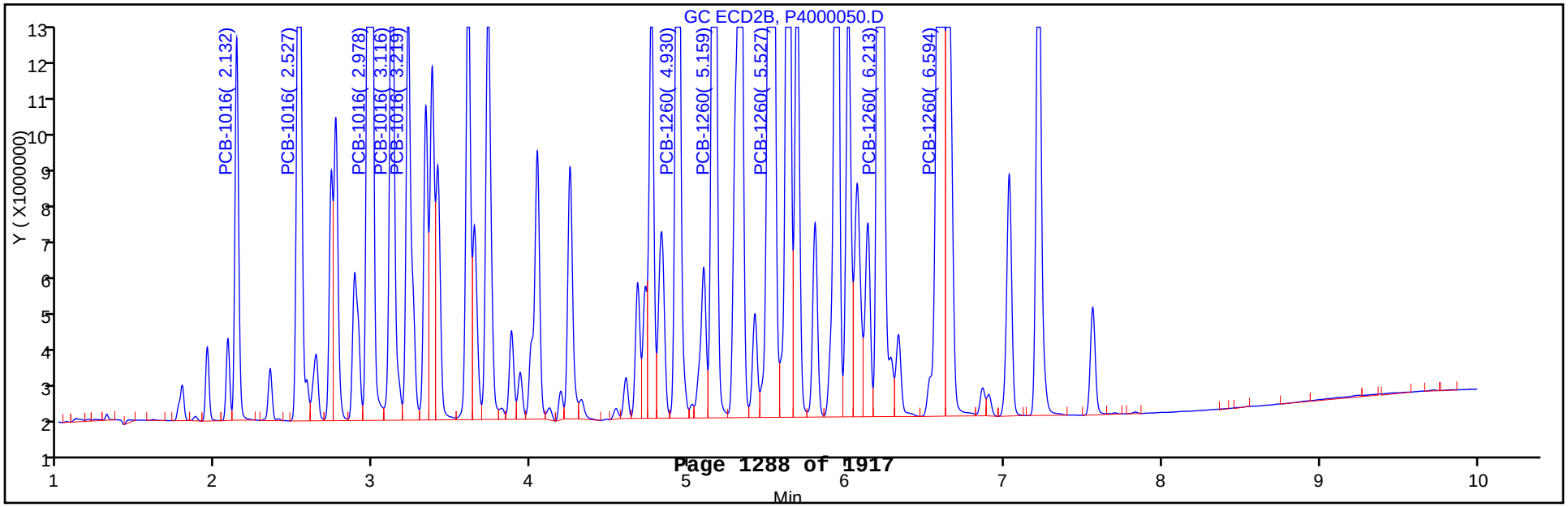
Data File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000050.D

Injection Date:	23-Jan-2013 23:41:06	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	72953	Lims Sample ID:	50
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79577/3 Calibration Date: 03/27/2013 08:01

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 17:39

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/23/2013 18:58

Lab File ID: P4000003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	24904755	26514012		0.532	0.500	6.5	20.0
PCB-1016 Peak 2	Ave	45461462	47095420		0.518	0.500	3.6	20.0
PCB-1016 Peak 3	Ave	91493370	101770278		0.556	0.500	11.2	20.0
PCB-1016 Peak 4	Ave	40923536	43237694		0.528	0.500	5.7	20.0
PCB-1016 Peak 5	Ave	41299669	42400946		0.513	0.500	2.7	20.0
PCB-1260 Peak 1	Ave	60176437	62282212		0.517	0.500	3.5	20.0
PCB-1260 Peak 2	Ave	107497347	112867326		0.525	0.500	5.0	20.0
PCB-1260 Peak 3	Ave	107337123	115889884		0.540	0.500	8.0	20.0
PCB-1260 Peak 4	Ave	121900070	137004734		0.562	0.500	12.4	20.0
PCB-1260 Peak 5	Ave	61573736	71884202		0.584	0.500	16.7	20.0
Tetrachloro-m-xylene	Ave	1462061335	1548389800		0.0265	0.0250	5.9	20.0
DCB Decachlorobiphenyl	Ave	1283812147	1335265280		0.0260	0.0250	4.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79577/3 Calibration Date: 03/27/2013 08:01

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 17:39

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/23/2013 18:58

Lab File ID: P4000003.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.53	1.43	1.63
PCB-1016 Peak 2	1.81	1.71	1.91
PCB-1016 Peak 3	2.20	2.10	2.30
PCB-1016 Peak 4	2.32	2.22	2.42
PCB-1016 Peak 5	2.69	2.59	2.79
PCB-1260 Peak 1	3.89	3.79	3.99
PCB-1260 Peak 2	4.18	4.08	4.28
PCB-1260 Peak 3	4.45	4.35	4.55
PCB-1260 Peak 4	5.15	5.05	5.25
PCB-1260 Peak 5	5.44	5.34	5.54
Tetrachloro-m-xylene	1.26	1.16	1.36
DCB Decachlorobiphenyl	6.59	6.49	6.69

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000003.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 27-Mar-2013 08:01:35 Dil. Factor: 1.0000
Sample Type: CCVRT
Sample ID: 240-0018292-003
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 3
Lims Batch ID: 79577 Lims Sample ID: 3
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\PCB4.m
Last Update: 28-Mar-2013 13:29:13 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK015

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.259	1.259	0.000	38709745	0.0265			
2	2	1.662	1.662	0.000	37134906	0.0324			
						RPD = 20.22			
6 PCB-1016									
1	100	1.527	1.527	0.000	13257006	0.5323		100.0	
1	2	1.807	1.807	0.000	23547710	0.5180	157.7- 207.7	177.6	
1	3	2.196	2.196	0.000	50885139	0.5562	335.7- 385.7	383.8	
1	4	2.316	2.316	0.000	21618847	0.5283	127.8- 197.8	163.1	
1	5	2.694	2.694	0.000	21200473	0.5133	140.6- 190.6	159.9	
			Average of Peak Amounts =			0.5296			
2	6	2.122	2.122	0.000	11921805	0.6232		100.0	
2	7	2.516	2.516	0.000	23619520	0.6149	173.3- 233.3	198.1	
2	8	2.966	2.966	0.000	49463780	0.6456	368.6- 428.6	414.9	
2	9	3.104	3.104	0.000	20139863	0.6075	147.6- 207.6	168.9	
2	10	3.207	3.207	0.000	15922521	0.6142	109.0- 169.0	133.6	
			Average of Peak Amounts =			0.6211			
						RPD = 15.89			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.889	3.889	0.000	31141106	0.5175		100.0	
1	2	4.175	4.175	0.000	56433663	0.5250	153.3- 203.3	181.2	
1	3	4.454	4.454	0.000	57944942	0.5398	152.7- 202.7	186.1	
1	4	5.153	5.153	0.000	68502367	0.5620	177.2- 227.2	220.0	
1	5	5.436	5.436	0.000	35942101	0.5837	77.3- 127.3	115.4	
			Average of Peak Amounts =			0.5456			
2	6	4.916	4.916	0.000	32842242	0.6083		100.0	
2	7	5.144	5.144	0.000	38931384	0.6189	86.6- 146.6	118.5	
2	8	5.512	5.512	0.000	58981508	0.6330	141.2- 201.2	179.6	
2	9	6.196	6.196	0.000	72579357	0.6514	175.0- 235.0	221.0	
2	10	6.578	6.578	0.000	49934883	0.6301	115.7- 175.7	152.0	
			Average of Peak Amounts =			0.6283			
						RPD = 14.10			
$ 12 DCB Decachlorobiphenyl									
1	100	6.591	6.591	0.000	33381632	0.0260			
2	2	7.813	7.813	0.000	31420097	0.0286			
						RPD = 9.61			

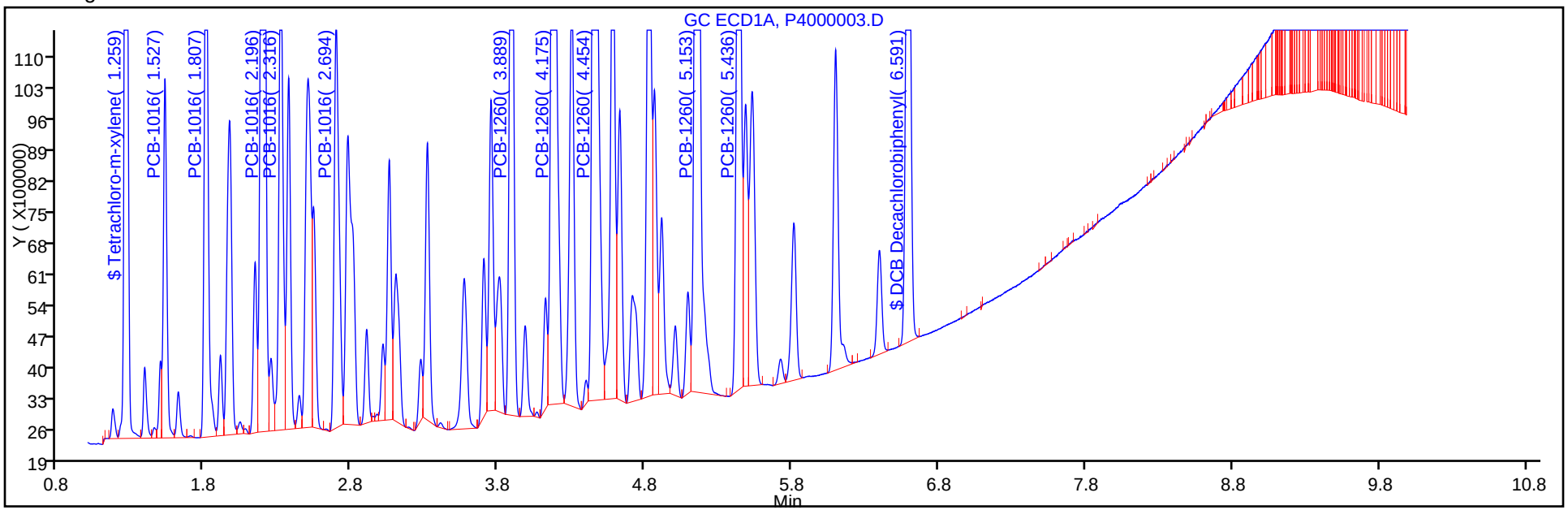
Report Date: 28-Mar-2013 13:29:14 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

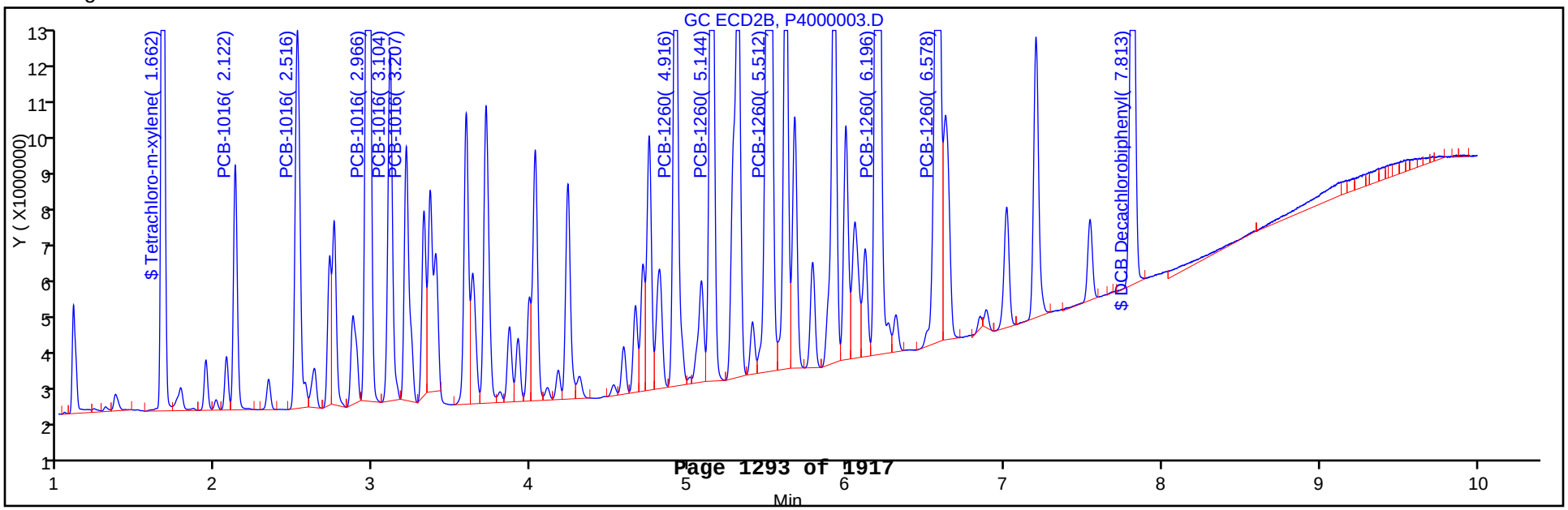
Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000003.D

Injection Date:	27-Mar-2013 08:01:35	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	79577	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79577/3 Calibration Date: 03/27/2013 08:01

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 17:39

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/23/2013 18:58

Lab File ID: P4000003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	19130676	23843610		0.623	0.500	24.6*	20.0
PCB-1016 Peak 2	Ave	38413185	47239040		0.615	0.500	23.0*	20.0
PCB-1016 Peak 3	Ave	76618806	98927560		0.646	0.500	29.1*	20.0
PCB-1016 Peak 4	Ave	33154579	40279726		0.607	0.500	21.5*	20.0
PCB-1016 Peak 5	Ave	25925234	31845042		0.614	0.500	22.8*	20.0
PCB-1260 Peak 1	Ave	53986226	65684484		0.608	0.500	21.7*	20.0
PCB-1260 Peak 2	Ave	62905601	77862768		0.619	0.500	23.8*	20.0
PCB-1260 Peak 3	Ave	93172784	117963016		0.633	0.500	26.6*	20.0
PCB-1260 Peak 4	Ave	111417592	145158714		0.651	0.500	30.3*	20.0
PCB-1260 Peak 5	Ave	79254975	99869766		0.630	0.500	26.0*	20.0
Tetrachloro-m-xylene	Ave	1145026652	1485396240		0.0324	0.0250	29.7*	20.0
DCB Decachlorobiphenyl	Ave	1097523500	1256803880		0.0286	0.0250	14.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79577/3 Calibration Date: 03/27/2013 08:01

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 17:39

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/23/2013 18:58

Lab File ID: P4000003.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.12	2.02	2.22
PCB-1016 Peak 2	2.52	2.42	2.62
PCB-1016 Peak 3	2.97	2.87	3.07
PCB-1016 Peak 4	3.10	3.00	3.20
PCB-1016 Peak 5	3.21	3.11	3.31
PCB-1260 Peak 1	4.92	4.82	5.02
PCB-1260 Peak 2	5.14	5.04	5.24
PCB-1260 Peak 3	5.51	5.41	5.61
PCB-1260 Peak 4	6.20	6.10	6.30
PCB-1260 Peak 5	6.58	6.48	6.68
Tetrachloro-m-xylene	1.66	1.56	1.76
DCB Decachlorobiphenyl	7.81	7.71	7.91

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000003.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 27-Mar-2013 08:01:35 Dil. Factor: 1.0000
Sample Type: CCVRT
Sample ID: 240-0018292-003
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 3
Lims Batch ID: 79577 Lims Sample ID: 3
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\PCB4.m
Last Update: 28-Mar-2013 13:29:13 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK015

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.259	1.259	0.000	38709745	0.0265			
2	2	1.662	1.662	0.000	37134906	0.0324			
						RPD = 20.22			
6 PCB-1016									
1	100	1.527	1.527	0.000	13257006	0.5323		100.0	
1	2	1.807	1.807	0.000	23547710	0.5180	157.7- 207.7	177.6	
1	3	2.196	2.196	0.000	50885139	0.5562	335.7- 385.7	383.8	
1	4	2.316	2.316	0.000	21618847	0.5283	127.8- 197.8	163.1	
1	5	2.694	2.694	0.000	21200473	0.5133	140.6- 190.6	159.9	
			Average of Peak Amounts =			0.5296			
2	6	2.122	2.122	0.000	11921805	0.6232		100.0	
2	7	2.516	2.516	0.000	23619520	0.6149	173.3- 233.3	198.1	
2	8	2.966	2.966	0.000	49463780	0.6456	368.6- 428.6	414.9	
2	9	3.104	3.104	0.000	20139863	0.6075	147.6- 207.6	168.9	
2	10	3.207	3.207	0.000	15922521	0.6142	109.0- 169.0	133.6	
			Average of Peak Amounts =			0.6211			
						RPD = 15.89			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.889	3.889	0.000	31141106	0.5175		100.0	
1	2	4.175	4.175	0.000	56433663	0.5250	153.3- 203.3	181.2	
1	3	4.454	4.454	0.000	57944942	0.5398	152.7- 202.7	186.1	
1	4	5.153	5.153	0.000	68502367	0.5620	177.2- 227.2	220.0	
1	5	5.436	5.436	0.000	35942101	0.5837	77.3- 127.3	115.4	
			Average of Peak Amounts =			0.5456			
2	6	4.916	4.916	0.000	32842242	0.6083		100.0	
2	7	5.144	5.144	0.000	38931384	0.6189	86.6- 146.6	118.5	
2	8	5.512	5.512	0.000	58981508	0.6330	141.2- 201.2	179.6	
2	9	6.196	6.196	0.000	72579357	0.6514	175.0- 235.0	221.0	
2	10	6.578	6.578	0.000	49934883	0.6301	115.7- 175.7	152.0	
			Average of Peak Amounts =			0.6283			
						RPD = 14.10			
$ 12 DCB Decachlorobiphenyl									
1	100	6.591	6.591	0.000	33381632	0.0260			
2	2	7.813	7.813	0.000	31420097	0.0286			
						RPD = 9.61			

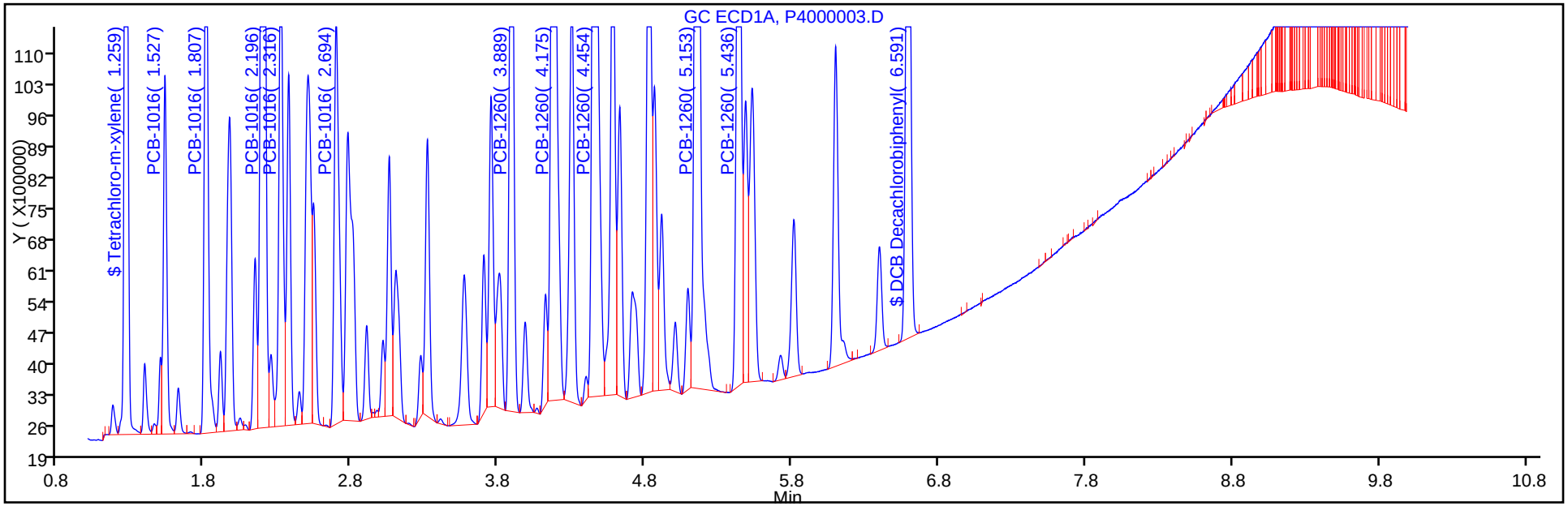
Report Date: 28-Mar-2013 13:29:14 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

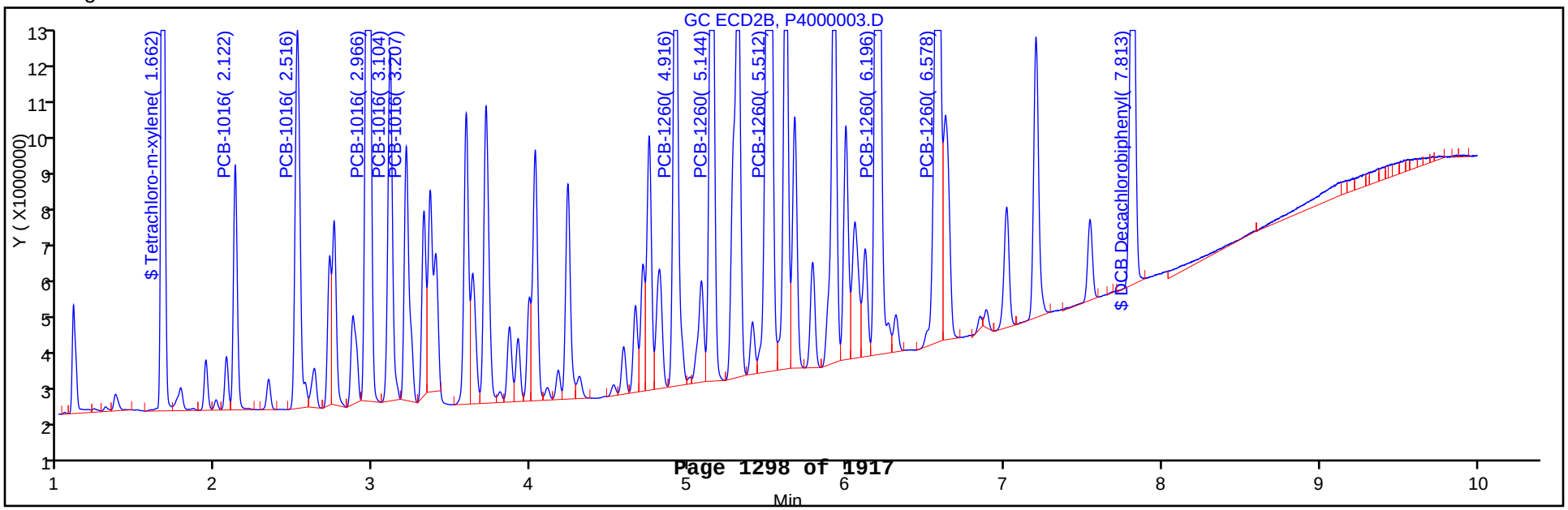
Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000003.D

Injection Date:	27-Mar-2013 08:01:35	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	79577	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79577/21 Calibration Date: 03/27/2013 12:54

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 17:39

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/23/2013 18:58

Lab File ID: P4000021.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	24904755	23812890		0.478	0.500	-4.4	20.0
PCB-1016 Peak 2	Ave	45461462	41826586		0.460	0.500	-8.0	20.0
PCB-1016 Peak 3	Ave	91493370	90311430		0.494	0.500	-1.3	20.0
PCB-1016 Peak 4	Ave	40923536	38762766		0.474	0.500	-5.3	20.0
PCB-1016 Peak 5	Ave	41299669	38244356		0.463	0.500	-7.4	20.0
PCB-1260 Peak 1	Ave	60176437	56371518		0.468	0.500	-6.3	20.0
PCB-1260 Peak 2	Ave	107497347	103296504		0.480	0.500	-3.9	20.0
PCB-1260 Peak 3	Ave	107337123	105736084		0.493	0.500	-1.5	20.0
PCB-1260 Peak 4	Ave	121900070	124228510		0.510	0.500	1.9	20.0
PCB-1260 Peak 5	Ave	61573736	65377502		0.531	0.500	6.2	20.0
Tetrachloro-m-xylene	Ave	1462061335	1391973920		0.0238	0.0250	-4.8	20.0
DCB Decachlorobiphenyl	Ave	1283812147	1198779520		0.0233	0.0250	-6.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79577/21 Calibration Date: 03/27/2013 12:54

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 17:39

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/23/2013 18:58

Lab File ID: P4000021.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.53	1.43	1.63
PCB-1016 Peak 2	1.81	1.71	1.91
PCB-1016 Peak 3	2.20	2.10	2.30
PCB-1016 Peak 4	2.32	2.22	2.42
PCB-1016 Peak 5	2.70	2.60	2.80
PCB-1260 Peak 1	3.90	3.80	4.00
PCB-1260 Peak 2	4.18	4.08	4.28
PCB-1260 Peak 3	4.46	4.36	4.56
PCB-1260 Peak 4	5.16	5.06	5.26
PCB-1260 Peak 5	5.44	5.34	5.54
Tetrachloro-m-xylene	1.26	1.16	1.36
DCB Decachlorobiphenyl	6.60	6.50	6.70

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000021.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 27-Mar-2013 12:54:05 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018292-021
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 21
Lims Batch ID: 79577 Lims Sample ID: 21
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\PCB4.m
Last Update: 28-Mar-2013 13:28:38 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK015

First Level Reviewer: hassl Date: 28-Mar-2013 13:22:56

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.263	1.263	0.000	34799348	0.0238			
2	2	1.663	1.663	0.000	31846280	0.0278			
						RPD = 15.54			
6 PCB-1016									
1	100	1.531	1.531	0.000	11906445	0.4781		100.0	
1	2	1.813	1.813	0.000	20913293	0.4600	157.7- 207.7	175.6	
1	3	2.203	2.203	0.000	45155715	0.4935	335.7- 385.7	379.3	
1	4	2.323	2.323	0.000	19381383	0.4736	127.8- 197.8	162.8	
1	5	2.700	2.700	0.000	19122178	0.4630	140.6- 190.6	160.6	
			Average of Peak Amounts =			0.4737			
2	6	2.123	2.123	0.000	10080012	0.5269		100.0	
2	7	2.518	2.518	0.000	20298813	0.5284	173.3- 233.3	201.4	
2	8	2.968	2.968	0.000	42864688	0.5595	368.6- 428.6	425.2	
2	9	3.105	3.105	0.000	17309086	0.5221	147.6- 207.6	171.7	
2	10	3.208	3.208	0.000	13658781	0.5269	109.0- 169.0	135.5	
			Average of Peak Amounts =			0.5327			
						RPD = 11.74			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.896	3.896	0.000	28185759	0.4684		100.0	
1	2	4.182	4.182	0.000	51648252	0.4805	153.3- 203.3	183.2	
1	3	4.461	4.461	0.000	52868042	0.4925	152.7- 202.7	187.6	
1	4	5.160	5.160	0.000	62114255	0.5096	177.2- 227.2	220.4	
1	5	5.443	5.443	0.000	32688751	0.5309	77.3- 127.3	116.0	
			Average of Peak Amounts =			0.4964			
2	6	4.917	4.917	0.000	28393533	0.5259		100.0	
2	7	5.147	5.147	0.000	33549842	0.5333	86.6- 146.6	118.2	
2	8	5.514	5.514	0.000	49170291	0.5277	141.2- 201.2	173.2	
2	9	6.198	6.198	0.000	60404124	0.5421	175.0- 235.0	212.7	
2	10	6.578	6.578	0.000	42251520	0.5331	115.7- 175.7	148.8	
			Average of Peak Amounts =			0.5325			
						RPD = 7.02			
$ 12 DCB Decachlorobiphenyl									
1	100	6.598	6.598	0.000	29969488	0.0233			
2	2	7.816	7.816	0.000	28688667	0.0261			
						RPD = 11.30			

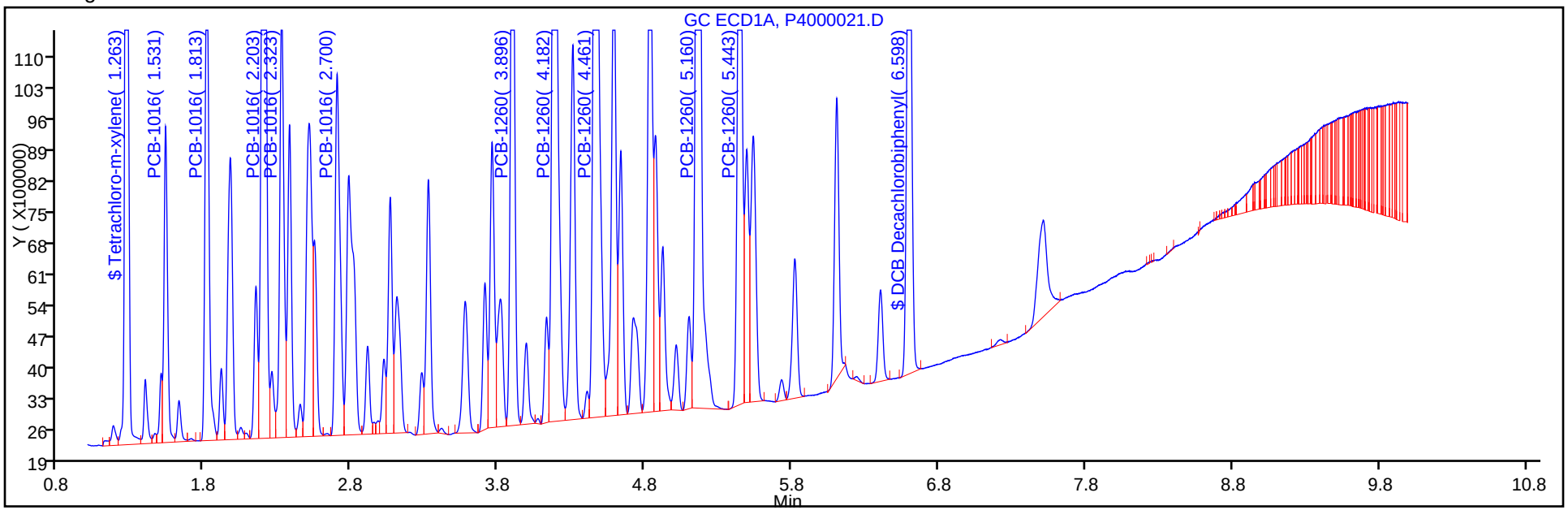
Report Date: 28-Mar-2013 13:28:39 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

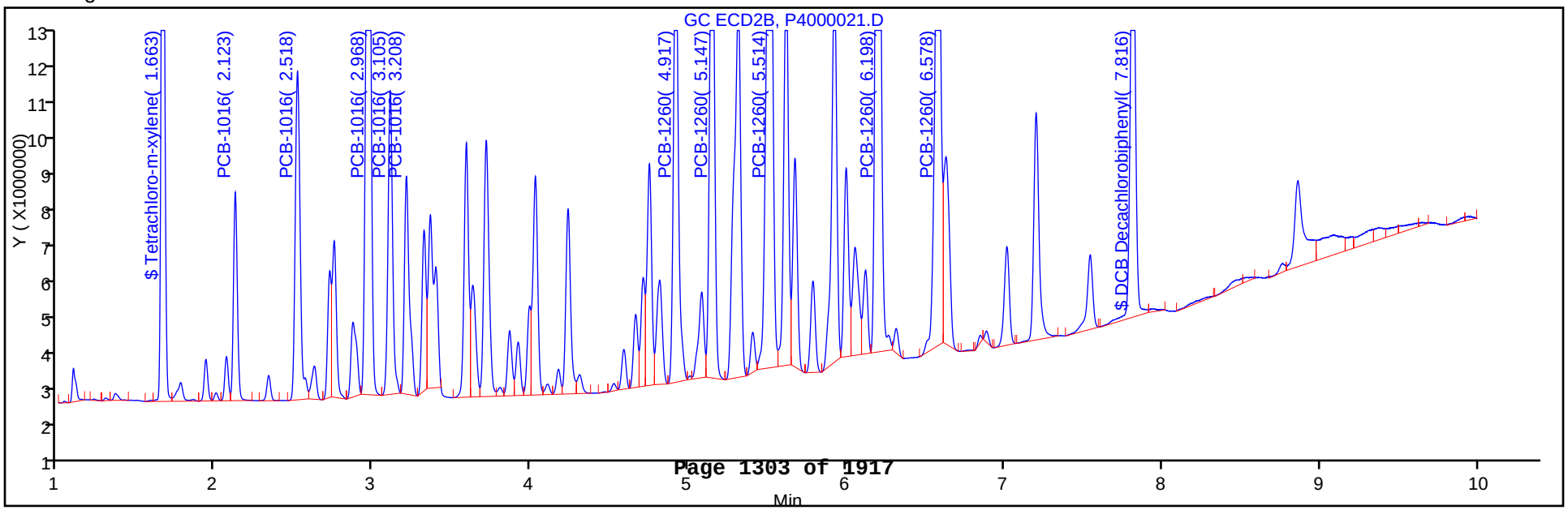
Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000021.D

Injection Date:	27-Mar-2013 12:54:05	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	79577	Lims Sample ID:	21
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79577/21 Calibration Date: 03/27/2013 12:54

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 17:39

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/23/2013 18:58

Lab File ID: P4000021.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	19130676	20160024		0.527	0.500	5.4	20.0
PCB-1016 Peak 2	Ave	38413185	40597626		0.528	0.500	5.7	20.0
PCB-1016 Peak 3	Ave	76618806	85729376		0.559	0.500	11.9	20.0
PCB-1016 Peak 4	Ave	33154579	34618172		0.522	0.500	4.4	20.0
PCB-1016 Peak 5	Ave	25925234	27317562		0.527	0.500	5.4	20.0
PCB-1260 Peak 1	Ave	53986226	56787066		0.526	0.500	5.2	20.0
PCB-1260 Peak 2	Ave	62905601	67099684		0.533	0.500	6.7	20.0
PCB-1260 Peak 3	Ave	93172784	98340582		0.528	0.500	5.5	20.0
PCB-1260 Peak 4	Ave	111417592	120808248		0.542	0.500	8.4	20.0
PCB-1260 Peak 5	Ave	79254975	84503040		0.533	0.500	6.6	20.0
Tetrachloro-m-xylene	Ave	1145026652	1273851200		0.0278	0.0250	11.3	20.0
DCB Decachlorobiphenyl	Ave	1097523500	1147546680		0.0261	0.0250	4.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79577/21 Calibration Date: 03/27/2013 12:54

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 17:39

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/23/2013 18:58

Lab File ID: P4000021.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.12	2.02	2.22
PCB-1016 Peak 2	2.52	2.42	2.62
PCB-1016 Peak 3	2.97	2.87	3.07
PCB-1016 Peak 4	3.11	3.01	3.21
PCB-1016 Peak 5	3.21	3.11	3.31
PCB-1260 Peak 1	4.92	4.82	5.02
PCB-1260 Peak 2	5.15	5.05	5.25
PCB-1260 Peak 3	5.51	5.41	5.61
PCB-1260 Peak 4	6.20	6.10	6.30
PCB-1260 Peak 5	6.58	6.48	6.68
Tetrachloro-m-xylene	1.66	1.56	1.76
DCB Decachlorobiphenyl	7.82	7.72	7.92

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000021.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 27-Mar-2013 12:54:05 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018292-021
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 21
Lims Batch ID: 79577 Lims Sample ID: 21
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\PCB4.m
Last Update: 28-Mar-2013 13:28:38 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK015

First Level Reviewer: hassl Date: 28-Mar-2013 13:22:56

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.263	1.263	0.000	34799348	0.0238			
2	2	1.663	1.663	0.000	31846280	0.0278			
						RPD = 15.54			
6 PCB-1016									
1	100	1.531	1.531	0.000	11906445	0.4781		100.0	
1	2	1.813	1.813	0.000	20913293	0.4600	157.7- 207.7	175.6	
1	3	2.203	2.203	0.000	45155715	0.4935	335.7- 385.7	379.3	
1	4	2.323	2.323	0.000	19381383	0.4736	127.8- 197.8	162.8	
1	5	2.700	2.700	0.000	19122178	0.4630	140.6- 190.6	160.6	
			Average of Peak Amounts =			0.4737			
2	6	2.123	2.123	0.000	10080012	0.5269		100.0	
2	7	2.518	2.518	0.000	20298813	0.5284	173.3- 233.3	201.4	
2	8	2.968	2.968	0.000	42864688	0.5595	368.6- 428.6	425.2	
2	9	3.105	3.105	0.000	17309086	0.5221	147.6- 207.6	171.7	
2	10	3.208	3.208	0.000	13658781	0.5269	109.0- 169.0	135.5	
			Average of Peak Amounts =			0.5327			
						RPD = 11.74			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.896	3.896	0.000	28185759	0.4684		100.0	
1	2	4.182	4.182	0.000	51648252	0.4805	153.3- 203.3	183.2	
1	3	4.461	4.461	0.000	52868042	0.4925	152.7- 202.7	187.6	
1	4	5.160	5.160	0.000	62114255	0.5096	177.2- 227.2	220.4	
1	5	5.443	5.443	0.000	32688751	0.5309	77.3- 127.3	116.0	
			Average of Peak Amounts =			0.4964			
2	6	4.917	4.917	0.000	28393533	0.5259		100.0	
2	7	5.147	5.147	0.000	33549842	0.5333	86.6- 146.6	118.2	
2	8	5.514	5.514	0.000	49170291	0.5277	141.2- 201.2	173.2	
2	9	6.198	6.198	0.000	60404124	0.5421	175.0- 235.0	212.7	
2	10	6.578	6.578	0.000	42251520	0.5331	115.7- 175.7	148.8	
			Average of Peak Amounts =			0.5325			
						RPD = 7.02			
$ 12 DCB Decachlorobiphenyl									
1	100	6.598	6.598	0.000	29969488	0.0233			
2	2	7.816	7.816	0.000	28688667	0.0261			
						RPD = 11.30			

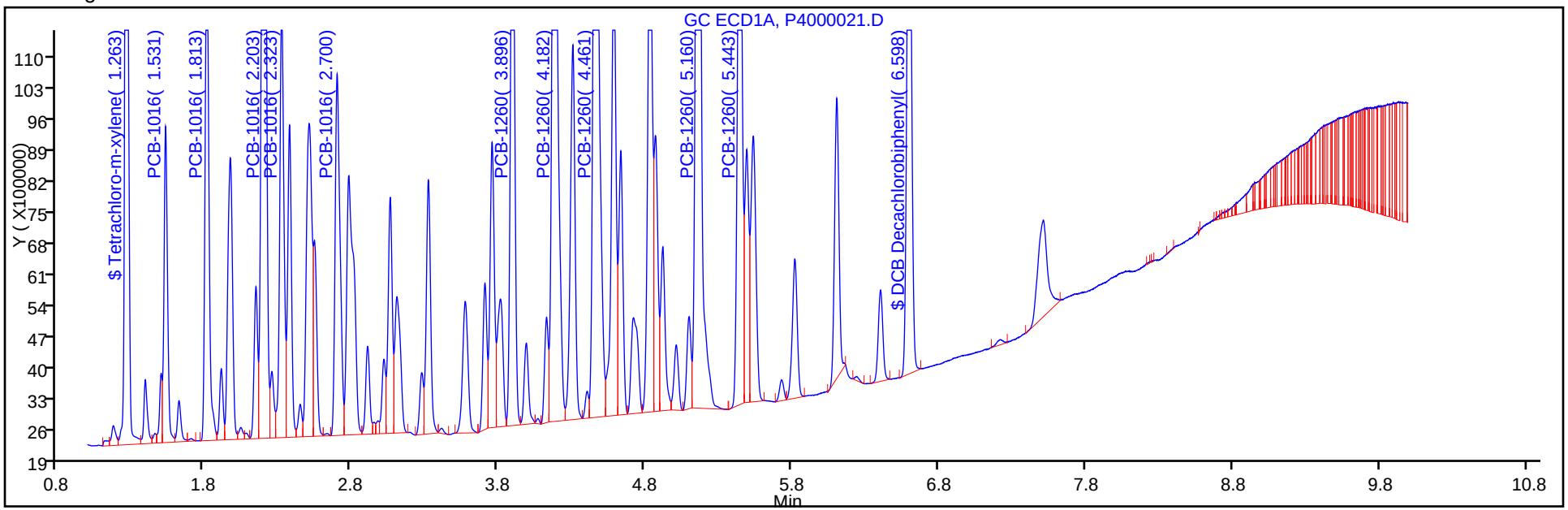
Report Date: 28-Mar-2013 13:28:39 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

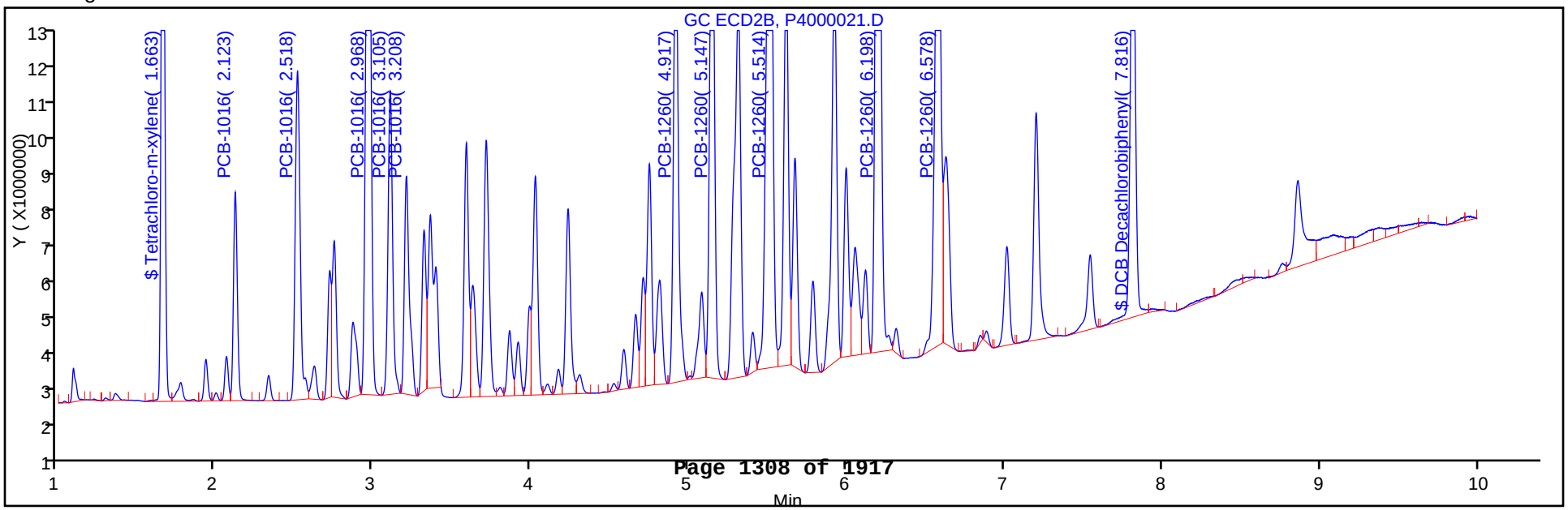
Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000021.D

Injection Date:	27-Mar-2013 12:54:05	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	79577	Lims Sample ID:	21
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79577/30 Calibration Date: 03/27/2013 15:15

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 17:39

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/23/2013 18:58

Lab File ID: P4000030.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	24904755	23128450		0.464	0.500	-7.1	20.0
PCB-1016 Peak 2	Ave	45461462	41220006		0.453	0.500	-9.3	20.0
PCB-1016 Peak 3	Ave	91493370	88570090		0.484	0.500	-3.2	20.0
PCB-1016 Peak 4	Ave	40923536	38163054		0.466	0.500	-6.7	20.0
PCB-1016 Peak 5	Ave	41299669	37714950		0.457	0.500	-8.7	20.0
PCB-1260 Peak 1	Ave	60176437	55429340		0.461	0.500	-7.9	20.0
PCB-1260 Peak 2	Ave	107497347	101955720		0.474	0.500	-5.2	20.0
PCB-1260 Peak 3	Ave	107337123	104558882		0.487	0.500	-2.6	20.0
PCB-1260 Peak 4	Ave	121900070	124372134		0.510	0.500	2.0	20.0
PCB-1260 Peak 5	Ave	61573736	63877790		0.519	0.500	3.7	20.0
Tetrachloro-m-xylene	Ave	1462061335	1356760200		0.0232	0.0250	-7.2	20.0
DCB Decachlorobiphenyl	Ave	1283812147	1232557200		0.0240	0.0250	-4.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79577/30 Calibration Date: 03/27/2013 15:15

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 17:39

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/23/2013 18:58

Lab File ID: P4000030.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.53	1.43	1.63
PCB-1016 Peak 2	1.81	1.71	1.91
PCB-1016 Peak 3	2.20	2.10	2.30
PCB-1016 Peak 4	2.32	2.22	2.42
PCB-1016 Peak 5	2.69	2.59	2.79
PCB-1260 Peak 1	3.89	3.79	3.99
PCB-1260 Peak 2	4.17	4.07	4.27
PCB-1260 Peak 3	4.45	4.35	4.55
PCB-1260 Peak 4	5.15	5.05	5.25
PCB-1260 Peak 5	5.44	5.34	5.54
Tetrachloro-m-xylene	1.26	1.16	1.36
DCB Decachlorobiphenyl	6.59	6.49	6.69

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000030.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 27-Mar-2013 15:15:29 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018292-030
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 30
Lims Batch ID: 79577 Lims Sample ID: 30
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\PCB4.m
Last Update: 28-Mar-2013 13:29:02 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK015

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.259	1.259	0.000	33919005	0.0232			
2	2	1.663	1.663	0.000	31326809	0.0274			
						RPD = 16.45			
6 PCB-1016									
1	100	1.528	1.528	0.000	11564225	0.4643		100.0	
1	2	1.808	1.808	0.000	20610003	0.4534	157.7- 207.7	178.2	
1	3	2.198	2.198	0.000	44285045	0.4840	335.7- 385.7	382.9	
1	4	2.316	2.316	0.000	19081527	0.4663	127.8- 197.8	165.0	
1	5	2.693	2.693	0.000	18857475	0.4566	140.6- 190.6	163.1	
			Average of Peak Amounts =			0.4649			
2	6	2.123	2.123	0.000	10053900	0.5255		100.0	
2	7	2.517	2.517	0.000	20144296	0.5244	173.3- 233.3	200.4	
2	8	2.967	2.967	0.000	42809309	0.5587	368.6- 428.6	425.8	
2	9	3.104	3.104	0.000	17410492	0.5251	147.6- 207.6	173.2	
2	10	3.208	3.208	0.000	13675579	0.5275	109.0- 169.0	136.0	
			Average of Peak Amounts =			0.5323			
						RPD = 13.51			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.888	3.888	0.000	27714670	0.4606		100.0	
1	2	4.174	4.174	0.000	50977860	0.4742	153.3- 203.3	183.9	
1	3	4.453	4.453	0.000	52279441	0.4871	152.7- 202.7	188.6	
1	4	5.153	5.153	0.000	62186067	0.5101	177.2- 227.2	224.4	
1	5	5.437	5.437	0.000	31938895	0.5187	77.3- 127.3	115.2	
			Average of Peak Amounts =			0.4901			
2	6	4.915	4.915	0.000	28521022	0.5283		100.0	
2	7	5.145	5.145	0.000	33486874	0.5323	86.6- 146.6	117.4	
2	8	5.513	5.513	0.000	50877180	0.5461	141.2- 201.2	178.4	
2	9	6.196	6.196	0.000	64386001	0.5779	175.0- 235.0	225.7	
2	10	6.578	6.578	0.000	45017106	0.5680	115.7- 175.7	157.8	
			Average of Peak Amounts =			0.5505			
						RPD = 11.60			
$ 12 DCB Decachlorobiphenyl									
1	100	6.592	6.592	0.000	30813930	0.0240			
2	2	7.813	7.813	0.000	28676897	0.0261			
						RPD = 8.49			

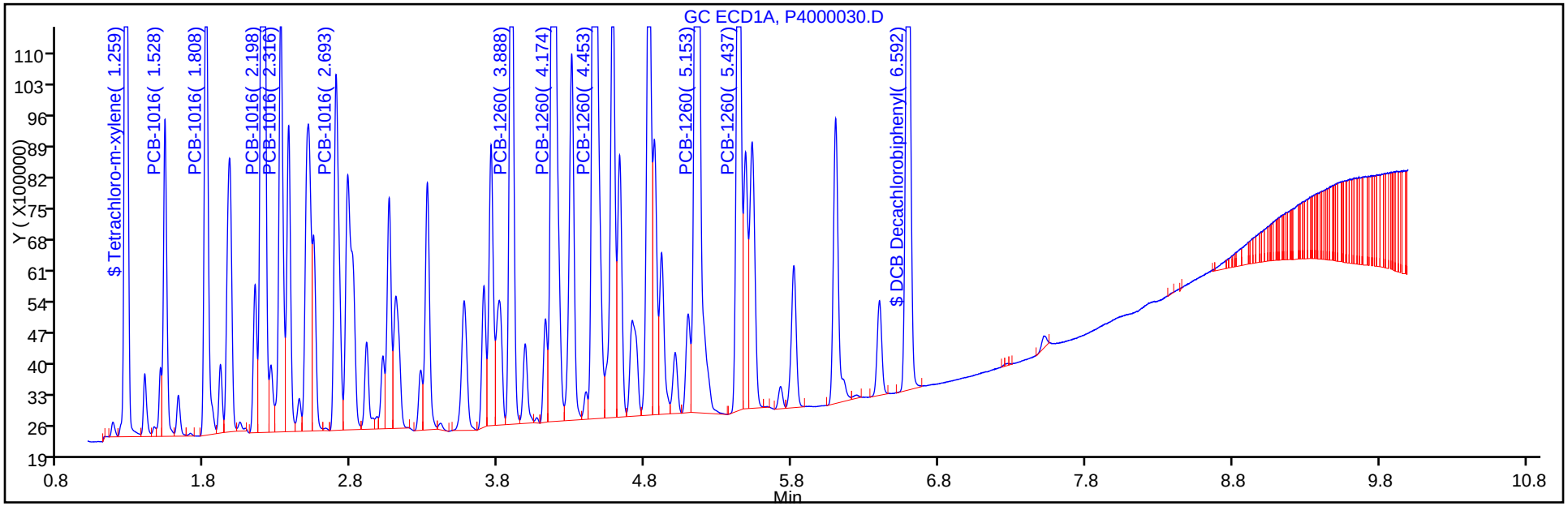
Report Date: 28-Mar-2013 13:29:04 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

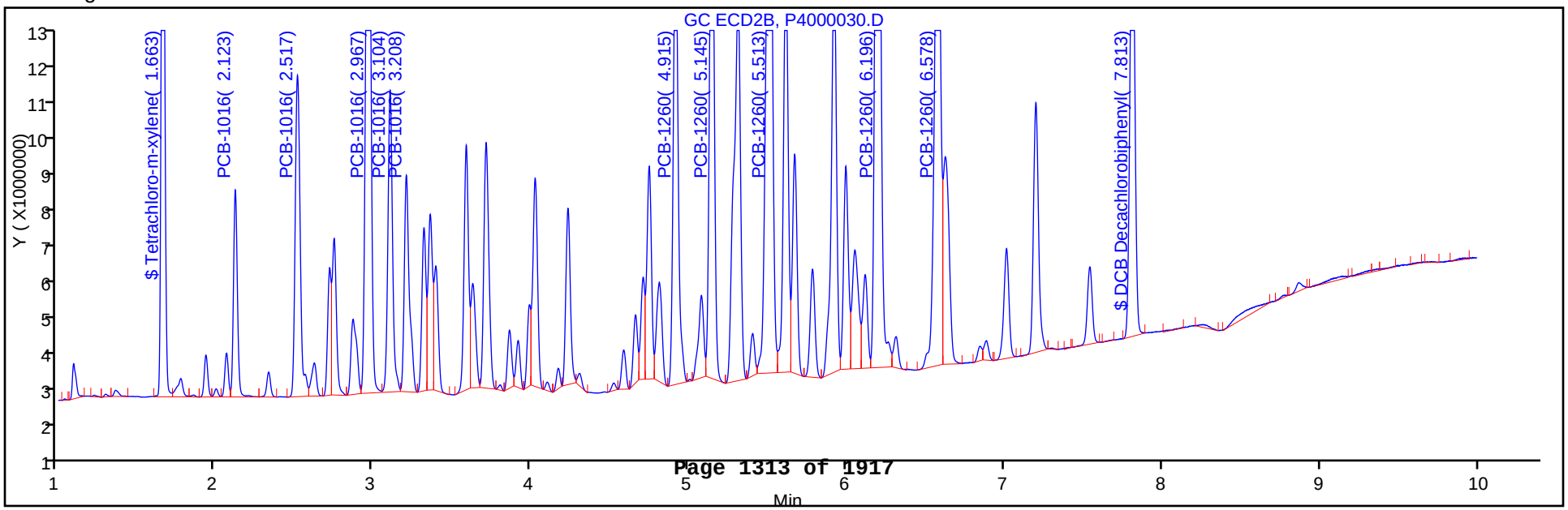
Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000030.D

Injection Date:	27-Mar-2013 15:15:29	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	79577	Lims Sample ID:	30
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79577/30 Calibration Date: 03/27/2013 15:15

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 17:39

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/23/2013 18:58

Lab File ID: P4000030.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	19130676	20107800		0.526	0.500	5.1	20.0
PCB-1016 Peak 2	Ave	38413185	40288592		0.524	0.500	4.9	20.0
PCB-1016 Peak 3	Ave	76618806	85618618		0.559	0.500	11.7	20.0
PCB-1016 Peak 4	Ave	33154579	34820984		0.525	0.500	5.0	20.0
PCB-1016 Peak 5	Ave	25925234	27351158		0.528	0.500	5.5	20.0
PCB-1260 Peak 1	Ave	53986226	57042044		0.528	0.500	5.7	20.0
PCB-1260 Peak 2	Ave	62905601	66973748		0.532	0.500	6.5	20.0
PCB-1260 Peak 3	Ave	93172784	101754360		0.546	0.500	9.2	20.0
PCB-1260 Peak 4	Ave	111417592	128772002		0.578	0.500	15.6	20.0
PCB-1260 Peak 5	Ave	79254975	90034212		0.568	0.500	13.6	20.0
Tetrachloro-m-xylene	Ave	1145026652	1253072360		0.0274	0.0250	9.4	20.0
DCB Decachlorobiphenyl	Ave	1097523500	1147075880		0.0261	0.0250	4.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: CCV 240-79577/30 Calibration Date: 03/27/2013 15:15

Instrument ID: A2HP4 Calib Start Date: 01/23/2013 17:39

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/23/2013 18:58

Lab File ID: P4000030.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.12	2.02	2.22
PCB-1016 Peak 2	2.52	2.42	2.62
PCB-1016 Peak 3	2.97	2.87	3.07
PCB-1016 Peak 4	3.10	3.00	3.20
PCB-1016 Peak 5	3.21	3.11	3.31
PCB-1260 Peak 1	4.92	4.82	5.02
PCB-1260 Peak 2	5.15	5.05	5.25
PCB-1260 Peak 3	5.51	5.41	5.61
PCB-1260 Peak 4	6.20	6.10	6.30
PCB-1260 Peak 5	6.58	6.48	6.68
Tetrachloro-m-xylene	1.66	1.56	1.76
DCB Decachlorobiphenyl	7.81	7.71	7.91

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000030.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 27-Mar-2013 15:15:29 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018292-030
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 30
Lims Batch ID: 79577 Lims Sample ID: 30
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\PCB4.m
Last Update: 28-Mar-2013 13:29:02 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK015

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.259	1.259	0.000	33919005	0.0232			
2	2	1.663	1.663	0.000	31326809	0.0274			
						RPD = 16.45			
6 PCB-1016									
1	100	1.528	1.528	0.000	11564225	0.4643		100.0	
1	2	1.808	1.808	0.000	20610003	0.4534	157.7- 207.7	178.2	
1	3	2.198	2.198	0.000	44285045	0.4840	335.7- 385.7	382.9	
1	4	2.316	2.316	0.000	19081527	0.4663	127.8- 197.8	165.0	
1	5	2.693	2.693	0.000	18857475	0.4566	140.6- 190.6	163.1	
			Average of Peak Amounts =			0.4649			
2	6	2.123	2.123	0.000	10053900	0.5255		100.0	
2	7	2.517	2.517	0.000	20144296	0.5244	173.3- 233.3	200.4	
2	8	2.967	2.967	0.000	42809309	0.5587	368.6- 428.6	425.8	
2	9	3.104	3.104	0.000	17410492	0.5251	147.6- 207.6	173.2	
2	10	3.208	3.208	0.000	13675579	0.5275	109.0- 169.0	136.0	
			Average of Peak Amounts =			0.5323			
						RPD = 13.51			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.888	3.888	0.000	27714670	0.4606		100.0	
1	2	4.174	4.174	0.000	50977860	0.4742	153.3- 203.3	183.9	
1	3	4.453	4.453	0.000	52279441	0.4871	152.7- 202.7	188.6	
1	4	5.153	5.153	0.000	62186067	0.5101	177.2- 227.2	224.4	
1	5	5.437	5.437	0.000	31938895	0.5187	77.3- 127.3	115.2	
			Average of Peak Amounts =			0.4901			
2	6	4.915	4.915	0.000	28521022	0.5283		100.0	
2	7	5.145	5.145	0.000	33486874	0.5323	86.6- 146.6	117.4	
2	8	5.513	5.513	0.000	50877180	0.5461	141.2- 201.2	178.4	
2	9	6.196	6.196	0.000	64386001	0.5779	175.0- 235.0	225.7	
2	10	6.578	6.578	0.000	45017106	0.5680	115.7- 175.7	157.8	
			Average of Peak Amounts =			0.5505			
						RPD = 11.60			
$ 12 DCB Decachlorobiphenyl									
1	100	6.592	6.592	0.000	30813930	0.0240			
2	2	7.813	7.813	0.000	28676897	0.0261			
						RPD = 8.49			

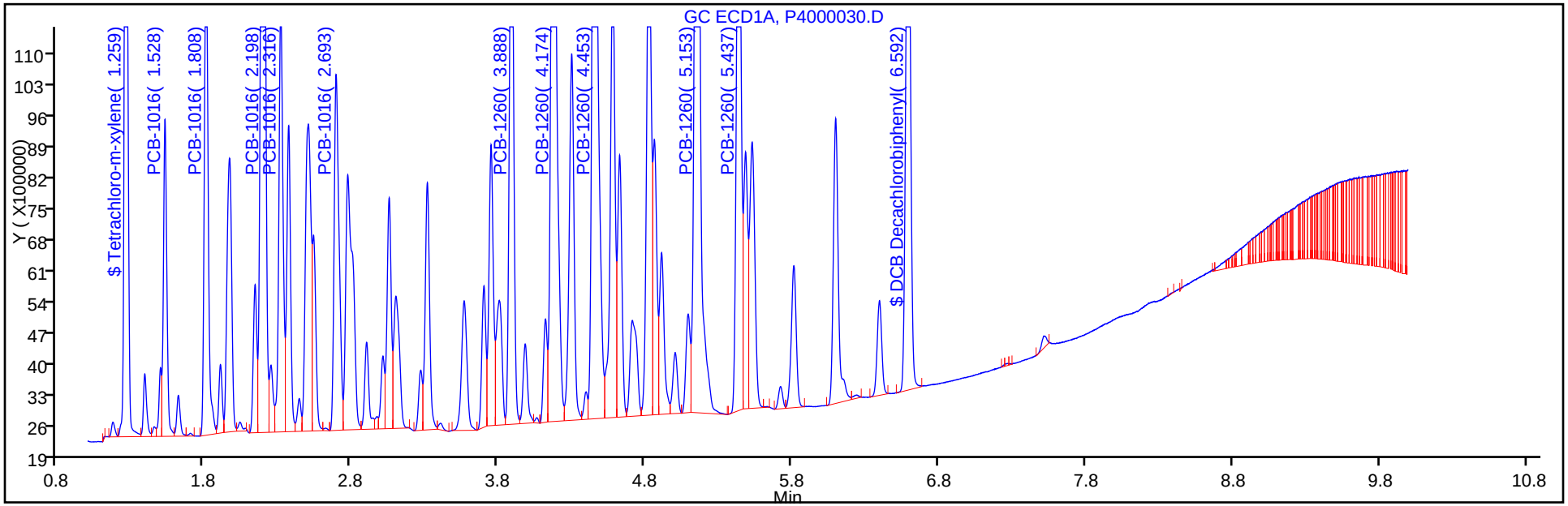
Report Date: 28-Mar-2013 13:29:05 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

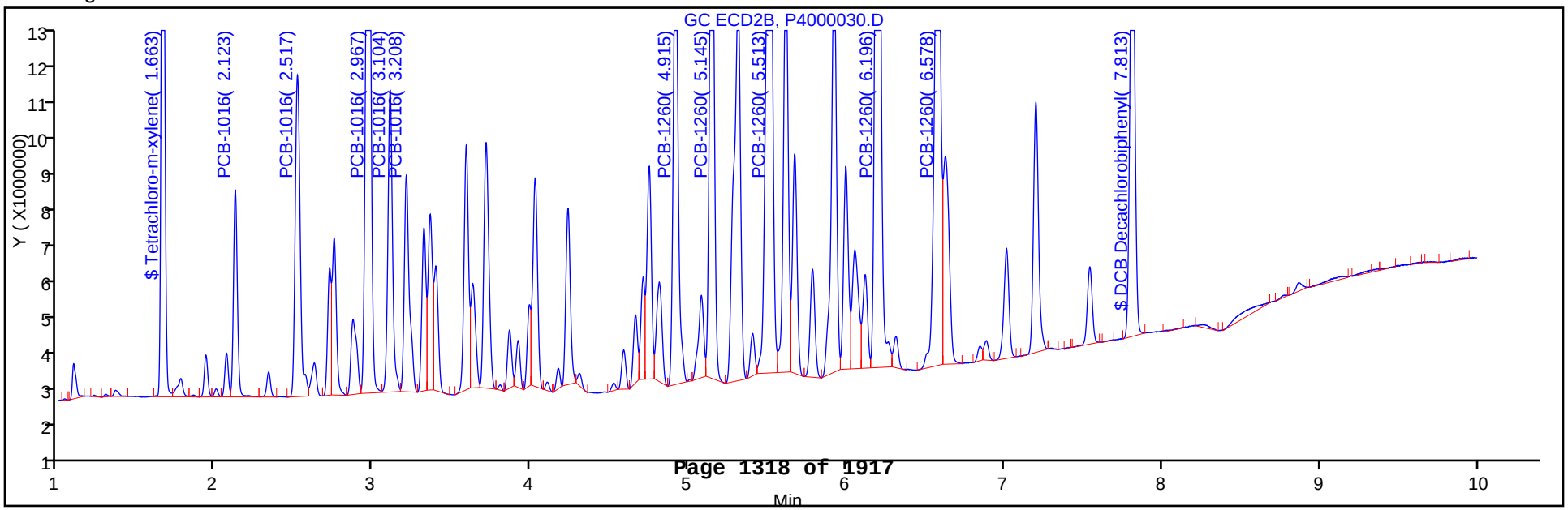
Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000030.D

Injection Date:	27-Mar-2013 15:15:29	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	79577	Lims Sample ID:	30
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-78721/17-A

Matrix: Water Lab File ID: P4000020.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: 3520C Date Extracted: 03/19/2013 08:52

Sample wt/vol: 1000(mL) Date Analyzed: 03/27/2013 12:28

Con. Extract Vol.: 5.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 79577 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	0.20	U	0.50	0.20	0.13
12674-11-2	Aroclor-1016	0.20	U	0.50	0.20	0.17
11141-16-5	Aroclor-1232	0.20	U	0.50	0.20	0.16
53469-21-9	Aroclor-1242	0.40	U	0.50	0.40	0.22
12672-29-6	Aroclor-1248	0.20	U	0.50	0.20	0.10
11097-69-1	Aroclor-1254	0.20	U	0.50	0.20	0.16
11096-82-5	Aroclor-1260	0.20	U	0.50	0.20	0.17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	74		40-140
2051-24-3	DCB Decachlorobiphenyl	77		40-135

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000020.D		
Lims ID:	MB 240-78721/17-A	Client ID:	
Inject. Date:	27-Mar-2013 12:28:51	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	240-0018292-020		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	20
Lims Batch ID:	79577	Lims Sample ID:	20
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130327-18292.b\PCB4.m		
Last Update:	29-Mar-2013 12:30:02	Calib Date:	23-Jan-2013 22:06:47
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK024		

First Level Reviewer: hassl Date: 29-Mar-2013 12:30:02

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.262	1.259	0.003	43342133	0.0296			
2	2	1.667	1.662	0.005	40499559	0.0354			
						RPD = 17.61			
3 PCB-1221									1
1	2		1.390						
1	3		1.497						
1	4		1.527						
2	4		1.937						
2	5		2.068						
2	6		2.123						
5 PCB-1242									
1	100		1.527						
1	2		1.807						
1	3		2.197						
1	4		2.317						
1	5		2.693						
2	6		2.123						
2	7		2.517						
2	8		2.966						
2	9		3.105						
2	10		3.588						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.527						
1	2		1.808						
1	3		2.197						
1	4		2.316						
1	5		2.694						
2	6		2.123						
2	7		2.517						
2	8		2.967						
2	9		3.105						
2	10		3.714						
6 PCB-1016									
1	100		1.527						
1	2		1.807						
1	3		2.196						
1	4		2.316						
1	5		2.694						
2	6		2.122						
2	7		2.516						
2	8		2.966						
2	9		3.104						
2	10		3.207						
7 PCB-1248									
1	86		1.809						
1	2		2.196						
1	3		2.695						
1	4		3.270						
1	5		3.701						
2	6		2.517						
2	7		2.967						
2	8		3.714						
2	9		3.988						
2	10		4.709						
8 PCB-1254									1
1	100		3.316						
1	2		3.701						
1	3		3.982						
1	4		4.172						
1	5		4.454						
2	6		4.234						
2	7		4.709						
2	8		4.953						
2	9		5.313						
2	10		5.516						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									1
1	100		3.889						
1	2		4.175						
1	3		4.454						
1	4		5.153						
1	5		5.436						
2	6		4.916						
2	7		5.144						
2	8		5.512						
2	9		6.196						
2	10		6.578						
9 PCB-1262									1
1	100		4.177						
1	2		4.580						
1	3		4.826						
1	4		5.154						
1	5		5.527						
2	6		5.146						
2	7		5.615						
2	8		5.921						
2	9		6.197						
2	10		6.576						
11 PCB-1268									1
1	100		5.485						
1	2		5.524						
1	3		5.723						
1	4		6.098						
1	5		6.396						
2	6		6.576						
2	7		6.625						
2	8		6.887						
2	9		7.203						
2	10		7.545						
$ 12 DCB Decachlorobiphenyl									
1	100	6.594	6.591	0.003	39527966	0.0308			
2	2	7.815	7.813	0.002	32890682	0.0300			
						RPD = 2.70			

QC Flag Legend

Processing Flags
1 - Missing Peaks

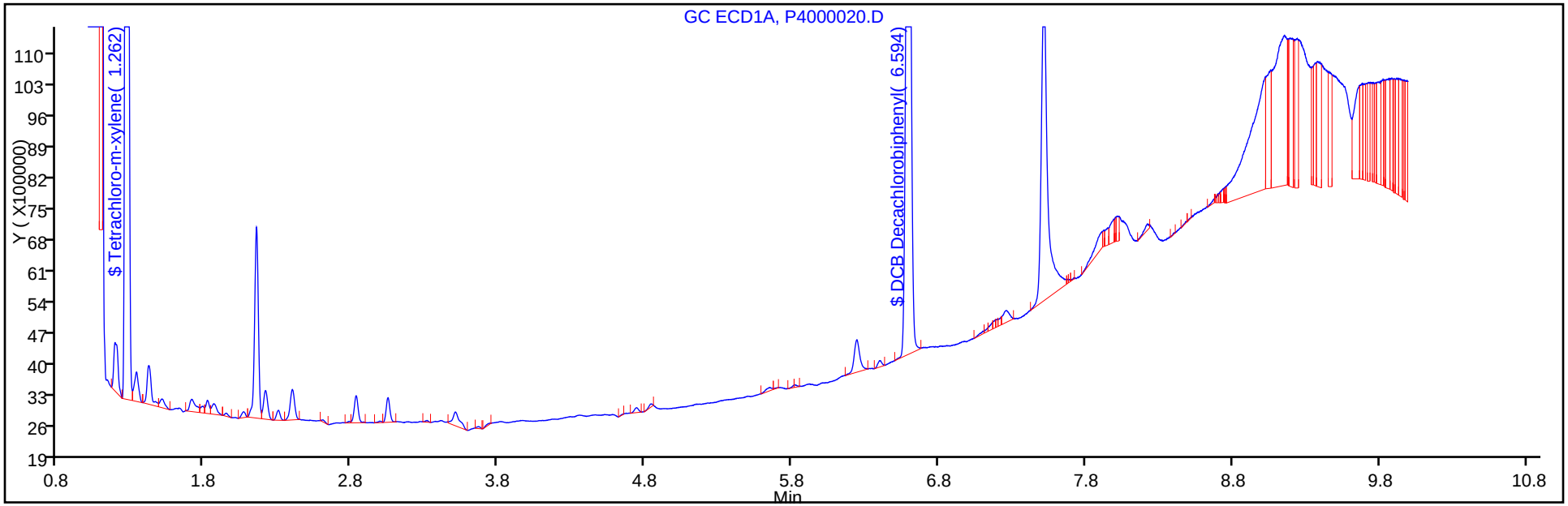
Report Date: 29-Mar-2013 12:30:03 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

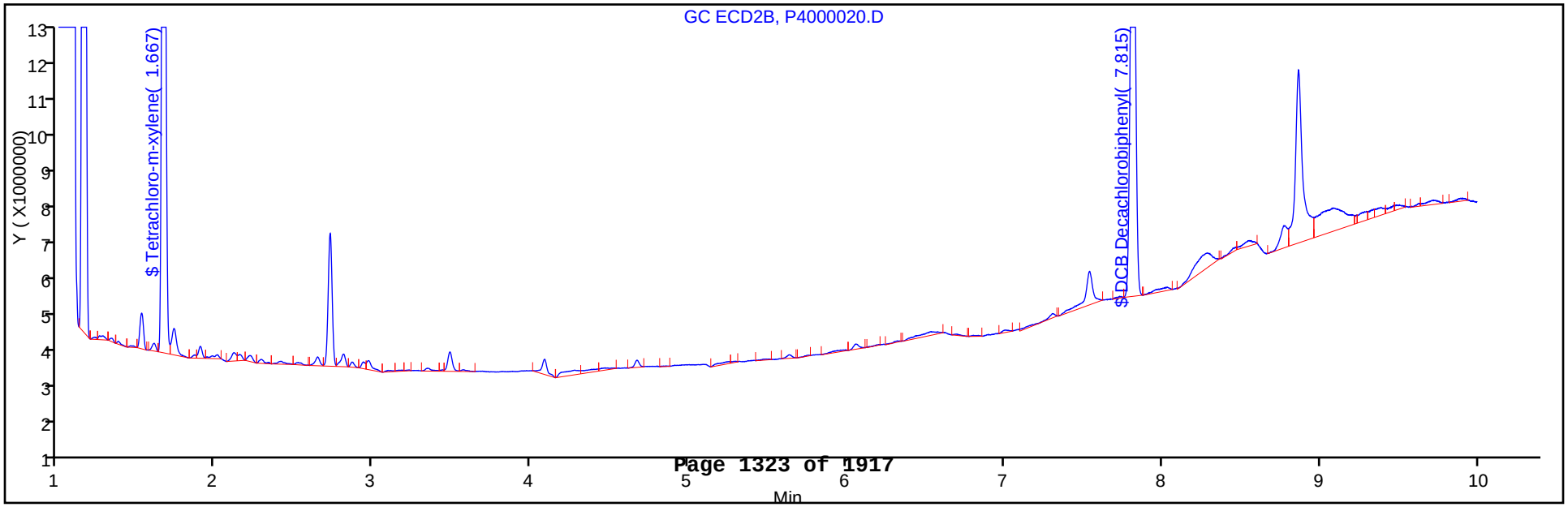
Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000020.D

Injection Date:	27-Mar-2013 12:28:51	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	79577	Lims Sample ID:	20
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-78721/17-A

Matrix: Water Lab File ID: P4000020.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: 3520C Date Extracted: 03/19/2013 08:52

Sample wt/vol: 1000(mL) Date Analyzed: 03/27/2013 12:28

Con. Extract Vol.: 5.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 79577 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	88		40-140
2051-24-3	DCB Decachlorobiphenyl	75		40-135

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000020.D
Lims ID: MB 240-78721/17-A Client ID:
Inject. Date: 27-Mar-2013 12:28:51 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: 240-0018292-020
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 20
Lims Batch ID: 79577 Lims Sample ID: 20
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\PCB4.m
Last Update: 29-Mar-2013 12:30:02 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK024

First Level Reviewer: hassl Date: 29-Mar-2013 12:30:02

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.262	1.259	0.003	43342133	0.0296			
2	2	1.667	1.662	0.005	40499559	0.0354			
						RPD = 17.61			
3 PCB-1221									1
1	2		1.390						
1	3		1.497						
1	4		1.527						
2	4		1.937						
2	5		2.068						
2	6		2.123						
5 PCB-1242									
1	100		1.527						
1	2		1.807						
1	3		2.197						
1	4		2.317						
1	5		2.693						
2	6		2.123						
2	7		2.517						
2	8		2.966						
2	9		3.105						
2	10		3.588						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.527						
1	2		1.808						
1	3		2.197						
1	4		2.316						
1	5		2.694						
2	6		2.123						
2	7		2.517						
2	8		2.967						
2	9		3.105						
2	10		3.714						
6 PCB-1016									
1	100		1.527						
1	2		1.807						
1	3		2.196						
1	4		2.316						
1	5		2.694						
2	6		2.122						
2	7		2.516						
2	8		2.966						
2	9		3.104						
2	10		3.207						
7 PCB-1248									
1	86		1.809						
1	2		2.196						
1	3		2.695						
1	4		3.270						
1	5		3.701						
2	6		2.517						
2	7		2.967						
2	8		3.714						
2	9		3.988						
2	10		4.709						
8 PCB-1254									1
1	100		3.316						
1	2		3.701						
1	3		3.982						
1	4		4.172						
1	5		4.454						
2	6		4.234						
2	7		4.709						
2	8		4.953						
2	9		5.313						
2	10		5.516						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									1
1	100		3.889						
1	2		4.175						
1	3		4.454						
1	4		5.153						
1	5		5.436						
2	6		4.916						
2	7		5.144						
2	8		5.512						
2	9		6.196						
2	10		6.578						
9 PCB-1262									1
1	100		4.177						
1	2		4.580						
1	3		4.826						
1	4		5.154						
1	5		5.527						
2	6		5.146						
2	7		5.615						
2	8		5.921						
2	9		6.197						
2	10		6.576						
11 PCB-1268									1
1	100		5.485						
1	2		5.524						
1	3		5.723						
1	4		6.098						
1	5		6.396						
2	6		6.576						
2	7		6.625						
2	8		6.887						
2	9		7.203						
2	10		7.545						
$ 12 DCB Decachlorobiphenyl									
1	100	6.594	6.591	0.003	39527966	0.0308			
2	2	7.815	7.813	0.002	32890682	0.0300			
						RPD = 2.70			

QC Flag Legend

Processing Flags
1 - Missing Peaks

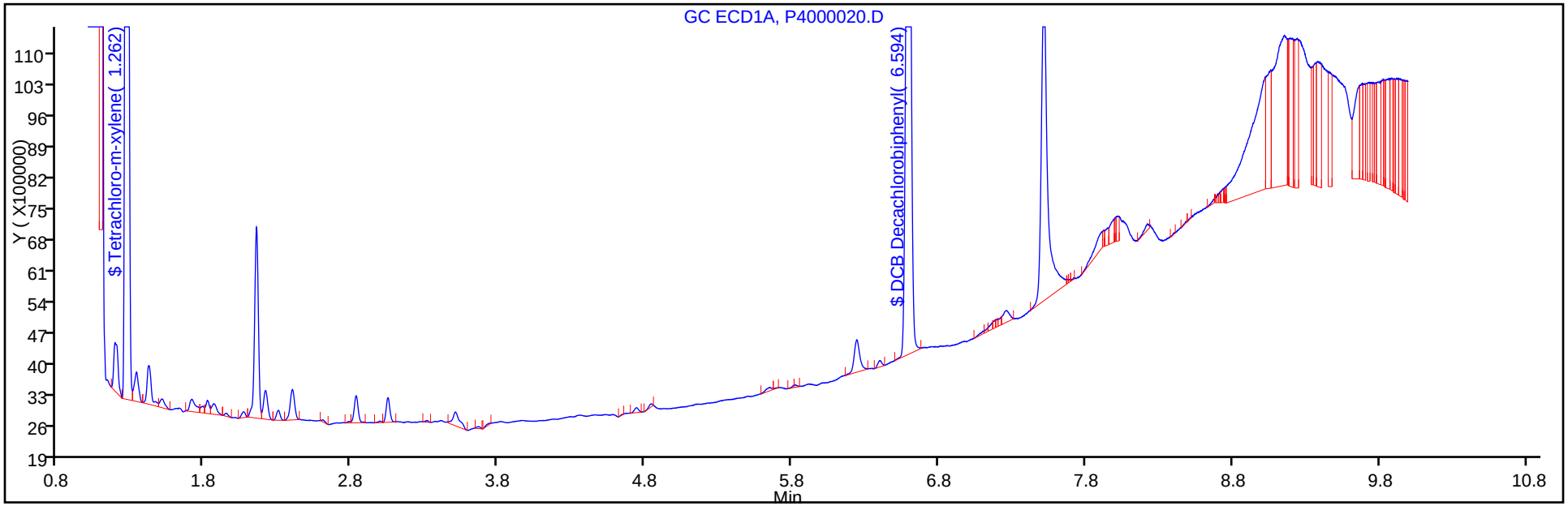
Report Date: 29-Mar-2013 12:30:03 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

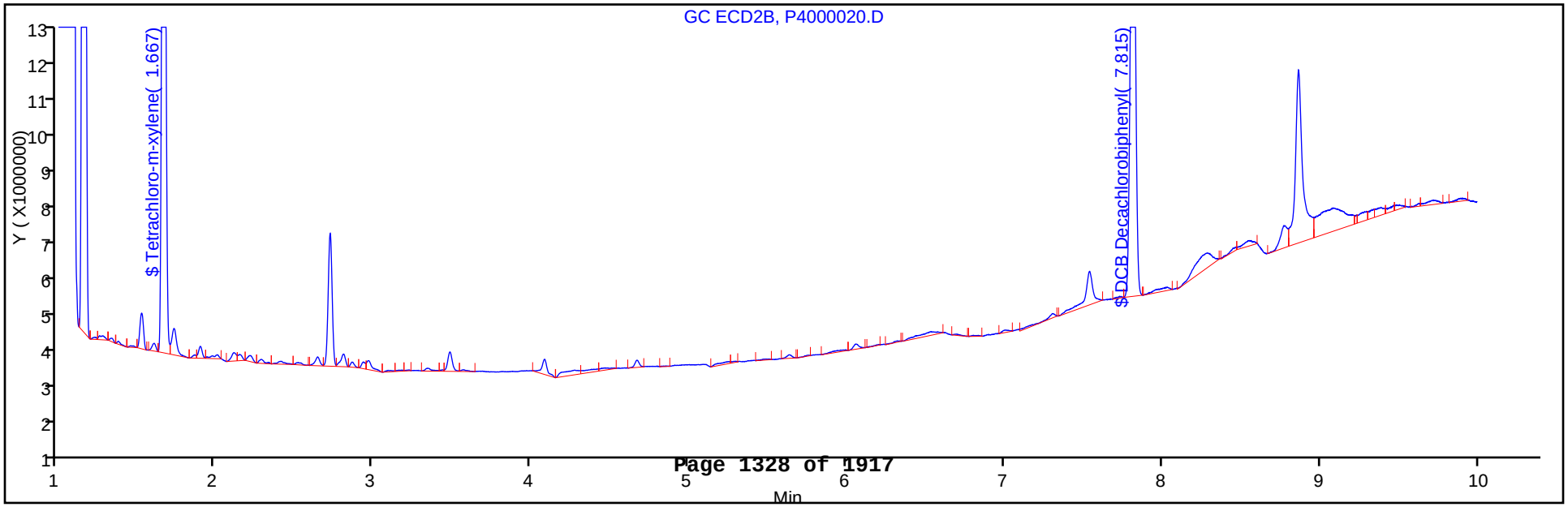
Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000020.D

Injection Date:	27-Mar-2013 12:28:51	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	79577	Lims Sample ID:	20
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-78721/18-A

Matrix: Water | Lab File ID: P4000029.D

Analysis Method: 8082/DOD | Date Collected:

Extraction Method: 3520C | Date Extracted: 03/19/2013 08:52

Sample wt/vol: 1000(mL) | Date Analyzed: 03/27/2013 14:59

Con. Extract Vol.: 5.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 79577 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
12674-11-2	Aroclor-1016	4.44		0.50	0.20	0.17
11096-82-5	Aroclor-1260	4.51		0.50	0.20	0.17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	73		40-140
2051-24-3	DCB Decachlorobiphenyl	79		40-135

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000029.D
Lims ID: LCS 240-78721/18-A
Client ID:
Inject. Date: 27-Mar-2013 14:59:46
Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0018292-029
Misc. Info.:
Operator:
Instrument ID: A2HP4
Injection Vol: 1.0 uL
ALS Bottle#: 29
Lims Batch ID: 79577
Lims Sample ID: 29
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\PCB4.m
Last Update: 28-Mar-2013 13:28:38
Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard
Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type:
Column Dia:
Process Host: XAWRK015

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.262	1.263	-0.001	42671549	0.0292			
2	2	1.665	1.663	0.002	40513271	0.0354			
						RPD = 19.19			
6 PCB-1016									
1	100	1.528	1.531	-0.003	17783825	0.7141		100.0	
1	2	1.809	1.813	-0.004	38264657	0.8417	157.7- 207.7	215.2	
1	3	2.201	2.203	-0.002	99088935	1.08	335.7- 385.7	557.2	
1	4	2.317	2.323	-0.006	40477518	0.9891	127.8- 197.8	227.6	
1	5	2.694	2.700	-0.006	33532770	0.8119	140.6- 190.6	188.6	
			Average of Peak Amounts =			0.8880			
2	6	2.124	2.123	0.001	17729940	0.9268		100.0	
2	7	2.518	2.518	0.000	35918967	0.9351	173.3- 233.3	202.6	
2	8	2.967	2.968	-0.001	86297617	1.13	368.6- 428.6	486.7	
2	9	3.105	3.105	0.000	31432680	0.9481	147.6- 207.6	177.3	
2	10	3.208	3.208	0.000	25314465	0.9764	109.0- 169.0	142.8	
			Average of Peak Amounts =			0.9825			
						RPD = 10.11			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.888	3.896	-0.008	50033842	0.8315		100.0	
1	2	4.174	4.182	-0.008	93562946	0.8704	153.3- 203.3	187.0	
1	3	4.454	4.461	-0.007	96924122	0.9030	152.7- 202.7	193.7	
1	4	5.153	5.160	-0.007	113647468	0.9323	177.2- 227.2	227.1	
1	5	5.437	5.443	-0.006	59857573	0.9721	77.3- 127.3	119.6	
			Average of Peak Amounts =			0.9018			
2	6	4.915	4.917	-0.002	51907439	0.9615		100.0	
2	7	5.145	5.147	-0.002	63780738	1.01	86.6- 146.6	122.9	
2	8	5.512	5.514	-0.002	94711227	1.02	141.2- 201.2	182.5	
2	9	6.198	6.198	0.000	117971207	1.06	175.0- 235.0	227.3	
2	10	6.577	6.578	-0.001	81857756	1.03	115.7- 175.7	157.7	
			Average of Peak Amounts =			1.02			
						RPD = 11.97			
$ 12 DCB Decachlorobiphenyl									
1	100	6.591	6.598	-0.007	40764989	0.0318			
2	2	7.813	7.816	-0.003	37993233	0.0346			
						RPD = 8.63			

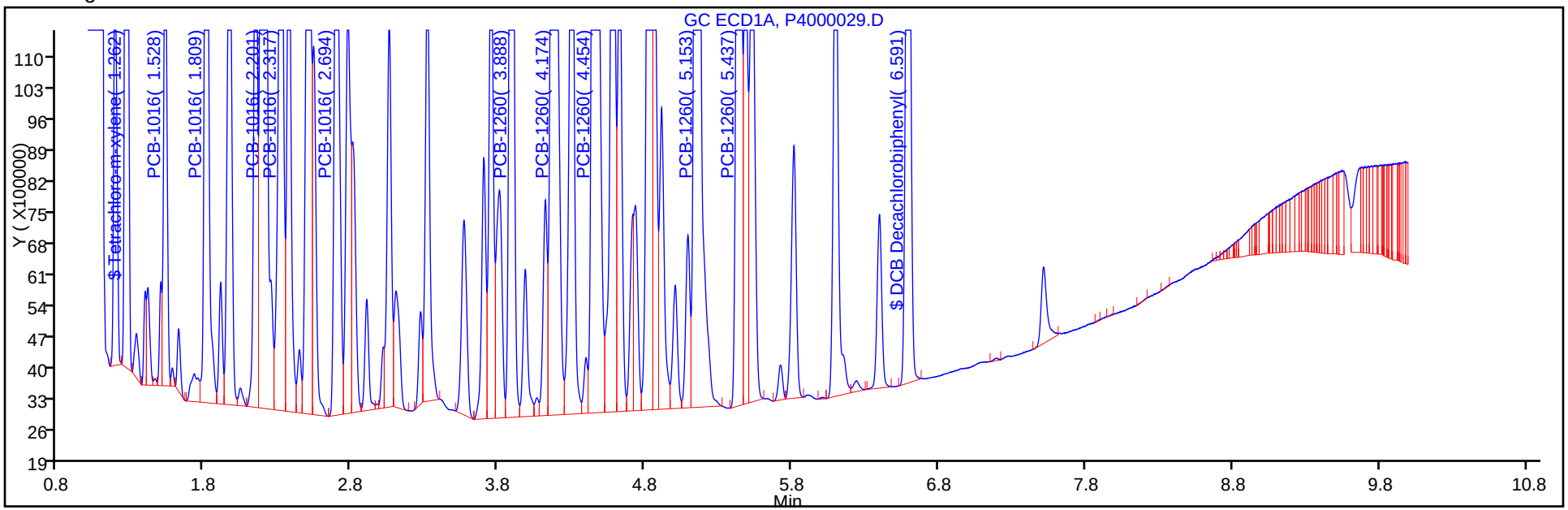
Report Date: 28-Mar-2013 13:28:59 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

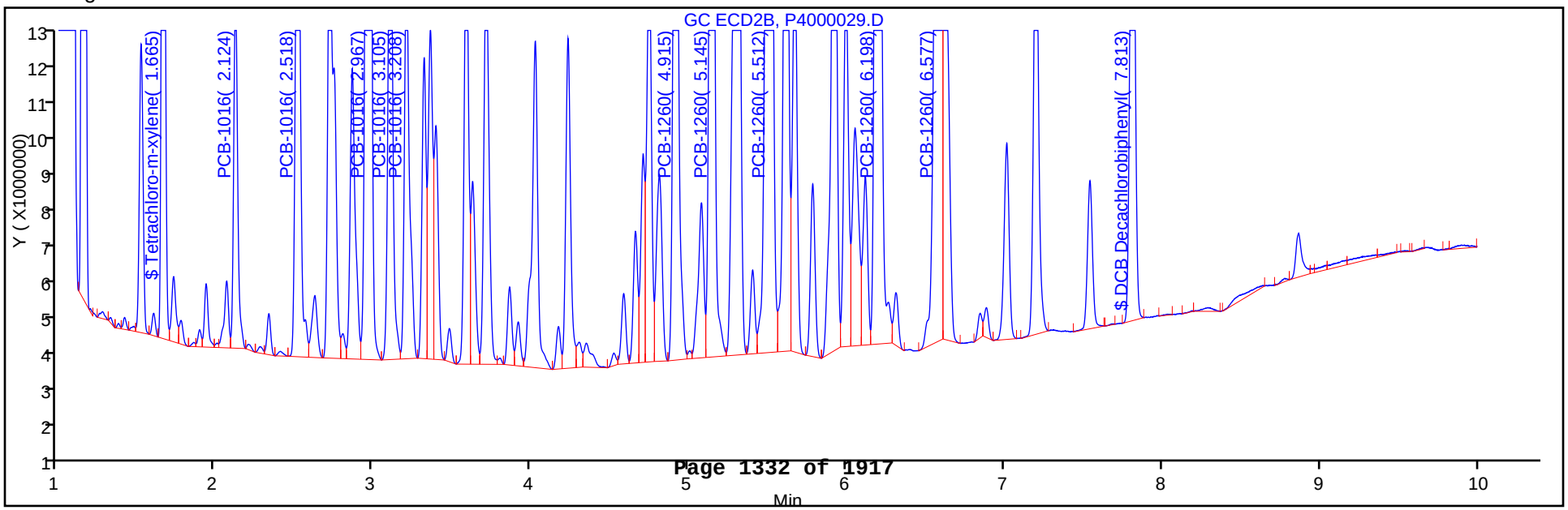
Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000029.D

Injection Date:	27-Mar-2013 14:59:46	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	79577	Lims Sample ID:	29
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-78721/18-A

Matrix: Water Lab File ID: P4000029.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: 3520C Date Extracted: 03/19/2013 08:52

Sample wt/vol: 1000(mL) Date Analyzed: 03/27/2013 14:59

Con. Extract Vol.: 5.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 79577 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	88		40-140
2051-24-3	DCB Decachlorobiphenyl	87		40-135

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000029.D
Lims ID: LCS 240-78721/18-A
Client ID:
Inject. Date: 27-Mar-2013 14:59:46
Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0018292-029
Misc. Info.:
Operator:
Instrument ID: A2HP4
Injection Vol: 1.0 uL
ALS Bottle#: 29
Lims Batch ID: 79577
Lims Sample ID: 29
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\PCB4.m
Last Update: 28-Mar-2013 13:28:38
Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard
Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type:
Column Dia:
Process Host: XAWRK015

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.262	1.263	-0.001	42671549	0.0292			
2	2	1.665	1.663	0.002	40513271	0.0354			
						RPD = 19.19			
6 PCB-1016									
1	100	1.528	1.531	-0.003	17783825	0.7141		100.0	
1	2	1.809	1.813	-0.004	38264657	0.8417	157.7- 207.7	215.2	
1	3	2.201	2.203	-0.002	99088935	1.08	335.7- 385.7	557.2	
1	4	2.317	2.323	-0.006	40477518	0.9891	127.8- 197.8	227.6	
1	5	2.694	2.700	-0.006	33532770	0.8119	140.6- 190.6	188.6	
			Average of Peak Amounts =			0.8880			
2	6	2.124	2.123	0.001	17729940	0.9268		100.0	
2	7	2.518	2.518	0.000	35918967	0.9351	173.3- 233.3	202.6	
2	8	2.967	2.968	-0.001	86297617	1.13	368.6- 428.6	486.7	
2	9	3.105	3.105	0.000	31432680	0.9481	147.6- 207.6	177.3	
2	10	3.208	3.208	0.000	25314465	0.9764	109.0- 169.0	142.8	
			Average of Peak Amounts =			0.9825			
						RPD = 10.11			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.888	3.896	-0.008	50033842	0.8315		100.0	
1	2	4.174	4.182	-0.008	93562946	0.8704	153.3- 203.3	187.0	
1	3	4.454	4.461	-0.007	96924122	0.9030	152.7- 202.7	193.7	
1	4	5.153	5.160	-0.007	113647468	0.9323	177.2- 227.2	227.1	
1	5	5.437	5.443	-0.006	59857573	0.9721	77.3- 127.3	119.6	
			Average of Peak Amounts =			0.9018			
2	6	4.915	4.917	-0.002	51907439	0.9615		100.0	
2	7	5.145	5.147	-0.002	63780738	1.01	86.6- 146.6	122.9	
2	8	5.512	5.514	-0.002	94711227	1.02	141.2- 201.2	182.5	
2	9	6.198	6.198	0.000	117971207	1.06	175.0- 235.0	227.3	
2	10	6.577	6.578	-0.001	81857756	1.03	115.7- 175.7	157.7	
			Average of Peak Amounts =			1.02			
						RPD = 11.97			
$ 12 DCB Decachlorobiphenyl									
1	100	6.591	6.598	-0.007	40764989	0.0318			
2	2	7.813	7.816	-0.003	37993233	0.0346			
						RPD = 8.63			

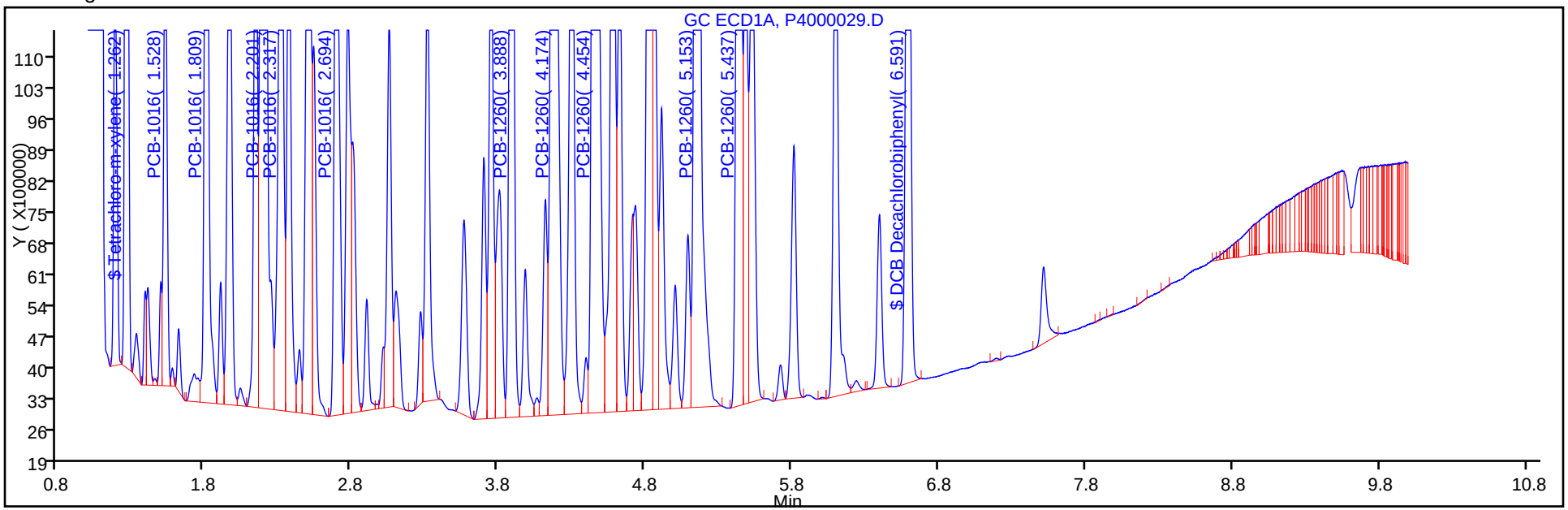
Report Date: 28-Mar-2013 13:28:59 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

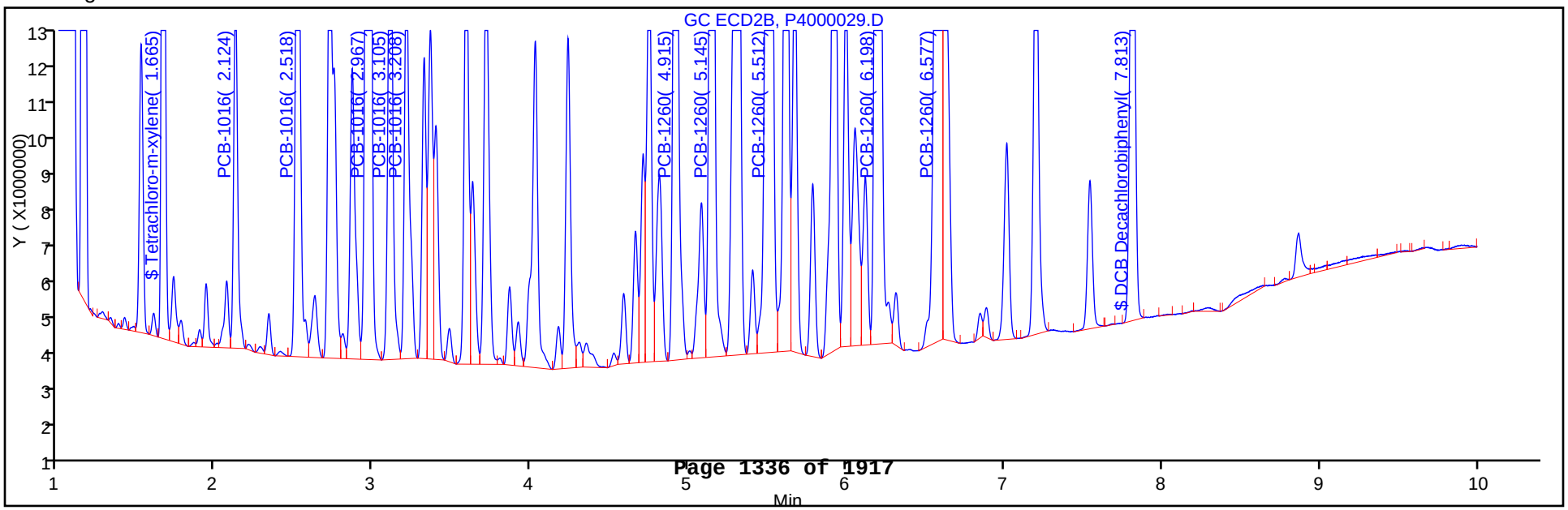
Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000029.D

Injection Date:	27-Mar-2013 14:59:46	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	79577	Lims Sample ID:	29
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-79577/4

Matrix: Water | Lab File ID: P4000004.D

Analysis Method: 8082/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 03/27/2013 08:17

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 79577 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	0.00020	U	0.050	0.00020	0.013
12674-11-2	Aroclor-1016	0.0545		0.050	0.00020	0.017
11141-16-5	Aroclor-1232	0.00020	U	0.050	0.00020	0.016
53469-21-9	Aroclor-1242	0.00040	U	0.050	0.00040	0.022
12672-29-6	Aroclor-1248	0.00020	U	0.050	0.00020	0.010
11097-69-1	Aroclor-1254	0.00020	U	0.050	0.00020	0.016
11096-82-5	Aroclor-1260	0.0545		0.050	0.00020	0.017

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	119		50-150
2051-24-3	DCB Decachlorobiphenyl	116		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000004.D
Lims ID: MRL Client ID:
Inject. Date: 27-Mar-2013 08:17:17 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018292-004
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 4
Lims Batch ID: 79577 Lims Sample ID: 4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\PCB4.m
Last Update: 29-Mar-2013 12:31:45 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK024

First Level Reviewer: hassl Date: 27-Mar-2013 08:54:00

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.258	1.259	-0.001	4332188	0.002963			
2	2	1.662	1.662	0.000	4380865	0.003826			
						RPD = 25.42			
3 PCB-1221									
1	2		1.390						
1	3		1.497						
1	4		1.527						
2	4		1.937						
2	5		2.068						
2	6		2.123						
5 PCB-1242									
1	100		1.527						
1	2		1.807						
1	3		2.197						
1	4		2.317						
1	5		2.693						
2	6		2.123						
2	7		2.517						
2	8		2.966						
2	9		3.105						
2	10		3.588						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.527						
1	2		1.808						
1	3		2.197						
1	4		2.316						
1	5		2.694						
2	6		2.123						
2	7		2.517						
2	8		2.967						
2	9		3.105						
2	10		3.714						
6 PCB-1016									
1	100	1.527	1.527	0.000	1432892	0.0575		100.0	
1	2	1.807	1.807	0.000	2657470	0.0585	157.7- 207.7	185.5	
1	3	2.197	2.196	0.001	4897558	0.0535	335.7- 385.7	341.8	
1	4	2.317	2.316	0.001	1965020	0.0480	127.8- 197.8	137.1	
1	5	2.693	2.694	-0.001	2278318	0.0552	140.6- 190.6	159.0	
			Average of Peak Amounts =			0.0545			
2	6	2.122	2.122	0.000	1326521	0.0693		100.0	
2	7	2.518	2.516	0.002	2663100	0.0693	173.3- 233.3	200.8	
2	8	2.967	2.966	0.001	5050335	0.0659	368.6- 428.6	380.7	
2	9	3.104	3.104	0.000	2213290	0.0668	147.6- 207.6	166.8	
2	10	3.208	3.207	0.001	1673044	0.0645	109.0- 169.0	126.1	
			Average of Peak Amounts =			0.0672			
						RPD = 20.76			
7 PCB-1248									
1	86		1.809						
1	2		2.196						
1	3		2.695						
1	4		3.270						
1	5		3.701						
2	6		2.517						
2	7		2.967						
2	8		3.714						
2	9		3.988						
2	10		4.709						
8 PCB-1254									
1	100		3.316						
1	2		3.701						
1	3		3.982						
1	4		4.172						
1	5		4.454						
2	6		4.234						
2	7		4.709						
2	8		4.953						
2	9		5.313						
2	10		5.516						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.888	3.889	-0.001	3332457	0.0554		100.0	
1	2	4.174	4.175	-0.001	5875150	0.0547	153.3- 203.3	176.3	
1	3	4.454	4.454	0.000	5639699	0.0525	152.7- 202.7	169.2	
1	4	5.154	5.153	0.001	6538930	0.0536	177.2- 227.2	196.2	
1	5	5.437	5.436	0.001	3453734	0.0561	77.3- 127.3	103.6	
			Average of Peak Amounts =			0.0545			
2	6	4.916	4.916	0.000	3318830	0.0615		100.0	
2	7	5.146	5.144	0.002	3710472	0.0590	86.6- 146.6	111.8	
2	8	5.512	5.512	0.000	5302577	0.0569	141.2- 201.2	159.8	
2	9	6.197	6.196	0.001	6333819	0.0568	175.0- 235.0	190.8	
2	10	6.577	6.578	-0.001	4109458	0.0519	115.7- 175.7	123.8	
			Average of Peak Amounts =			0.0572			
						RPD = 4.93			
9 PCB-1262									
1	100		4.177						
1	2		4.580						
1	3		4.826						
1	4		5.154						
1	5		5.527						
2	6		5.146						
2	7		5.615						
2	8		5.921						
2	9		6.197						
2	10		6.576						
11 PCB-1268									
1	100		5.485						
1	2		5.524						
1	3		5.723						
1	4		6.098						
1	5		6.396						
2	6		6.576						
2	7		6.625						
2	8		6.887						
2	9		7.203						
2	10		7.545						
$ 12 DCB Decachlorobiphenyl									
1	100	6.592	6.591	0.001	3731165	0.002906			
2	2	7.813	7.813	0.000	3682409	0.003355			
						RPD = 14.34			

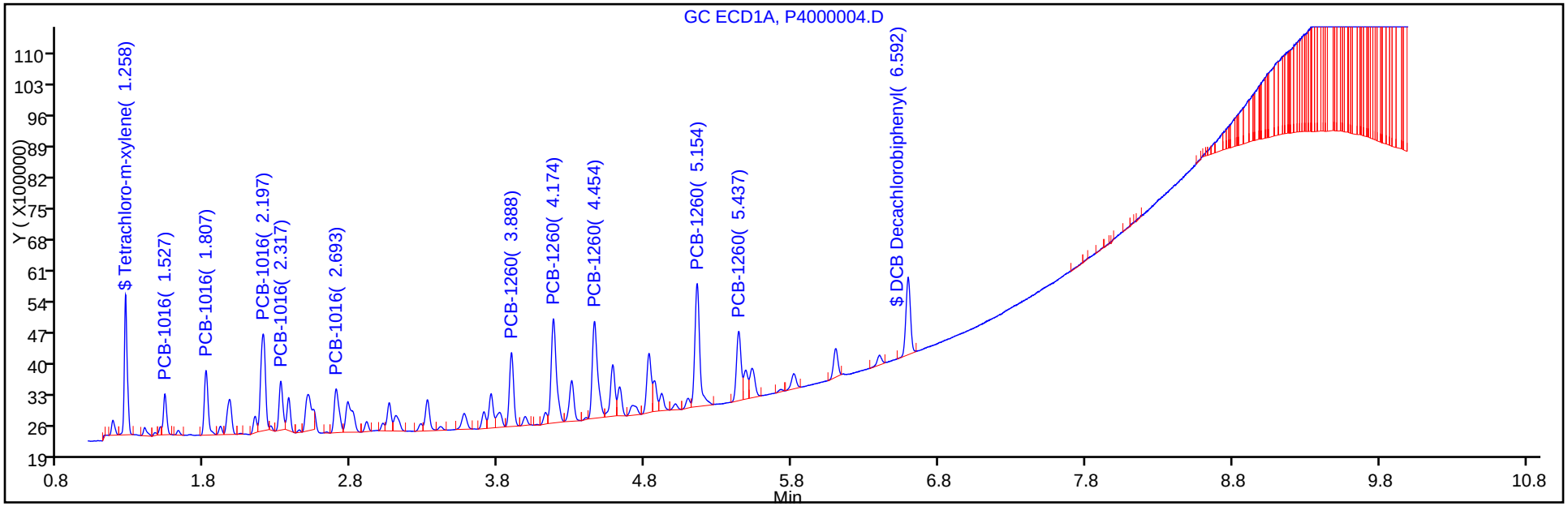
Report Date: 29-Mar-2013 12:31:45 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

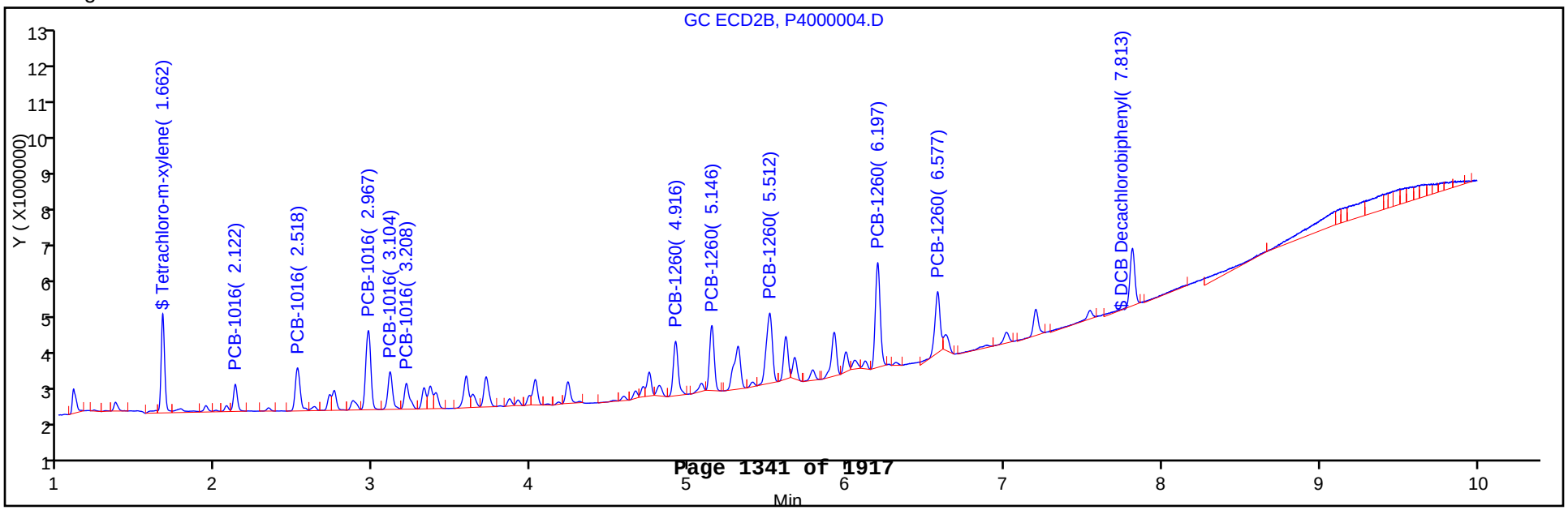
Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000004.D

Injection Date:	27-Mar-2013 08:17:17	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	79577	Lims Sample ID:	4
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-79577/31

Matrix: Water Lab File ID: P4000031.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 03/27/2013 15:31

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 79577 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	0.00020	U	0.050	0.00020	0.013
12674-11-2	Aroclor-1016	0.0543		0.050	0.00020	0.017
11141-16-5	Aroclor-1232	0.00020	U	0.050	0.00020	0.016
53469-21-9	Aroclor-1242	0.00040	U	0.050	0.00040	0.022
12672-29-6	Aroclor-1248	0.00020	U	0.050	0.00020	0.010
11097-69-1	Aroclor-1254	0.00020	U	0.050	0.00020	0.016
11096-82-5	Aroclor-1260	0.0536		0.050	0.00020	0.017

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	112		50-150
2051-24-3	DCB Decachlorobiphenyl	120		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000031.D
Lims ID: MRL Client ID:
Inject. Date: 27-Mar-2013 15:31:10 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018292-031
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 31
Lims Batch ID: 79577 Lims Sample ID: 31
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\PCB4.m
Last Update: 29-Mar-2013 12:31:58 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK024

First Level Reviewer: hassl Date: 29-Mar-2013 12:30:50

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.259	1.259	0.000	4098569	0.002803			
2	2	1.663	1.663	0.000	3894963	0.003402			
						RPD = 19.29			
3 PCB-1221									
1	2		1.390						
1	3		1.497						
1	4		1.527						
2	4		1.937						
2	5		2.068						
2	6		2.123						
5 PCB-1242									
1	100		1.527						
1	2		1.807						
1	3		2.197						
1	4		2.317						
1	5		2.693						
2	6		2.123						
2	7		2.517						
2	8		2.966						
2	9		3.105						
2	10		3.588						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.527						
1	2		1.808						
1	3		2.197						
1	4		2.316						
1	5		2.694						
2	6		2.123						
2	7		2.517						
2	8		2.967						
2	9		3.105						
2	10		3.714						
6 PCB-1016									
1	100	1.527	1.528	-0.001	1398453	0.0562		100.0	
1	2	1.807	1.808	-0.001	2522178	0.0555	157.7- 207.7	180.4	
1	3	2.196	2.198	-0.002	5088305	0.0556	335.7- 385.7	363.9	
1	4	2.317	2.316	0.001	2075942	0.0507	127.8- 197.8	148.4	
1	5	2.694	2.693	0.001	2206142	0.0534	140.6- 190.6	157.8	
			Average of Peak Amounts =			0.0543			
2	6	2.124	2.123	0.001	1171403	0.0612		100.0	
2	7	2.518	2.517	0.001	2402699	0.0625	173.3- 233.3	205.1	
2	8	2.968	2.967	0.001	4631412	0.0604	368.6- 428.6	395.4	
2	9	3.106	3.104	0.002	1952504	0.0589	147.6- 207.6	166.7	
2	10	3.209	3.208	0.001	1486771	0.0573	109.0- 169.0	126.9	
			Average of Peak Amounts =			0.0601			
						RPD = 10.17			
7 PCB-1248									
1	86		1.809						
1	2		2.196						
1	3		2.695						
1	4		3.270						
1	5		3.701						
2	6		2.517						
2	7		2.967						
2	8		3.714						
2	9		3.988						
2	10		4.709						
8 PCB-1254									
1	100		3.316						
1	2		3.701						
1	3		3.982						
1	4		4.172						
1	5		4.454						
2	6		4.234						
2	7		4.709						
2	8		4.953						
2	9		5.313						
2	10		5.516						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.889	3.888	0.001	3206685	0.0533		100.0	
1	2	4.175	4.174	0.001	5814367	0.0541	153.3- 203.3	181.3	
1	3	4.455	4.453	0.002	5700065	0.0531	152.7- 202.7	177.8	
1	4	5.154	5.153	0.001	6437003	0.0528	177.2- 227.2	200.7	
1	5	5.436	5.437	-0.001	3365842	0.0547	77.3- 127.3	105.0	
			Average of Peak Amounts =			0.0536			
2	6	4.917	4.915	0.002	3165731	0.0586		100.0	
2	7	5.146	5.145	0.001	3524233	0.0560	86.6- 146.6	111.3	
2	8	5.515	5.513	0.002	5108800	0.0548	141.2- 201.2	161.4	
2	9	6.199	6.196	0.003	6284941	0.0564	175.0- 235.0	198.5	
2	10	6.578	6.578	0.000	4734612	0.0597	115.7- 175.7	149.6	
			Average of Peak Amounts =			0.0571			
						RPD = 6.39			
9 PCB-1262									
1	100		4.177						
1	2		4.580						
1	3		4.826						
1	4		5.154						
1	5		5.527						
2	6		5.146						
2	7		5.615						
2	8		5.921						
2	9		6.197						
2	10		6.576						
11 PCB-1268									
1	100		5.485						
1	2		5.524						
1	3		5.723						
1	4		6.098						
1	5		6.396						
2	6		6.576						
2	7		6.625						
2	8		6.887						
2	9		7.203						
2	10		7.545						
$ 12 DCB Decachlorobiphenyl									
1	100	6.592	6.592	0.000	3836878	0.002989			
2	2	7.814	7.813	0.001	3613804	0.003293			
						RPD = 9.68			

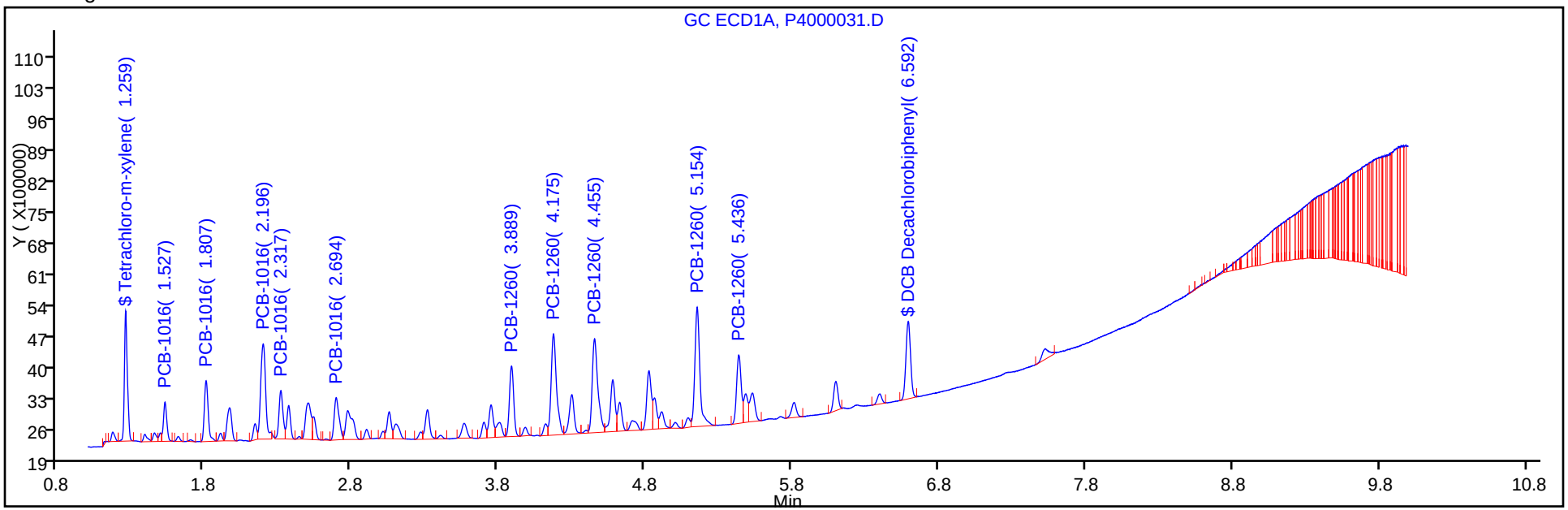
Report Date: 29-Mar-2013 12:31:58 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

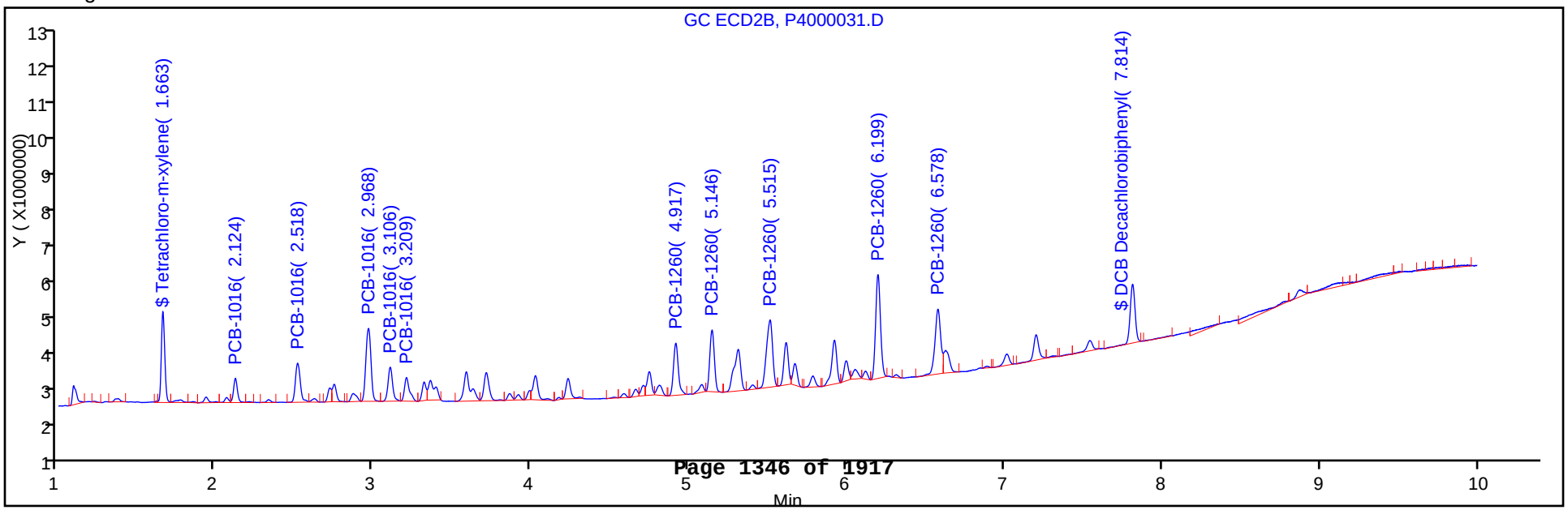
Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000031.D

Injection Date:	27-Mar-2013 15:31:10	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	79577	Lims Sample ID:	31
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-21987-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-79577/31

Matrix: Water | Lab File ID: P4000031.D

Analysis Method: 8082/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 03/27/2013 15:31

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 79577 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	*Aroclor-1221*	*0.00020*	*U*	*0.050*	0.00020	*0.013*
12674-11-2	*Aroclor-1016*	*0.0601*		*0.050*	0.00020	*0.017*
11141-16-5	*Aroclor-1232*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
53469-21-9	*Aroclor-1242*	*0.00040*	*U*	*0.050*	0.00040	*0.022*
12672-29-6	*Aroclor-1248*	*0.00020*	*U*	*0.050*	0.00020	*0.010*
11097-69-1	*Aroclor-1254*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
11096-82-5	*Aroclor-1260*	*0.0571*		*0.050*	0.00020	*0.017*

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	136		50-150
2051-24-3	DCB Decachlorobiphenyl	132		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000031.D
Lims ID: MRL Client ID:
Inject. Date: 27-Mar-2013 15:31:10 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018292-031
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 31
Lims Batch ID: 79577 Lims Sample ID: 31
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\PCB4.m
Last Update: 29-Mar-2013 12:31:58 Calib Date: 23-Jan-2013 22:06:47
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130123-16796.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK024

First Level Reviewer: hassl Date: 29-Mar-2013 12:30:50

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.259	1.259	0.000	4098569	0.002803			
2	2	1.663	1.663	0.000	3894963	0.003402			
						RPD = 19.29			
3 PCB-1221									
1	2		1.390						
1	3		1.497						
1	4		1.527						
2	4		1.937						
2	5		2.068						
2	6		2.123						
5 PCB-1242									
1	100		1.527						
1	2		1.807						
1	3		2.197						
1	4		2.317						
1	5		2.693						
2	6		2.123						
2	7		2.517						
2	8		2.966						
2	9		3.105						
2	10		3.588						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.527						
1	2		1.808						
1	3		2.197						
1	4		2.316						
1	5		2.694						
2	6		2.123						
2	7		2.517						
2	8		2.967						
2	9		3.105						
2	10		3.714						
6 PCB-1016									
1	100	1.527	1.528	-0.001	1398453	0.0562		100.0	
1	2	1.807	1.808	-0.001	2522178	0.0555	157.7- 207.7	180.4	
1	3	2.196	2.198	-0.002	5088305	0.0556	335.7- 385.7	363.9	
1	4	2.317	2.316	0.001	2075942	0.0507	127.8- 197.8	148.4	
1	5	2.694	2.693	0.001	2206142	0.0534	140.6- 190.6	157.8	
			Average of Peak Amounts =			0.0543			
2	6	2.124	2.123	0.001	1171403	0.0612		100.0	
2	7	2.518	2.517	0.001	2402699	0.0625	173.3- 233.3	205.1	
2	8	2.968	2.967	0.001	4631412	0.0604	368.6- 428.6	395.4	
2	9	3.106	3.104	0.002	1952504	0.0589	147.6- 207.6	166.7	
2	10	3.209	3.208	0.001	1486771	0.0573	109.0- 169.0	126.9	
			Average of Peak Amounts =			0.0601			
						RPD = 10.17			
7 PCB-1248									
1	86		1.809						
1	2		2.196						
1	3		2.695						
1	4		3.270						
1	5		3.701						
2	6		2.517						
2	7		2.967						
2	8		3.714						
2	9		3.988						
2	10		4.709						
8 PCB-1254									
1	100		3.316						
1	2		3.701						
1	3		3.982						
1	4		4.172						
1	5		4.454						
2	6		4.234						
2	7		4.709						
2	8		4.953						
2	9		5.313						
2	10		5.516						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.889	3.888	0.001	3206685	0.0533		100.0	
1	2	4.175	4.174	0.001	5814367	0.0541	153.3- 203.3	181.3	
1	3	4.455	4.453	0.002	5700065	0.0531	152.7- 202.7	177.8	
1	4	5.154	5.153	0.001	6437003	0.0528	177.2- 227.2	200.7	
1	5	5.436	5.437	-0.001	3365842	0.0547	77.3- 127.3	105.0	
			Average of Peak Amounts =			0.0536			
2	6	4.917	4.915	0.002	3165731	0.0586		100.0	
2	7	5.146	5.145	0.001	3524233	0.0560	86.6- 146.6	111.3	
2	8	5.515	5.513	0.002	5108800	0.0548	141.2- 201.2	161.4	
2	9	6.199	6.196	0.003	6284941	0.0564	175.0- 235.0	198.5	
2	10	6.578	6.578	0.000	4734612	0.0597	115.7- 175.7	149.6	
			Average of Peak Amounts =			0.0571			
						RPD = 6.39			
9 PCB-1262									
1	100		4.177						
1	2		4.580						
1	3		4.826						
1	4		5.154						
1	5		5.527						
2	6		5.146						
2	7		5.615						
2	8		5.921						
2	9		6.197						
2	10		6.576						
11 PCB-1268									
1	100		5.485						
1	2		5.524						
1	3		5.723						
1	4		6.098						
1	5		6.396						
2	6		6.576						
2	7		6.625						
2	8		6.887						
2	9		7.203						
2	10		7.545						
$ 12 DCB Decachlorobiphenyl									
1	100	6.592	6.592	0.000	3836878	0.002989			
2	2	7.814	7.813	0.001	3613804	0.003293			
						RPD = 9.68			

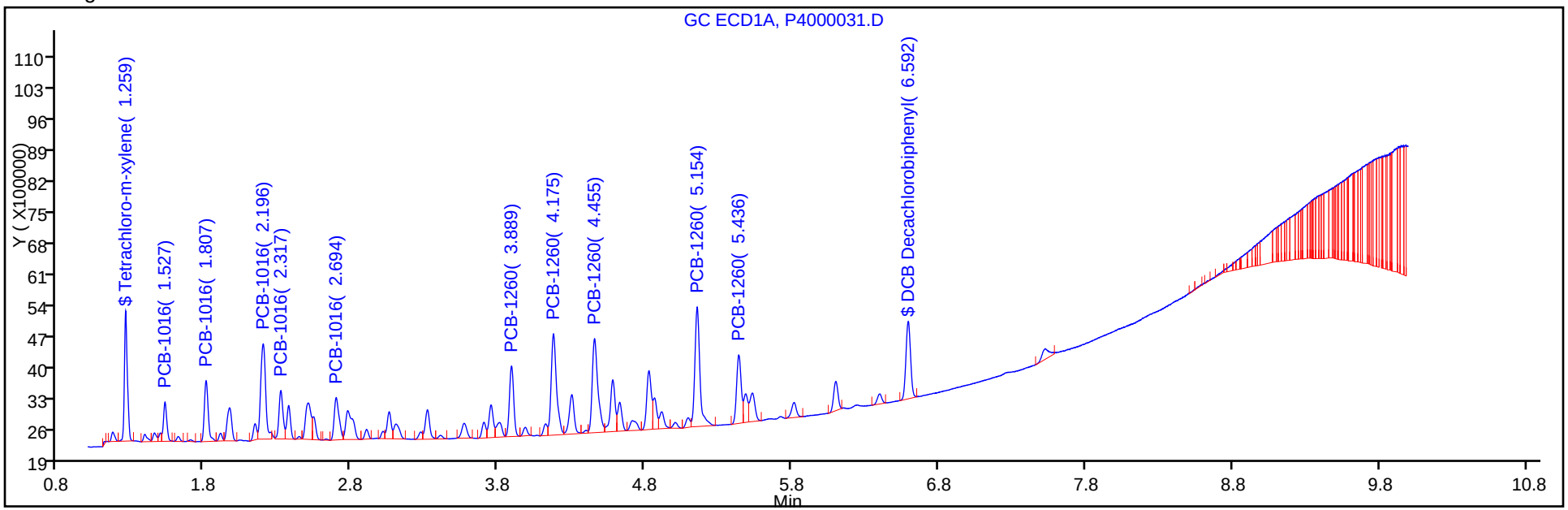
Report Date: 29-Mar-2013 12:31:59 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Canton

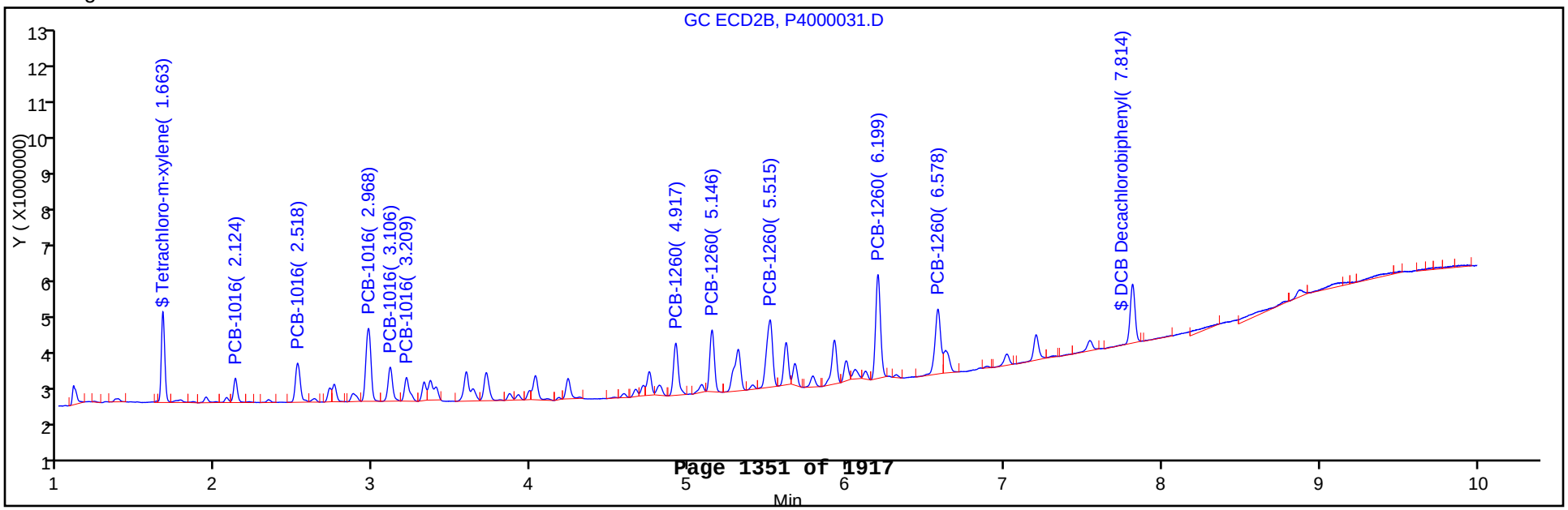
Data File: \\Ncchrom\ChromData\A2HP4\20130327-18292.b\P4000031.D

Injection Date:	27-Mar-2013 15:31:10	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	79577	Lims Sample ID:	31
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: A2HP4 Start Date: 01/23/2013 11:22

Analysis Batch Number: 72953 End Date: 01/24/2013 00:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD005 240-72953/3 IC		01/23/2013 11:22	1	P4000003.D	CLP-1 0.53(mm)
STD005 240-72953/3 IC		01/23/2013 11:22	1	P4000003.D	CLP-2 0.53(mm)
STD01 240-72953/4 IC		01/23/2013 11:38	1	P4000004.D	CLP-1 0.53(mm)
STD01 240-72953/4 IC		01/23/2013 11:38	1	P4000004.D	CLP-2 0.53(mm)
STD02 240-72953/5 IC		01/23/2013 11:54	1	P4000005.D	CLP-1 0.53(mm)
STD02 240-72953/5 IC		01/23/2013 11:54	1	P4000005.D	CLP-2 0.53(mm)
STD05 240-72953/6 IC		01/23/2013 12:09	1	P4000006.D	CLP-1 0.53(mm)
STD05 240-72953/6 IC		01/23/2013 12:09	1	P4000006.D	CLP-2 0.53(mm)
STD1 240-72953/7 IC		01/23/2013 12:25	1	P4000007.D	CLP-1 0.53(mm)
STD1 240-72953/7 IC		01/23/2013 12:25	1	P4000007.D	CLP-2 0.53(mm)
STD2 240-72953/8 IC		01/23/2013 12:41	1	P4000008.D	CLP-1 0.53(mm)
STD2 240-72953/8 IC		01/23/2013 12:41	1	P4000008.D	CLP-2 0.53(mm)
STD005 240-72953/9 IC		01/23/2013 12:56	1	P4000009.D	CLP-1 0.53(mm)
STD005 240-72953/9 IC		01/23/2013 12:56	1	P4000009.D	CLP-2 0.53(mm)
STD01 240-72953/10 IC		01/23/2013 13:12	1	P4000010.D	CLP-1 0.53(mm)
STD01 240-72953/10 IC		01/23/2013 13:12	1	P4000010.D	CLP-2 0.53(mm)
STD02 240-72953/11 IC		01/23/2013 13:28	1	P4000011.D	CLP-1 0.53(mm)
STD02 240-72953/11 IC		01/23/2013 13:28	1	P4000011.D	CLP-2 0.53(mm)
STD05 240-72953/12 IC		01/23/2013 13:43	1	P4000012.D	CLP-1 0.53(mm)
STD05 240-72953/12 IC		01/23/2013 13:43	1	P4000012.D	CLP-2 0.53(mm)
STD1 240-72953/13 IC		01/23/2013 13:59	1	P4000013.D	CLP-1 0.53(mm)
STD1 240-72953/13 IC		01/23/2013 13:59	1	P4000013.D	CLP-2 0.53(mm)
STD2 240-72953/14 IC		01/23/2013 14:15	1	P4000014.D	CLP-1 0.53(mm)
STD2 240-72953/14 IC		01/23/2013 14:15	1	P4000014.D	CLP-2 0.53(mm)
STD005 240-72953/15 IC		01/23/2013 14:31	1	P4000015.D	CLP-1 0.53(mm)
STD005 240-72953/15 IC		01/23/2013 14:31	1	P4000015.D	CLP-2 0.53(mm)
STD01 240-72953/16 IC		01/23/2013 14:46	1	P4000016.D	CLP-1 0.53(mm)
STD01 240-72953/16 IC		01/23/2013 14:46	1	P4000016.D	CLP-2 0.53(mm)
STD02 240-72953/17 IC		01/23/2013 15:02	1	P4000017.D	CLP-1 0.53(mm)
STD02 240-72953/17 IC		01/23/2013 15:02	1	P4000017.D	CLP-2 0.53(mm)
STD05 240-72953/18 IC		01/23/2013 15:18	1	P4000018.D	CLP-1 0.53(mm)
STD05 240-72953/18 IC		01/23/2013 15:18	1	P4000018.D	CLP-2 0.53(mm)
STD1 240-72953/19 IC		01/23/2013 15:33	1	P4000019.D	CLP-1 0.53(mm)
STD1 240-72953/19 IC		01/23/2013 15:33	1	P4000019.D	CLP-2 0.53(mm)
STD2 240-72953/20 IC		01/23/2013 15:49	1	P4000020.D	CLP-1 0.53(mm)
STD2 240-72953/20 IC		01/23/2013 15:49	1	P4000020.D	CLP-2 0.53(mm)
STD005 240-72953/21 IC		01/23/2013 16:05	1	P4000021.D	CLP-1 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: A2HP4 Start Date: 01/23/2013 11:22

Analysis Batch Number: 72953 End Date: 01/24/2013 00:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD005 240-72953/21 IC		01/23/2013 16:05	1	P4000021.D	CLP-2 0.53(mm)
STD01 240-72953/22 IC		01/23/2013 16:21	1	P4000022.D	CLP-1 0.53(mm)
STD01 240-72953/22 IC		01/23/2013 16:21	1	P4000022.D	CLP-2 0.53(mm)
STD02 240-72953/23 IC		01/23/2013 16:36	1	P4000023.D	CLP-1 0.53(mm)
STD02 240-72953/23 IC		01/23/2013 16:36	1	P4000023.D	CLP-2 0.53(mm)
STD05 240-72953/24 IC		01/23/2013 16:52	1	P4000024.D	CLP-1 0.53(mm)
STD05 240-72953/24 IC		01/23/2013 16:52	1	P4000024.D	CLP-2 0.53(mm)
STD1 240-72953/25 IC		01/23/2013 17:08	1	P4000025.D	CLP-1 0.53(mm)
STD1 240-72953/25 IC		01/23/2013 17:08	1	P4000025.D	CLP-2 0.53(mm)
STD2 240-72953/26 IC		01/23/2013 17:23	1	P4000026.D	CLP-1 0.53(mm)
STD2 240-72953/26 IC		01/23/2013 17:23	1	P4000026.D	CLP-2 0.53(mm)
STD005 240-72953/27 IC		01/23/2013 17:39	1	P4000027.D	CLP-1 0.53(mm)
STD005 240-72953/27 IC		01/23/2013 17:39	1	P4000027.D	CLP-2 0.53(mm)
STD01 240-72953/28 IC		01/23/2013 17:55	1	P4000028.D	CLP-1 0.53(mm)
STD01 240-72953/28 IC		01/23/2013 17:55	1	P4000028.D	CLP-2 0.53(mm)
STD02 240-72953/29 IC		01/23/2013 18:11	1	P4000029.D	CLP-1 0.53(mm)
STD02 240-72953/29 IC		01/23/2013 18:11	1	P4000029.D	CLP-2 0.53(mm)
STD05 240-72953/30 ICRT		01/23/2013 18:26	1	P4000030.D	CLP-1 0.53(mm)
STD05 240-72953/30 ICRT		01/23/2013 18:26	1	P4000030.D	CLP-2 0.53(mm)
STD1 240-72953/31 IC		01/23/2013 18:42	1	P4000031.D	CLP-1 0.53(mm)
STD1 240-72953/31 IC		01/23/2013 18:42	1	P4000031.D	CLP-2 0.53(mm)
STD2 240-72953/32 IC		01/23/2013 18:58	1	P4000032.D	CLP-1 0.53(mm)
STD2 240-72953/32 IC		01/23/2013 18:58	1	P4000032.D	CLP-2 0.53(mm)
STD005 240-72953/33 IC		01/23/2013 19:14	1		CLP-1 0.53(mm)
STD005 240-72953/33 IC		01/23/2013 19:14	1		CLP-2 0.53(mm)
STD01 240-72953/34 IC		01/23/2013 19:29	1		CLP-1 0.53(mm)
STD01 240-72953/34 IC		01/23/2013 19:29	1		CLP-2 0.53(mm)
STD02 240-72953/35 IC		01/23/2013 19:45	1		CLP-1 0.53(mm)
STD02 240-72953/35 IC		01/23/2013 19:45	1		CLP-2 0.53(mm)
STD05 240-72953/36 IC		01/23/2013 20:01	1		CLP-1 0.53(mm)
STD05 240-72953/36 IC		01/23/2013 20:01	1		CLP-2 0.53(mm)
STD1 240-72953/37 IC		01/23/2013 20:16	1		CLP-1 0.53(mm)
STD1 240-72953/37 IC		01/23/2013 20:16	1		CLP-2 0.53(mm)
STD2 240-72953/38 IC		01/23/2013 20:32	1		CLP-1 0.53(mm)
STD2 240-72953/38 IC		01/23/2013 20:32	1		CLP-2 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: A2HP4 Start Date: 01/23/2013 11:22

Analysis Batch Number: 72953 End Date: 01/24/2013 00:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD005 240-72953/39 IC		01/23/2013 20:48	1		CLP-1 0.53(mm)
STD005 240-72953/39 IC		01/23/2013 20:48	1		CLP-2 0.53(mm)
STD01 240-72953/40 IC		01/23/2013 21:03	1		CLP-1 0.53(mm)
STD01 240-72953/40 IC		01/23/2013 21:03	1		CLP-2 0.53(mm)
STD02 240-72953/41 IC		01/23/2013 21:19	1		CLP-1 0.53(mm)
STD02 240-72953/41 IC		01/23/2013 21:19	1		CLP-2 0.53(mm)
STD05 240-72953/42 IC		01/23/2013 21:35	1		CLP-1 0.53(mm)
STD05 240-72953/42 IC		01/23/2013 21:35	1		CLP-2 0.53(mm)
STD1 240-72953/43 IC		01/23/2013 21:51	1		CLP-1 0.53(mm)
STD1 240-72953/43 IC		01/23/2013 21:51	1		CLP-2 0.53(mm)
STD2 240-72953/44 IC		01/23/2013 22:06	1		CLP-1 0.53(mm)
STD2 240-72953/44 IC		01/23/2013 22:06	1		CLP-2 0.53(mm)
ICV 240-72953/45		01/23/2013 22:22	1	P4000045.D	CLP-1 0.53(mm)
ICV 240-72953/45		01/23/2013 22:22	1	P4000045.D	CLP-2 0.53(mm)
ICV 240-72953/46		01/23/2013 22:38	1	P4000046.D	CLP-1 0.53(mm)
ICV 240-72953/46		01/23/2013 22:38	1	P4000046.D	CLP-2 0.53(mm)
ICV 240-72953/47		01/23/2013 22:53	1	P4000047.D	CLP-1 0.53(mm)
ICV 240-72953/47		01/23/2013 22:53	1	P4000047.D	CLP-2 0.53(mm)
ICV 240-72953/48		01/23/2013 23:09	1	P4000048.D	CLP-1 0.53(mm)
ICV 240-72953/48		01/23/2013 23:09	1	P4000048.D	CLP-2 0.53(mm)
ICV 240-72953/49		01/23/2013 23:25	1	P4000049.D	CLP-1 0.53(mm)
ICV 240-72953/49		01/23/2013 23:25	1	P4000049.D	CLP-2 0.53(mm)
ICV 240-72953/50		01/23/2013 23:41	1	P4000050.D	CLP-1 0.53(mm)
ICV 240-72953/50		01/23/2013 23:41	1	P4000050.D	CLP-2 0.53(mm)
ICV 240-72953/51		01/23/2013 23:56	1		CLP-1 0.53(mm)
ICV 240-72953/51		01/23/2013 23:56	1		CLP-2 0.53(mm)
ICV 240-72953/52		01/24/2013 00:12	1		CLP-1 0.53(mm)
ICV 240-72953/52		01/24/2013 00:12	1		CLP-2 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Instrument ID: A2HP4 Start Date: 03/27/2013 08:01

Analysis Batch Number: 79577 End Date: 03/27/2013 15:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 240-79577/3 CCVRT		03/27/2013 08:01	1	P4000003.D	CLP-1 0.53(mm)
CCV 240-79577/3 CCVRT		03/27/2013 08:01	1	P4000003.D	CLP-2 0.53(mm)
MRL 240-79577/4		03/27/2013 08:17	1	P4000004.D	CLP-1 0.53(mm)
MRL 240-79577/4		03/27/2013 08:17	1	P4000004.D	CLP-2 0.53(mm)
240-21987-1	079-0007-0001-SOURCEWATER	03/27/2013 10:07	1	P4000011.D	CLP-1 0.53(mm)
240-21987-1	079-0007-0001-SOURCEWATER	03/27/2013 10:07	1	P4000011.D	CLP-2 0.53(mm)
ZZZZZ		03/27/2013 10:23	1		CLP-1 0.53(mm)
ZZZZZ		03/27/2013 10:23	1		CLP-2 0.53(mm)
MB 240-78721/17-A		03/27/2013 12:28	1	P4000020.D	CLP-1 0.53(mm)
MB 240-78721/17-A		03/27/2013 12:28	1	P4000020.D	CLP-2 0.53(mm)
CCV 240-79577/21		03/27/2013 12:54	1	P4000021.D	CLP-1 0.53(mm)
CCV 240-79577/21		03/27/2013 12:54	1	P4000021.D	CLP-2 0.53(mm)
LCS 240-78721/18-A		03/27/2013 14:59	1	P4000029.D	CLP-1 0.53(mm)
LCS 240-78721/18-A		03/27/2013 14:59	1	P4000029.D	CLP-2 0.53(mm)
CCV 240-79577/30		03/27/2013 15:15	1	P4000030.D	CLP-1 0.53(mm)
CCV 240-79577/30		03/27/2013 15:15	1	P4000030.D	CLP-2 0.53(mm)
MRL 240-79577/31		03/27/2013 15:31	1	P4000031.D	CLP-1 0.53(mm)
MRL 240-79577/31		03/27/2013 15:31	1	P4000031.D	CLP-2 0.53(mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Batch Number: 78721 Batch Start Date: 03/19/13 12:00 Batch Analyst: Mills, Lisa

Batch Method: 3520C Batch End Date: 03/20/13 06:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	EX10PPMSPK 00007	EX2/.2SURRW 00022	AnalysisComment
240-21987-N-1	079-0007-0001-SOURCEWATER	3520C, 8082/DOD	T	1000 mL	5.0 mL	7		1 mL	Assoc w/ 78721
MB 240-78721/17		3520C, 8082/DOD		1000 mL	5.0 mL	7		1 mL	Assoc w/78721
LCS 240-78721/18		3520C, 8082/DOD		1000 mL	5.0 mL	7	0.5 mL	1 mL	

Batch Notes	
Acid used for Clean Up Reagent	724997
Exchange Solvent Lot #	804963
Na2SO4 Lot Number	857430
Prep Solvent Lot #	883347

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 8151 DOD

Herbicides (GC) by Method 8151A/DOD

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): CLP-1 ID: 0.53 (mm) GC Column (2): CLP-2 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	DCPA1	#	DCPA2	#
079-0007-0001-SOUR CEWATER	240-21987-1	76		86	
	MB 240-78626/3-A	79		88	
	LCS 240-78626/4-A	91		99	
	MRL 240-79197/13	130	Q	117	Q
	MRL 240-79197/20	132	Q	119	Q

	QC LIMITS
DCPA = 2,4-Dichlorophenylacetic acid	32-112

Column to be used to flag recovery values

FORM II 8151/DOD

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P1000017.D

Lab ID: LCS 240-78626/4-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
2,4-D	40.0	41.7	104	35-115	
Dalapon	20.0	17.5	87	40-110	
2,4-DB	40.0	21.4	53	45-130	
Dicamba	20.0	19.7	98	60-110	
Dichlorprop	40.0	50.2	126	70-120	Q
Dinoseb	6.00	5.02	84	20-110	
MCPA	4000	3800	95	60-145	
Silvex (2,4,5-TP)	10.0	10.2	102	50-115	
2,4,5-T	10.0	11.1	111	35-110	Q

Column to be used to flag recovery and RPD values

FORM III 8151/DOD

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P1000013.D

Lab ID: MRL 240-79197/13 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
2,4-D	0.0200	0.0231	115	70-130	
2,4-D	0.0200	0.0205	103	70-130	
Dalapon	0.0100	0.0127	127	70-130	
Dalapon	0.0100	0.0122	122	70-130	
2,4-DB	0.0200	0.0208	104	70-130	
2,4-DB	0.0200	0.0193	97	70-130	
Dicamba	0.0100	0.0120	120	70-130	
Dicamba	0.0100	0.0109	109	70-130	
Dichlorprop	0.0200	0.0259	130	70-130	
Dichlorprop	0.0200	0.0223	112	70-130	
Dinoseb	0.00300	0.00365	122	70-130	
Dinoseb	0.00300	0.00303	101	70-130	M
MCPA	2.00	0.962	48	70-130	^
MCPA	2.00	0.925	46	70-130	^
Silvex (2,4,5-TP)	0.00500	0.00550	110	70-130	
Silvex (2,4,5-TP)	0.00500	0.00507	101	70-130	
2,4,5-T	0.00500	0.00521	104	70-130	
2,4,5-T	0.00500	0.00473	95	70-130	

Column to be used to flag recovery and RPD values

FORM III 8151/DOD

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P1000020.D

Lab ID: MRL 240-79197/20 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
2,4-D	0.0200	0.0231	116	70-130	
2,4-D	0.0200	0.0212	106	70-130	
Dalapon	0.0100	0.0127	127	70-130	
Dalapon	0.0100	0.0114	114	70-130	
2,4-DB	0.0200	0.0210	105	70-130	
2,4-DB	0.0200	0.0192	96	70-130	M
Dicamba	0.0100	0.0122	122	70-130	
Dicamba	0.0100	0.0113	113	70-130	
Dichlorprop	0.0200	0.0262	131	70-130	^
Dichlorprop	0.0200	0.0225	113	70-130	
Dinoseb	0.00300	0.00368	123	70-130	
Dinoseb	0.00300	0.00295	98	70-130	
MCPA	2.00	0.998	50	70-130	^
MCPA	2.00	1.03	51	70-130	^
Silvex (2,4,5-TP)	0.00500	0.00559	112	70-130	
Silvex (2,4,5-TP)	0.00500	0.00502	100	70-130	
2,4,5-T	0.00500	0.00518	104	70-130	
2,4,5-T	0.00500	0.00473	95	70-130	

Column to be used to flag recovery and RPD values

FORM III 8151/DOD

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Lab Sample ID: MB 240-78626/3-A

Matrix: Water Date Extracted: 03/18/2013 10:35

Lab File ID:(1) P1000016.D Lab File ID:(2) P1000016.D

Date Analyzed:(1) 03/22/2013 21:21 Date Analyzed:(2) 03/22/2013 21:21

Instrument ID:(1) A2HP1 Instrument ID:(2) A2HP1

GC Column:(1) CLP-1 ID: 0.53(mm) GC Column:(2) CLP-2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
079-0007-0001-SOURCEWATER	240-21987-1	03/22/2013 20:57	03/22/2013 20:57
	LCS 240-78626/4-A	03/22/2013 21:44	03/22/2013 21:44

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: 079-0007-0001-SOURCEWATER Lab Sample ID: 240-21987-1

Instrument ID (1): A2HP1 Instrument ID (2): A2HP1

Date Analyzed (1): 03/22/2013 20:57 Date Analyzed (2): 03/22/2013 20:57

GC Column (1): CLP-1 ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Dalapon	1		1.20	1.18	1.22	0.31		56.0
	2		1.39	1.35	1.39	0.55		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-21987-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-78626/4-A

Instrument ID (1): A2HP1 Instrument ID (2): A2HP1

Date Analyzed (1): 03/22/2013 21:44 Date Analyzed (2): 03/22/2013 21:44

GC Column (1): CLP-1 ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Dalapon	1		1.20	1.18	1.22	15.8		10.2
	2		1.37	1.35	1.39	17.5		
Dicamba	1		7.01	6.99	7.03	18.4		6.6
	2		7.75	7.73	7.77	19.7		
MCPP	1		7.29	7.28	7.32	3920		4.3
	2		7.93	7.91	7.95	4090		
MCPA	1		7.45	7.44	7.48	4080		7.1
	2		8.18	8.16	8.20	3800		
Dichlorprop	1		7.82	7.80	7.84	45.6		9.6
	2		8.53	8.51	8.55	50.2		
2,4-D	1		8.05	8.04	8.08	43.1		3.2
	2		8.89	8.87	8.91	41.7		
Pentachlorophenol	1		8.14	8.12	8.16	5.70		3.1
	2		9.18	9.16	9.20	5.53		
Silvex (2,4,5-TP)	1		8.90	8.89	8.93	9.80		3.5
	2		9.81	9.79	9.83	10.2		
2,4,5-T	1		9.21	9.20	9.24	10.9		1.9
	2		10.29	10.27	10.31	11.1		
2,4-DB	1		9.82	9.81	9.85	23.9		11.0
	2		10.93	10.92	10.96	21.4		
Dinoseb	1		11.01	10.98	11.04	4.70		6.5
	2		11.29	11.26	11.32	5.02		