PHASE VII SOIL VAPOR INTRUSION INVESTIGATION
NOVEMBER 2012 SAMPLING EVENT
(SITE NUMBER: C755012A)
ITHACA SOUTH HILL
ITHACA, NEW YORK

Prepared for

New York State Department of Environmental Conservation
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Albany, New York 12233

Prepared by

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August 29, 2013

Matthew Ryan, Engineering Manager
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Date

August 2013
Version: FINAL

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1. Introduction

Project Background

Aztech Technologies, Inc. (Aztech) has prepared this report to present the results of the work conducted through New York State Department of Environmental Conservation (NYSDEC) call out number 118339, under contract number C100904, Site number C755012A. The site is located within the South Hill neighborhood in the City of Ithaca, Tompkins County, New York (**Figure 1**). The work request included soil vapor intrusion (SVI) sampling in four homes (Structure Numbers 56-59), including data validation and a summary report. Sampling was conducted in November 2012, in general accordance with the New York State Department of Health (NYSDOH) SVI Guidance, October 2006. This sampling event was conducted subsequent to the Phase VII SVI investigation completed by EA Engineering in February 2012 (Phase VII Soil Vapor Intrusion Investigation Summary Report Addendum, EA Engineering, July 2012).

Objectives

The objective of the SVI monitoring was to further evaluate the potential for vapor intrusion within the four selected structures located along the sanitary sewer line that discharges from the Therm Facility located at 1000 Hudson Street Extension, Ithaca, New York.

Report Organization

A summary of SVI monitoring activities conducted in November 2012 is included in Section 2.0. Section 3 summarizes laboratory analytical results of the soil vapor samples collected from the four select homes. Laboratory analytical results are summarized in **Table 1** and presented on **Figure 2**. The complete analytical report is included as **Appendix A**. Indoor Air/Subslab Vapor Sampling forms are provided in **Appendix B**, the Data Usability Summary Report (DUSR) is provided in **Appendix C**, and a photographic log is provided in **Appendix D.**

2. Field Investigation Activities

SVI monitoring was conducted by Aztech on November 13 and 14, 2012, at Structures 56, 57, 58, and 59. Copies of daily field logs are included in Appendix B.

All structures were tested using SUMMA® canisters, equipped with regulators set to collect samples over a 24-hour period. At the structures listed below, samples were collected from a combination of sub-slab, indoor basement, and ambient air locations. Quality Assurance/Quality Control (QA/QC) duplicate samples were collected from each sample location taken at Structure Number 59.

2.1 Structure Monitoring Sampling

Structure 56

Air samples were collected at Structure 56 between November 13 and 14, 2012. One indoor sub-slab, one ambient air, and two indoor basement air samples were collected. The basement floor of Structure 56 is poured concrete, and appeared to be in good condition. A portion of the basement was finished into an office and bedroom area. The concrete flooring in these areas were covered with plywood and carpeting. A floor drain was located in the unfinished portion of the basement. One basement air sample was collected in close proximity to the floor drain and a second indoor air sample was collected in the finished portion of the basement.

Structure 57

Air samples were collected at Structure 57 between November 13 and 14, 2012. One indoor sub slab, one ambient air and one indoor basement air sample were collected. A portion of the basement floor of Structure 57 was poured concrete, and appeared to be in good condition. A portion of the basement was crawl space. Bedrock was directly beneath the concrete in the finished portion of the basement and beneath a soil layer in the crawl space. The basement slab contained a sump pump, which was installed into bedrock. The sub-slab vapor sample was collected from the finished portion of the basement in the vicinity of the overhead door and the basement indoor air sample was collected from the crawl space.

Structure 58

Air samples were collected at Structure 58 between November 13 and 14, 2012. One ambient air and indoor basement air sample were collected. The basement floor is earthen and was observed to be in poor condition. The basement contained a sump pump. The basement air sample was collected near the central portion of the basement.

Structure 59

Air samples were collected at Structure 59 between November 13 and 14, 2013. One indoor sub-slab, one ambient air, and one indoor basement air sample were collected. The basement floor was poured concrete and was observed to be in good condition. The basement contained a sump pump, washer and dryer, and a wall penetration for a sewer pipe. The indoor basement sample was collected from the central portion of the basement.

Field Duplicates

Field Quality control sampling included collection of duplicate samples collected from each sample location at Structure 59 on November 13, 2012. The duplicate sample collected at the sub-slab point was connected with tees and drawn from a single orifice concurrent with the original sample at that location. Duplicate samples were collected at the indoor and outdoor air sampling locations using two canisters, which were set up in adjacent locations.

2.2 Basement Sump Water Sampling

On February 21, 2013, the groundwater entering the basement sump in Structure 57 was sampled. A grab sample and a duplicate were collected directly into 40 milliliter (ml) vials; no equipment was used to transfer the sample into test vials. Sample vials were labeled and shipped, on ice, under proper chain of custody to TestAmerica of Buffalo, New York for analysis of volatile organic compounds in accordance with United States Environmental Protection Agency (USEPA) Method 8260. Laboratory results from the sample identified as “SUMP” and a duplicate sample identified as “DUPE” are summarized in **Table 2**; the complete laboratory report is included in Appendix A.

3. Results

The data validation report is included in **Appendix C**. This section summarizes the analytical results of SVI monitoring conducted at the site in November 2012. SVI monitoring samples were analyzed by an Environmental Laboratory Approved Program (ELAP) certified laboratory in accordance with the reporting requirements as defined in NYSDEC Analytical Services Protocol of June 2000. The laboratory analytical data package was reported using Category B deliverables and a standard electronic data deliverable. The analytical data package was validated by EnviroAnalytics, an independent third party. Laboratory analytical data were evaluated in accordance with the NYSDOH SVI Guidance. The sampling logs for each of the structures are included in **Appendix B**.

3.1 Analytical Results

An analytical summary table for Phase VII SVI monitoring sampling data is provided in Table 1. Figure 2 depicts the analytical results of the sampling, specifically those associated with a decision matrix and air guidelines presented in the NYSDOH SVI Guidance. An analytical summary table is provided as Table 1.

Structure 56

Laboratory analytical results indicate that trichloroethene (TCE) was detected in sub-slab vapor at 19.0 µg/m³; was detected in basement indoor air at 1.5 µg/m³ (unfinished portion) and 0.42 µg/m³ (finished portion); and was non-detect (ND) in ambient air. Based on the NYSDOH Soil Vapor Intrusion Guidance actions are necessary to address potential exposures related to soil vapor.

Structure 57

Laboratory analytical results indicate that TCE was detected in sub-slab vapor at 95 µg/m³; was detected in basement indoor air at 71 µg/m³, and was ND in ambient air. In addition, 170 ppb of TCE and 32 ppb of cis-1,2-dichoroethene (breakdown product of TCE) were detected in the sump water sample and its duplicate (see Table 2). Based on the NYSDOH Soil Vapor Intrusion Guidance actions are necessary to address potential exposures related to soil vapor.

Structure 58

Laboratory analytical results indicated basement air concentrations and ambient air concentrations were ND. Based on the NYSDOH Soil Vapor Intrusion Guidance actions are not necessary to address potential exposures related to soil vapor.

Structure 59

Laboratory analytical results indicated sub-slab concentrations, basement air concentrations and ambient air concentrations were ND. According to the NYSDOH Soil Vapor Intrusion Guidance actions are not necessary to address potential exposures related to soil vapor.

3.2 Data Usability Summary Reports

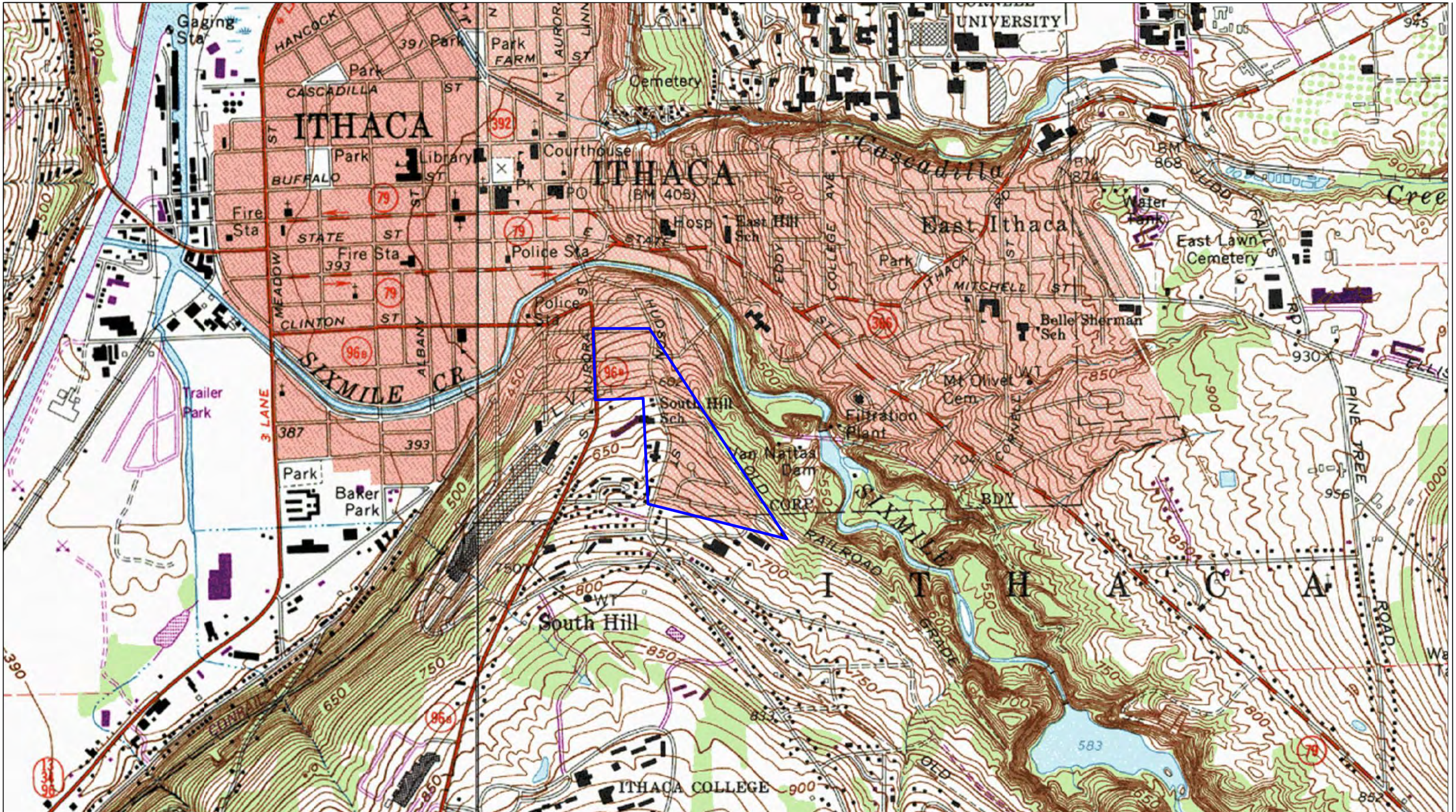
EnviroAnalytics Data validation service of Utica, New York validated the analytical data package submitted to Aztech by Test America of Knoxville, Tennessee. Analytical data packages are submitted as sample delivery groups (SDGs) based on the number of samples within each shipment received at the laboratory for analysis. The SDG associated with this soil vapor sampling event was reviewed for completeness and compliance as defined by the requirements for NYSDEC Analytical Services Protocol Category B deliverables.

Data validation was completed for 15 air samples. TO-15 volatile organic analyses data were determined to be usable for qualitative and quantitative purposes as presented by the laboratory. Further, the completeness of the data was determined to be 100 percent (**Appendix C**).

4. Conclusion

The NYSDEC and NYSDOH have evaluated the data generated during the Phase VII SVI evaluations and in conjunction with current understanding of the nature and extent of contamination, mitigation to prevent soil vapor intrusion was offered to Structures 56 and 57. No further actions were necessary at Structures 58 and 59.

Figures



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LEGEND

Structures 56 through 59 are located within boundary line

Source: Tompkins County Property Viewer

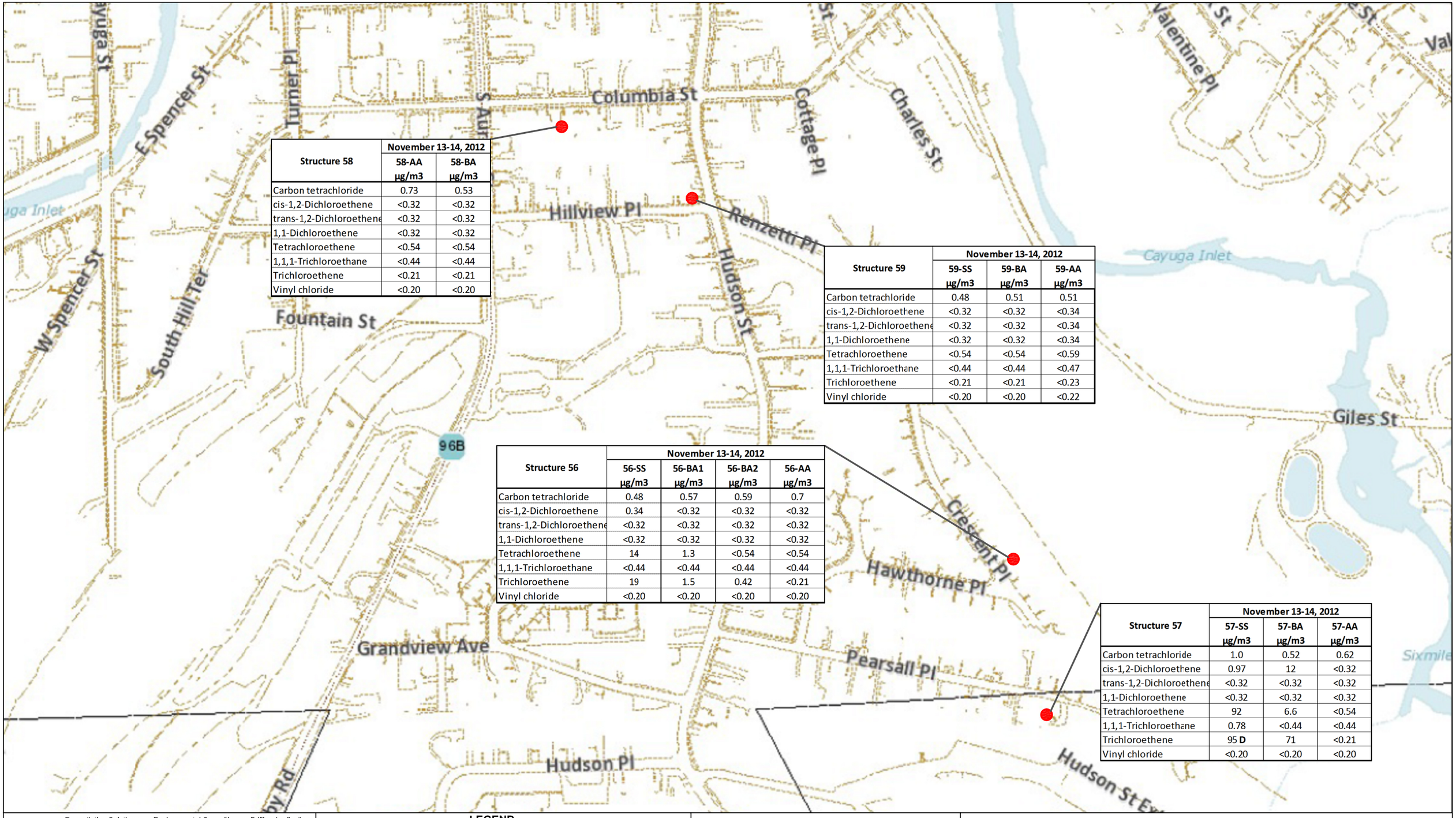
Site Location
Ithaca South Hill
Ithaca, New York

FIGURE 1

DATE: November 13-14, 2012

SCALE: Not to Scale

Site Location Map



Structure 58	November 13-14, 2012	
	58-AA µg/m3	58-BA µg/m3
Carbon tetrachloride	0.73	0.53
cis-1,2-Dichloroethene	<0.32	<0.32
trans-1,2-Dichloroethene	<0.32	<0.32
1,1-Dichloroethene	<0.32	<0.32
Tetrachloroethene	<0.54	<0.54
1,1,1-Trichloroethane	<0.44	<0.44
Trichloroethene	<0.21	<0.21
Vinyl chloride	<0.20	<0.20

Structure 59	November 13-14, 2012		
	59-SS µg/m3	59-BA µg/m3	59-AA µg/m3
Carbon tetrachloride	0.48	0.51	0.51
cis-1,2-Dichloroethene	<0.32	<0.32	<0.34
trans-1,2-Dichloroethene	<0.32	<0.32	<0.34
1,1-Dichloroethene	<0.32	<0.32	<0.34
Tetrachloroethene	<0.54	<0.54	<0.59
1,1,1-Trichloroethane	<0.44	<0.44	<0.47
Trichloroethene	<0.21	<0.21	<0.23
Vinyl chloride	<0.20	<0.20	<0.22

Structure 56	November 13-14, 2012			
	56-SS µg/m3	56-BA1 µg/m3	56-BA2 µg/m3	56-AA µg/m3
Carbon tetrachloride	0.48	0.57	0.59	0.7
cis-1,2-Dichloroethene	0.34	<0.32	<0.32	<0.32
trans-1,2-Dichloroethene	<0.32	<0.32	<0.32	<0.32
1,1-Dichloroethene	<0.32	<0.32	<0.32	<0.32
Tetrachloroethene	14	1.3	<0.54	<0.54
1,1,1-Trichloroethane	<0.44	<0.44	<0.44	<0.44
Trichloroethene	19	1.5	0.42	<0.21
Vinyl chloride	<0.20	<0.20	<0.20	<0.20

Structure 57	November 13-14, 2012		
	57-SS µg/m3	57-BA µg/m3	57-AA µg/m3
Carbon tetrachloride	1.0	0.52	0.62
cis-1,2-Dichloroethene	0.97	12	<0.32
trans-1,2-Dichloroethene	<0.32	<0.32	<0.32
1,1-Dichloroethene	<0.32	<0.32	<0.32
Tetrachloroethene	92	6.6	<0.54
1,1,1-Trichloroethane	0.78	<0.44	<0.44
Trichloroethene	95 **D**	71	<0.21
Vinyl chloride	<0.20	<0.20	<0.20

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LEGEND

- Monitoring Structure
- µg/m3 Micrograms per cubic meter
- D Concentration is a result of a dilution

Source: Tompkins CountyProperty Viewer

Structures 56 - 59
Ithaca South Hill
Ithaca, New York

FIGURE 2

DATE: November 13-14, 2012

SCALE: Not to Scale

Soil Vapor Intrusion Monitoring Results

Tables

Table 1

LABORATORY ANALYTICAL RESULTS SUMMARY - SOIL VAPOR INTRUSION MONITORING

Ithaca South Hill

Ithaca, New York

November 13-14, 2012

Property ID	Structure 56				Structure 57			Structure 58		Structure 59					
Sample ID	**56-SS**	**56-BA1**	**56-BA2**	**56-AA**	**57-SS**	**57-BA**	**57-AA**	**58-BA**	**58-AA**	**59-SS**	**59-BA**	**59-AA**	**DUP-SS**	**DUP-BA**	**DUP-AA**
Sample Type	Sub-slab	Basement Indoor Air	Basement Indoor Air	Ambient Air	Sub-slab	Basement Indoor Air	Ambient Air	Basement Indoor Air	Ambient Air	Sub-slab	Basement Indoor Air	Ambient Air	Sub-slab	Basement Indoor Air	Ambient Air
Parameter List															
1,1,1-Trichloroethane	0.48	0.57	0.59	0.7	1.0	0.52	0.62	0.73	0.53	0.48	0.51	0.51	0.66	0.52	0.59
1,1-Dichloroethene	0.34	<0.32	<0.32	<0.32	0.97	12	<0.32	<0.32	<0.32	<0.32	<0.32	<0.34	<0.32	<0.32	<0.32
Carbon tetrachloride	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.34	<0.32	<0.32	<0.32
cis-1,2-Dichloroethene	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.34	<0.32	<0.32	<0.32
Tetrachloroethene	14	1.3	<0.54	<0.54	92	6.6	<0.54	<0.54	<0.54	<0.54	<0.54	<0.59	<0.54	<0.54	<0.54
trans-1,2-Dichloroethene	<0.44	<0.44	<0.44	<0.44	0.78	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.47	<0.44	<0.44	<0.44
Trichloroethene	19	1.5	0.42	<0.21	95 **D**	71	<0.21	<0.21	<0.21	<0.21	<0.21	<0.23	<0.21	<0.21	<0.21
Vinyl chloride	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.22	<0.20	<0.20	<0.20

Notes:

$\mu g/m^3$ - all results are presented in micrograms per cubic meter

DUP - Duplicate Sample

<0.32 - the analyte was detected below the reporting limit

D - result was obtained from the analysis of a dilution because the concentration exceeded calibration range

Table 2
LABORATORY ANALYTICAL RESULT SUMMARY - BASEMENT SUMP GROUNDWATER
Volatile Organic Compounds
Structure 57
Ithaca South Hill
Ithaca, New York

8260 Standard Compound List	TOGS Guidance/Standard	Sump February 21, 2013	Dupe February 21, 2013
1,1,1-Trichloroethane	5	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0
1,1,2-Trichloroethane	5	<1.0	<1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	5	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	<1.0
1,2,4-Trichlorobenzene	10	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	5	<1.0	<1.0
1,2-Dibromoethane	5	<1.0	<1.0
1,2-Dichlorobenzene	4.7	<1.0	<1.0
1,2-Dichloroethane	5	<1.0	<1.0
1,2-Dichloropropane	5	<1.0	<1.0
1,3-Dichlorobenzene	5	<1.0	<1.0
1,4-Dichlorobenzene	4.7	<1.0	<1.0
2-Hexanone	50	<5.0	<5.0
2-Butanone (MEK)	50	**90**	**89**
4-Methyl-2-pentanone (MIBK)	50	<5.0	<5.0
Acetone	50	**110**	**110**
Benzene	1	<1.0	<1.0
Bromodichloromethane	50	<1.0	<1.0
Bromoform	50	<1.0	<1.0
Bromomethane	5	<1.0	<1.0
Carbon disulfide	50	<1.0	<1.0
Carbon tetrachloride	5	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0
Dibromochloromethane	50	<1.0	<1.0
Chloroethane	5	<1.0	<1.0
Chloroform	7	0.42 J	0.46 J
Chloromethane	50	<1.0	<1.0
cis-1,2-Dichloroethene	5	**32**	**31**
cis-1,3-Dichloropropene	5	<1.0	<1.0
Cyclohexane	50	<1.0	<1.0
Dichlorodifluoromethane	5	<1.0	<1.0
Ethylbenzene	5	<1.0	<1.0
Isopropylbenzene	5	<1.0	<1.0
Methyl acetate	50	<1.0	<1.0
Methyl tertiary-Butyl Ether	10	<1.0	<1.0
Methylcyclohexane	50	<1.0	<1.0
Methylene Chloride	5	<1.0	<1.0
Styrene	5	<1.0	<1.0
Tetrachloroethene	5	**7.8**	**7.7**
Toluene	5	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0
trans-1,3-Dichloropropene	5	<1.0	<1.0
Trichloroethene	5	**170**	**170**
Trichlorofluoromethane	5	<1.0	<1.0
Vinyl chloride	2	<1.0	<1.0
Xylenes, Total	5	<2.0	<2.0

Notes:

J: results is less than the reporting limit (RL) but greater than or equal to the method detection limit and the concentration is an approximate amount.

BOLD values indicate exceedance of applicable NYSDEC guidance values

<1.0: Less than the reporting limit (RL)

TOGS: Technical and Operational Guidance Series

TOGS Standards and Guidance are determined by the NYSDEC Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitiations, Technical and Operational Guidance Series, June 1998

All values are reported in parts per billion (ppb or ug/L)

Appendices

Appendix A

Laboratory Analytical Report

Aztech
Technologies, Inc.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. C755012A

Off-Site Former Axiohm Fac.

Lot #: H2K150429

Karen A. Cahill

New York State D.E.C
615 Erie Blvd West
Syracuse, NY 13204-2400

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

November 20, 2012

ANALYTICAL METHODS SUMMARY

H2K150429

PARAMETER	ANALYTICAL METHOD
Volatile Organics by TO15	EPA-2 TO-15

References:

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

H2K150429

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MXCPR	001	56-SS	11/14/12	07:55
MXCPT	002	56-BA1	11/14/12	07:55
MXCPV	003	56-BA2	11/14/12	07:58
MXCPW	004	56-AA	11/14/12	07:54
MXCPX	005	57-SS	11/14/12	09:00
MXCP0	006	57-BA	11/14/12	09:00
MXCP1	007	57-AA	11/14/12	08:15
MXCP2	008	58-BA	11/14/12	10:02
MXCP4	009	58-AA	11/14/12	10:02
MXCP5	010	59-SS	11/14/12	12:10
MXCP7	011	59-BA	11/14/12	12:00
MXCP8	012	59-AA	11/14/12	12:05
MXCQA	013	DUP-SS	11/14/12	
MXCQC	014	DUP-BA	11/14/12	
MXCQD	015	DUP-AA	11/14/12	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H2K150429

The results reported herein are applicable to the samples submitted for analysis only. If you have any questions about this report, please call (865) 291-3000 to speak with the TestAmerica project manager listed on the cover page.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present.

The sample ID listed on the chain of custody documentation did not match the IDs listed on the sample container label for samples DUP SS, DUP BA and DUP AA.

Quality Control and Data Interpretation

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

Sample 59-AA was reported with elevated reporting limits for all analytes due to the limited amount of sample received.

The concentration of trichloroethene in sample 57-SS exceeded the calibration level of the instrument. The sample was analyzed at a dilution to bring the concentration of the compound into the instrument calibration range. The results for both analyses are reported in order to provide the lowest possible reporting limits.

CERTIFICATION SUMMARY

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Knoxville	ACLASS	DoD ELAP		ADE-1434
TestAmerica Knoxville	Arkansas	State Program	6	88-0688
TestAmerica Knoxville	California	State Program	9	2423
TestAmerica Knoxville	Colorado	State Program	8	N/A
TestAmerica Knoxville	Connecticut	State Program	1	PH-0223
TestAmerica Knoxville	Florida	NELAC	4	E87177
TestAmerica Knoxville	Georgia	State Program	4	906
TestAmerica Knoxville	Hawaii	State Program	9	N/A
TestAmerica Knoxville	Indiana	State Program	5	C-TN-02
TestAmerica Knoxville	Iowa	State Program	7	375
TestAmerica Knoxville	Kansas	NELAC	7	E-10349
TestAmerica Knoxville	Kentucky	State Program	4	90101
TestAmerica Knoxville	Louisiana	NELAC	6	LA110001
TestAmerica Knoxville	Louisiana	NELAC	6	83979
TestAmerica Knoxville	Maryland	State Program	3	277
TestAmerica Knoxville	Michigan	State Program	5	9933
TestAmerica Knoxville	Minnesota	NELAC	5	047-999-429
TestAmerica Knoxville	Nevada	State Program	9	TN00009
TestAmerica Knoxville	New Jersey	NELAC	2	TN001
TestAmerica Knoxville	New York	NELAC	2	10781
TestAmerica Knoxville	North Carolina	North Carolina DENR	4	64
TestAmerica Knoxville	North Carolina	North Carolina PHL	4	21705
TestAmerica Knoxville	Ohio	OVAP	5	CL0059
TestAmerica Knoxville	Oklahoma	State Program	6	9415
TestAmerica Knoxville	Pennsylvania	NELAC	3	68-00576
TestAmerica Knoxville	South Carolina	State Program	4	84001
TestAmerica Knoxville	Tennessee	State Program	4	2014
TestAmerica Knoxville	Texas	NELAC	6	T104704380-TX
TestAmerica Knoxville	USDA	USDA		P330-11-00035
TestAmerica Knoxville	Utah	NELAC	8	QUAN3
TestAmerica Knoxville	Virginia	State Program	3	165
TestAmerica Knoxville	Washington	State Program	10	C593
TestAmerica Knoxville	West Virginia	West Virginia DEP	3	345
TestAmerica Knoxville	West Virginia	West Virginia DHHR (DW)	3	9955C
TestAmerica Knoxville	Wisconsin	State Program	5	998044300

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.

Sample Data Summary

New York State D.E.C

Client Sample ID: 56-SS

GC/MS Volatiles

Lot-Sample #	H2K150429 - 001	**Work Order #**	MXCPR1AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/18/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.076**	**0.040**	**0.48**	**0.25**
cis-1,2-Dichloroethene	**0.085**	**0.080**	**0.34**	**0.32**
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	**2.1**	**0.080**	**14**	**0.54**
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	**3.5**	**0.040**	**19**	**0.21**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	108	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C

Client Sample ID: 56-BA1

GC/MS Volatiles

Lot-Sample #	H2K150429 - 002	Work Order #	MXCPT1AA	Matrix.....:	AIR
Date Sampled...:	11/14/2012	Date Received..:	11/15/2012		
Prep Date.....:	11/18/2012	Analysis Date...	11/18/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	Method.....:	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.091**	**0.040**	**0.57**	**0.25**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	**0.20**	**0.080**	**1.3**	**0.54**
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	**0.28**	**0.040**	**1.5**	**0.21**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	106	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C

Client Sample ID: 56-BA2

GC/MS Volatiles

Lot-Sample #	H2K150429 - 003	Work Order #	MXCPV1AA	Matrix.....:	AIR
Date Sampled...:	11/14/2012	Date Received..:	11/15/2012		
Prep Date.....:	11/18/2012	Analysis Date...	11/18/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	Method.....:	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.094**	**0.040**	**0.59**	**0.25**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	ND	0.080	ND	0.54
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	**0.078**	**0.040**	**0.42**	**0.21**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	106	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C

Client Sample ID: 56-AA

GC/MS Volatiles

Lot-Sample #	H2K150429 - 004	**Work Order #**	MXCPW1AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/18/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.11**	**0.040**	**0.70**	**0.25**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	ND	0.080	ND	0.54
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	111	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rouuding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C

Client Sample ID: 57-SS

GC/MS Volatiles

Lot-Sample #	H2K150429 - 005	**Work Order #**	MXCPX1AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/18/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.16**	**0.040**	**1.0**	**0.25**
cis-1,2-Dichloroethene	**0.25**	**0.080**	**0.97**	**0.32**
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	**14**	**0.080**	**92**	**0.54**
1,1,1-Trichloroethane	**0.14**	**0.080**	**0.78**	**0.44**
Trichloroethene	**25 E**	**0.040**	**130 E**	**0.21**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	109	60 - 140

Qualifiers

E	Estimated result. Result concentration exceeds the calibration range.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C

Client Sample ID: 57-SS

GC/MS Volatiles

Lot-Sample #	H2K150429 - 005	**Work Order #**	MXCPX2AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/19/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	5	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Trichloroethene	**18 D**	**0.20**	**95 D**	**1.1**

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	104	60 - 140

Qualifiers

D Result was obtained from the analysis of a dilution.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C

Client Sample ID: 57-BA

GC/MS Volatiles

Lot-Sample # H2K150429 - 006 Work Order # MXCP01AA Matrix.....: AIR

Date Sampled...: 11/14/2012
Prep Date.....: 11/18/2012
Prep Batch #.....: 2324020
Dilution Factor.: 1

Date Received..: 11/15/2012
Analysis Date... 11/19/2012
Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.083**	**0.040**	**0.52**	**0.25**
cis-1,2-Dichloroethene	**3.1**	**0.080**	**12**	**0.32**
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	**0.97**	**0.080**	**6.6**	**0.54**
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	**13**	**0.040**	**71**	**0.21**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	105	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C

Client Sample ID: 57-AA

GC/MS Volatiles

Lot-Sample #	H2K150429 - 007	**Work Order #**	MXCP11AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/19/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.099**	**0.040**	**0.62**	**0.25**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	ND	0.080	ND	0.54
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	112	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C

Client Sample ID: 58-BA

GC/MS Volatiles

Lot-Sample #	H2K150429 - 008	**Work Order #**	MXCP21AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/19/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.12**	**0.040**	**0.73**	**0.25**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	ND	0.080	ND	0.54
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	110	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calcnlated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C

Client Sample ID: 58-AA

GC/MS Volatiles

Lot-Sample #	H2K150429 - 009	Work Order #	MXCP41AA	Matrix.....:	AIR
Date Sampled....:	11/14/2012	Date Received..:	11/15/2012		
Prep Date.....:	11/18/2012	Analysis Date...	11/19/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	Method.....:	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.084**	**0.040**	**0.53**	**0.25**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	ND	0.080	ND	0.54
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	106	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C

Client Sample ID: 59-SS

GC/MS Volatiles

Lot-Sample #	H2K150429 - 010	**Work Order #**	MXCP51AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/19/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.076**	**0.040**	**0.48**	**0.25**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	ND	0.080	ND	0.54
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	108	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C

Client Sample ID: 59-BA

GC/MS Volatiles

Lot-Sample #	H2K150429 - 011	**Work Order #**	MXCP71AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/19/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.081**	**0.040**	**0.51**	**0.25**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	ND	0.080	ND	0.54
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	107	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C

Client Sample ID: 59-AA

GC/MS Volatiles

Lot-Sample #	H2K150429 - 012	**Work Order #**	MXCP81AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/19/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1.08	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.082**	**0.043**	**0.51**	**0.27**
cis-1,2-Dichloroethene	ND	0.086	ND	0.34
trans-1,2-Dichloroethene	ND	0.086	ND	0.34
1,1-Dichloroethene	ND	0.086	ND	0.34
Tetrachloroethene	ND	0.086	ND	0.59
1,1,1-Trichloroethane	ND	0.086	ND	0.47
Trichloroethene	ND	0.043	ND	0.23
Vinyl chloride	ND	0.086	ND	0.22

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	105	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C

Client Sample ID: DUP-SS

GC/MS Volatiles

Lot-Sample #	H2K150429 - 013	**Work Order #**	MXCQA1AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/19/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.094**	**0.040**	**0.59**	**0.25**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	ND	0.080	ND	0.54
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	107	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C

Client Sample ID: DUP-BA

GC/MS Volatiles

Lot-Sample #	H2K150429 - 014	**Work Order #**	MXCQC1AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/19/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.083**	**0.040**	**0.52**	**0.25**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	ND	0.080	ND	0.54
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	107	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C

Client Sample ID: DUP-AA

GC/MS Volatiles

Lot-Sample #	H2K150429 - 015	**Work Order #**	MXCQD1AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/19/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.11**	**0.040**	**0.66**	**0.25**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	ND	0.080	ND	0.54
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	111	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample #	H2K190000 - 020B	Work Order #	MXDMX1AA	Matrix.....:	AIR
	11/14/2012	Date Received..:	11/15/2012		
Prep Date.....:	11/18/2012	Analysis Date...	11/18/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	Method.....:	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	ND	0.040	ND	0.25
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	ND	0.080	ND	0.54
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	103	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample #	H2K190000 - 020C	**Work Order #**	MXDMX1AC
Matrix.....:	AIR		
	11/14/2012	**Date Received..:**	11/15/2012
Prep Date.....:	11/18/2012	**Analysis Date...**	11/18/2012
Prep Batch #.....:	2324020		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Carbon tetrachloride	5.40	4.90	34	30.9	91	70 - 130
cis-1,2-Dichloroethene	5.40	4.70	21	18.6	87	70 - 130
trans-1,2-Dichloroethene	5.40	4.68	21	18.6	87	70 - 130
1,1-Dichloroethene	5.40	4.84	21	19.2	90	70 - 130
Tetrachloroethene	5.40	5.09	37	34.5	94	70 - 130
1,1,1-Trichloroethane	5.40	5.14	29	28.1	95	70 - 130
Trichloroethene	5.40	5.48	29	29.4	101	70 - 130
Vinyl chloride	5.40	4.84	14	12.4	90	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	108	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Sample Receipt Documentation

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

1121150429

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: KAREN CAHILL	Sampled By: CARL ALDRICH
Company: NYSDEC	Phone: 315 426 7432	
Address: 615 ERIE BLVD WEST	Site Contact:	
City/State/Zip SYRACUSE NY	TAL Contact:	
Phone:		
FAX: 315 426 2653		
Project Name: FORMER AXIOM FAC.	**Analysis Turnaround Time**	
Site/location: ITHACA NY	Standard (Specify) ✓	
PO #	Rush (Specify)	

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type: Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
56 SS	11/13-14/12	848	755	30	-5	K279B	2954	X	~~X~~	~~X~~	~~X~~			~~X~~	~~X~~			X
56 BA1		849	755	29	-5	K387	7511	X						X	~~X~~			~~X~~
56 BA2		850	758	30	-4	K217	12401	X						X	~~X~~			~~X~~
56 AA		850	754	30	-5	K168	12730	X						~~X~~	X			~~X~~
57 SS		1040	900	30	-4	K440	12622	X										X
57 BA	11/13-14/12	1040	900	30	-4	K507	13183	X						X				

Sampled by :	Temperature (Fahrenheit)		
		Interior	Ambient
CARL ALDRICH	Start		
	Stop		

	Pressure (inches of Hg)		
		Interior	Ambient
	Start		
	Stop		

3 Boxes NO CUSTODY SEALS
RECEIVED @ AMBIENT TEMP
R.H 11/15/12
3 BOXES FED EX MSTR# 410858088313
15 CANS, 15 FLOWS, 11 CANDY CANES

Special Instructions/QC Requirements & Comments:
OTHER = SUB SLAB
SEND COPY OF RESULTS TO MRYAN@AZTECHTECH.COM
CAT B DELIVERIBLES

Canisters Shipped by:	Date/Time:	Canisters Received by: R. Ted Hancock	11/15/12 10:00 13:48
Samples Relinquished by:	Date/Time: 11 14 12 345	Received by:	R.H 11/15/12
Relinquished by: 11/14/12	Date/Time: 11/14/12 1700	Received by:	

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

H2K130429

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: KAREN CAHILL	Sampled By: CARL ALANSICH
Company: AWSMC	Phone: 315 426 7432	___ of ___ COCs
Address: 615 ERIE BLVD WEST	Site Contact:	
City/State/Zip SYRACUSE NY	TAL Contact:	
Phone:		
FAX: 315 426 2653		
Project Name: FORMER AKZO FAC.	Analysis Turnaround Time	
Site/location: ITHACA NY	Standard (Specify) X	
PO #	Rush (Specify)	

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
57 AA	11/13-14/12	1040	815	-20	-0	K325	0140	X								X			
58 BA		1100	1002	30	-4	K426	7489	X							X	X			
58 AA		1101	1002	30	-4	K380	04337	X								X			
59 SS		1246	1210	29	-3	K478	12161	X											X
59 BA		1245	1200	30	-3	K398	93097	X							X				
59 AA	11/13-14/12	1245	1205	30	-16	K442	03654	X								X			

Sampled by :

CARL ALANSICH

Temperature (Fahrenheit)			
	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)			
	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

OTHER IS 5GB SLAB

SEND COPY OF RESULTS TO MRYAN@AZTECHTECH.COM

59 AA - FAULTY REGULATOR

CAT B DELIVERABLES

Canisters Shipped by:	Date/Time:	Canisters Received by: Rita Hancock 11/15/12 10:00 13	R# 11/15/12
Samples Relinquished by:	Date/Time: 11/14/12 345	Received by:	
Relinquished by:	Date/Time: 11/14/12 1700	Received by:	

H2K150429

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: KAREN CAHILL	Sampled By: CARL ALDRICH
Company: NYSDEC	Phone: 315 426 7432	____ of ____ COCs
Address: 615 ERIE BLVD WEST	Site Contact:	
City/State/Zip SYRACUSE NY	TAL Contact:	
Phone:		
FAX: 315 426 2653		
Project Name:	**Analysis Turnaround Time**	
Site/location:	Standard (Specify) ✓	
PO #	Rush (Specify)	

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
DUP 55	11/13 14/12			29	-3	K277	1491	X											X
DUP BA	11/13/14/12			-29	-3	K106	6529	X							X				
DUP AA	11/13/14/12			29	-4	K403	97160	X								X			

Sampled by :	Temperature (Fahrenheit)			
		Interior	Ambient	
	Start			
	Stop			

	Pressure (inches of Hg)			
		Interior	Ambient	
	Start			
	Stop			

Special Instructions/QC Requirements & Comments:
~~OTHER~~ OTHER IS SABSLAB CAT B DELIVERABLES
SEND COPY OF RESULTS TO MARIAN@AZTECHTECH.COM

Canisters Shipped by:	Date/Time:	Canisters Received by: Rita Hancock 11/15/12 10:00
Samples Relinquished by:	Date/Time: 11/14/12 345	Received by:
Relinquished by:	Date/Time: 11/14/12 1700	Received by:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: 1-12K1509429

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)		X		☒ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☐ **1g** Other:	1A COC ID's DUP SS, DUP BA, DUP AA TAGS READ DUP MATCHED by CAN ID's Log by COC
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C)			X	☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____ ☐ **2c** Cooling initiated for recently collected samples, ice present.	4A
3. Were samples received with correct chemical preservative (excluding Encore)?			X	☐ **3a** Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?		X		☐ **4a** Not present ☐ **4b** Not intact ☐ **4c** Other:	
5. Were all of the samples listed on the COC received?	X			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC	
6. Were all of the sample containers received intact?	X			☐ **6a** Leaking ☐ **6b** Broken	
7. Were VOA samples received without headspace?			X	☐ **7a** Headspace (VOA only)	
8. Were samples received in appropriate containers?	X			☐ **8a** Improper container	
9. Did you check for residual chlorine, if necessary?			X	☐ **9a** Could not be determined due to matrix interference	
10. Were samples received within holding time?	X			☐ **10a** Holding time expired	
11. For rad samples, was sample activity info. provided?			X	☐ Incomplete information	
12. For 1613B water samples is pH<9?			X	If no, was pH adjusted to pH 7 - 9 with sulfuric acid? _____	
13. Are the shipping containers intact?	X			☐ **13a** Leaking ☐ **13b** Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	X			☐ **14a** Not relinquished	
15. Are tests/parameters listed for each sample?	X			☐ **15a** Incomplete information	
16. Is the matrix of the samples noted?	X			☐ **15a** Incomplete information	
17. Is the date/time of sample collection noted?	X			☐ **15a** Incomplete information	
18. Is the client and project name/# identified?	X			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?	X				

Quote #: 91021 PM Instructions: NA

Sample Receiving Associate: Rita Hancock Date: 11/15/12

QA026R22.doc, 012811

Test America - Knoxville ---- Air Canister Dilution Log

Lot Number: *H2K150429*

Initial Can Pressure							Subsequent Dilutions											
Analyst/Date	Tedlar Bag Time	Pbarr (in)	Sample ID	Can #	Pres. upon receipt (-in or + psig)	Adj. Initial Pres. (- in or + psig)	Analyst/Date	I / S	Pbarr (in)	Initial Pres. Pi (in)	Final Pres. Pf (psig)	First InCan Final Pres. Pf (psig)	Second In-can Final Pres. Pf (psig)	Third InCan Final Pres. Pf (psig)	Serial Dilution Can #	Vol (mL)	Final Pres. Pf (psig)	Comments
DDF 11-15-12	NA	29.05	MXCPR	2954	-35													10180
			MXCPT	7511	-4.2													"
			MXCPV	12401	-2.5													10173
			MXCPW	12730	-1.9													10172
			MXCPX	12622	-2.5													"
			MXCP0	93183	-1.7													"
			MXCP1	0140	-1.3													10164
			MXCP2	7489	-3.1													10172
			MXCP4	04337	-1.9													"
			MXCP5	12161	0													10171
			MXCP7	93097	-1.1													10172
			MXCP8	03854	-13.9	+1.5												10161
			MXCQA	1491	-2.7													10164
			MXCQC	6529	-2.8													10180
	"	"	MXCQD	9716B	-2.4													10178

Volatiles

Raw Sample Data

New York State D.E.C

Client Sample ID: 56-SS

GC/MS Volatiles

Lot-Sample #	H2K150429 - 001	**Work Order #**	MXCPR1AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/18/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.076**	**0.040**	**0.48**	**0.25**
cis-1,2-Dichloroethene	**0.085**	**0.080**	**0.34**	**0.32**
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	**2.1**	**0.080**	**14**	**0.54**
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	**3.5**	**0.040**	**19**	**0.21**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	108	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/me.i/E111812.b/mxcpr1aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E111812.b/mxcpr1aa.d
Lab Smp Id: MXCPR1AA Client Smp ID: 56-SS
Inj Date : 18-NOV-2012 19:53
Operator : 403648 Inst ID: me.i
Smp Info : ,,0,,,
Misc Info : E111812,TO155,axi.sub,,
Comment :
Method : /var/chem/gcms/me.i/E111812.b/TO155.m
Meth Date : 19-Nov-2012 10:08 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 15:34 Cal File: eick072.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: axi.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.091	8.097	(1.000)	260296	4.00000	4.000
* 2 1,4-Difluorobenzene	114	10.227	10.227	(1.000)	1365515	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.085	15.085	(1.000)	1198641	4.00000	4.000
$ 4 4-Bromofluorobenzene	95	16.762	16.762	(1.111)	960950	4.31094	4.311
42 cis 1,2-Dichloroethene	96	7.795	7.795	(0.963)	7923	0.08535	0.08535
50 Carbon Tetrachloride	117	9.682	9.688	(0.947)	18501	0.07564	0.07564
57 Trichloroethene	130	10.949	10.955	(1.071)	490058	3.52887	3.529
74 Tetrachloroethene	129	14.239	14.244	(0.944)	286314	2.08457	2.084

Data File: /var/chem/gcms/me.i/E111812.b/mxcpr1aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: me.i
Lab File ID: mxcpr1aa.d
Lab Smp Id: MXCPR1AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 403648
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

Calibration Date: 18-NOV-2012
Calibration Time: 14:50
Client Smp ID: 56-SS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	292927	174292	411562	260296	-11.14
2 1,4-Difluorobenze	1503226	894419	2112033	1365515	-9.16
3 Chlorobenzene-d5	1358775	808471	1909079	1198641	-11.79

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.10	7.77	8.43	8.09	-0.07
2 1,4-Difluorobenze	10.23	9.90	10.56	10.23	0.00
3 Chlorobenzene-d5	15.09	14.76	15.42	15.09	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/me.i/E111812.b/mxcpr1aa.d
Report Date: 19-Nov-2012 10:09

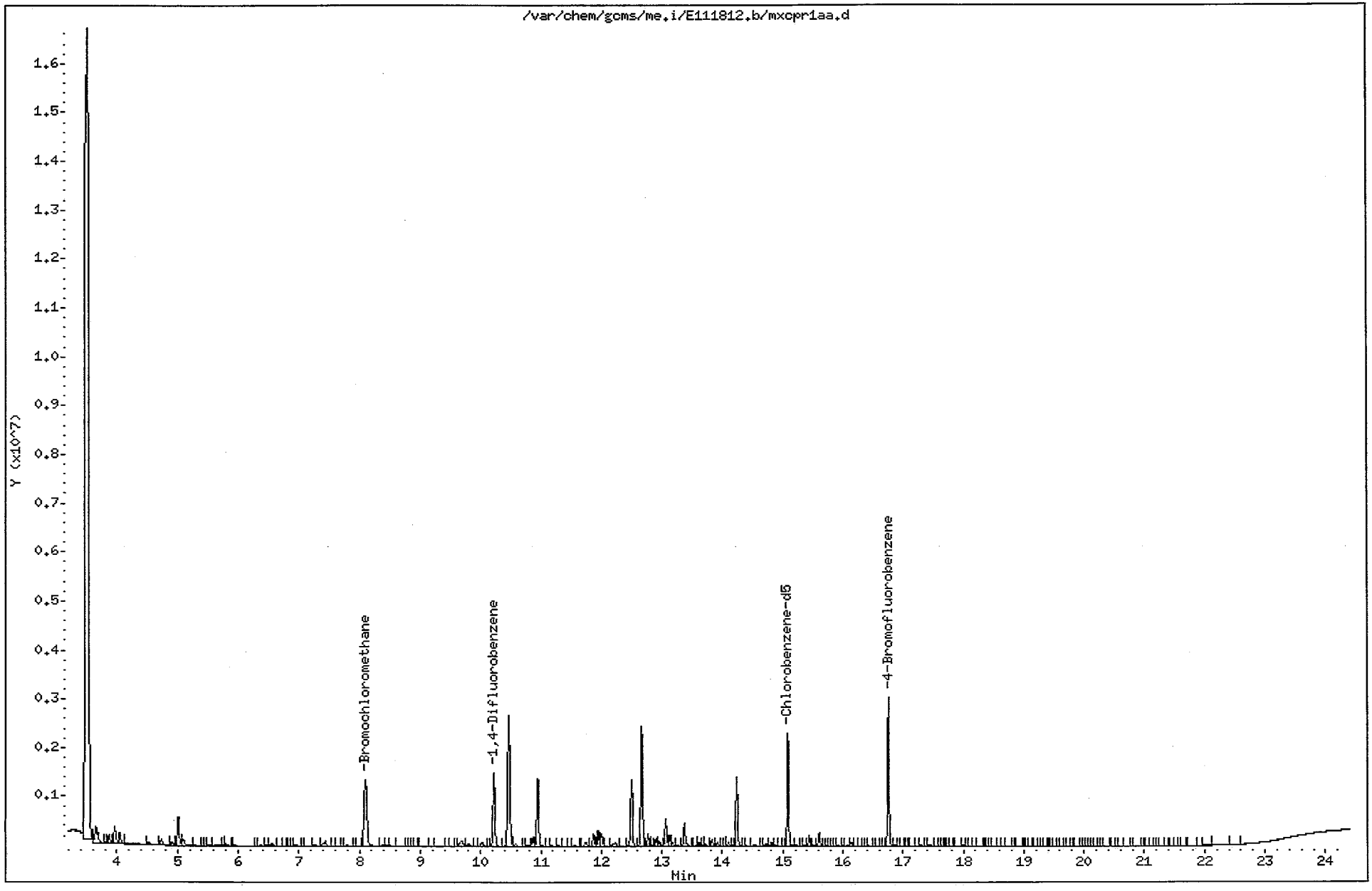
TestAmerica Knoxville

RECOVERY REPORT

Client Name: New York State D.E.C15-NOV-2012 00:00 Client SDG: H2K150429
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MXCPR1AA Client Smp ID: 56-SS
Level: LOW Operator: 403648
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allplus.spk Quant Type: ISTD
Sublist File: axi.sub
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.311	107.77	70-130

Data File: /var/chem/gcms/me.i/E111812.b/mxcpr1aa.d
Date : 18-NOV-2012 19:53
Client ID: 56-SS
Instrument: me.i
Sample Info: ,,0,,,
Purge Volume: 500.0
Operator: 403648
Column phase: Rtx-5
Column diameter: 0.32



Data File: /var/chem/gcms/me.i/E111812.b/mxcpr1aa.d

Date : 18-NOV-2012 19:53

Client ID: 56-SS

Instrument: me.i

Sample Info: ,,0,,,

Purge Volume: 500.0

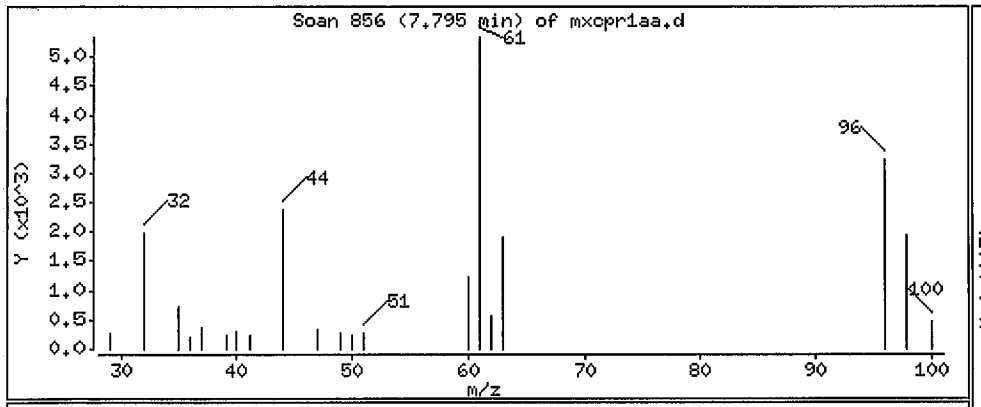
Operator: 403648

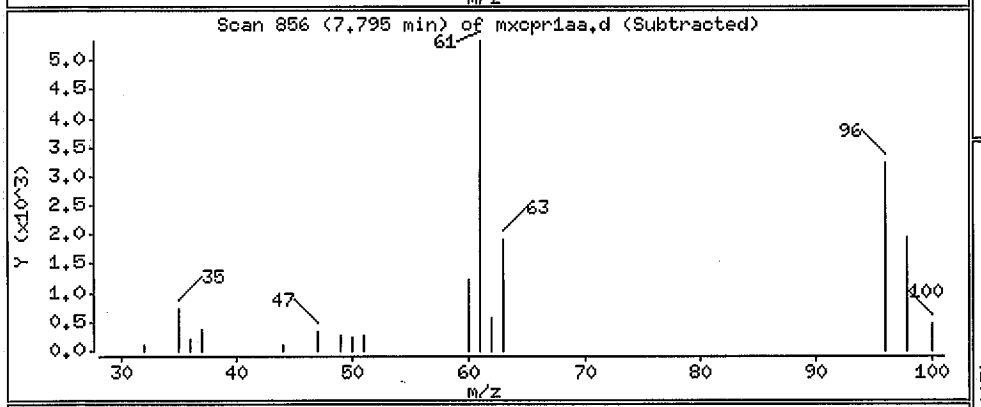
Column phase: Rtx-5

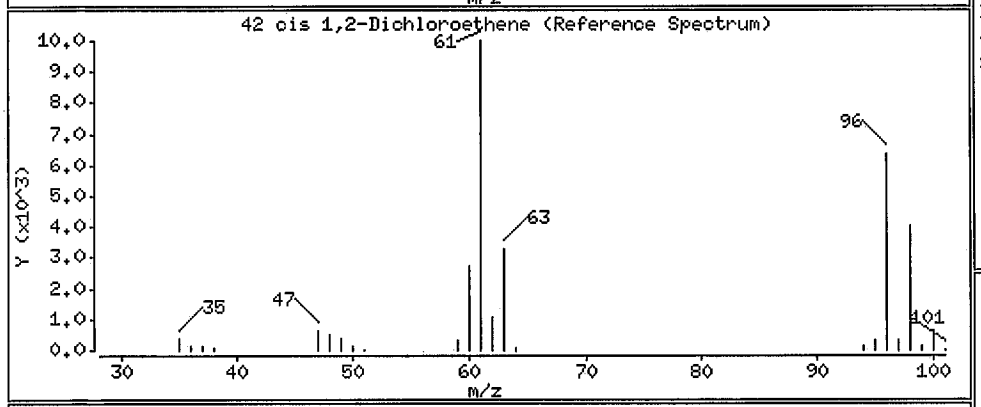
Column diameter: 0.32

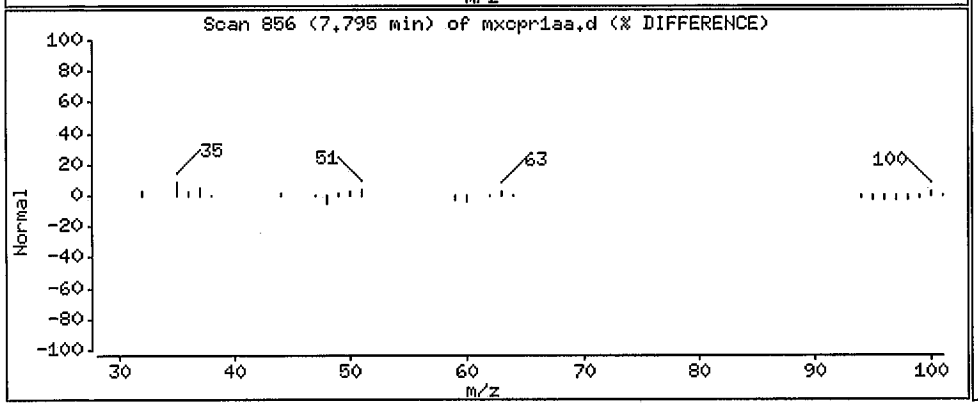
42 cis 1,2-Dichloroethene

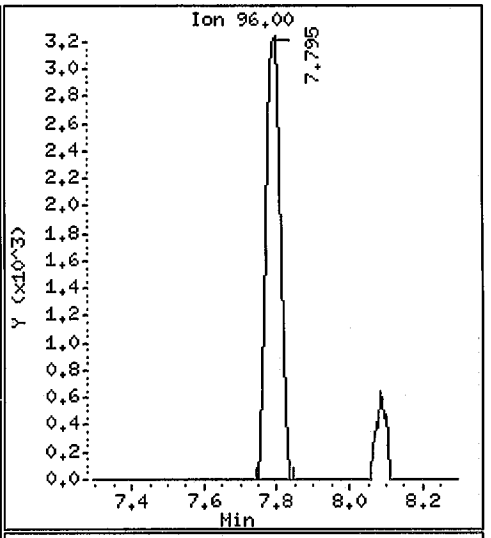
Concentration: 0.08535 ppb(v/v)

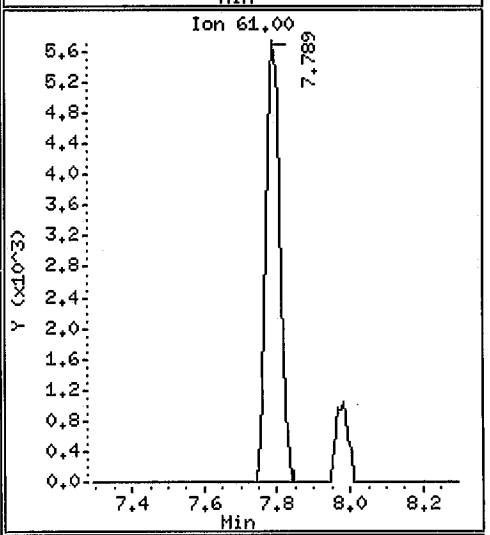


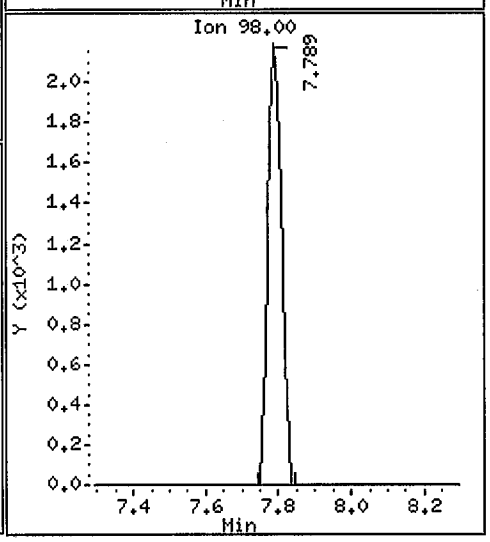












Data File: /var/chem/gcms/me.i/E111812.b/mxcpr1aa.d

Date : 18-NOV-2012 19:53

Client ID: 56-SS

Instrument: me.i

Sample Info: ,,0,,,

Purge Volume: 500.0

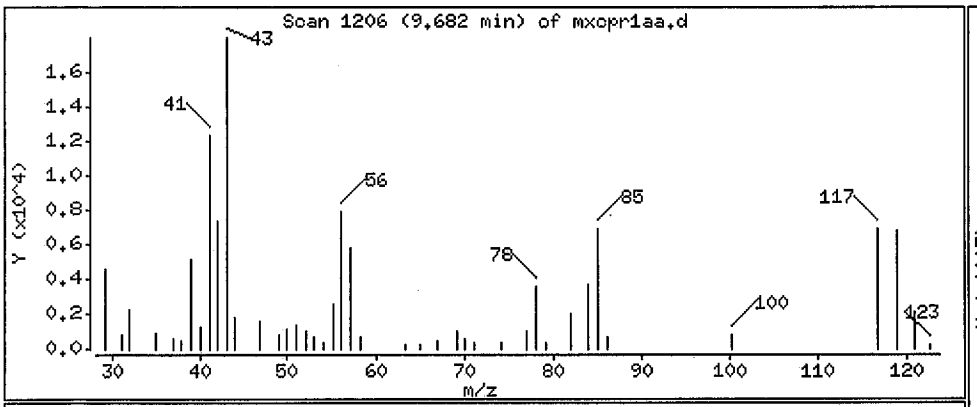
Operator: 403648

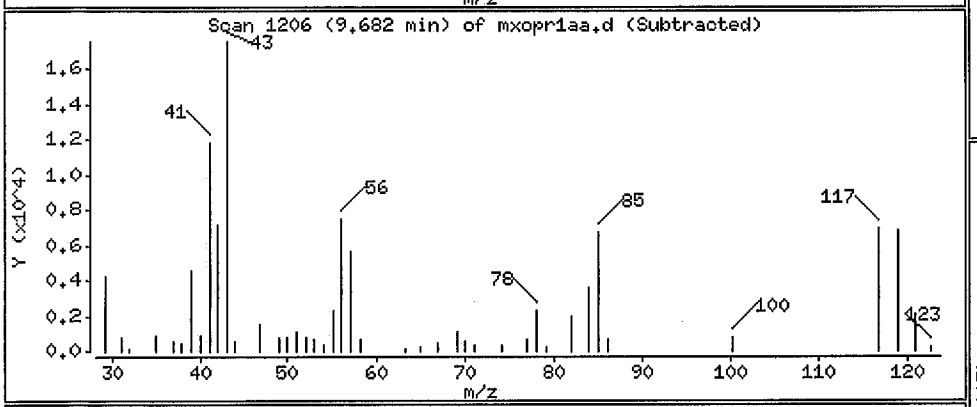
Column phase: Rtx-5

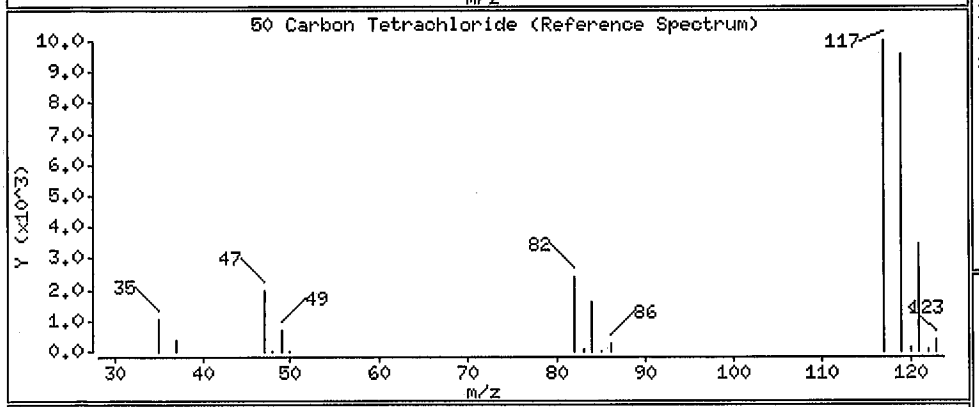
Column diameter: 0.32

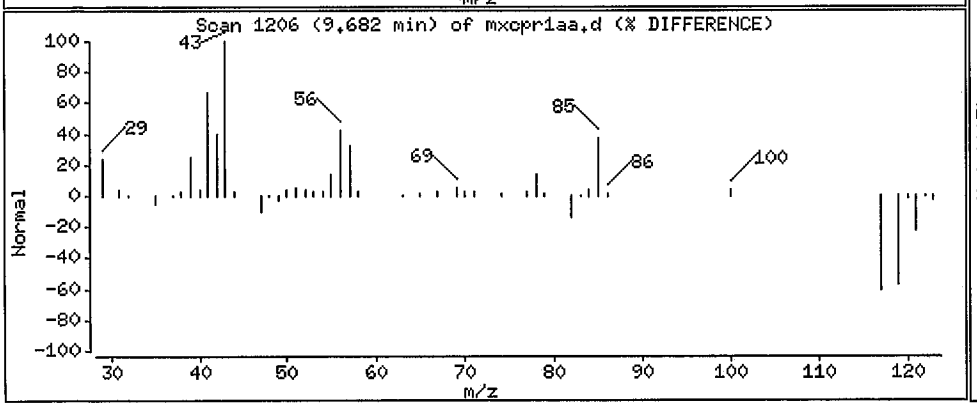
50 Carbon Tetrachloride

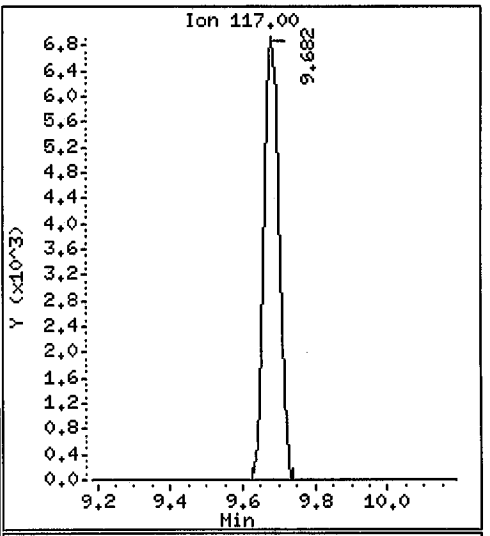
Concentration: 0.07564 ppb(v/v)

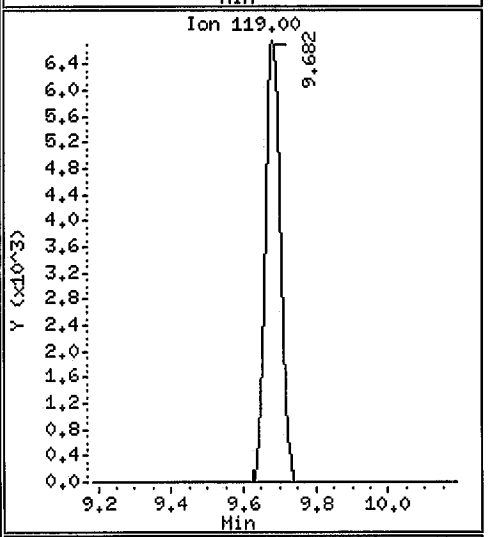


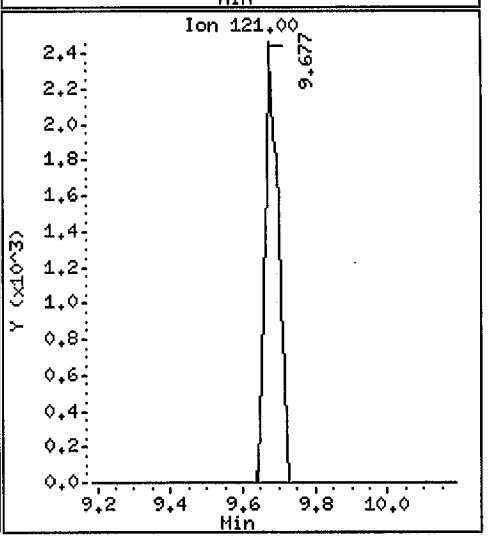












Data File: /var/chem/gcms/me.i/E111812.b/mxcpr1aa.d

Date : 18-NOV-2012 19:53

Client ID: 56-SS

Instrument: me.i

Sample Info: ,,0,,,

Purge Volume: 500.0

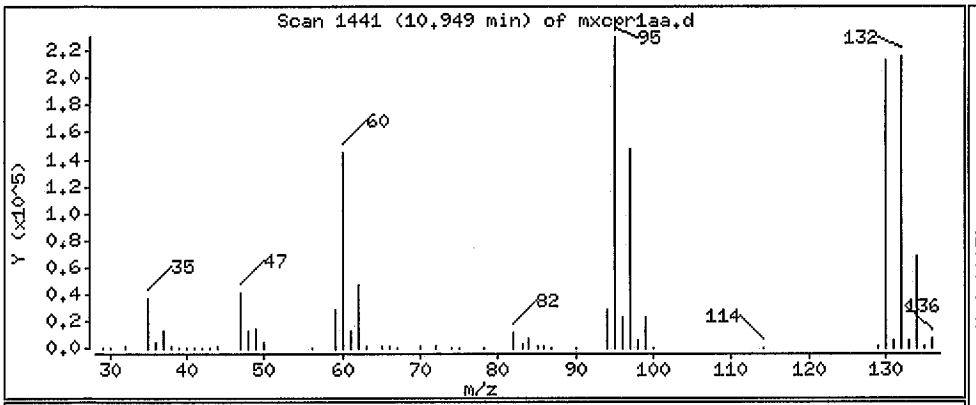
Operator: 403648

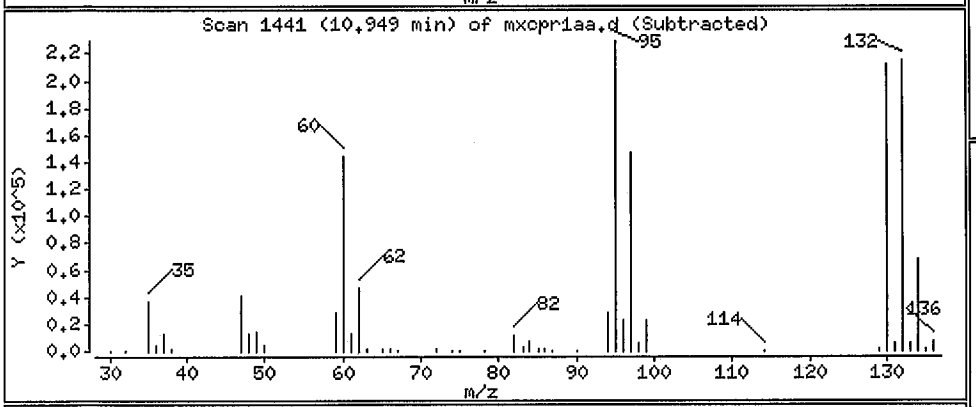
Column phase: Rtx-5

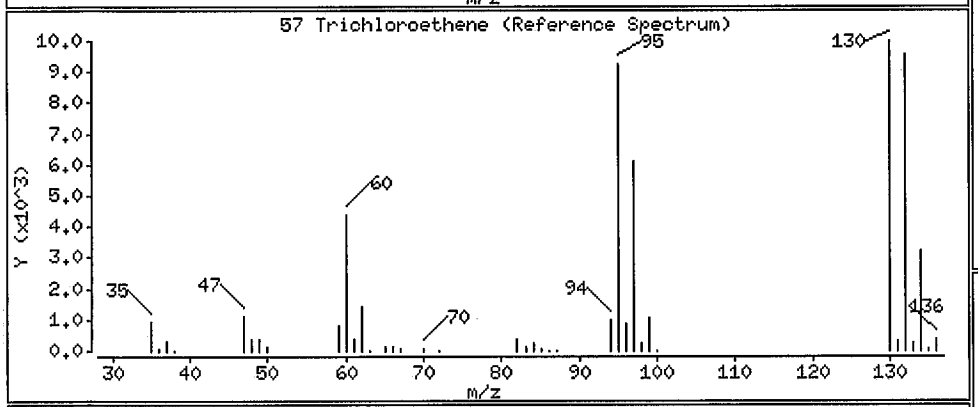
Column diameter: 0.32

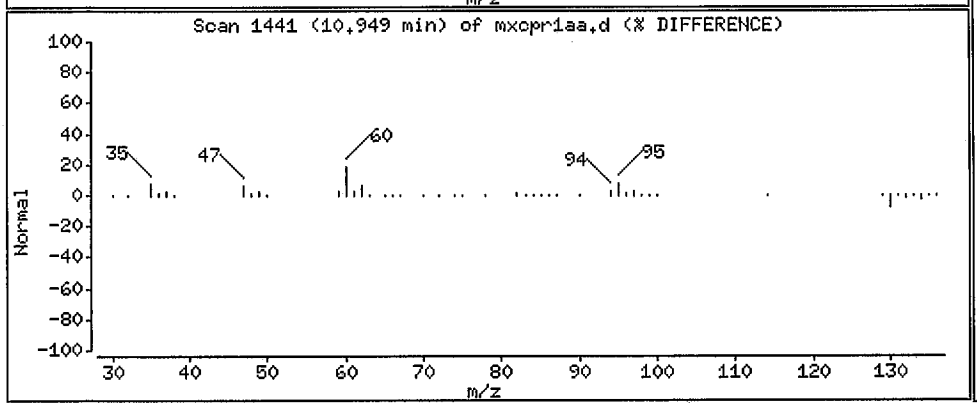
57 Trichloroethene

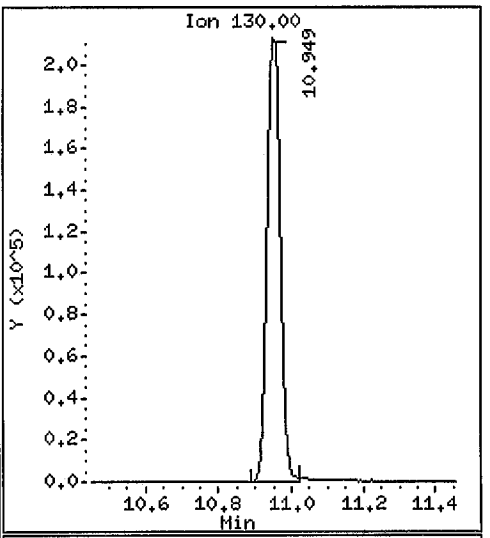
Concentration: 3.529 ppb(v/v)

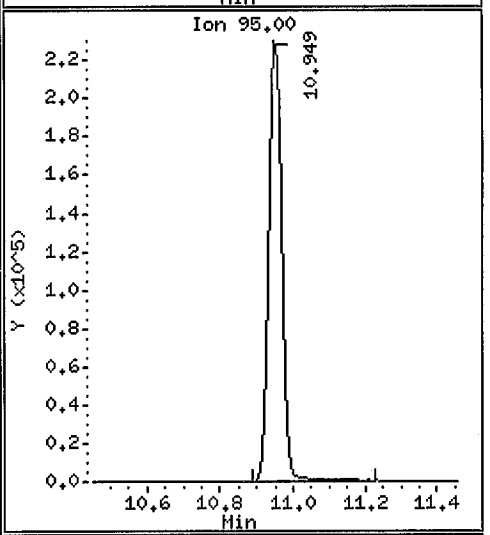


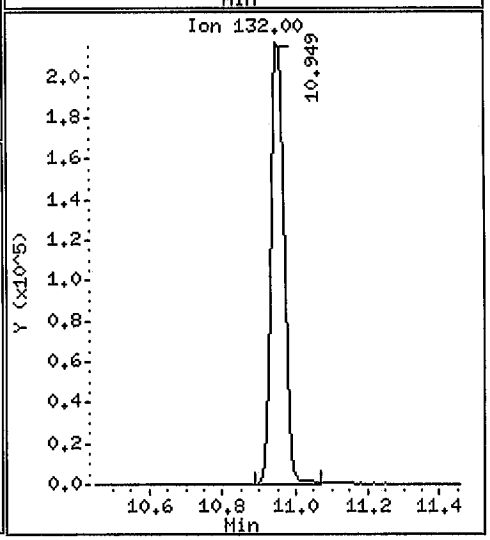












Data File: /var/chem/gcms/me.i/E111812.b/mxcpr1aa.d

Date : 18-NOV-2012 19:53

Client ID: 56-SS

Instrument: me.i

Sample Info: ,,0,,,

Purge Volume: 500.0

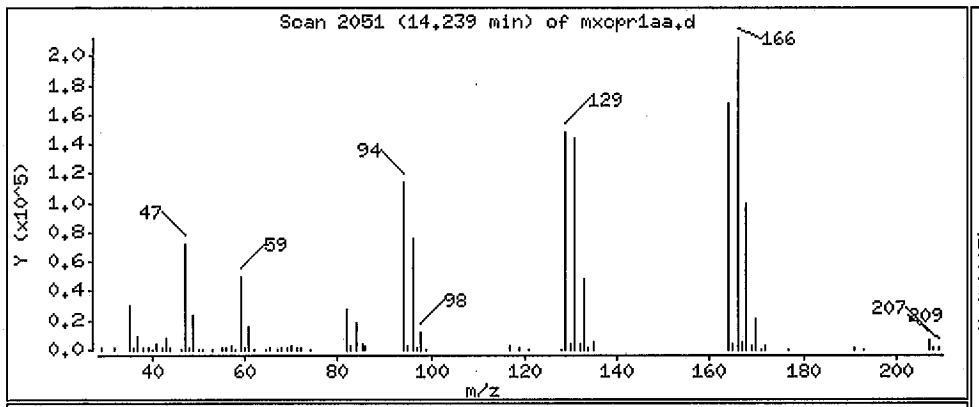
Operator: 403648

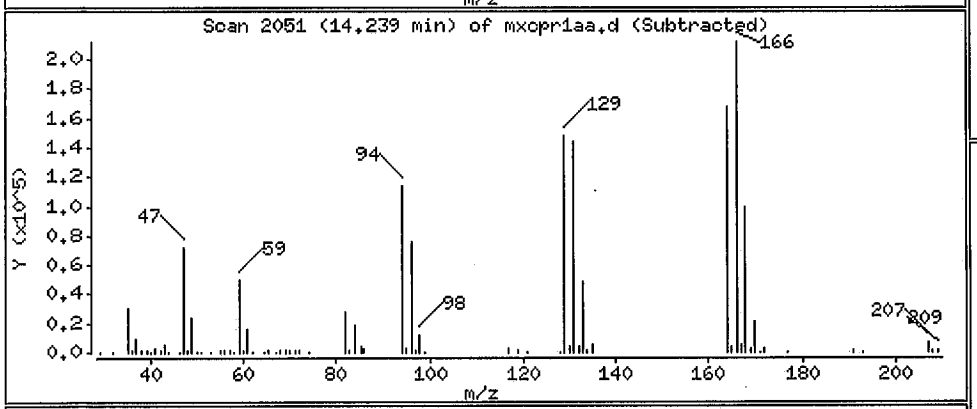
Column phase: Rtx-5

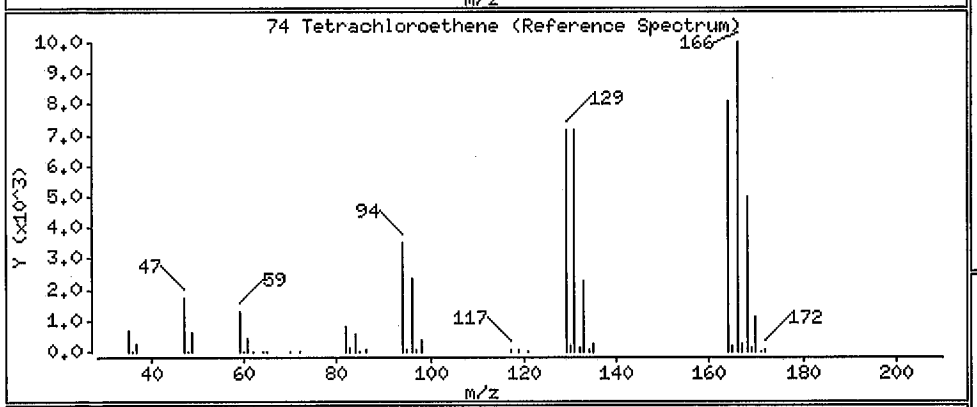
Column diameter: 0.32

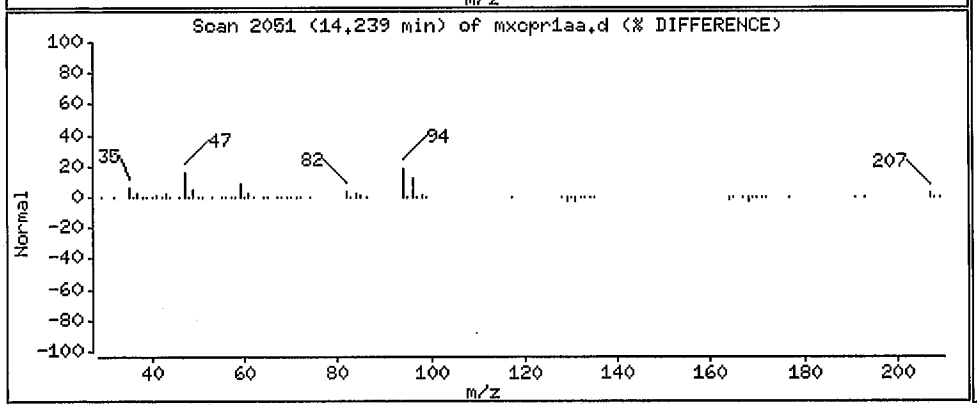
74 Tetrachloroethene

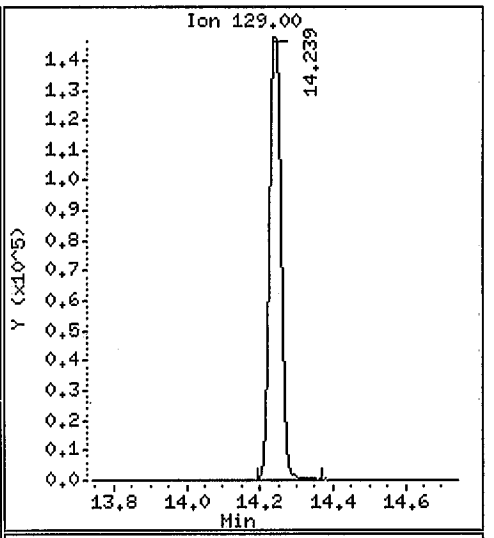
Concentration: 2.084 ppb(v/v)

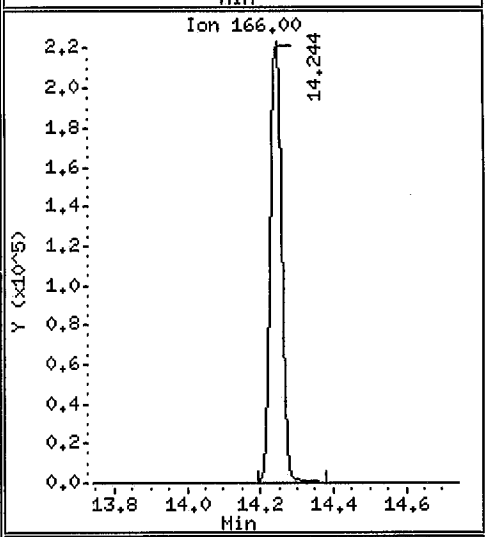


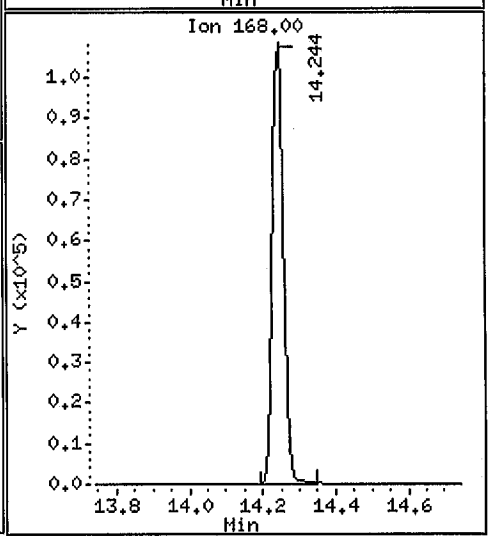












New York State D.E.C

Client Sample ID: 56-BA1

GC/MS Volatiles

Lot-Sample #	H2K150429 - 002	**Work Order #**	MXCPT1AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/18/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.091**	**0.040**	**0.57**	**0.25**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	**0.20**	**0.080**	**1.3**	**0.54**
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	**0.28**	**0.040**	**1.5**	**0.21**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	106	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/me.i/E111812.b/mxcpt1aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E111812.b/mxcpt1aa.d
Lab Smp Id: MXCPT1AA Client Smp ID: 56-BA1
Inj Date : 18-NOV-2012 20:50
Operator : 403648 Inst ID: me.i
Smp Info : ,,0,,,
Misc Info : E111812,TO155,axi.sub,,
Comment :
Method : /var/chem/gcms/me.i/E111812.b/TO155.m
Meth Date : 19-Nov-2012 10:08 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 15:34 Cal File: eick072.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: axi.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.097	8.097	(1.000)	260252	4.00000	4.000
* 2 1,4-Difluorobenzene	114	10.227	10.227	(1.000)	1373677	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.085	15.085	(1.000)	1186968	4.00000	4.000
$ 4 4-Bromofluorobenzene	95	16.762	16.762	(1.111)	935017	4.23586	4.236
50 Carbon Tetrachloride	117	9.682	9.688	(0.947)	22352	0.09085	0.09085
57 Trichloroethene	130	10.955	10.955	(1.071)	39641	0.28376	0.2838
74 Tetrachloroethene	129	14.244	14.244	(0.944)	26944	0.19810	0.1981

Data File: /var/chem/gcms/me.i/E111812.b/mxcpt1aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: me.i
Lab File ID: mxcpt1aa.d
Lab Smp Id: MXCPT1AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 403648
Calibration Date: 18-NOV-2012
Calibration Time: 14:50
Client Smp ID: 56-BA1
Level: LOW
Sample Type: AIR
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	292927	174292	411562	260252	-11.15
2 1,4-Difluorobenze	1503226	894419	2112033	1373677	-8.62
3 Chlorobenzene-d5	1358775	808471	1909079	1186968	-12.64

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.10	7.77	8.43	8.10	0.00
2 1,4-Difluorobenze	10.23	9.90	10.56	10.23	0.00
3 Chlorobenzene-d5	15.09	14.76	15.42	15.09	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

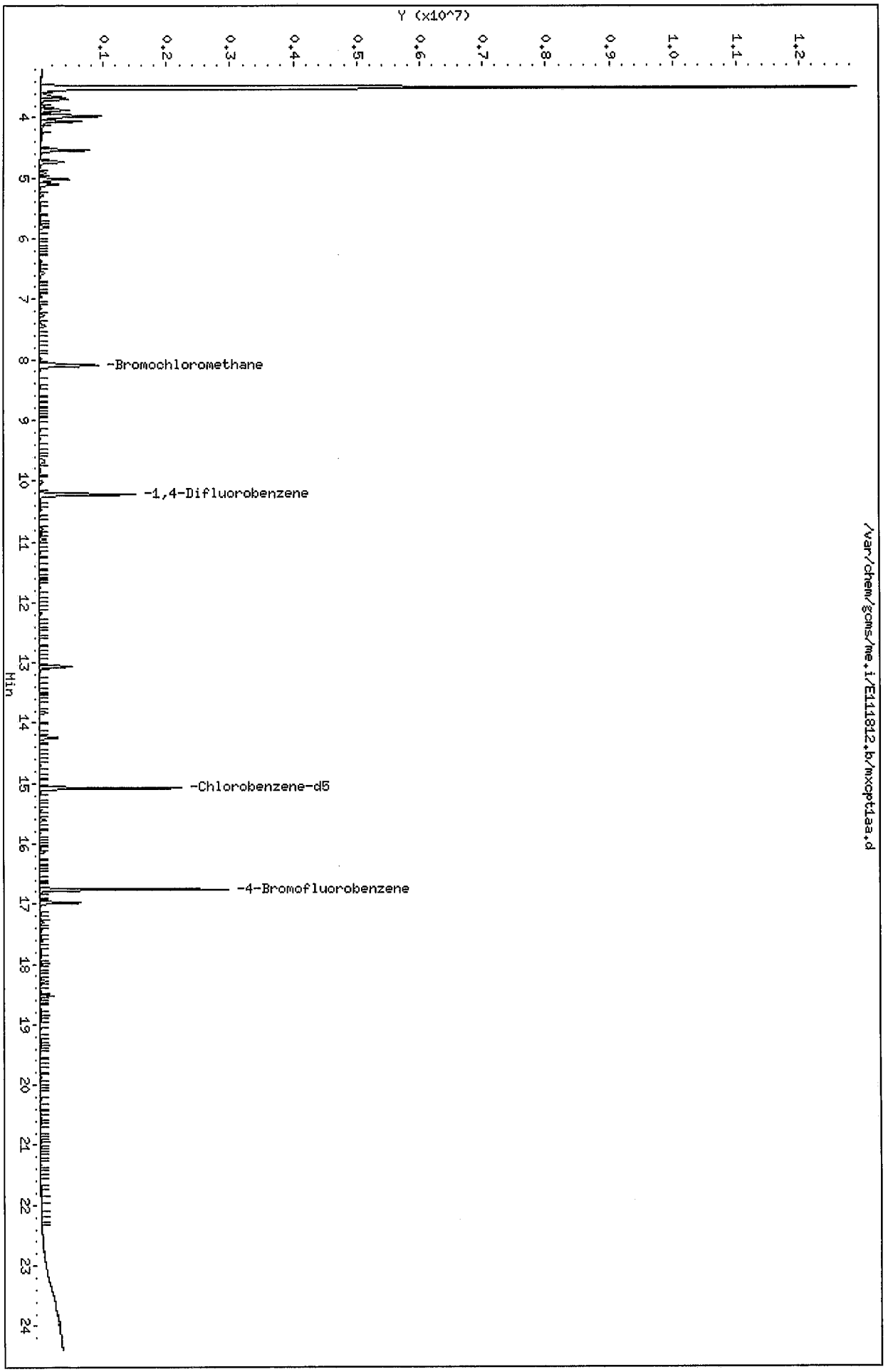
Data File: /var/chem/gcms/me.i/E111812.b/mxcpt1aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

RECOVERY REPORT

Client Name: New York State D.E.C15-NOV-2012 00:00 Client SDG: H2K150429
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MXCPT1AA Client Smp ID: 56-BA1
Level: LOW Operator: 403648
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allplus.spk Quant Type: ISTD
Sublist File: axi.sub
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.236	105.90	70-130


Data File: /var/chem/gcms/me.i/E111812.b/mxcptlaa.d
Date : 18-NOV-2012 20:50
Client ID: 56-Bd1
Sample Info: ,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5
Instrument: me.i
Operator: 403648
Column diameter: 0.32
/var/chem/gcms/me.i/E111812.b/mxcptlaa.d
Y (x10^7)
Min
-Bromochloromethane
-1,4-Difluorobenzene
-Chlorobenzene-d5
-4-Bromofluorobenzene

Data File: /var/chem/gcms/me.i/E111812.b/mxcpt1aa.d

Date : 18-NOV-2012 20:50

Client ID: 56-BA1

Instrument: me.i

Sample Info: ,,0,,,

Purge Volume: 500.0

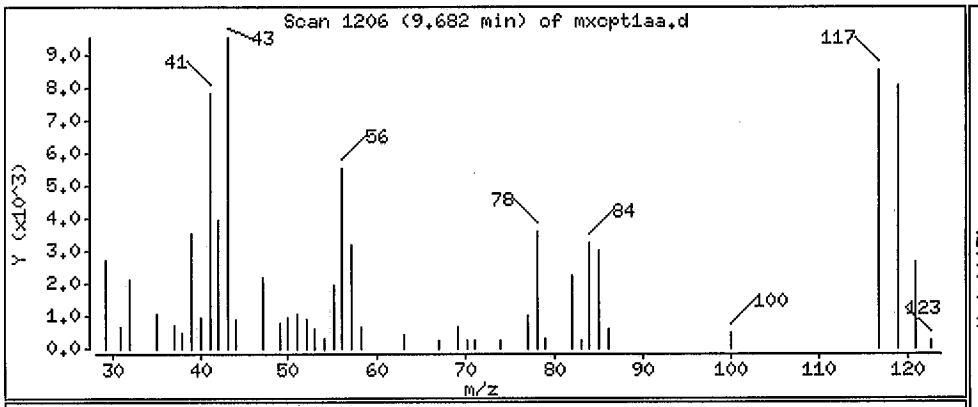
Operator: 403648

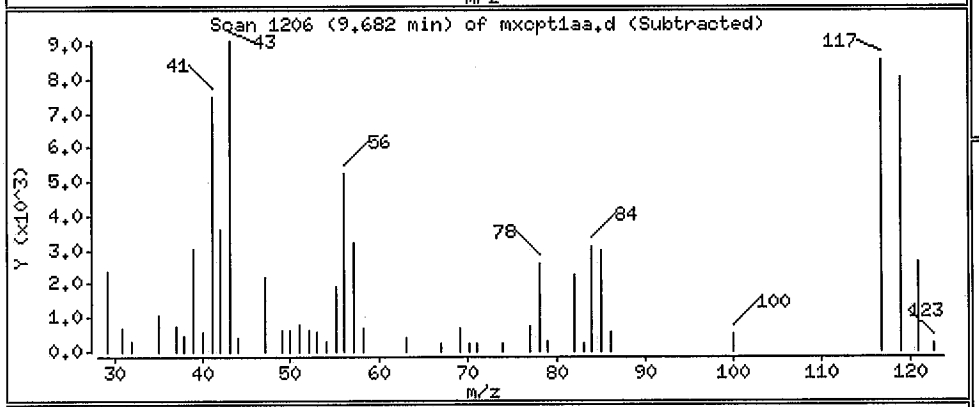
Column phase: Rtx-5

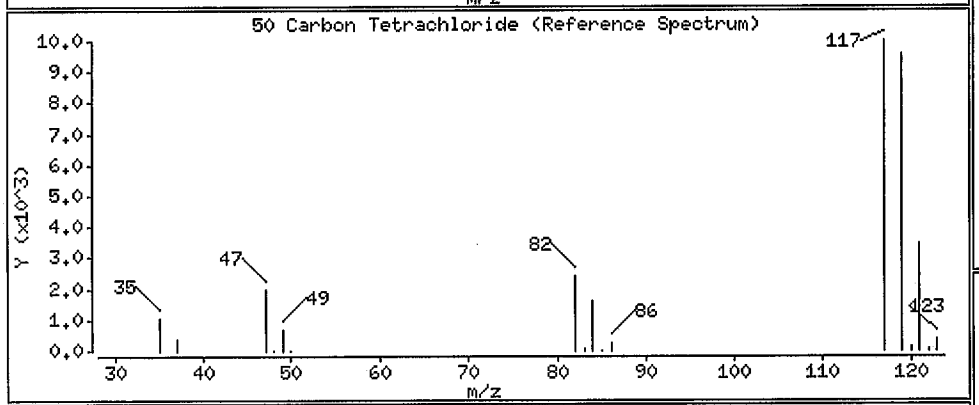
Column diameter: 0.32

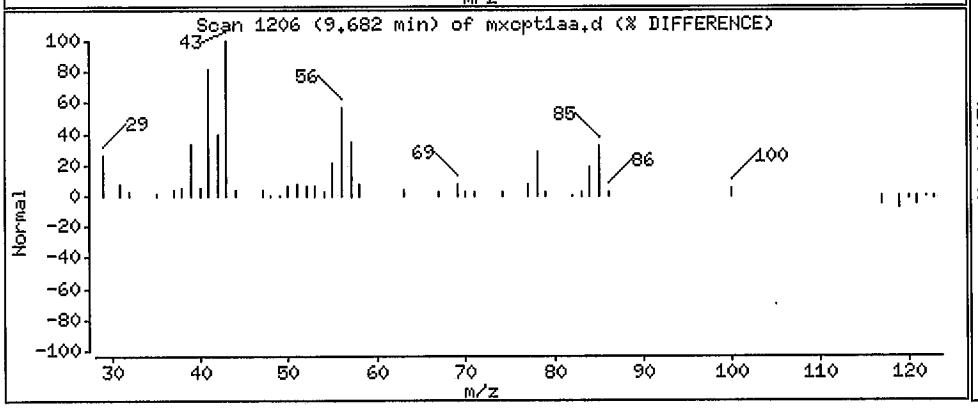
50 Carbon Tetrachloride

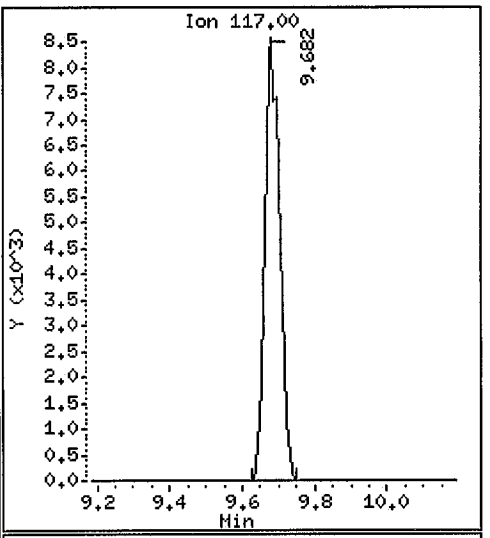
Concentration: 0.09085 ppb(v/v)

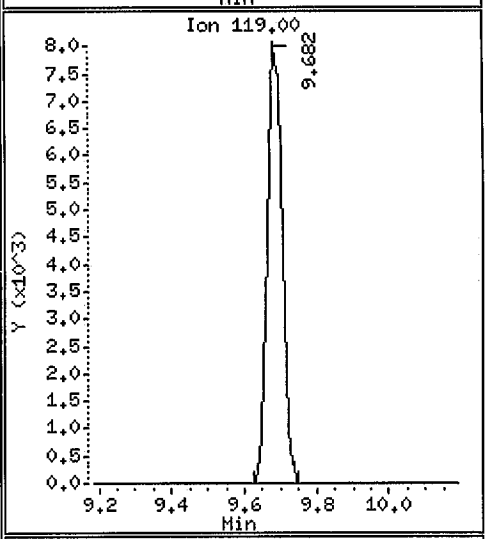


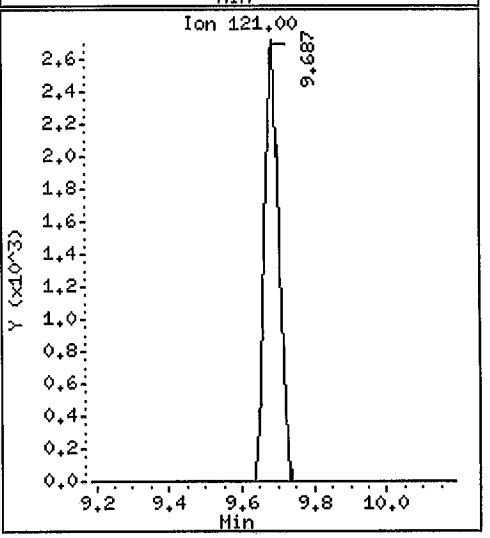












Data File: /var/chem/gcms/me.i/E111812.b/mxopt1aa.d

Date : 18-NOV-2012 20:50

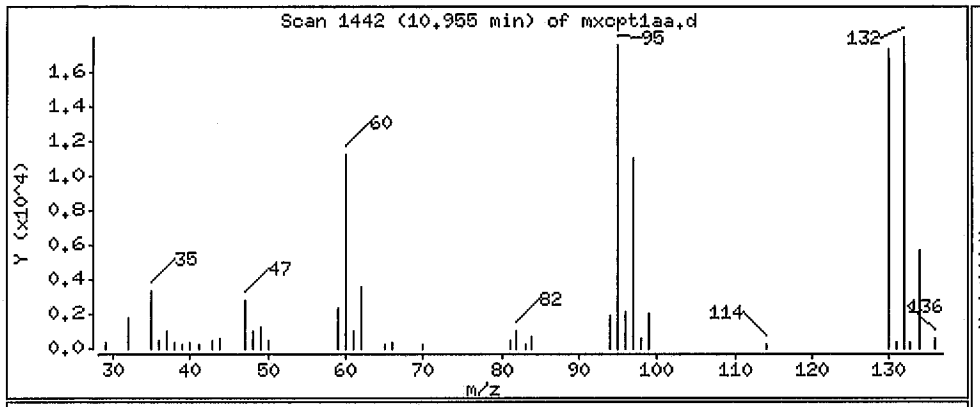
Client ID: 56-BA1 Instrument: me.i

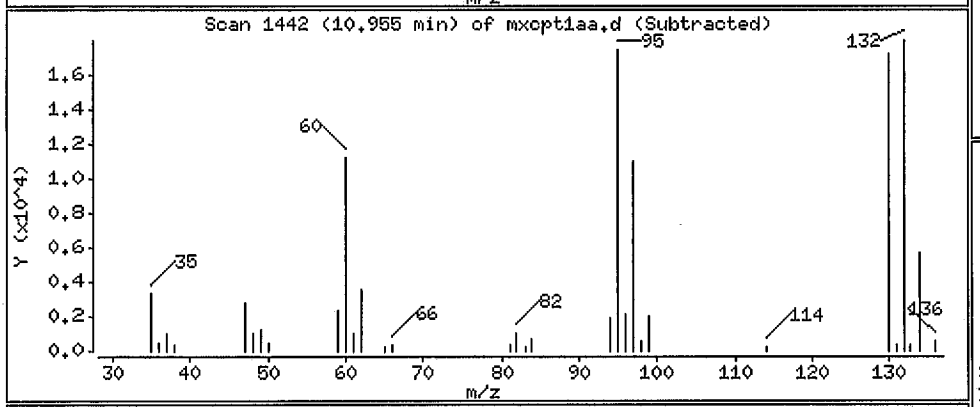
Sample Info: ,,0,,,

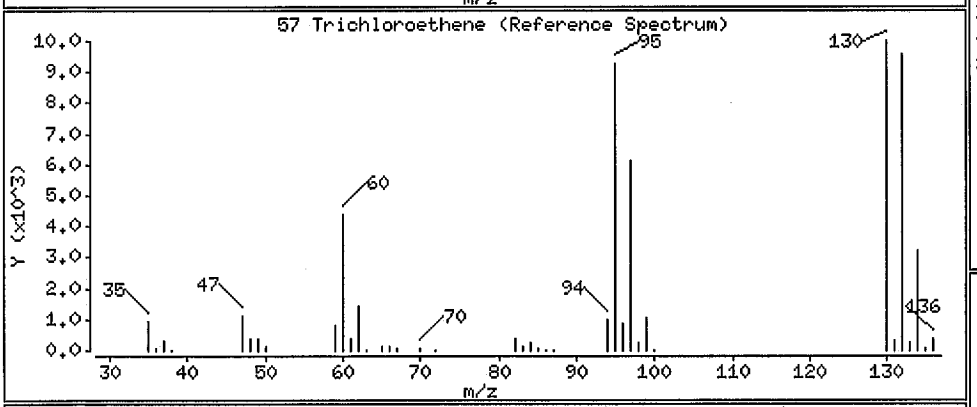
Purge Volume: 500.0 Operator: 403648

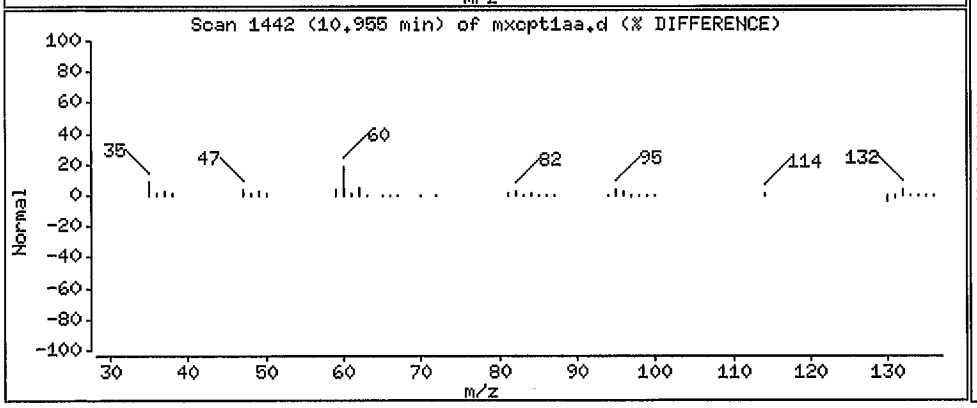
Column phase: Rtx-5 Column diameter: 0.32

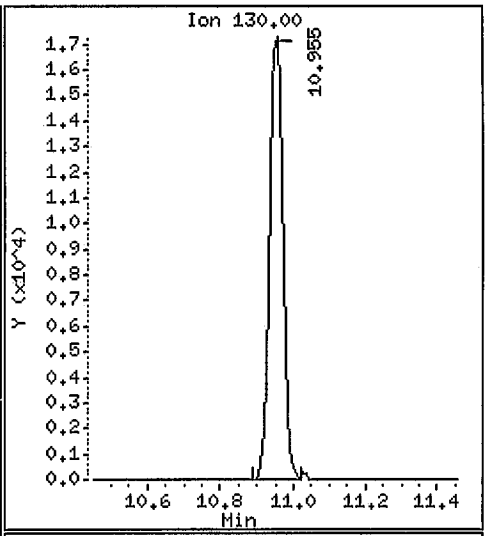
57 Trichloroethene Concentration: 0.2838 ppb(v/v)

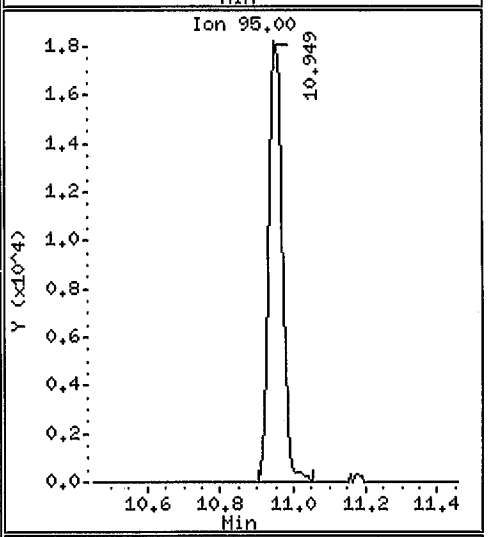


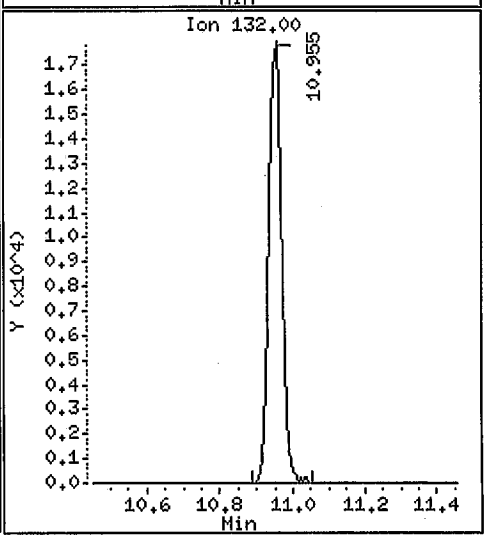












Data File: /var/chem/gcms/me.i/E111812.b/mxopt1aa.d

Date : 18-NOV-2012 20:50

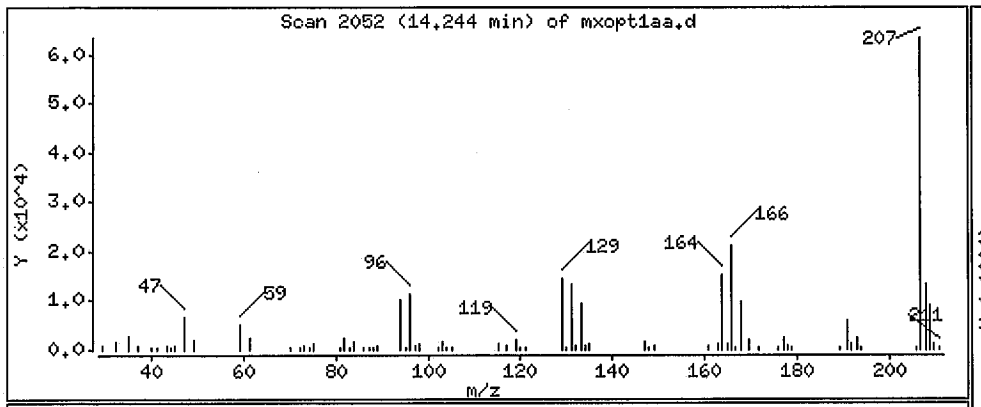
Client ID: 56-BA1 Instrument: me.i

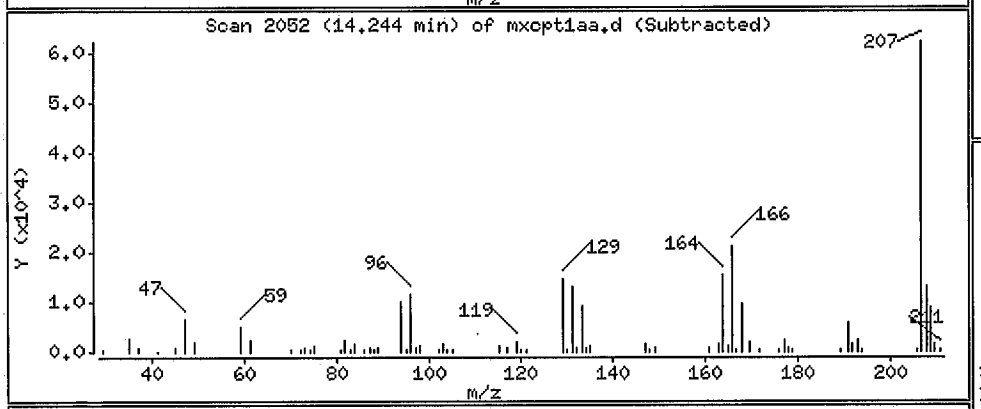
Sample Info: ,,0,,,

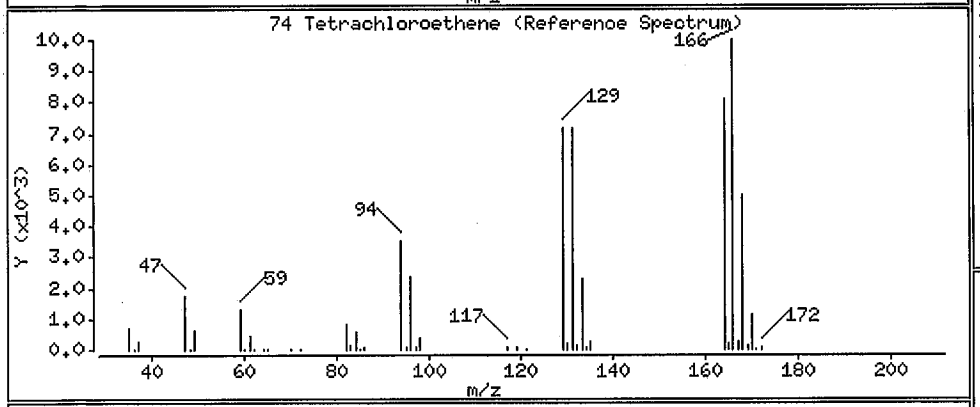
Purge Volume: 500.0 Operator: 403648

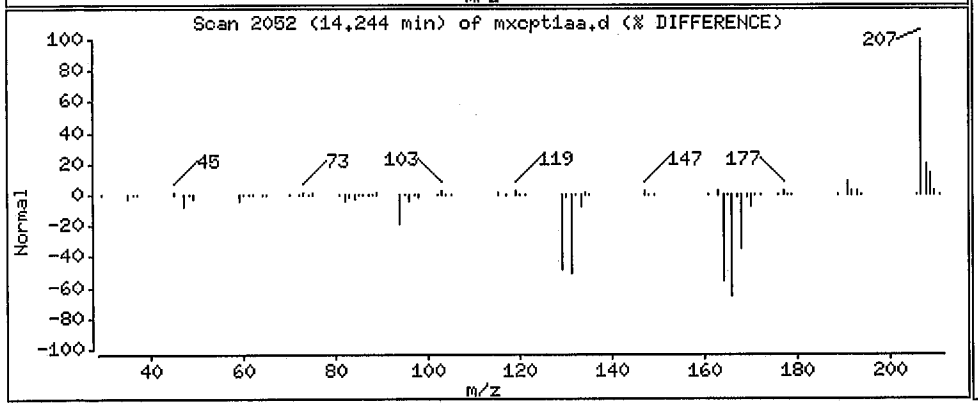
Column phase: Rtx-5 Column diameter: 0.32

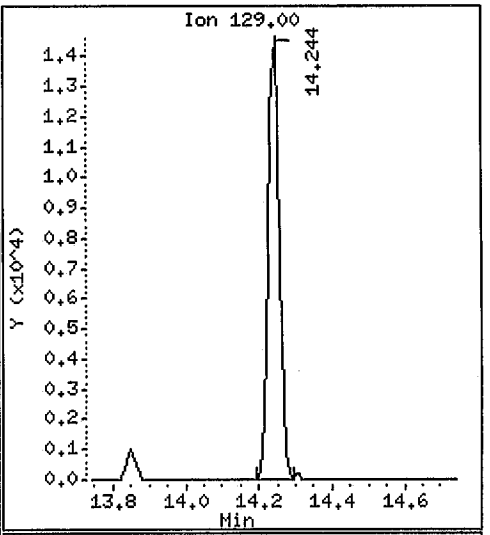
74 Tetrachloroethene Concentration: 0.1981 ppb(v/v)

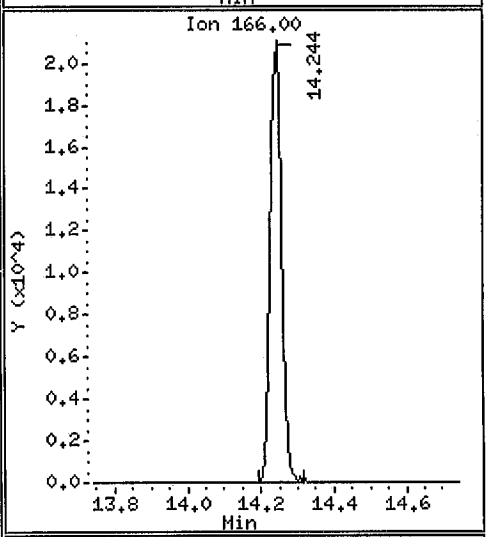


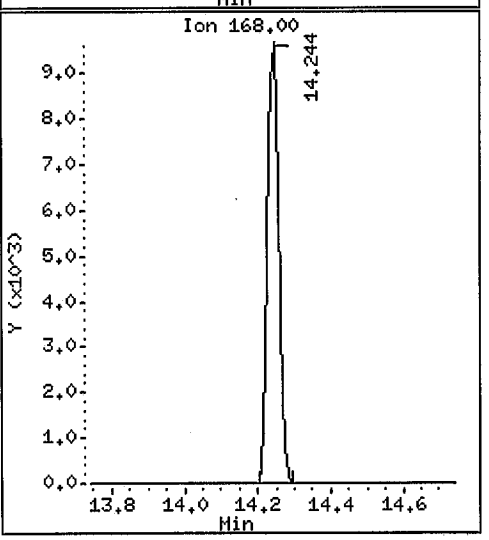












New York State D.E.C

Client Sample ID: 56-BA2

GC/MS Volatiles

Lot-Sample #	H2K150429 - 003	**Work Order #**	MXCPV1AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/18/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.094**	**0.040**	**0.59**	**0.25**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	ND	0.080	ND	0.54
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichlorocthene	**0.078**	**0.040**	**0.42**	**0.21**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	106	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/me.i/E111812.b/mxcpv1aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E111812.b/mxcpv1aa.d
Lab Smp Id: MXCPV1AA Client Smp ID: 56-BA2
Inj Date : 18-NOV-2012 21:47
Operator : 403648 Inst ID: me.i
Smp Info : ,,0,,,
Misc Info : E111812,TO155,axi.sub,,
Comment :
Method : /var/chem/gcms/me.i/E111812.b/TO155.m
Meth Date : 19-Nov-2012 10:08 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 15:34 Cal File: eick072.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: axi.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
*	1 Bromochloromethane	128	8.091	8.097	(1.000)	257721	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.227	10.227	(1.000)	1316714	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.085	15.085	(1.000)	1130313	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.762	16.762	(1.111)	892435	4.24560	4.246
	50 Carbon Tetrachloride	117	9.677	9.688	(0.946)	22287	0.09450	0.09450
	57 Trichloroethene	130	10.949	10.955	(1.071)	10402	0.07769	0.07769

Data File: /var/chem/gcms/me.i/E111812.b/mxcpv1aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: me.i
Lab File ID: mxcpv1aa.d
Lab Smp Id: MXCPV1AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 403648
Calibration Date: 18-NOV-2012
Calibration Time: 14:50
Client Smp ID: 56-BA2
Level: LOW
Sample Type: AIR
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	292927	174292	411562	257721	-12.02
2 1,4-Difluorobenze	1503226	894419	2112033	1316714	-12.41
3 Chlorobenzene-d5	1358775	808471	1909079	1130313	-16.81

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.10	7.77	8.43	8.09	-0.07
2 1,4-Difluorobenze	10.23	9.90	10.56	10.23	0.00
3 Chlorobenzene-d5	15.09	14.76	15.42	15.09	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/me.i/E111812.b/mxcpv1aa.d
Report Date: 19-Nov-2012 10:09

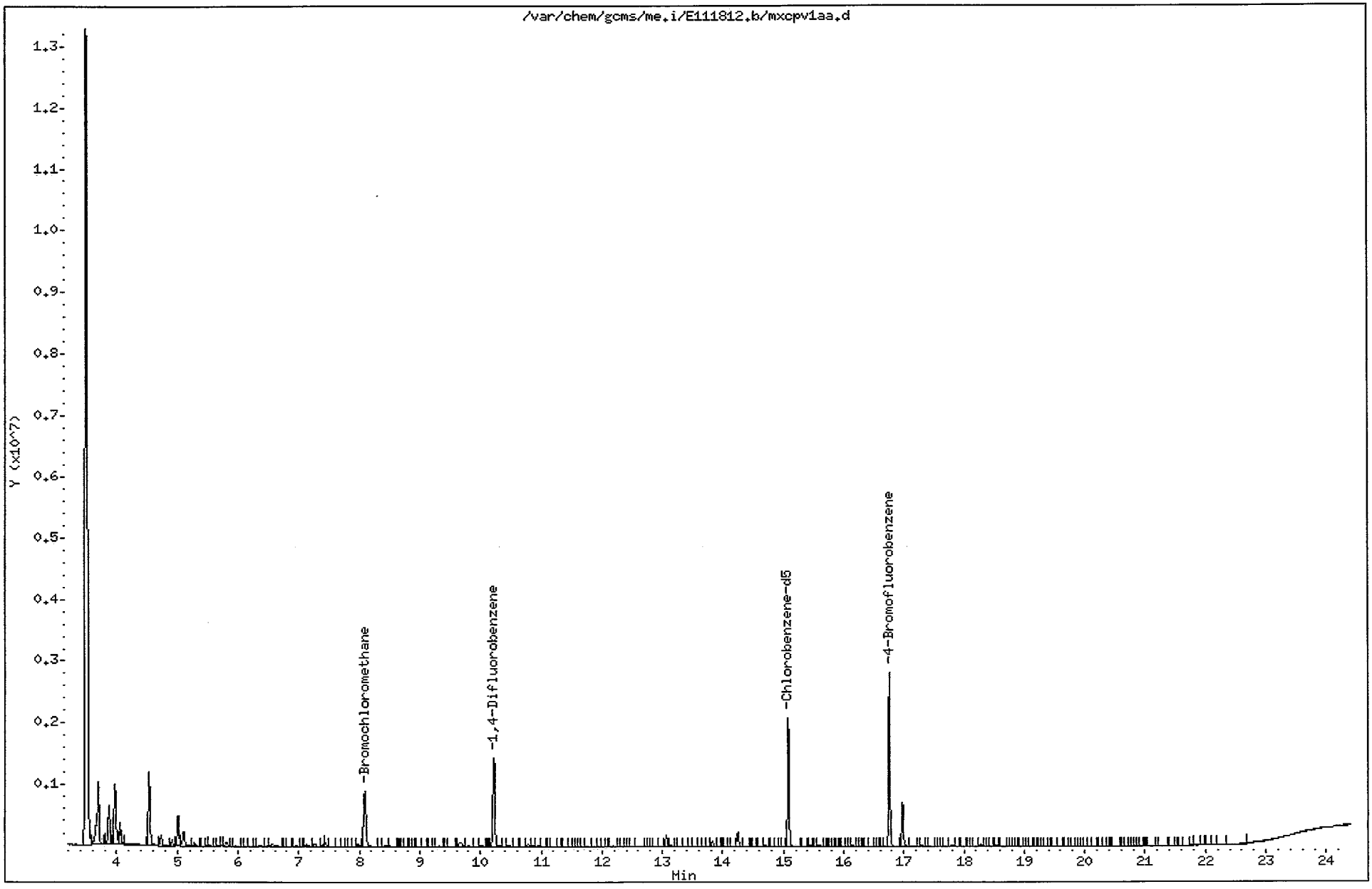
TestAmerica Knoxville

RECOVERY REPORT

Client Name: New York State D.E.C15-NOV-2012 00:00 Client SDG: H2K150429
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MXCPV1AA Client Smp ID: 56-BA2
Level: LOW Operator: 403648
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allplus.spk Quant Type: ISTD
Sublist File: axi.sub
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.246	106.14	70-130

Data File: /var/chem/gcms/me.i/E111812.b/mxcpv1aa.d
Date : 18-NOV-2012 21:47
Client ID: 56-BA2
Instrument: me.i
Sample Info: ,,0,,,
Purge Volume: 500.0
Operator: 403648
Column phase: Rtx-5
Column diameter: 0.32



Data File: /var/chem/gcms/me.i/E111812.b/mxcpv1aa.d

Date : 18-NOV-2012 21:47

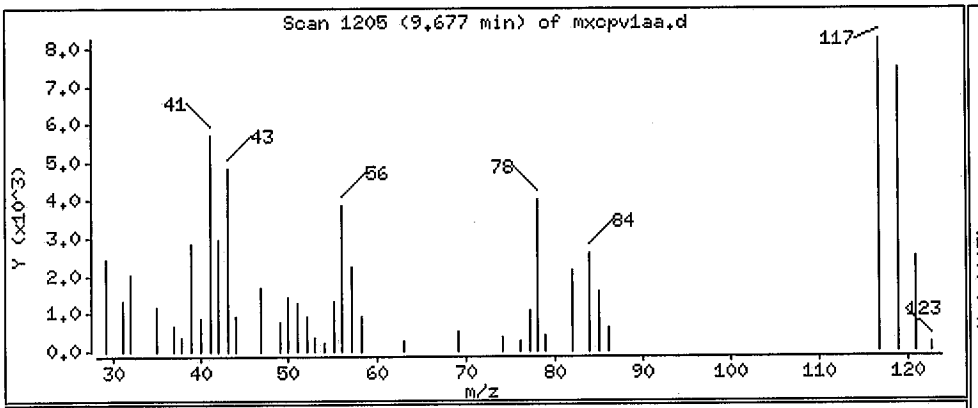
Client ID: 56-BA2 Instrument: me.i

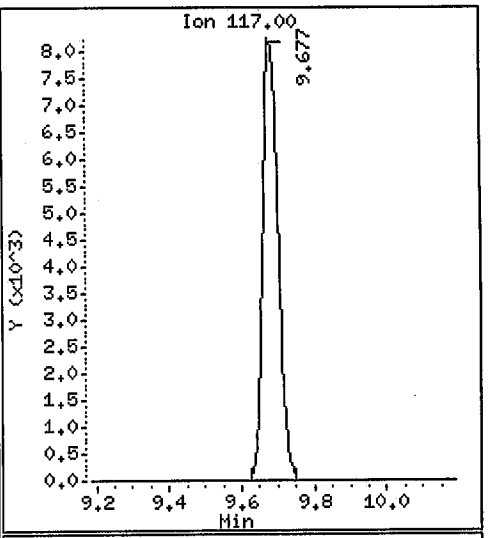
Sample Info: ,,0,,,

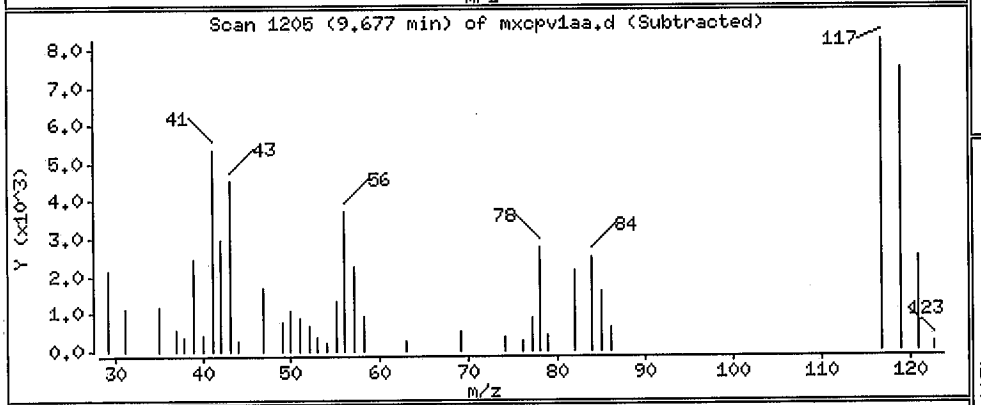
Purge Volume: 500.0 Operator: 403648

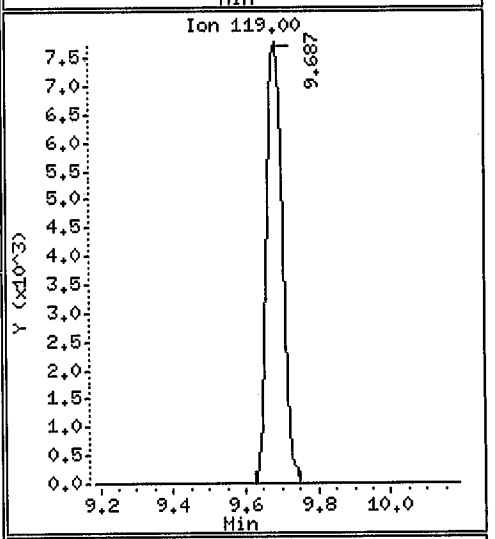
Column phase: Rtx-5 Column diameter: 0.32

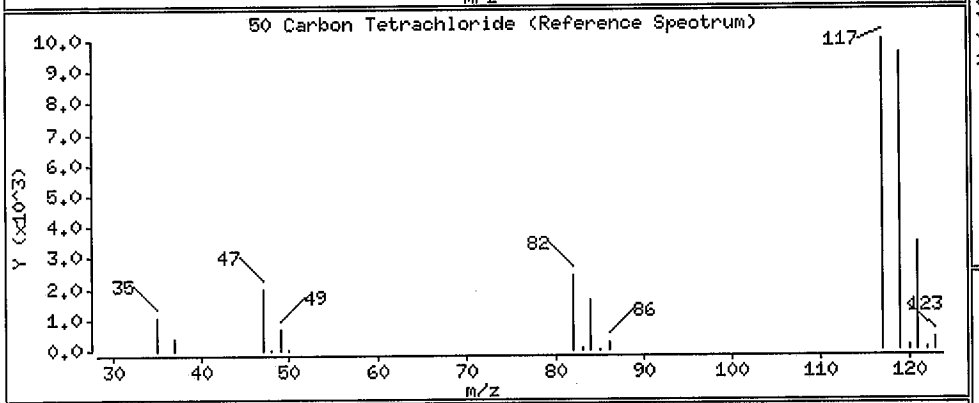
50 Carbon Tetrachloride Concentration: 0.09450 ppb(v/v)

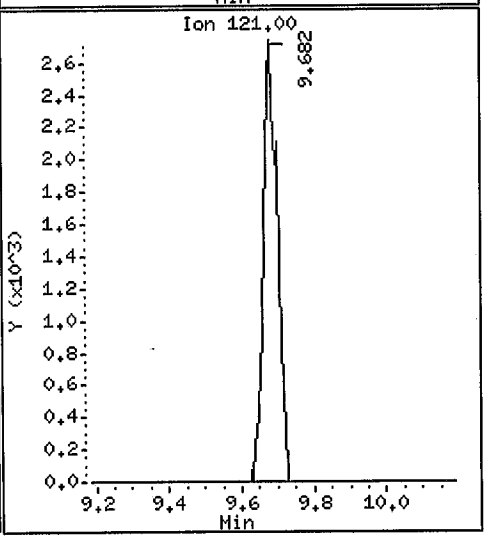


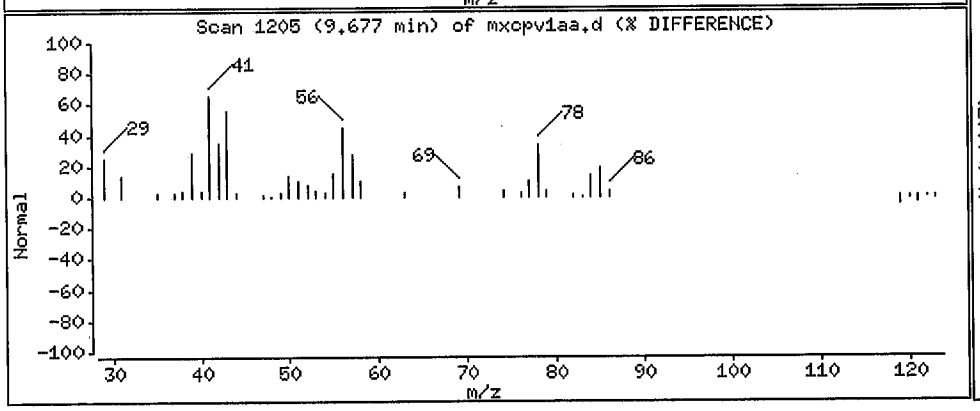












Data File: /var/chem/gcms/me.i/E111812.b/mxopv1aa.d

Date : 18-NOV-2012 21:47

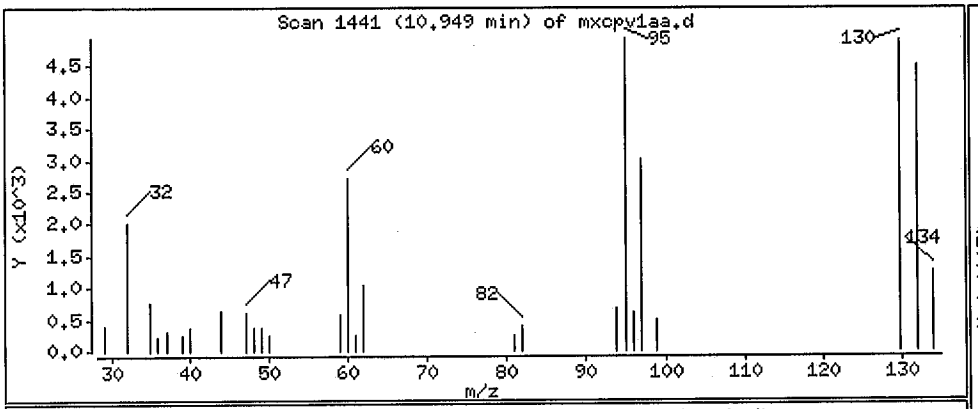
Client ID: 56-BA2 Instrument: me.i

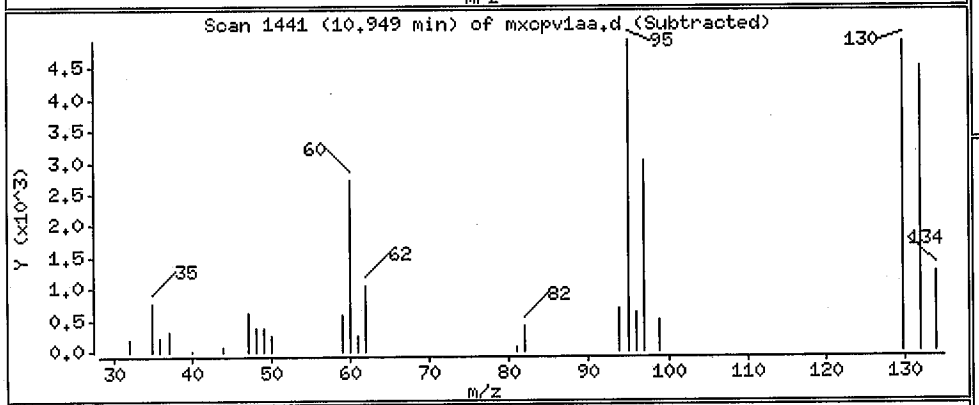
Sample Info: ,,0,,,

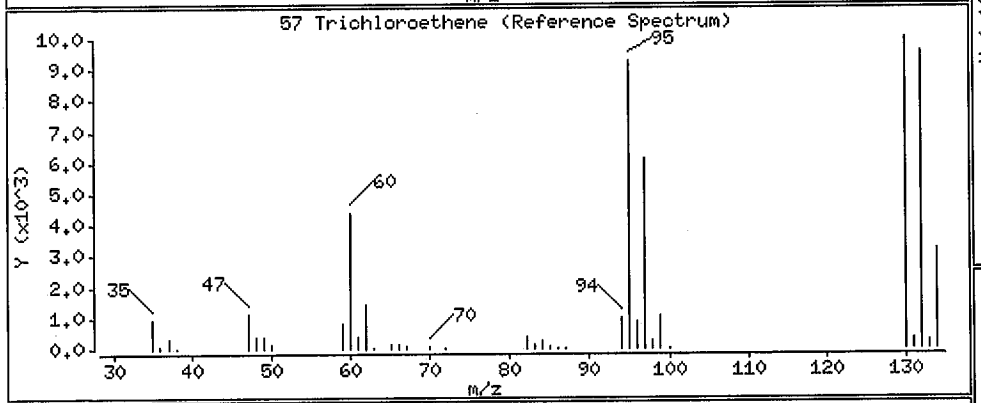
Purge Volume: 500.0 Operator: 403648

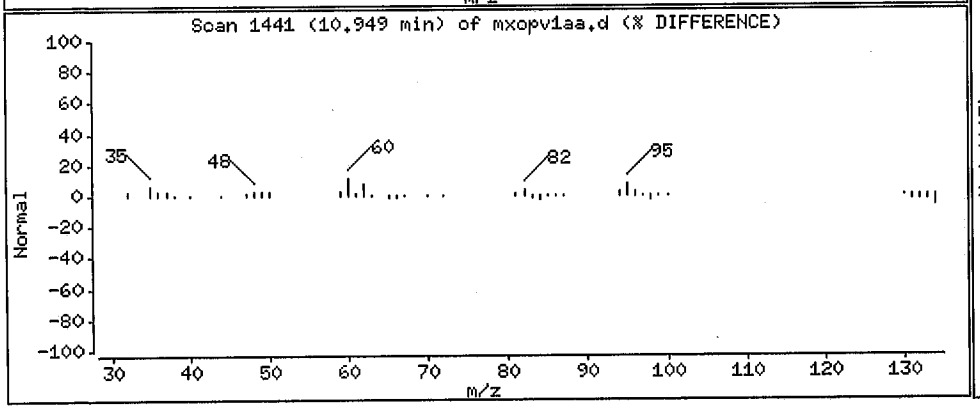
Column phase: Rtx-5 Column diameter: 0.32

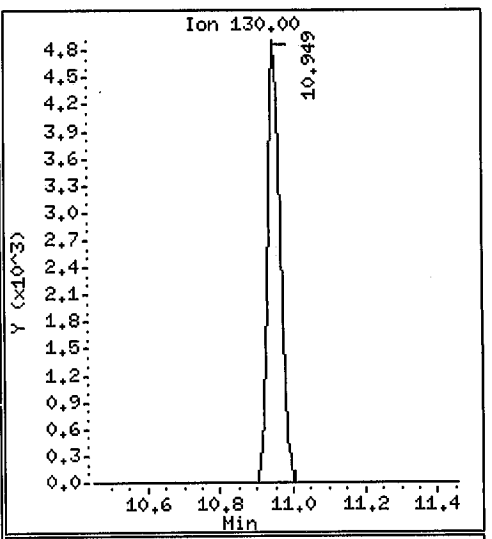
57 Trichloroethene Concentration: 0.07769 ppb(v/v)

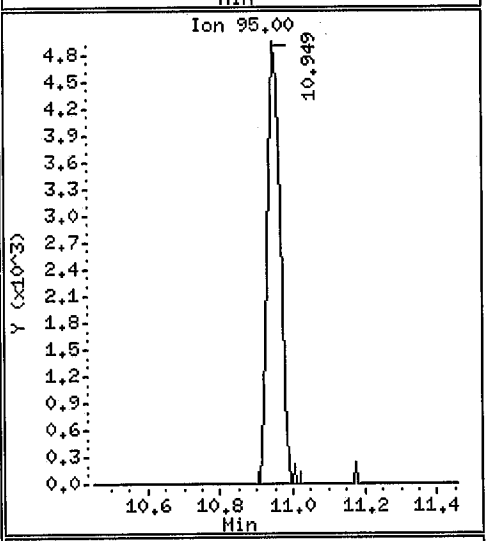


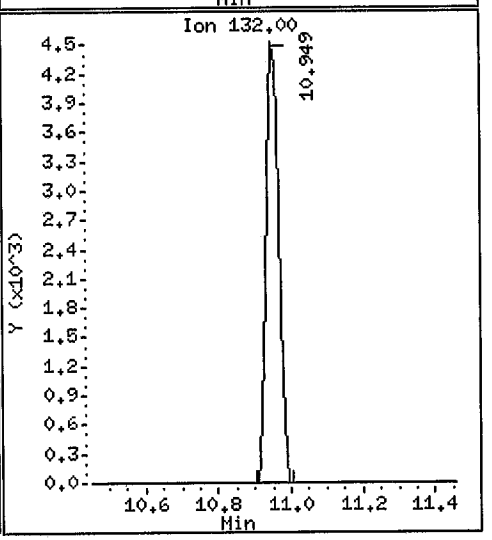












New York State D.E.C

Client Sample ID: 56-AA

GC/MS Volatiles

Lot-Sample #	H2K150429 - 004	**Work Order #**	MXCPW1AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/18/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.11**	**0.040**	**0.70**	**0.25**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	ND	0.080	ND	0.54
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	111	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/me.i/E111812.b/mxcpw1aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E111812.b/mxcpw1aa.d
Lab Smp Id: MXCPW1AA Client Smp ID: 56-AA
Inj Date : 18-NOV-2012 22:43
Operator : 403648 Inst ID: me.i
Smp Info : ,,0,,,
Misc Info : E111812,TO155,axi.sub,,
Comment :
Method : /var/chem/gcms/me.i/E111812.b/TO155.m
Meth Date : 19-Nov-2012 10:08 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 15:34 Cal File: eick072.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: axi.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.091	8.097	(1.000)	221609	4.00000	4.000
* 2 1,4-Difluorobenzene	114	10.227	10.227	(1.000)	1043326	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.085	15.085	(1.000)	977304	4.00000	4.000
$ 4 4-Bromofluorobenzene	95	16.757	16.762	(1.111)	806272	4.43621	4.436
50 Carbon Tetrachloride	117	9.688	9.688	(0.947)	20881	0.11174	0.1117

Data File: /var/chem/gcms/me.i/E111812.b/mxcpw1aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: me.i
Lab File ID: mxcpw1aa.d
Lab Smp Id: MXCPW1AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 403648
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

Calibration Date: 18-NOV-2012
Calibration Time: 14:50
Client Smp ID: 56-AA
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	292927	174292	411562	221609	-24.35
2 1,4-Difluorobenze	1503226	894419	2112033	1043326	-30.59
3 Chlorobenzene-d5	1358775	808471	1909079	977304	-28.07

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.10	7.77	8.43	8.09	-0.07
2 1,4-Difluorobenze	10.23	9.90	10.56	10.23	0.00
3 Chlorobenzene-d5	15.09	14.76	15.42	15.09	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

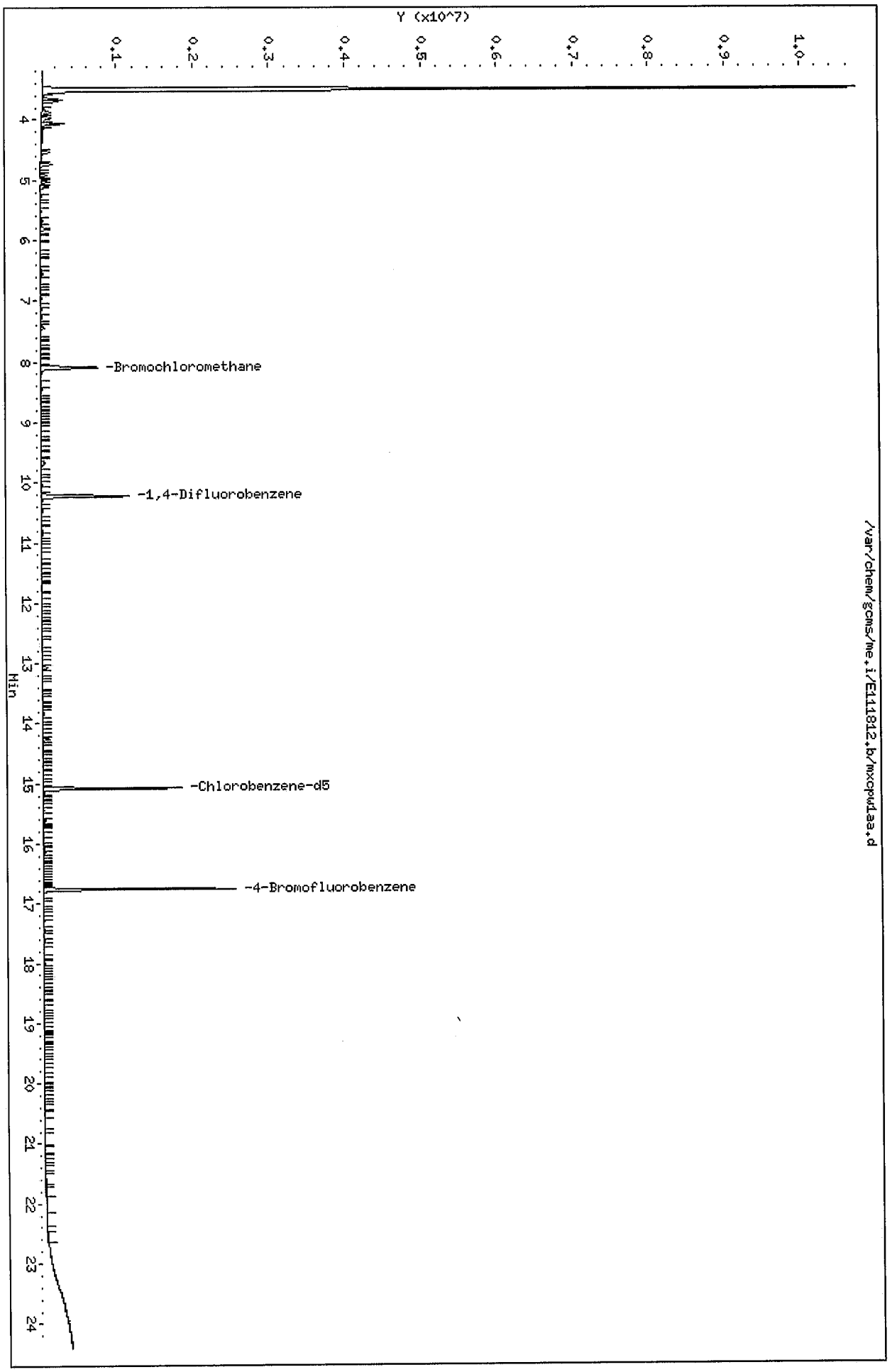
Data File: /var/chem/gcms/me.i/E111812.b/mxcpw1aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

RECOVERY REPORT

Client Name: New York State D.E.C15-NOV-2012 00:00 Client SDG: H2K150429
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MXCPW1AA Client Smp ID: 56-AA
Level: LOW Operator: 403648
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allplus.spk Quant Type: ISTD
Sublist File: axi.sub
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.436	110.91	70-130


Data File: /var/chem/gcms/me.i/E111812.b/mxopwiaa.d
Date : 18-NOV-2012 22:43
Client ID: 56-AA
Sample Info: ,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5
Instrument: me.i
Operator: 403648
Column diameter: 0.32
/var/chem/gcms/me.i/E111812.b/mxopwiaa.d
Y (x10^7)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
Min
-Bromochloromethane
-1,4-Difluorobenzene
-Chlorobenzene-d5
-4-Bromofluorobenzene

Data File: /var/chem/gcms/me.i/E111812.b/mxcpw1aa.d

Date : 18-NOV-2012 22:43

Client ID: 56-AA

Instrument: me.i

Sample Info: ,,0,,,

Purge Volume: 500.0

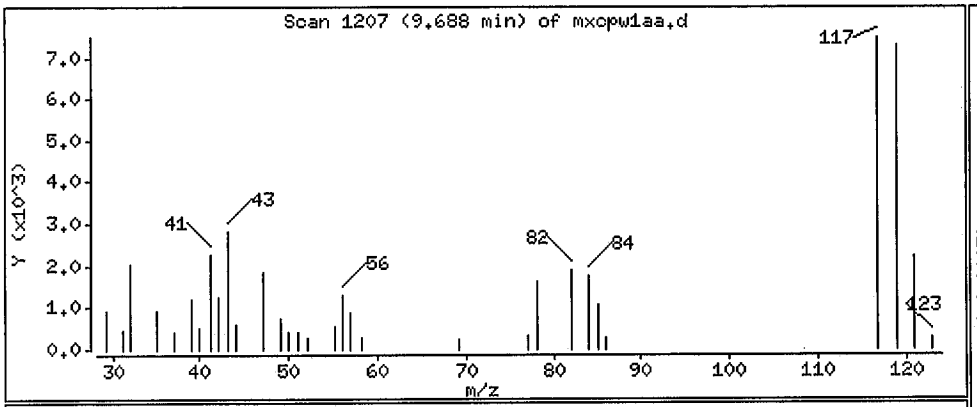
Operator: 403648

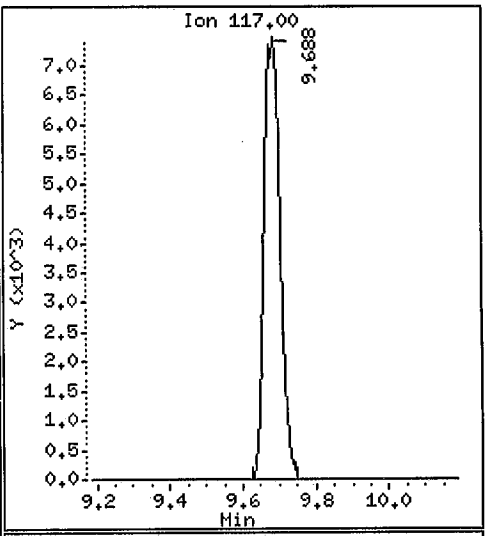
Column phase: Rtx-5

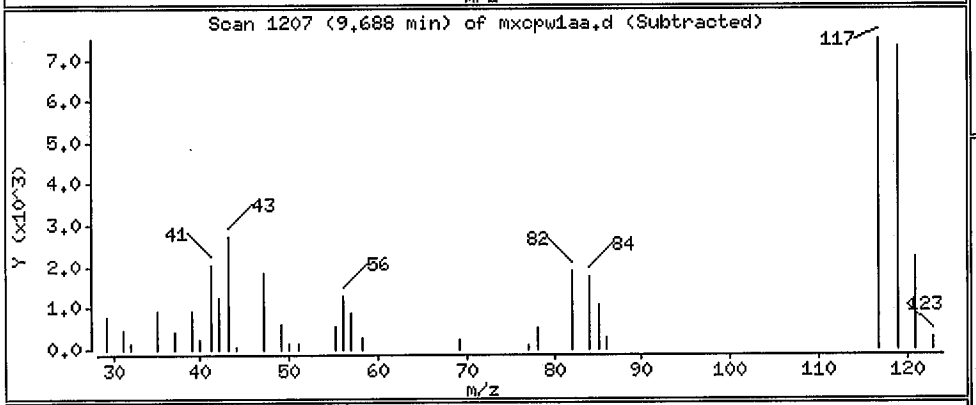
Column diameter: 0.32

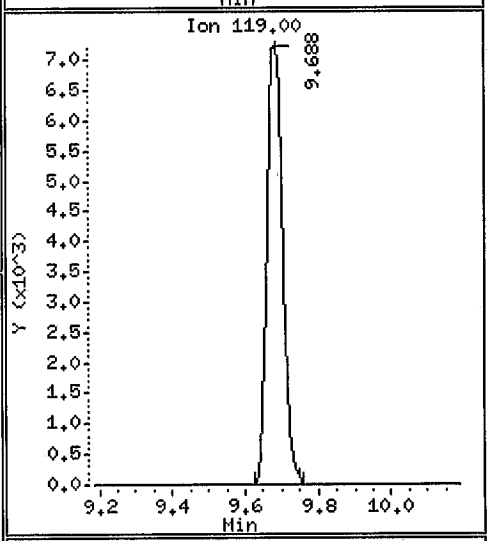
50 Carbon Tetrachloride

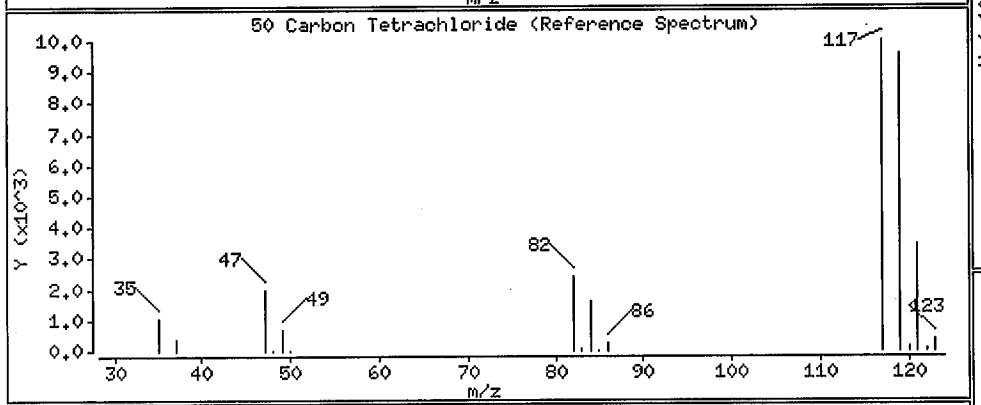
Concentration: 0.1117 ppb(v/v)

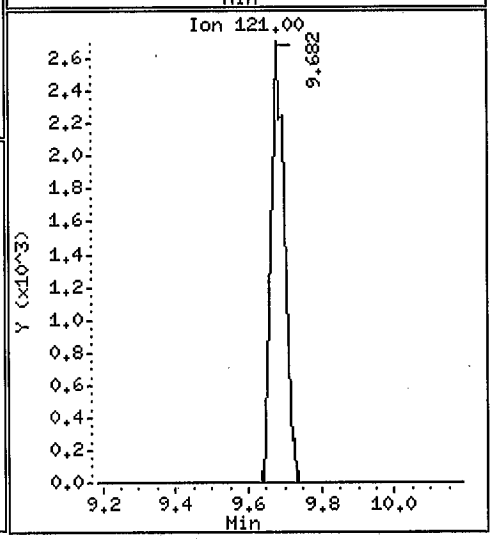


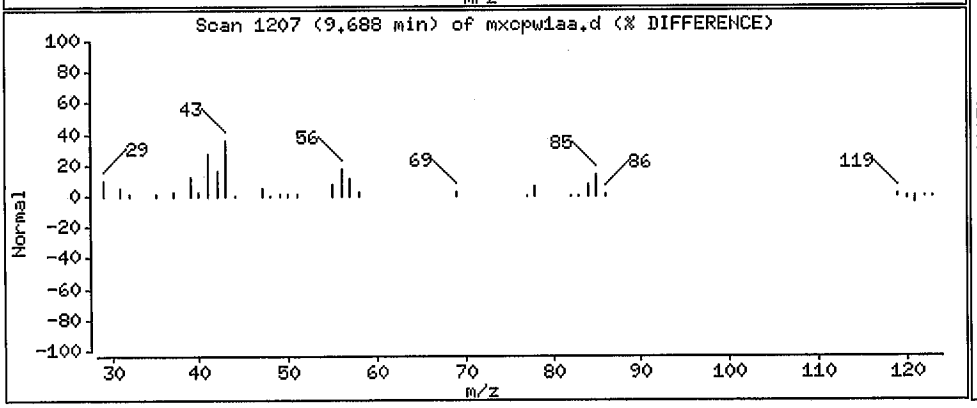












New York State D.E.C

Client Sample ID: 57-SS

GC/MS Volatiles

Lot-Sample #	H2K150429 - 005	**Work Order #**	MXCPX1AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/18/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.16**	**0.040**	**1.0**	**0.25**
cis-1,2-Dichloroethene	**0.25**	**0.080**	**0.97**	**0.32**
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	**14**	**0.080**	**92**	**0.54**
1,1,1-Trichloroethane	**0.14**	**0.080**	**0.78**	**0.44**
Trichloroethene	**25 E**	**0.040**	**130 E**	**0.21**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	109	60 - 140

Qualifiers

E	Estimated result. Result concentration exceeds the calibration range.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/me.i/E111812.b/mxcpx1aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E111812.b/mxcpx1aa.d
Lab Smp Id: MXCPX1AA Client Smp ID: 57-SS
Inj Date : 18-NOV-2012 23:42
Operator : 403648 Inst ID: me.i
Smp Info : ,,0,,,
Misc Info : E111812,TO155,axi.sub,,
Comment :
Method : /var/chem/gcms/me.i/E111812.b/TO155.m
Meth Date : 19-Nov-2012 10:08 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 15:34 Cal File: eick072.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: axi.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.097	8.097	(1.000)	212687	4.00000	4.000
* 2 1,4-Difluorobenzene	114	10.232	10.227	(1.000)	1046136	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.085	15.085	(1.000)	955818	4.00000	4.000
$ 4 4-Bromofluorobenzene	95	16.762	16.762	(1.111)	774638	4.35797	4.358
42 cis 1,2-Dichloroethene	96	7.795	7.795	(0.963)	18652	0.24589	0.2459
46 1,1,1-Trichloroethane	97	9.084	9.078	(1.122)	31538	0.14380	0.1438
50 Carbon Tetrachloride	117	9.687	9.688	(0.947)	29942	0.15980	0.1598
57 Trichloroethene	130	10.955	10.955	(1.071)	2627220	24.6941	24.69(A)
74 Tetrachloroethene	129	14.244	14.244	(0.944)	1488135	13.5872	13.59

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gcms/me.i/E111812.b/mxcpx1aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: me.i
Lab File ID: mxcpx1aa.d
Lab Smp Id: MXCPX1AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 403648
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

Calibration Date: 18-NOV-2012
Calibration Time: 14:50
Client Smp ID: 57-SS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	292927	174292	411562	212687	-27.39
2 1,4-Difluorobenze	1503226	894419	2112033	1046136	-30.41
3 Chlorobenzene-d5	1358775	808471	1909079	955818	-29.66

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.10	7.77	8.43	8.10	0.00
2 1,4-Difluorobenze	10.23	9.90	10.56	10.23	0.05
3 Chlorobenzene-d5	15.09	14.76	15.42	15.09	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

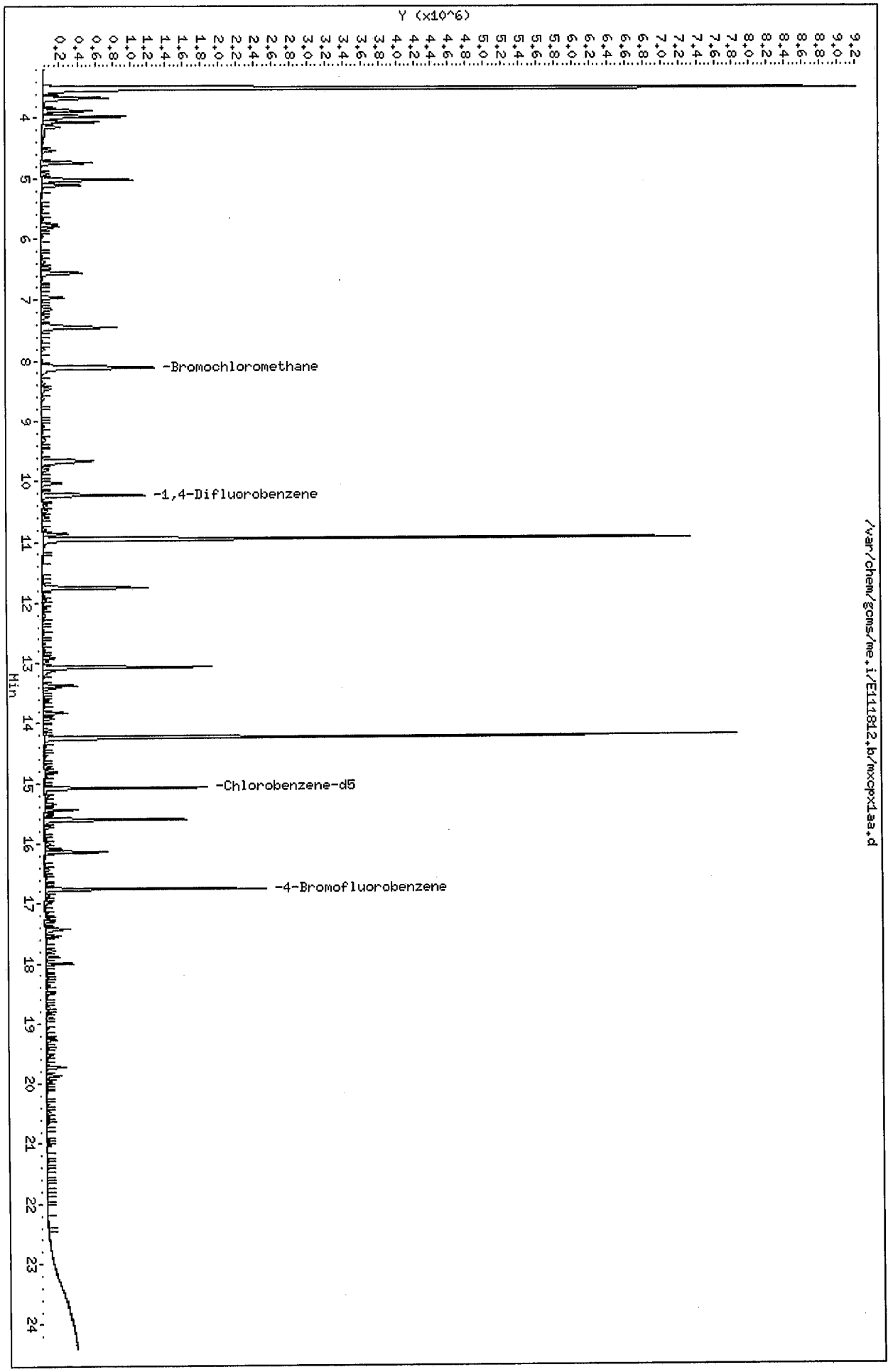
Data File: /var/chem/gcms/me.i/E111812.b/mxcpx1aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

RECOVERY REPORT

Client Name: New York State D.E.C15-NOV-2012 00:00 Client SDG: H2K150429
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MXCPX1AA Client Smp ID: 57-SS
Level: LOW Operator: 403648
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allplus.spk Quant Type: ISTD
Sublist File: axi.sub
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.358	108.95	70-130


Data File: /var/chem/gcms/me.i/E111812.b/mxcpx1aa.d
Date : 18-NOV-2012 23:42
Client ID: 57-SS
Sample Info: ,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5
Instrument: me.i
Operator: 403648
Column diameter: 0.32
Y (x10^6)
-Bromochloromethane
-1,4-Difluorobenzene
-Chlorobenzene-d5
-4-Bromofluorobenzene
/var/chem/gcms/me.i/E111812.b/mxcpx1aa.d
Min

Data File: /var/chem/gcms/me.i/E111812.b/mxcpx1aa.d

Date : 18-NOV-2012 23:42

Client ID: 57-SS

Instrument: me.i

Sample Info: ,,0,,,

Purge Volume: 500.0

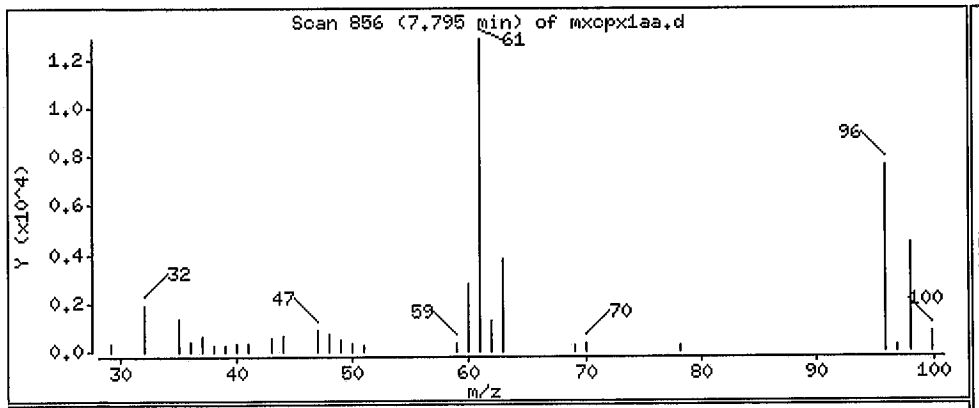
Operator: 403648

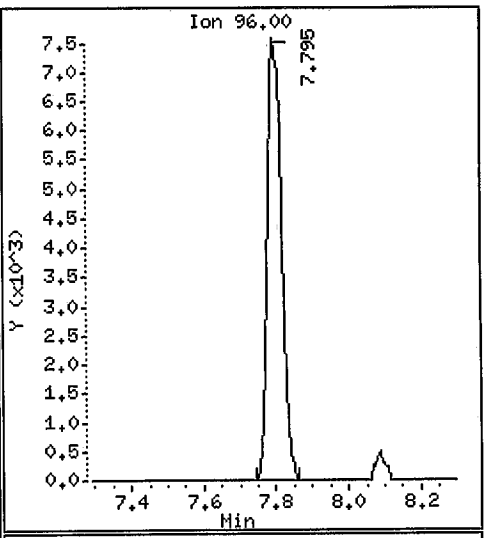
Column phase: Rtx-5

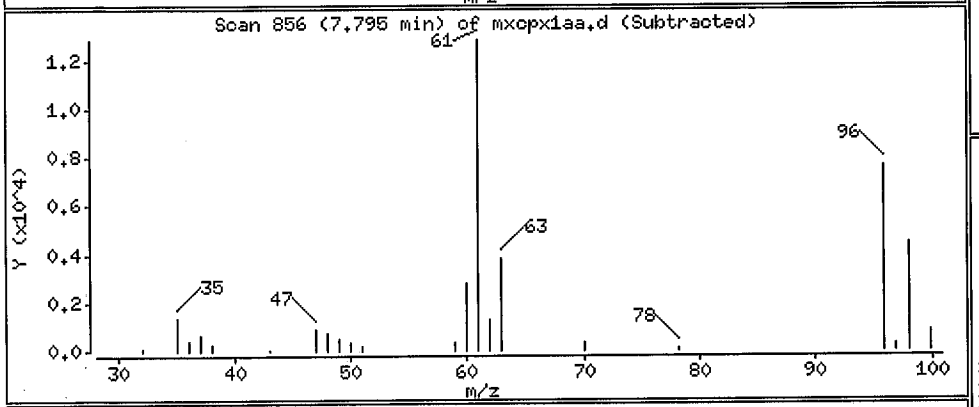
Column diameter: 0.32

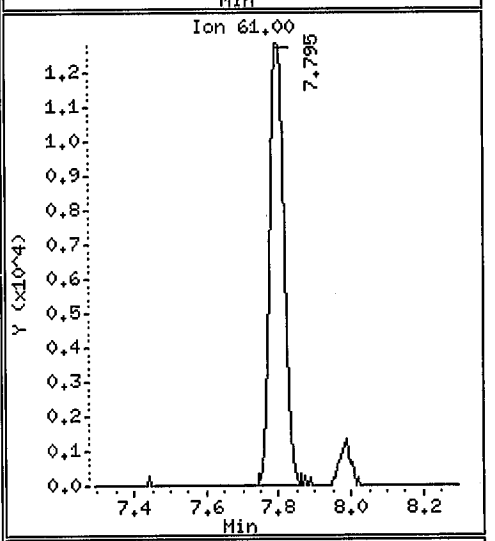
42 cis 1,2-Dichloroethene

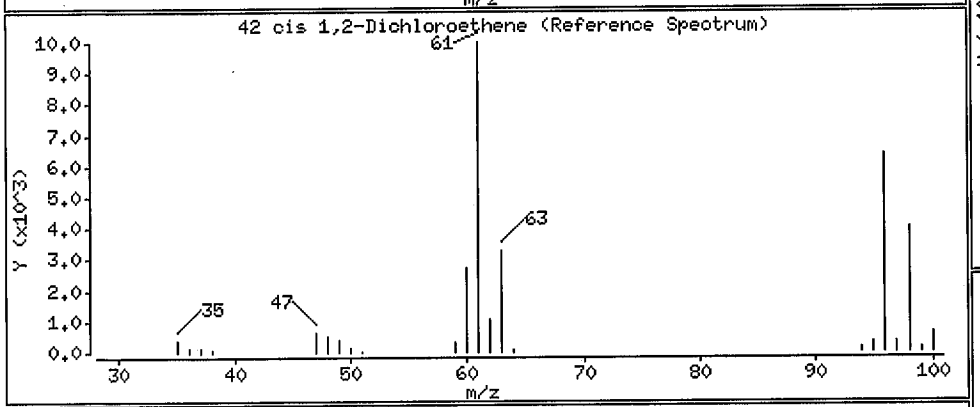
Concentration: 0.2459 ppb(v/v)

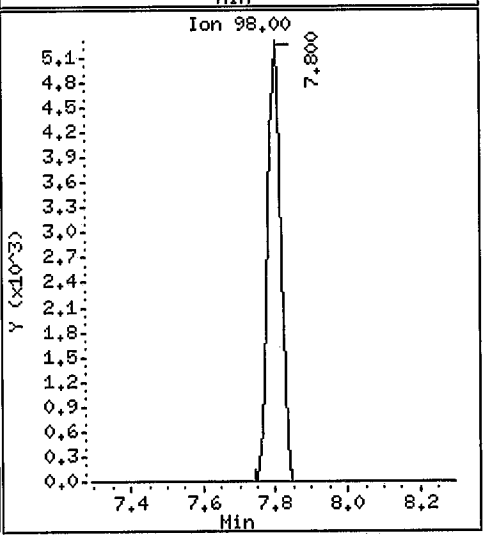


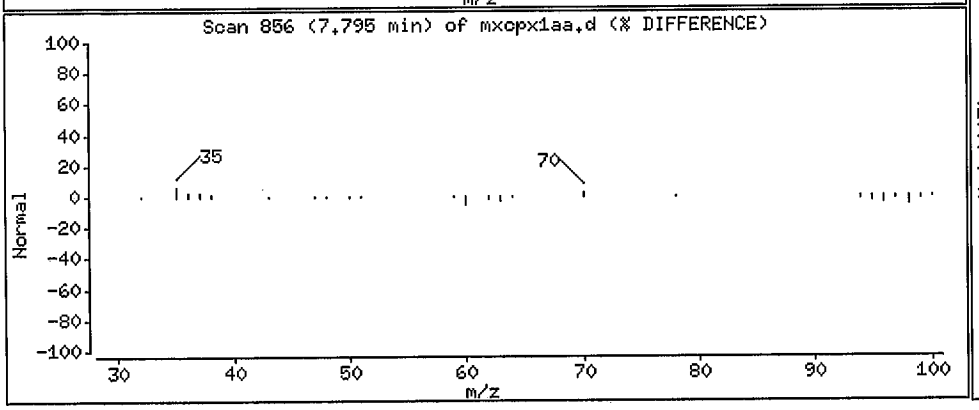












Data File: /var/chem/gcms/me.i/E111812.b/mxcpx1aa.d

Date : 18-NOV-2012 23:42

Client ID: 57-SS

Instrument: me.i

Sample Info: ,,0,,,

Purge Volume: 500.0

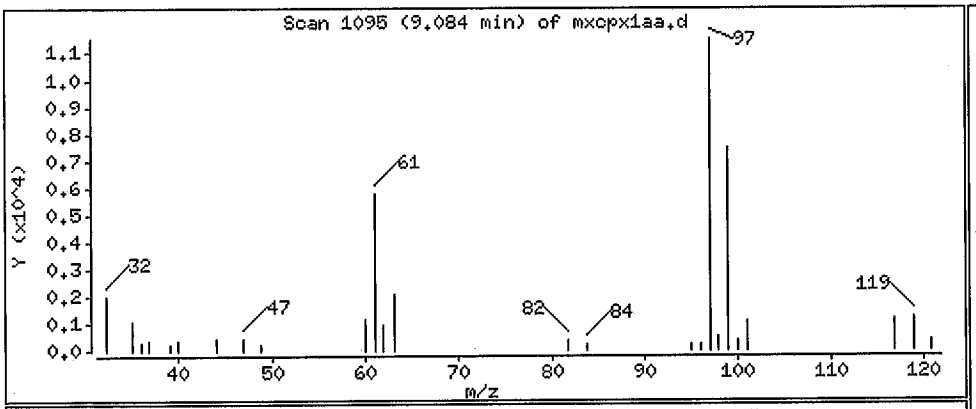
Operator: 403648

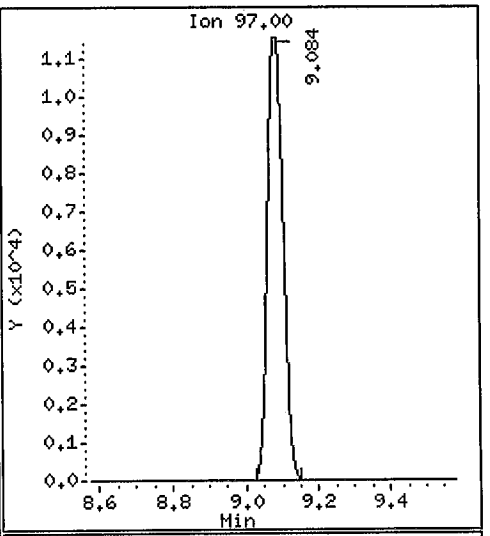
Column phase: Rtx-5

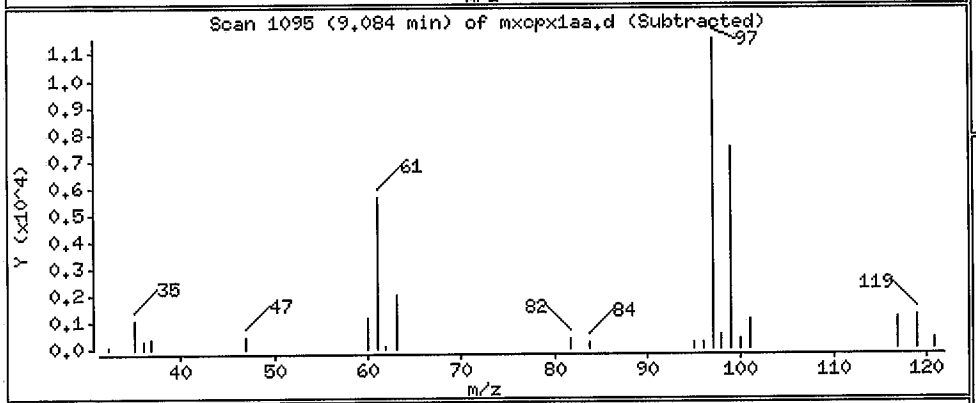
Column diameter: 0.32

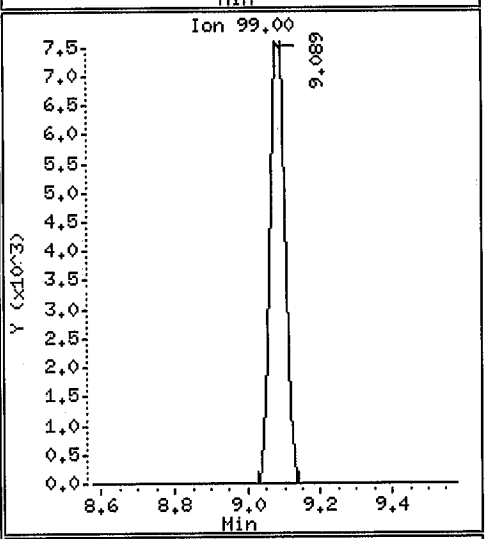
46 1,1,1-Trichloroethane

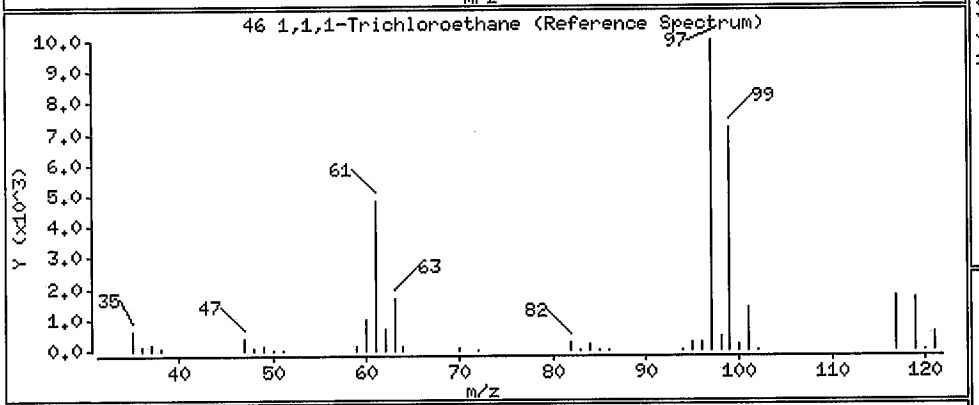
Concentration: 0.1438 ppb(v/v)

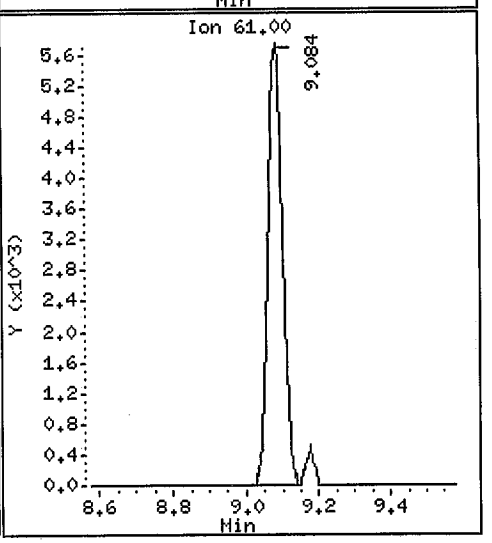


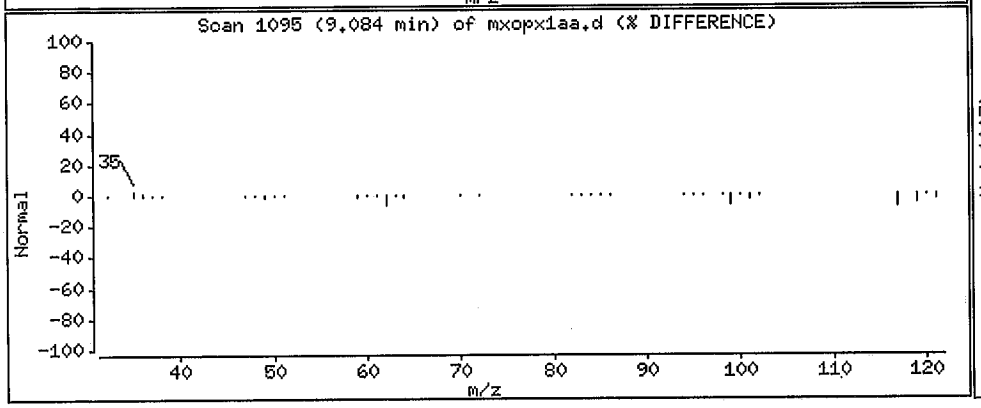












Data File: /var/chem/gcms/me.i/E111812.b/mxcpx1aa.d

Date : 18-NOV-2012 23:42

Client ID: 57-SS

Instrument: me.i

Sample Info: ,,0,,,

Purge Volume: 500.0

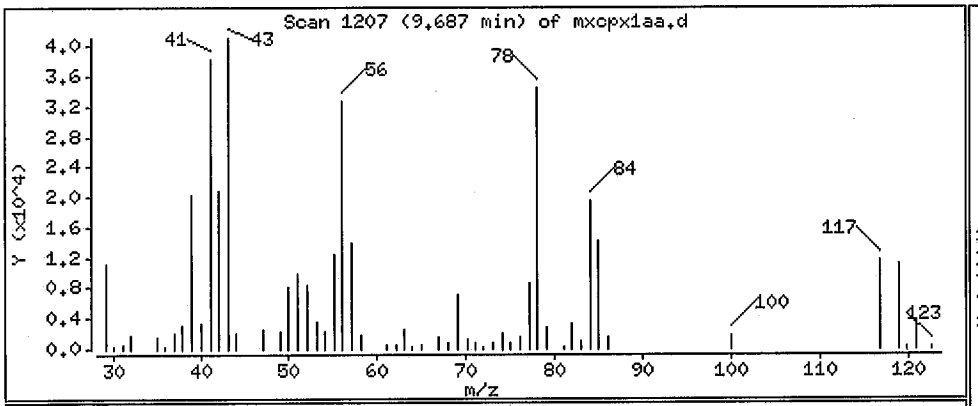
Operator: 403648

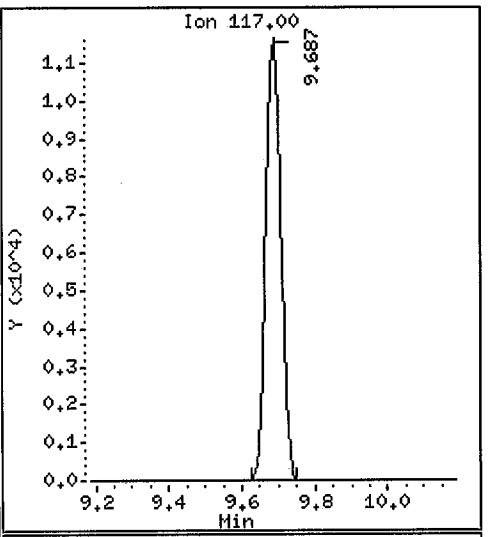
Column phase: Rtx-5

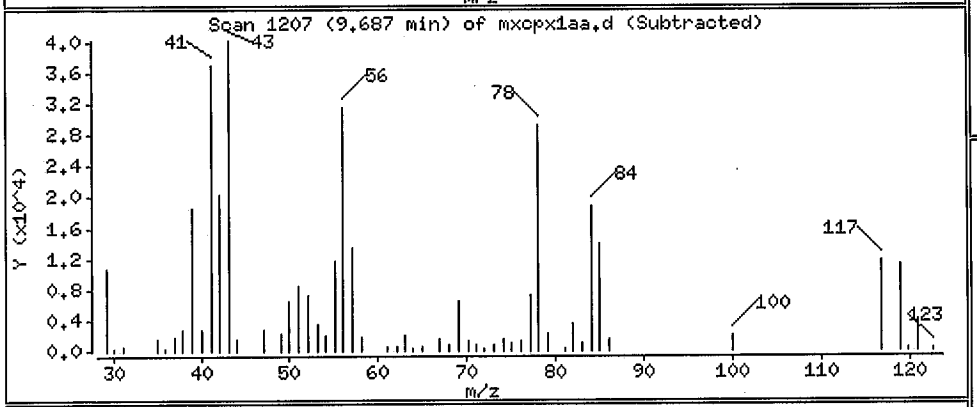
Column diameter: 0.32

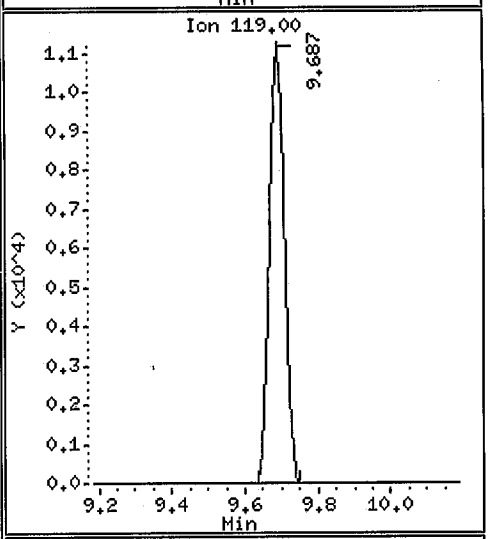
50 Carbon Tetrachloride

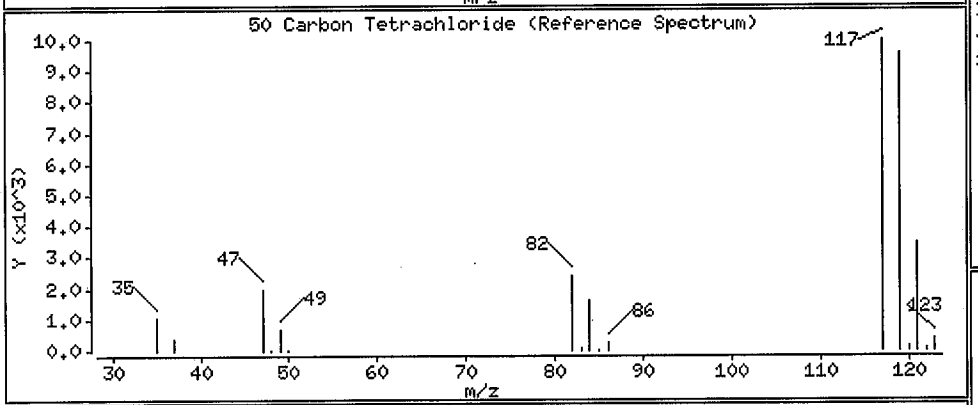
Concentration: 0.1598 ppb(v/v)

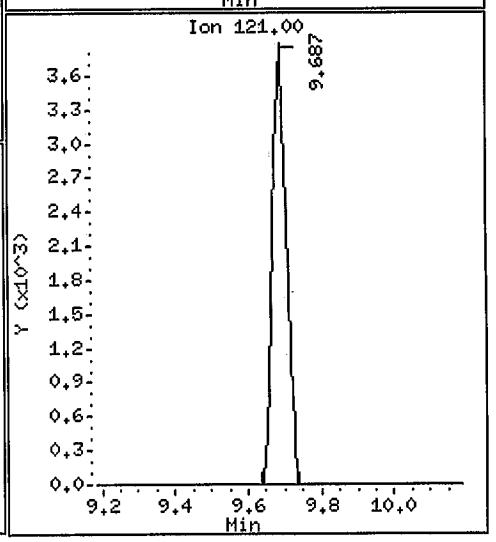


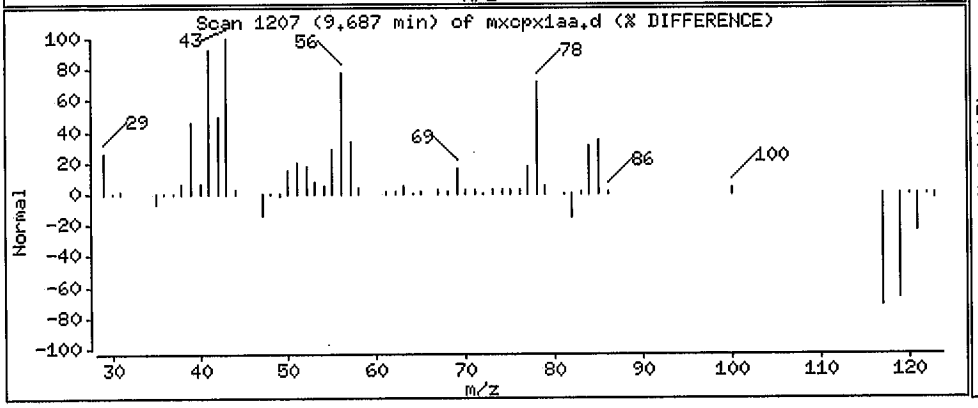












Data File: /var/chem/gcms/me.i/E111812.b/mxcpx1aa.d

Date : 18-NOV-2012 23:42

Client ID: 57-SS

Instrument: me.i

Sample Info: ,,0,,,

Purge Volume: 500.0

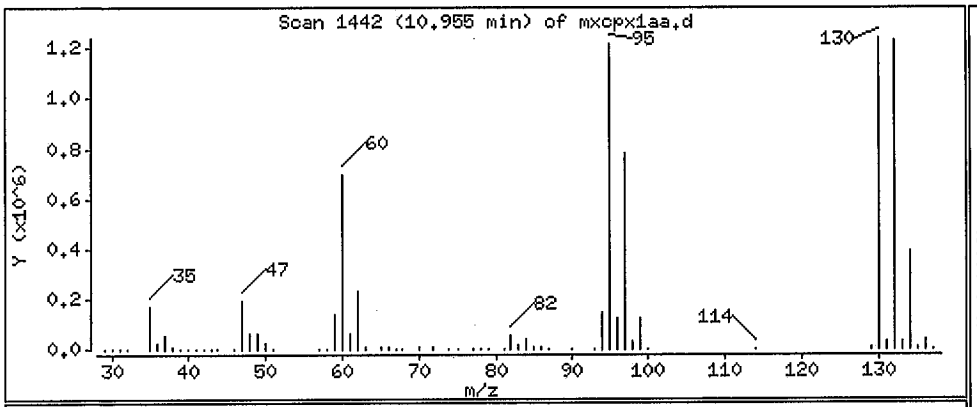
Operator: 403648

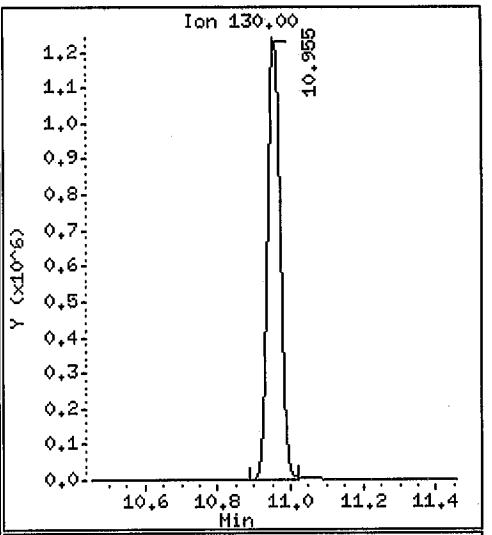
Column phase: Rtx-5

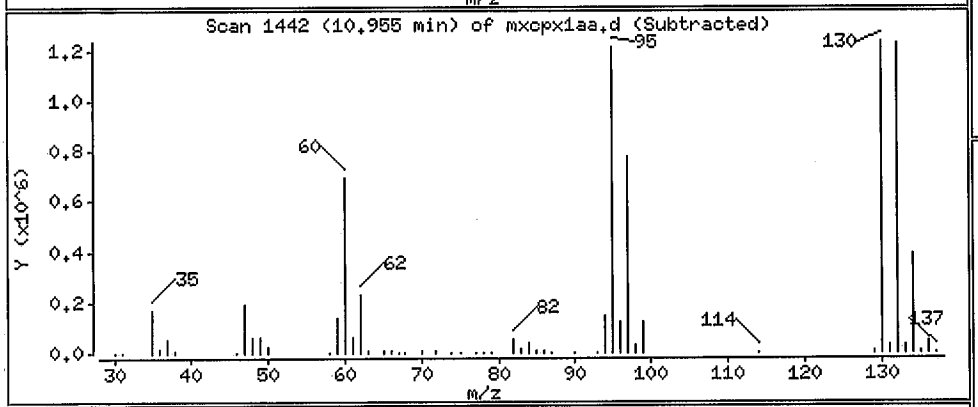
Column diameter: 0.32

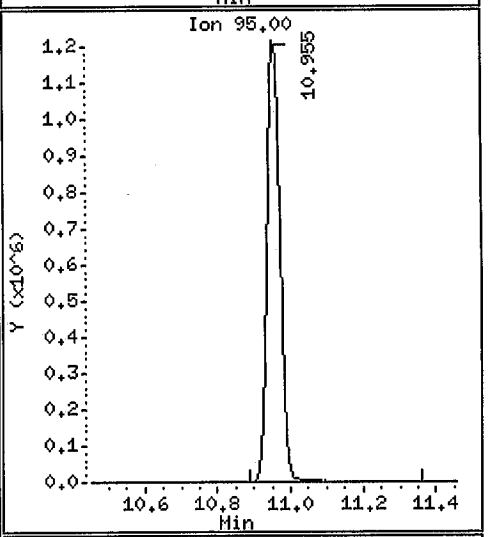
57 Trichloroethene

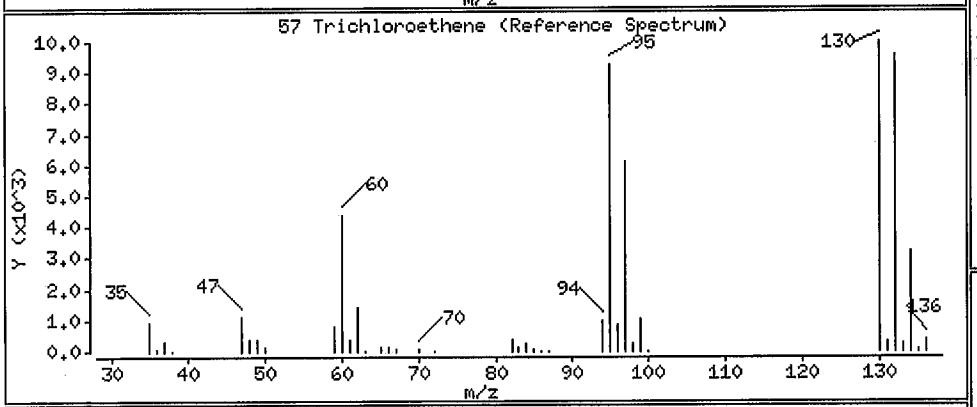
Concentration: 24.69 ppb(v/v)

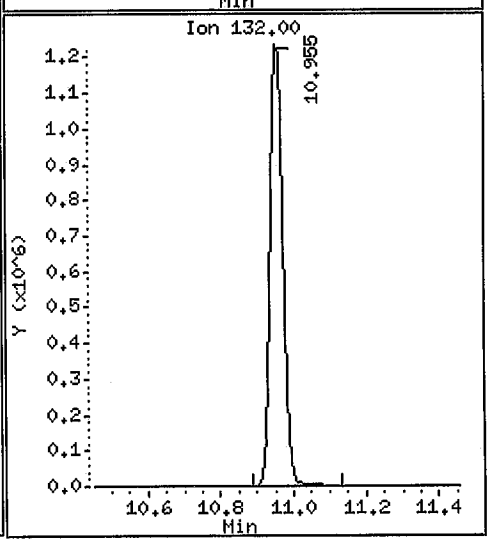


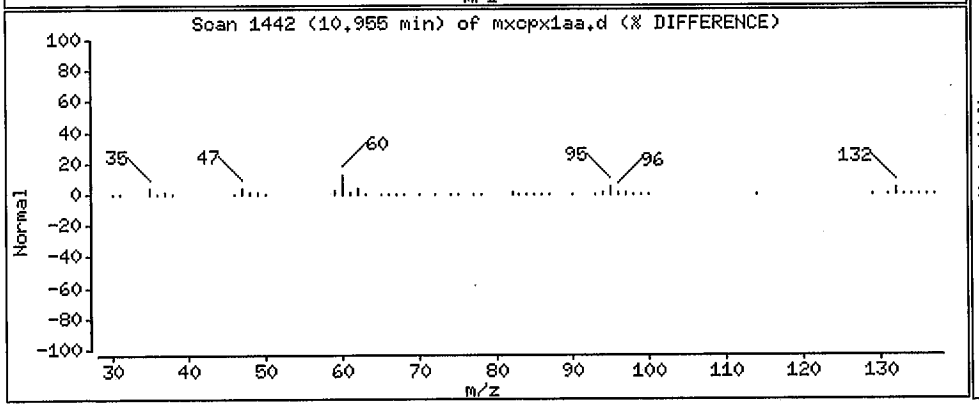












Data File: /var/chem/gcms/me.i/E111812.b/mxcpx1aa.d

Date : 18-NOV-2012 23:42

Client ID: 57-SS

Instrument: me.i

Sample Info: ,,0,,,

Purge Volume: 500.0

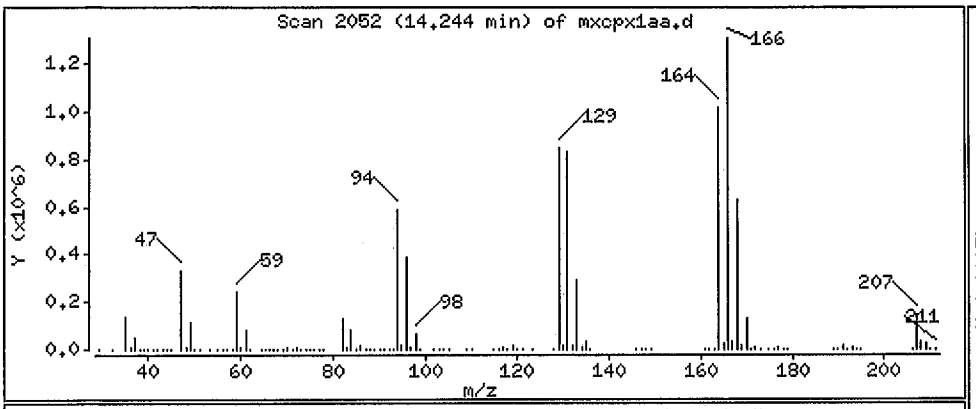
Operator: 403648

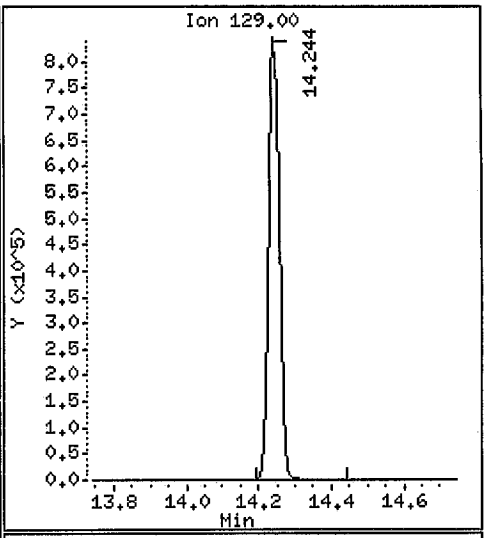
Column phase: Rtx-5

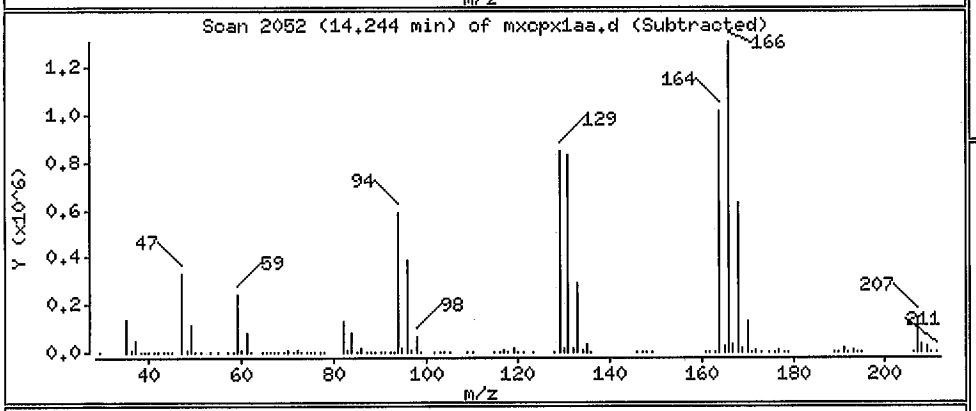
Column diameter: 0.32

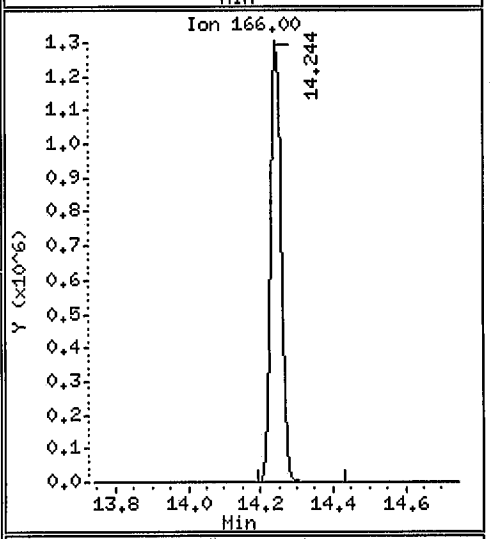
74 Tetrachloroethene

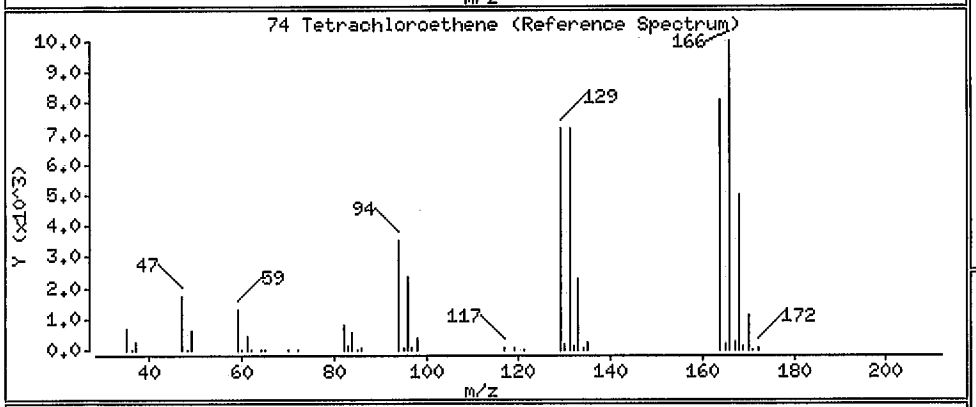
Concentration: 13.59 ppb(v/v)

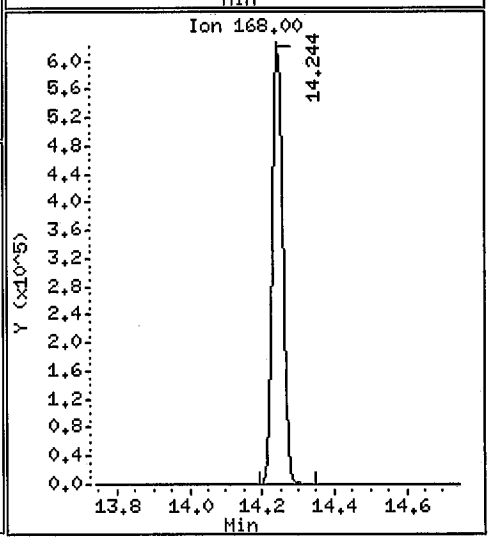


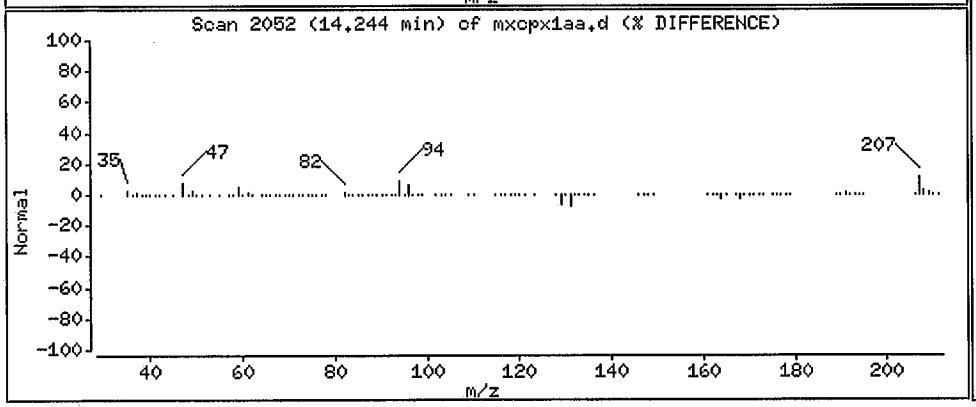












New York State D.E.C

Client Sample ID: 57-SS

GC/MS Volatiles

Lot-Sample #	H2K150429 - 005	**Work Order #**	MXCPX2AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/19/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	5	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Trichloroethene	**18 D**	**0.20**	**95 D**	**1.1**

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	104	60 - 140

Qualifiers

D Result was obtained from the analysis of a dilution.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /chem/gcms/me.i/E111812.b/mxcpx2aa.d
Report Date: 19-Nov-2012 12:06

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /chem/gcms/me.i/E111812.b/mxcpx2aa.d
Lab Smp Id: MXCPX2AA Client Smp ID: 57-SS
Inj Date : 19-NOV-2012 11:23
Operator : 403648 Inst ID: me.i
Smp Info : ,5,0,,,
Misc Info : E111812,TO155,axi.sub,,
Comment :
Method : /var/chem/gcms/me.i/E111812.b/TO155.m
Meth Date : 19-Nov-2012 10:08 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 15:34 Cal File: eick072.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: axi.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.102	8.097	(1.000)	255990	4.00000	4.000
* 2 1,4-Difluorobenzene	114	10.232	10.227	(1.000)	1331954	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.086	15.085	(1.000)	1087552	4.00000	4.000
$ 4 4-Bromofluorobenzene	95	16.763	16.762	(1.111)	838790	4.14728	4.147
57 Trichloroethene	130	10.960	10.955	(1.071)	481125	3.55184	17.76 D
74 Tetrachloroethene	129	14.244	14.244	(0.944)	276696	2.22032	11.10

Data File: /chem/gcms/me.i/E111812.b/mxcpx2aa.d
Report Date: 19-Nov-2012 12:06

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: me.i
Lab File ID: mxcpx2aa.d
Lab Smp Id: MXCPX2AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 403648
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

Calibration Date: 18-NOV-2012
Calibration Time: 14:50
Client Smp ID: 57-SS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	292927	174292	411562	255990	-12.61
2 1,4-Difluorobenze	1503226	894419	2112033	1331954	-11.39
3 Chlorobenzene-d5	1358775	808471	1909079	1087552	-19.96

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.10	7.77	8.43	8.10	0.07
2 1,4-Difluorobenze	10.23	9.90	10.56	10.23	0.05
3 Chlorobenzene-d5	15.09	14.76	15.42	15.09	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

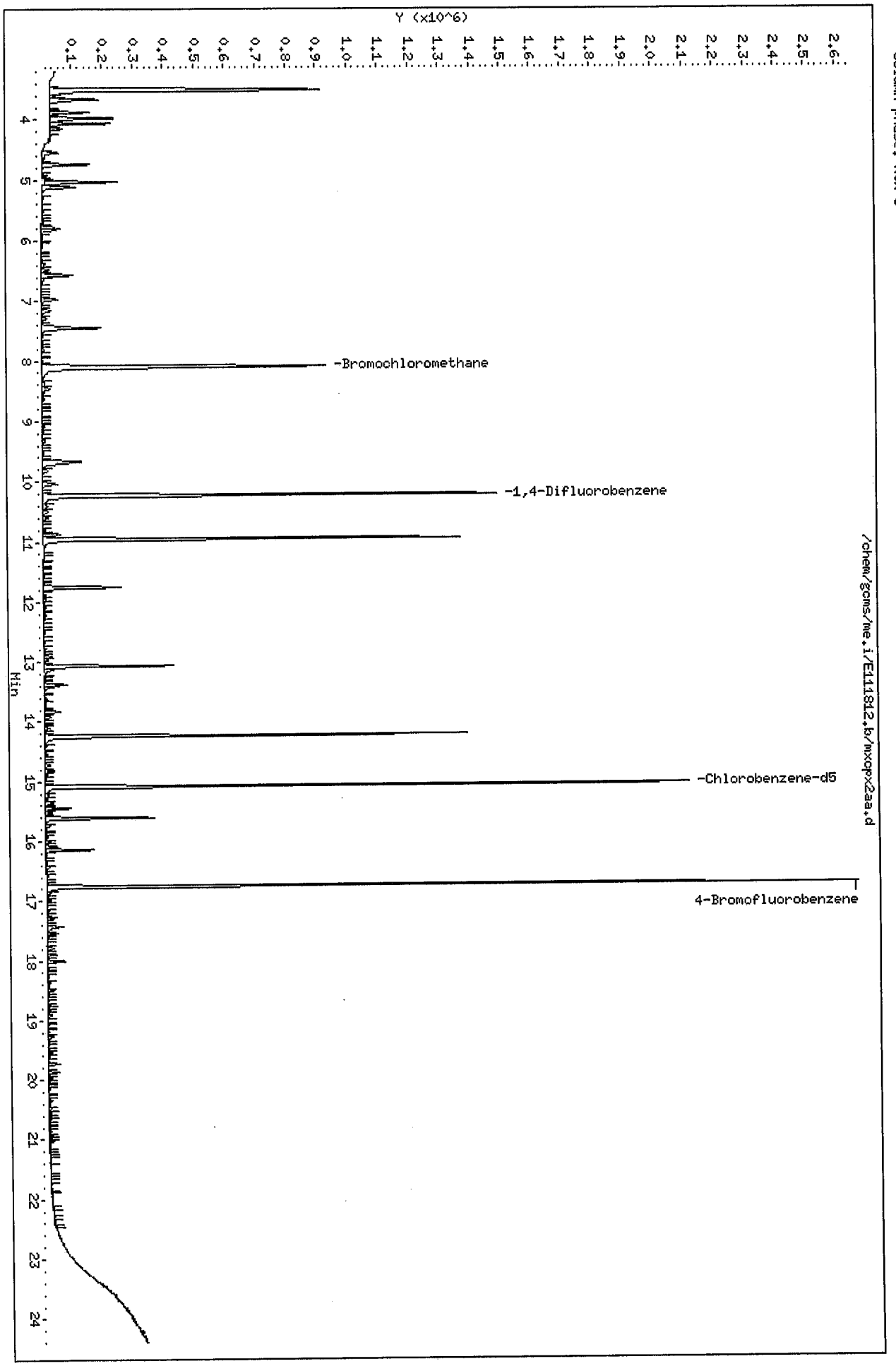
Data File: /chem/gcms/me.i/E111812.b/mxcpx2aa.d
Report Date: 19-Nov-2012 12:06

TestAmerica Knoxville

RECOVERY REPORT

Client Name: New York State D.E.C15-NOV-2012 00:00 Client SDG: H2K150429
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MXCPX2AA Client Smp ID: 57-SS
Level: LOW Operator: 403648
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allplus.spk Quant Type: ISTD
Sublist File: axi.sub
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.147	103.68	70-130


Data File: /chem/gcms/me.i/E111812.b/mxcpx2aa.d
Date : 19-NOV-2012 11:23
Client ID: 57-SS
Sample Info: ,5,0,,,
Purge Volume: 500.0
Column phase: Rtx-5
Instrument: me.i
Operator: 403648
Column diameter: 0.32
Y (x10^6)
-Bromochloromethane
-1,4-Difluorobenzene
-Chlorobenzene-d5
4-Bromofluorobenzene
/chem/gcms/me.i/E111812.b/mxcpx2aa.d
Min

Data File: /chem/gcms/me.i/E111812.b/mxcpx2aa.d

Date : 19-NOV-2012 11:23

Client ID: 57-SS

Instrument: me.i

Sample Info: ,5,0,,,

Purge Volume: 500.0

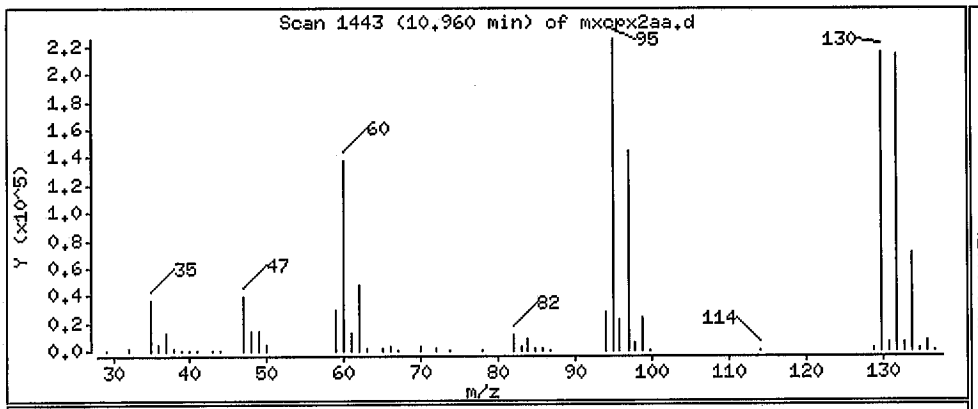
Operator: 403648

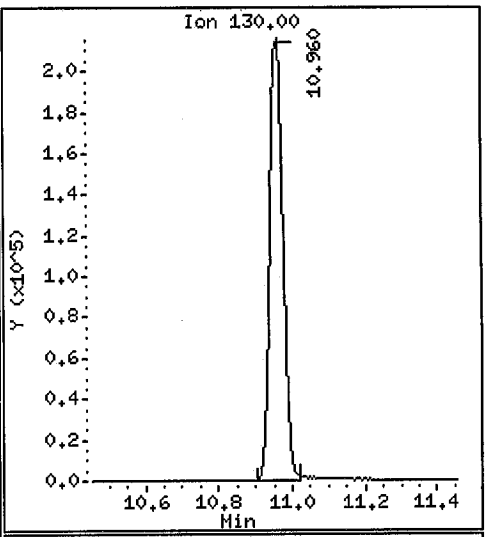
Column phase: Rtx-5

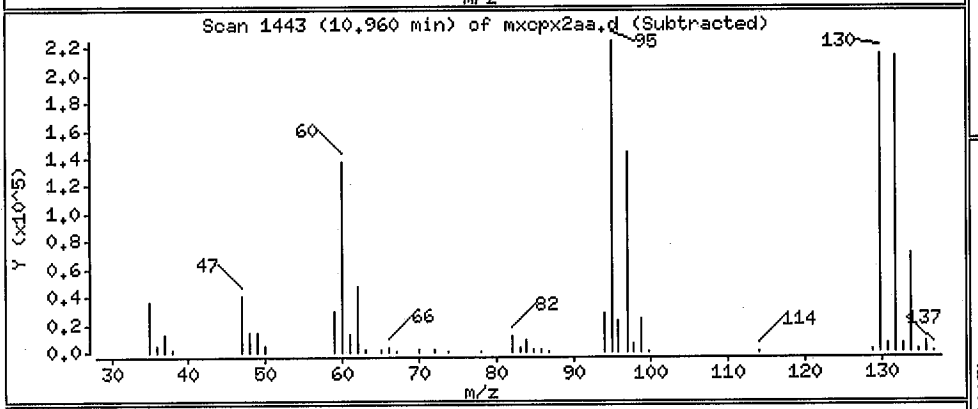
Column diameter: 0.32

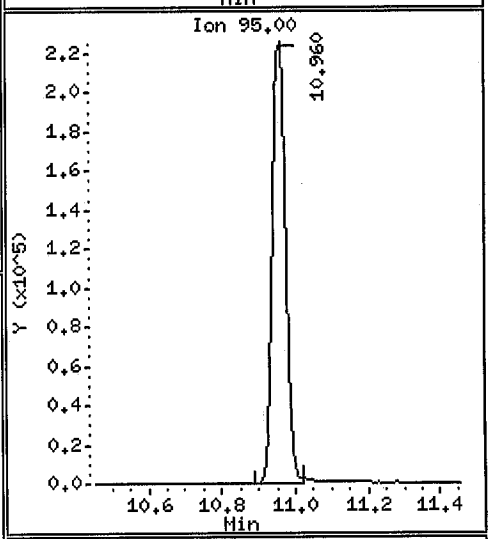
57 Trichloroethene

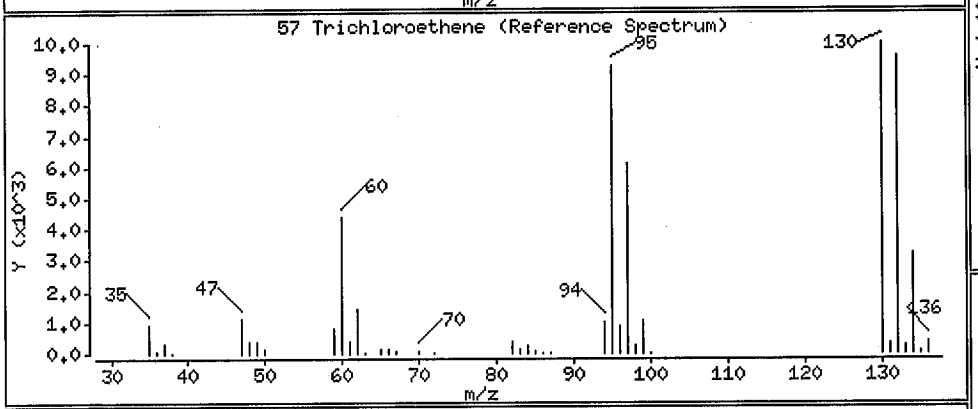
Concentration: 17.76 ppb(v/v)

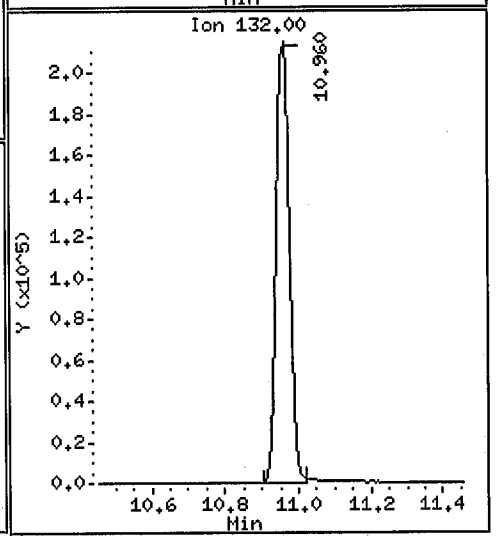


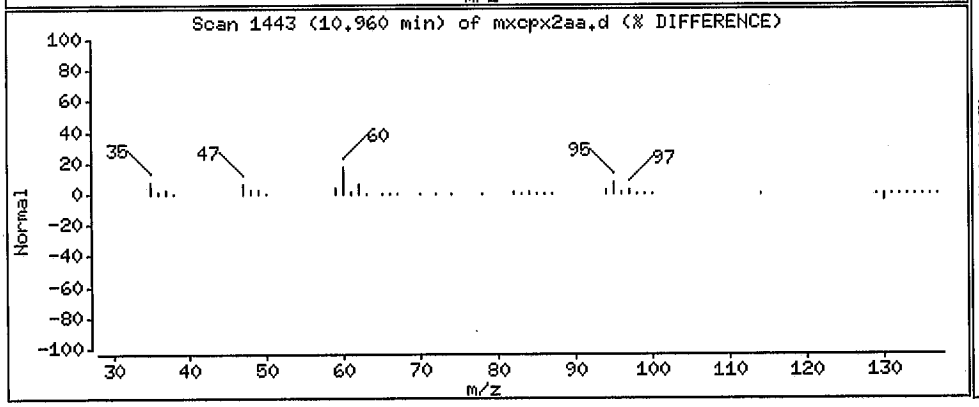












New York State D.E.C

Client Sample ID: 57-BA

GC/MS Volatiles

Lot-Sample #	H2K150429 - 006	**Work Order #**	MXCP01AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/19/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.083**	**0.040**	**0.52**	**0.25**
cis-1,2-Dichloroethene	**3.1**	**0.080**	**12**	**0.32**
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	**0.97**	**0.080**	**6.6**	**0.54**
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	**13**	**0.040**	**71**	**0.21**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	105	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/me.i/E111812.b/mxcp01aa.d
Report Date: 19-Nov-2012 10:08

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E111812.b/mxcp01aa.d
Lab Smp Id: MXCP01AA Client Smp ID: 57-BA
Inj Date : 19-NOV-2012 00:38
Operator : 403648 Inst ID: me.i
Smp Info : ,,0,,,
Misc Info : E111812,TO155,axi.sub,,
Comment :
Method : /var/chem/gcms/me.i/E111812.b/TO155.m
Meth Date : 19-Nov-2012 10:08 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 15:34 Cal File: eick072.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: axi.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
*	1 Bromochloromethane	128	8.091	8.097	(1.000)	274149	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.227	10.227	(1.000)	1488084	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.085	15.085	(1.000)	1226068	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.757	16.762	(1.111)	961967	4.21897	4.219
	42 cis 1,2-Dichloroethene	96	7.789	7.795	(0.963)	299976	3.06804	3.068
	50 Carbon Tetrachloride	117	9.677	9.688	(0.946)	21992	0.08251	0.08251
	57 Trichloroethene	130	10.949	10.955	(1.071)	2008404	13.2711	13.27
	74 Tetrachloroethene	129	14.239	14.244	(0.944)	136086	0.96864	0.9686

Data File: /var/chem/gcms/me.i/E111812.b/mxcp01aa.d
Report Date: 19-Nov-2012 10:08

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: me.i
Lab File ID: mxcp01aa.d
Lab Smp Id: MXCP01AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 403648
Calibration Date: 18-NOV-2012
Calibration Time: 14:50
Client Smp ID: 57-BA
Level: LOW
Sample Type: AIR
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	292927	174292	411562	274149	-6.41
2 1,4-Difluorobenze	1503226	894419	2112033	1488084	-1.01
3 Chlorobenzene-d5	1358775	808471	1909079	1226068	-9.77

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.10	7.77	8.43	8.09	-0.07
2 1,4-Difluorobenze	10.23	9.90	10.56	10.23	0.00
3 Chlorobenzene-d5	15.09	14.76	15.42	15.09	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

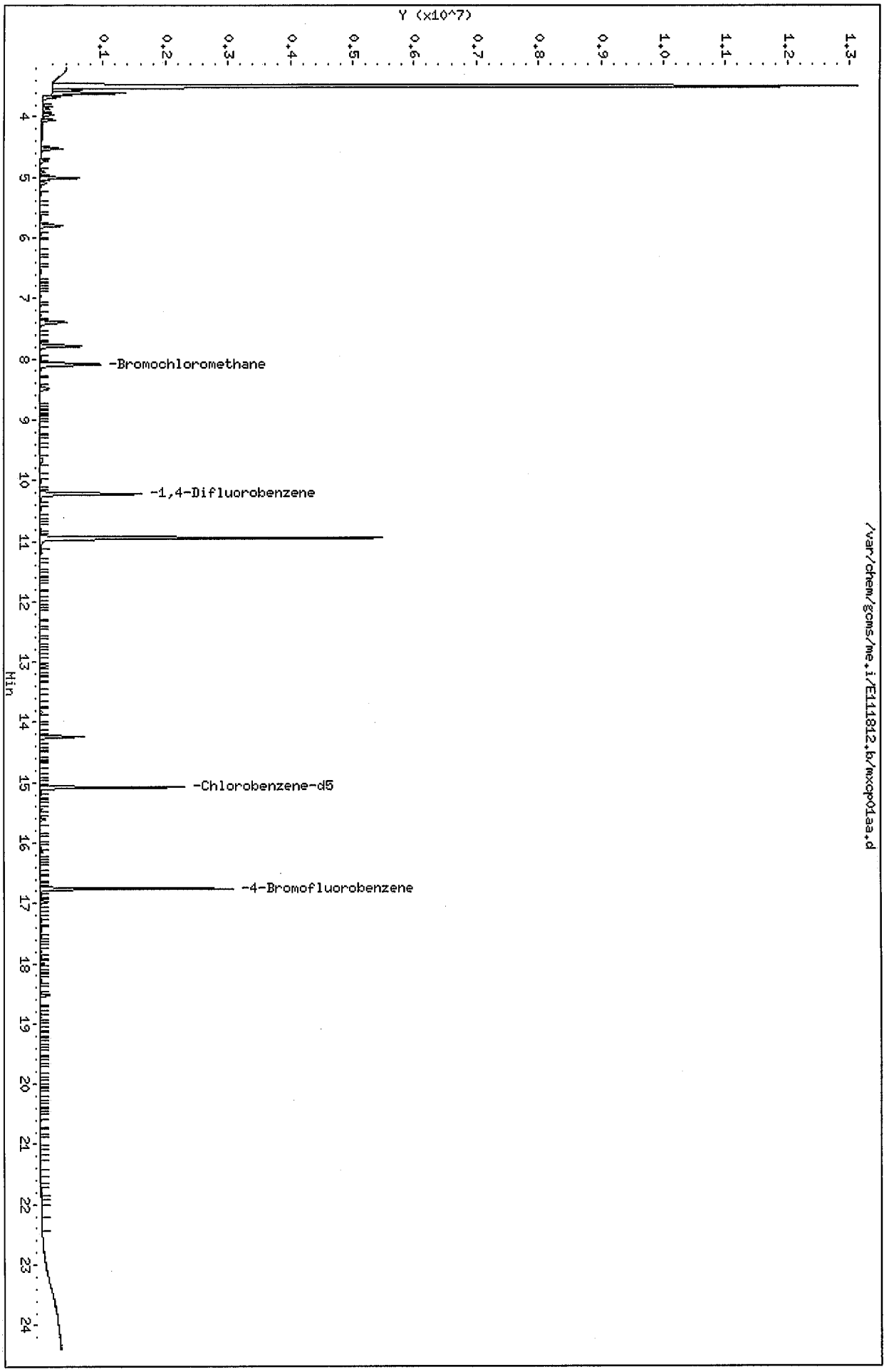
Data File: /var/chem/gcms/me.i/E111812.b/mxcp01aa.d
Report Date: 19-Nov-2012 10:08

TestAmerica Knoxville

RECOVERY REPORT

Client Name: New York State D.E.C15-NOV-2012 00:00 Client SDG: H2K150429
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MXCP01AA Client Smp ID: 57-BA
Level: LOW Operator: 403648
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allplus.spk Quant Type: ISTD
Sublist File: axi.sub
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.219	105.47	70-130


Data File: /var/chem/gcms/me.i/E111812.b/mxcp01aa.d
Date : 19-NOV-2012 00:38
Client ID: 57-BA
Sample Info: ,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5
Instrument: me.i
Operator: 403648
Column diameter: 0.32
Y (x10^7)
/var/chem/gcms/me.i/E111812.b/mxcp01aa.d
-Bromochloromethane
-1,4-Difluorobenzene
-Chlorobenzene-d5
-4-Bromofluorobenzene
Min

Data File: /var/chem/gcms/me.i/E111812.b/mxcp01aa.d

Date : 19-NOV-2012 00:38

Client ID: 57-BA

Instrument: me.i

Sample Info: ,,0,,,

Purge Volume: 500.0

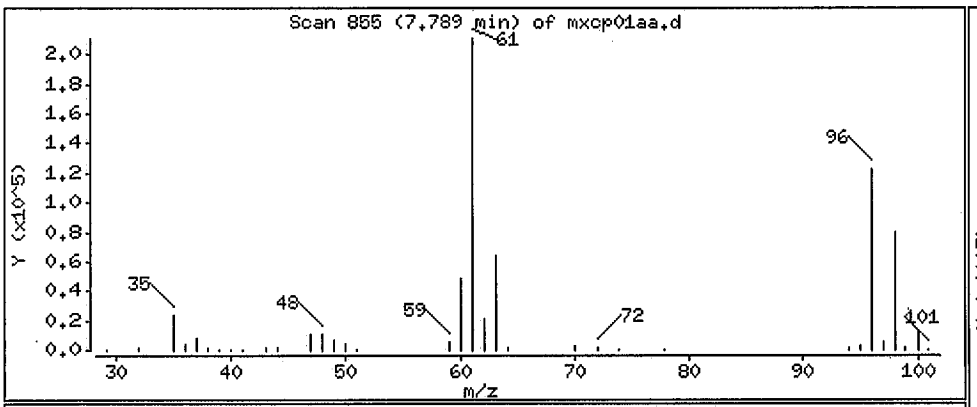
Operator: 403648

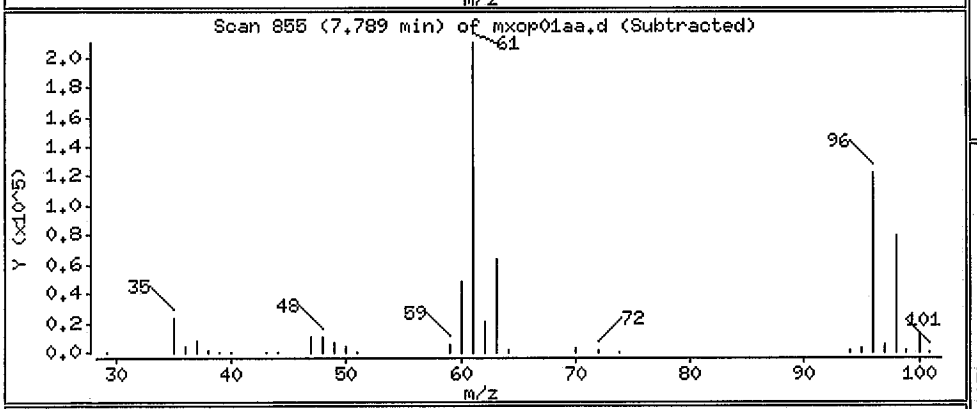
Column phase: Rtx-5

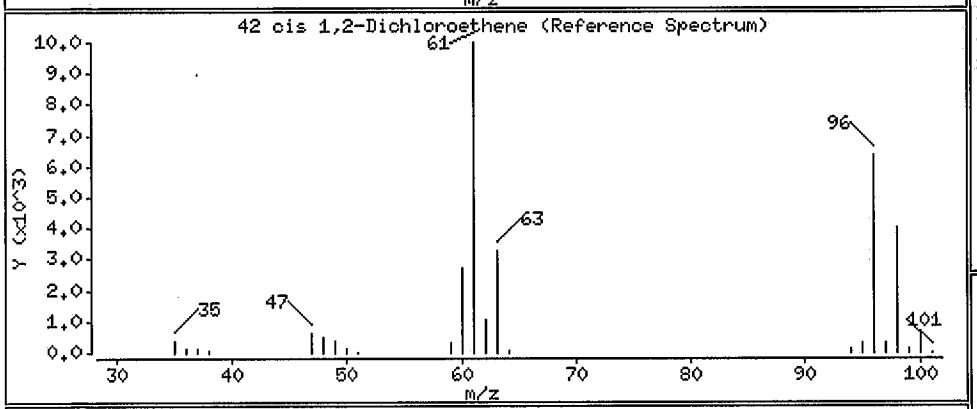
Column diameter: 0.32

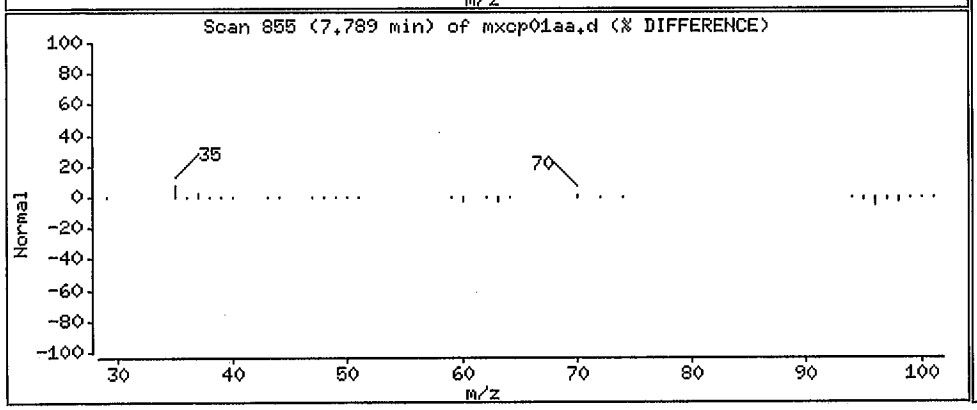
42 cis 1,2-Dichloroethene

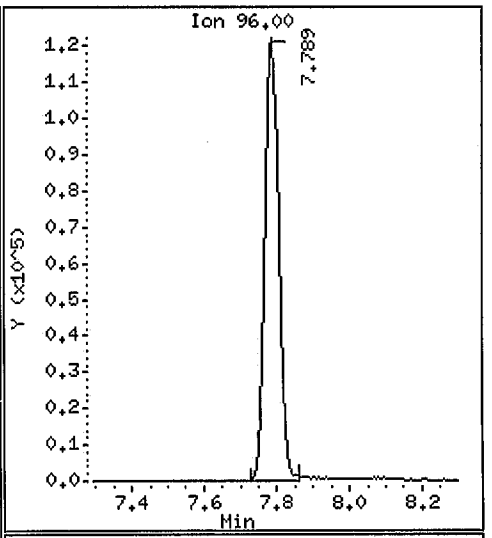
Concentration: 3.068 ppb(v/v)

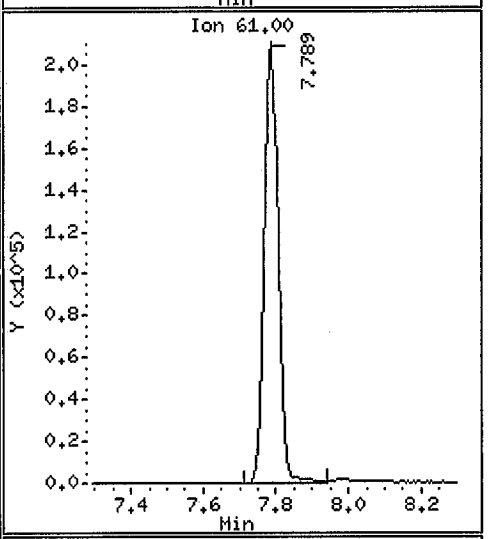


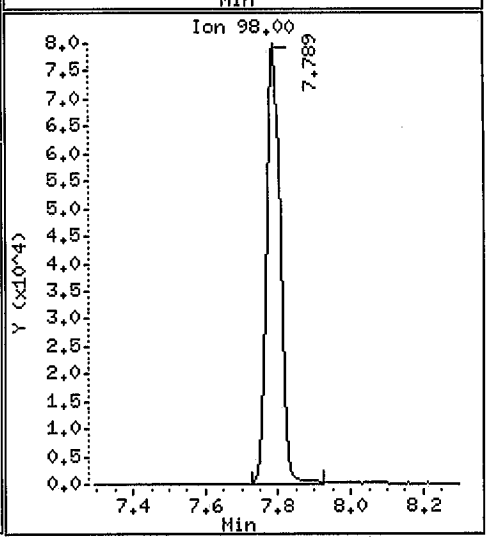












Data File: /var/chem/goms/me.i/E111812.b/mxcp01aa.d

Date : 19-NOV-2012 00:38

Client ID: 57-BA

Instrument: me.i

Sample Info: ,,0,,,

Purge Volume: 500.0

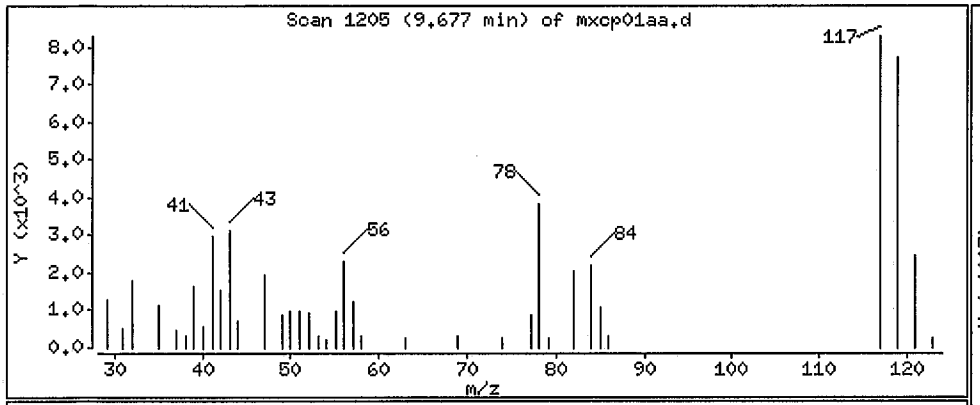
Operator: 403648

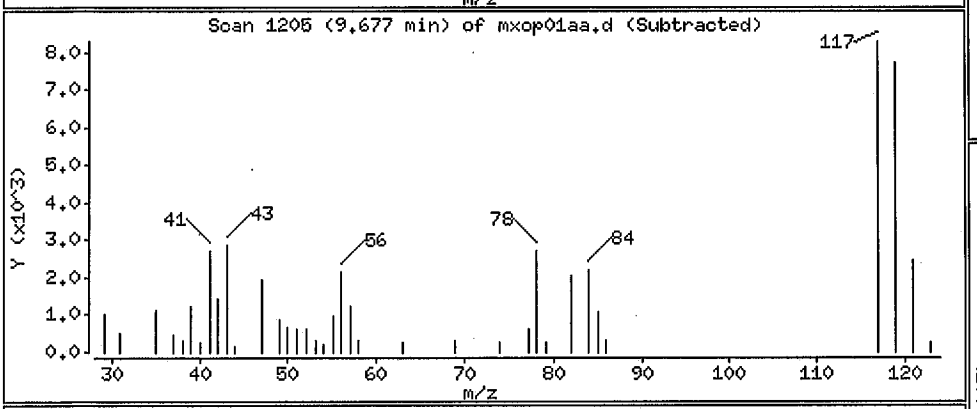
Column phase: Rtx-5

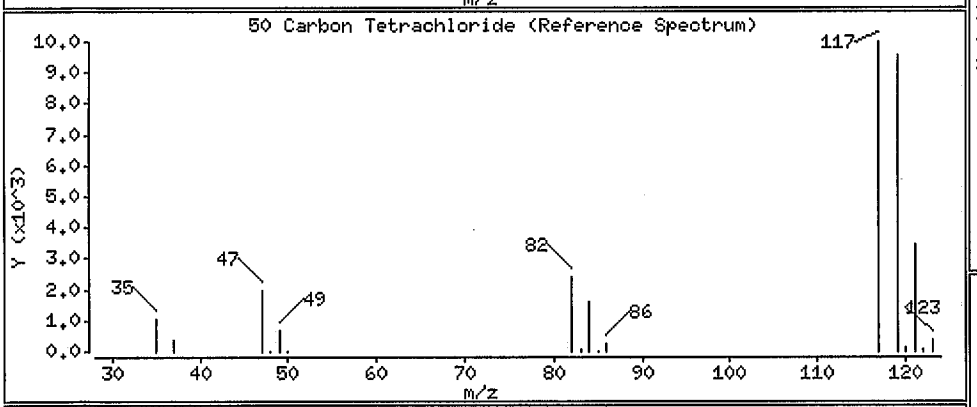
Column diameter: 0.32

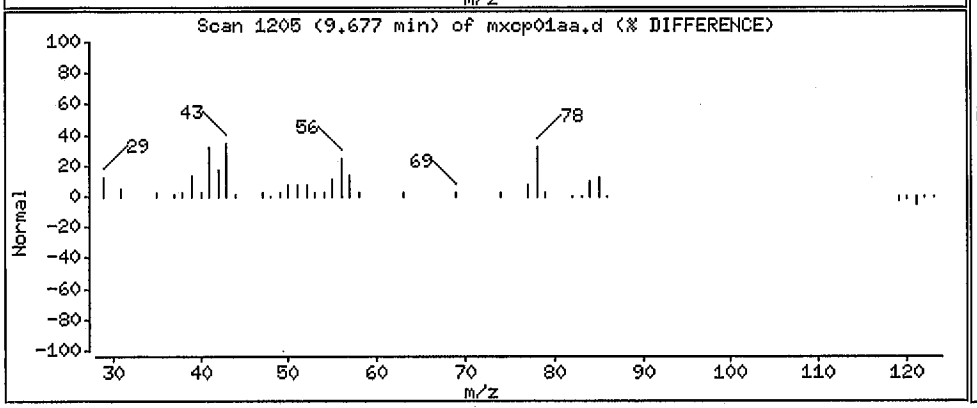
50 Carbon Tetrachloride

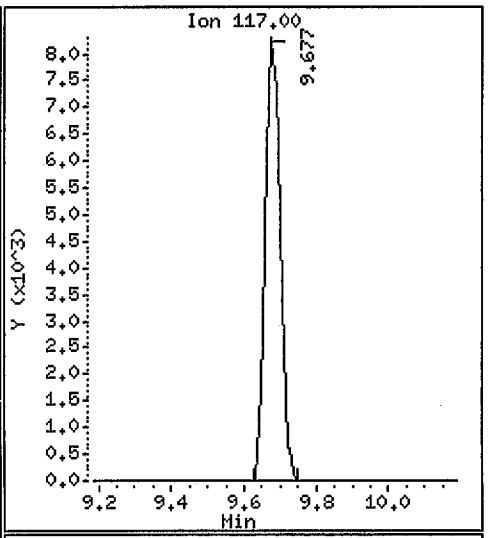
Concentration: 0.08251 ppb(v/v)

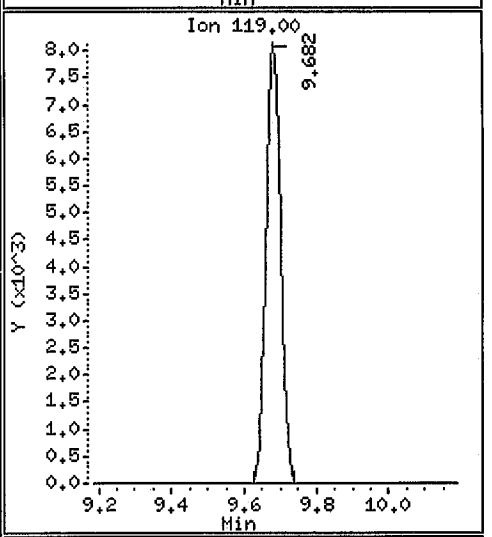


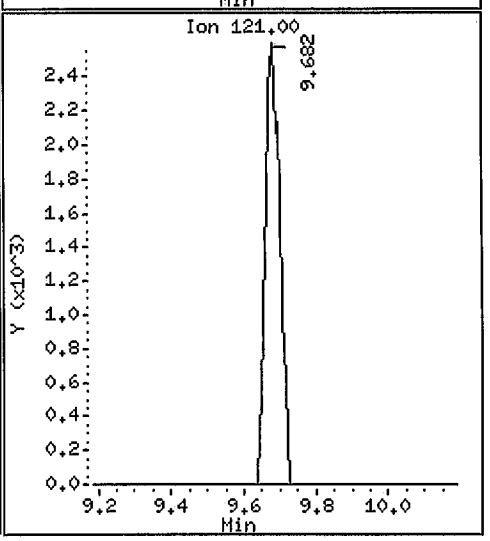












Data File: /var/chem/gcms/me.i/E111812.b/mxop01aa.d

Date : 19-NOV-2012 00:38

Client ID: 57-BA

Instrument: me.i

Sample Info: ,,0,,,

Purge Volume: 500.0

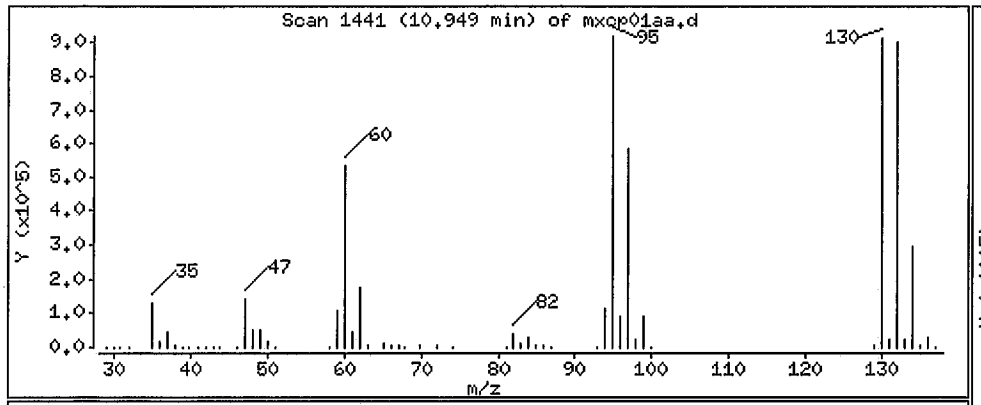
Operator: 403648

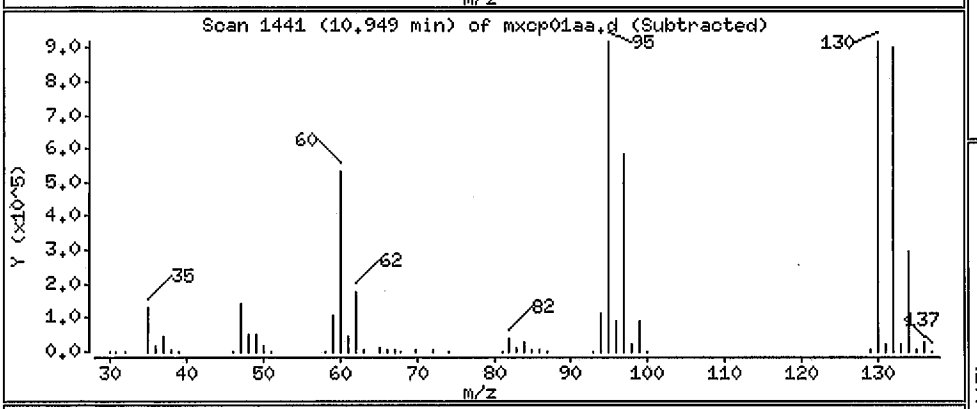
Column phase: Rtx-5

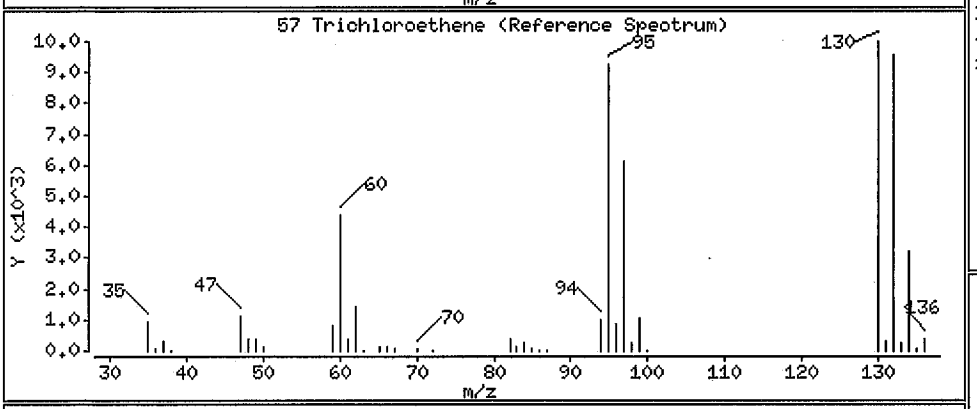
Column diameter: 0.32

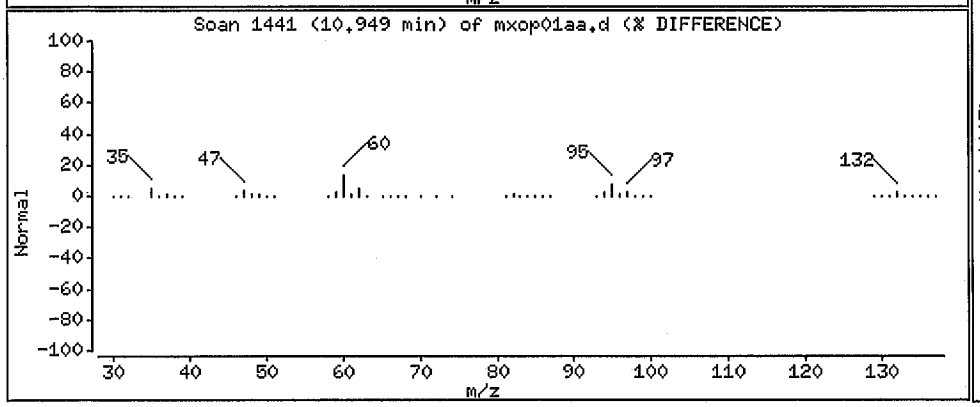
57 Trichloroethene

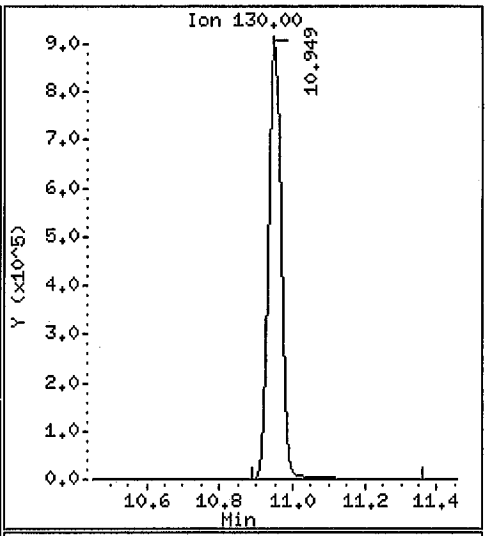
Concentration: 13.27 ppb(v/v)

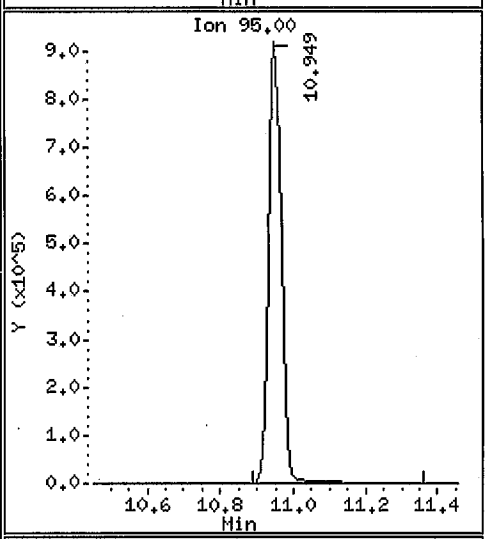


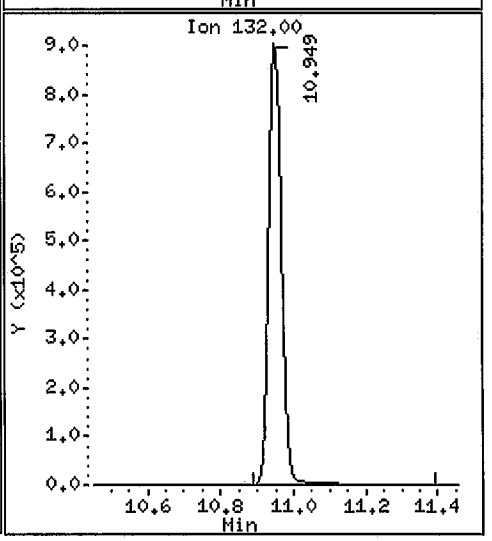












Data File: /var/chem/gcms/me.i/E111812.b/mxcp01aa.d

Date : 19-NOV-2012 00:38

Client ID: 57-BA

Instrument: me.i

Sample Info: ,,0,,,

Purge Volume: 500.0

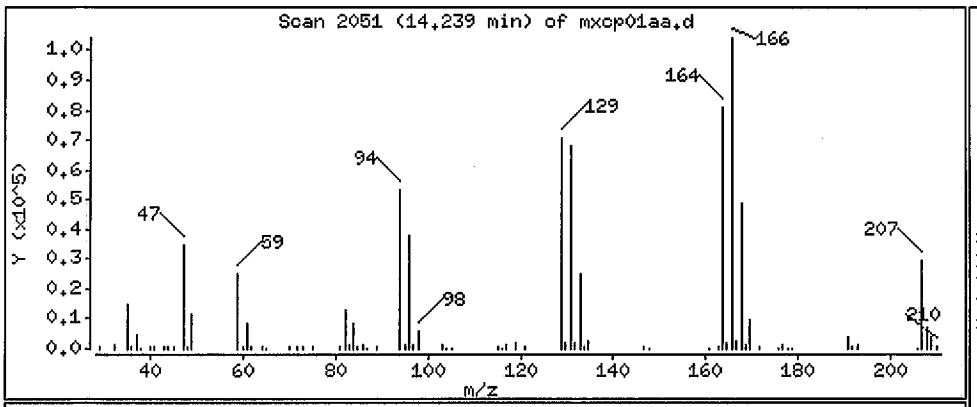
Operator: 403648

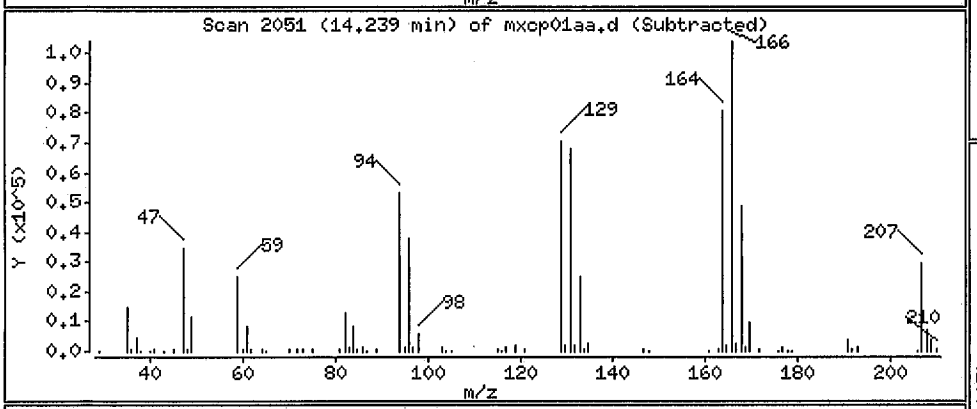
Column phase: Rtx-5

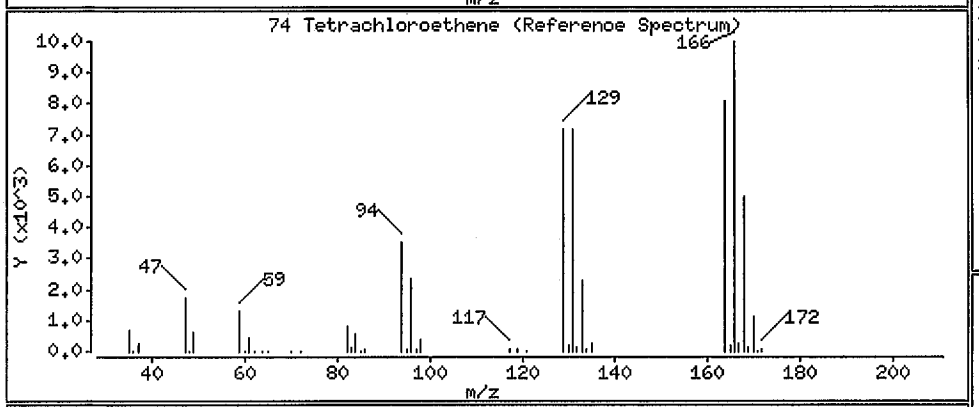
Column diameter: 0.32

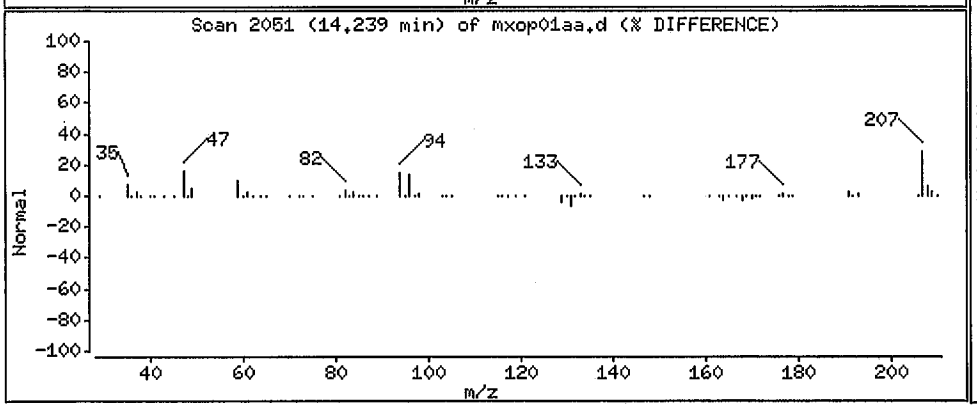
74 Tetrachloroethene

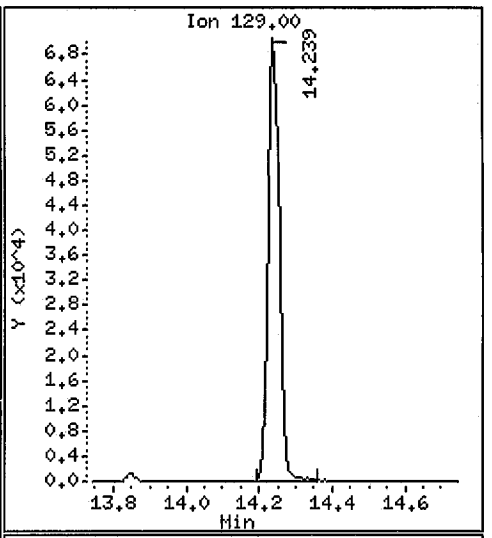
Concentration: 0.9686 ppb(v/v)

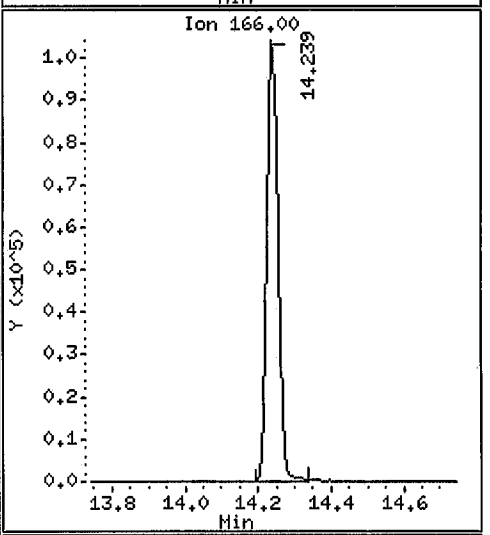


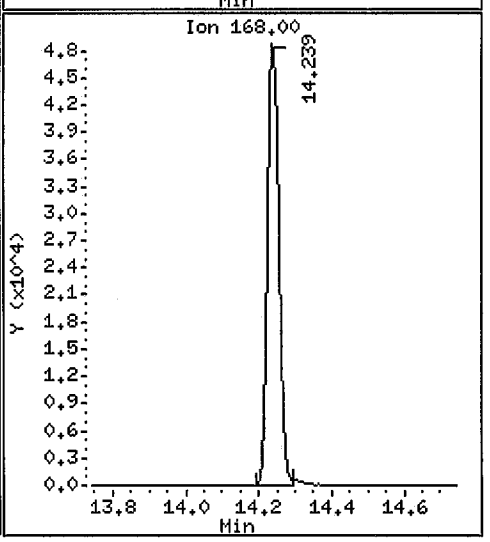












New York State D.E.C

Client Sample ID: 57-AA

GC/MS Volatiles

Lot-Sample #	H2K150429 - 007	**Work Order #**	MXCP11AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/19/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.099**	**0.040**	**0.62**	**0.25**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	ND	0.080	ND	0.54
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	112	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/me.i/E111812.b/mxcp11aa.d
Report Date: 19-Nov-2012 10:08

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E111812.b/mxcp11aa.d
Lab Smp Id: MXCP11AA Client Smp ID: 57-AA
Inj Date : 19-NOV-2012 01:34
Operator : 403648 Inst ID: me.i
Smp Info : ,,0,,,
Misc Info : E111812,TO155,axi.sub,,
Comment :
Method : /var/chem/gcms/me.i/E111812.b/TO155.m
Meth Date : 19-Nov-2012 10:08 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 15:34 Cal File: eick072.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: axi.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
*	1 Bromochloromethane	128	8.091	8.097	(1.000)	225460	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.221	10.227	(1.000)	1071385	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.080	15.085	(1.000)	960495	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.757	16.762	(1.111)	800790	4.48316	4.483
	50 Carbon Tetrachloride	117	9.677	9.688	(0.947)	19054	0.09929	0.09929

Data File: /var/chem/gcms/me.i/E111812.b/mxcp11aa.d
Report Date: 19-Nov-2012 10:08

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: me.i
Lab File ID: mxcp11aa.d
Lab Smp Id: MXCP11AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 403648
Calibration Date: 18-NOV-2012
Calibration Time: 14:50
Client Smp ID: 57-AA
Level: LOW
Sample Type: AIR
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	292927	174292	411562	225460	-23.03
2 1,4-Difluorobenze	1503226	894419	2112033	1071385	-28.73
3 Chlorobenzene-d5	1358775	808471	1909079	960495	-29.31

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.10	7.77	8.43	8.09	-0.07
2 1,4-Difluorobenze	10.23	9.90	10.56	10.22	-0.05
3 Chlorobenzene-d5	15.09	14.76	15.42	15.08	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/me.i/E111812.b/mxcp11aa.d
Report Date: 19-Nov-2012 10:08

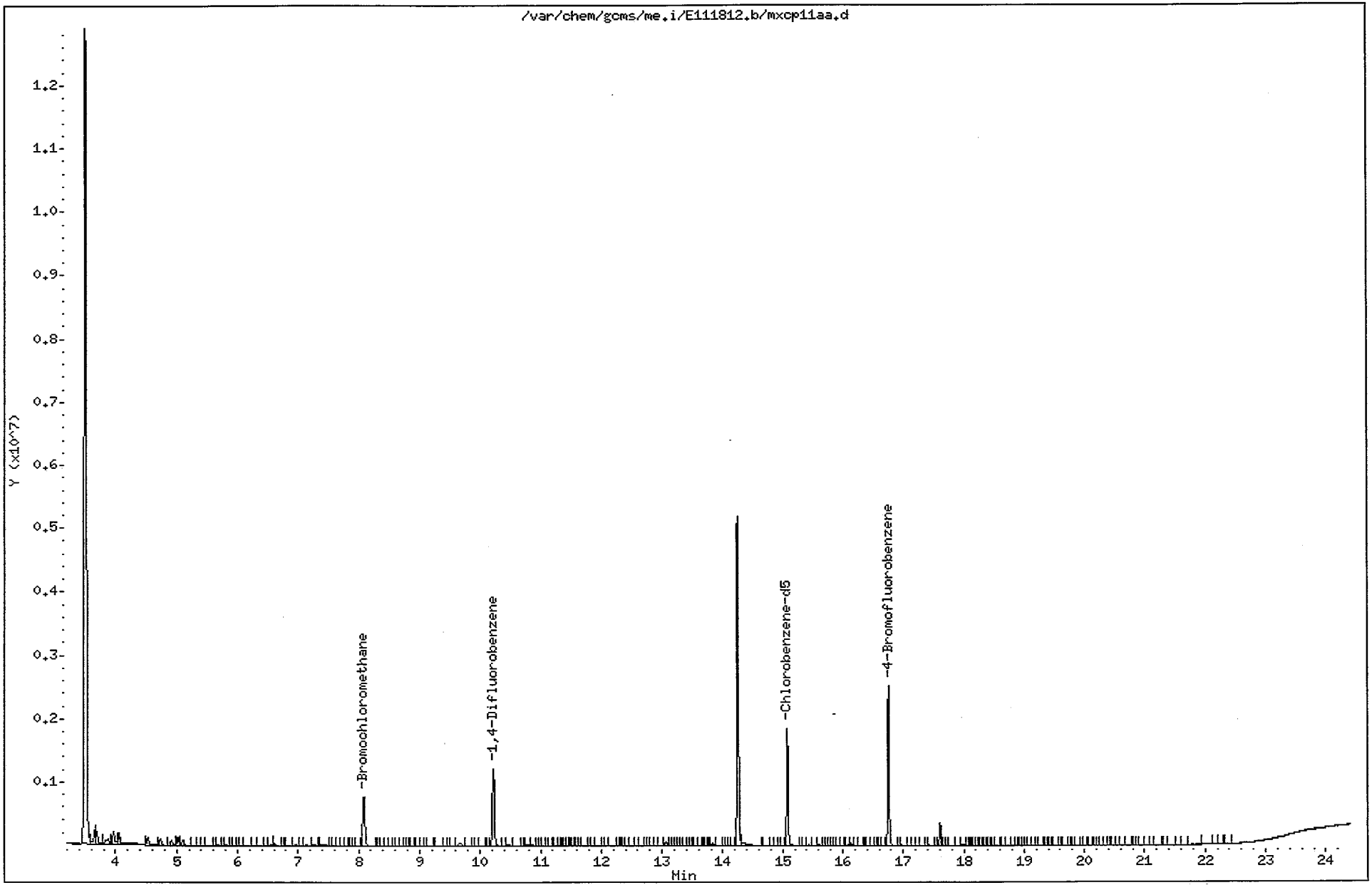
TestAmerica Knoxville

RECOVERY REPORT

Client Name: New York State D.E.C15-NOV-2012 00:00 Client SDG: H2K150429
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MXCP11AA Client Smp ID: 57-AA
Level: LOW Operator: 403648
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allplus.spk Quant Type: ISTD
Sublist File: axi.sub
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.483	112.08	70-130

Data File: /var/chem/gcms/me.i/E111812.b/mxcp11aa.d
Date : 19-NOV-2012 01:34
Client ID: 57-AA
Instrument: me.i
Sample Info: ,,0,,,
Purge Volume: 500.0
Operator: 403648
Column phase: Rtx-5
Column diameter: 0.32



Data File: /var/chem/gcms/me.i/E111812.b/mxcp11aa.d

Date : 19-NOV-2012 01:34

Client ID: 57-AA

Instrument: me.i

Sample Info: ,,0,,,

Purge Volume: 500.0

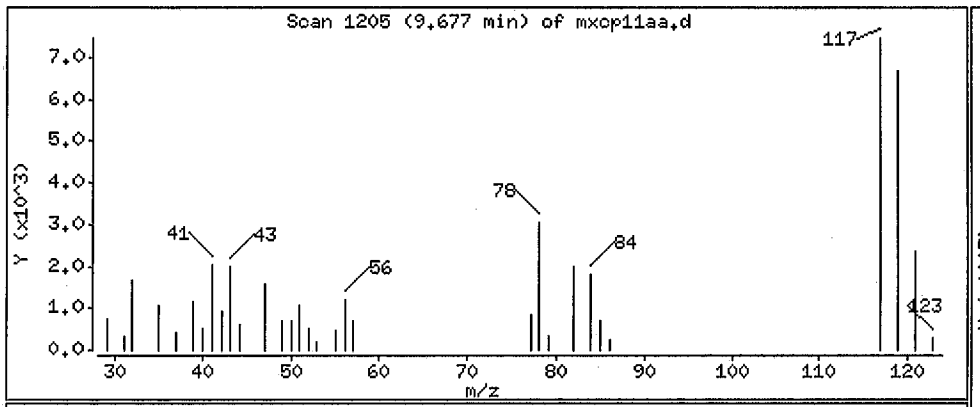
Operator: 403648

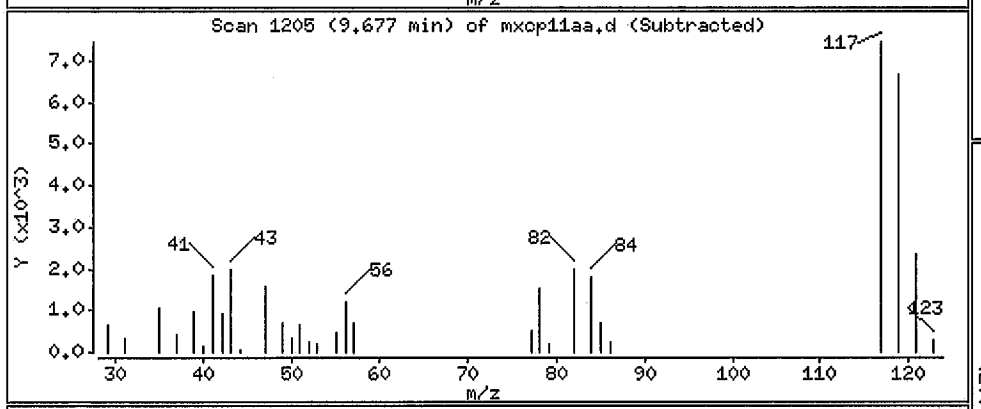
Column phase: Rtx-5

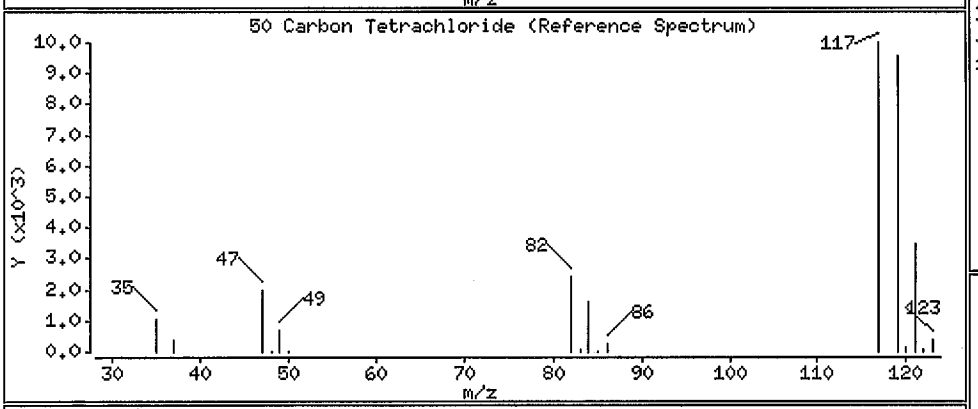
Column diameter: 0.32

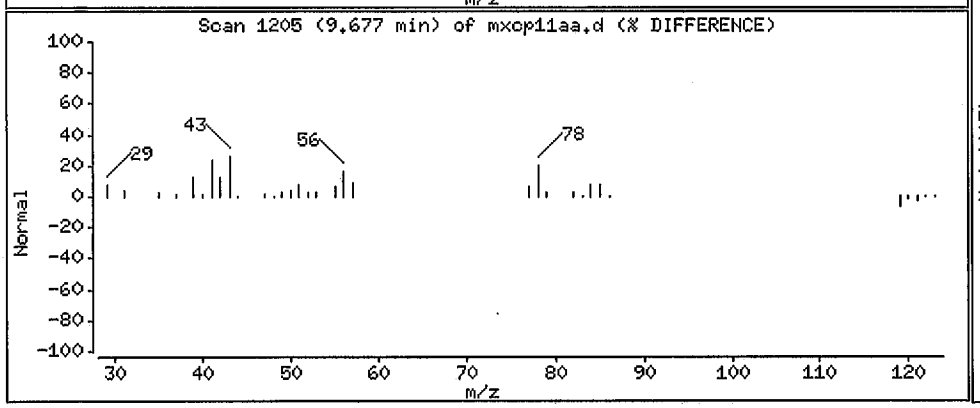
50 Carbon Tetrachloride

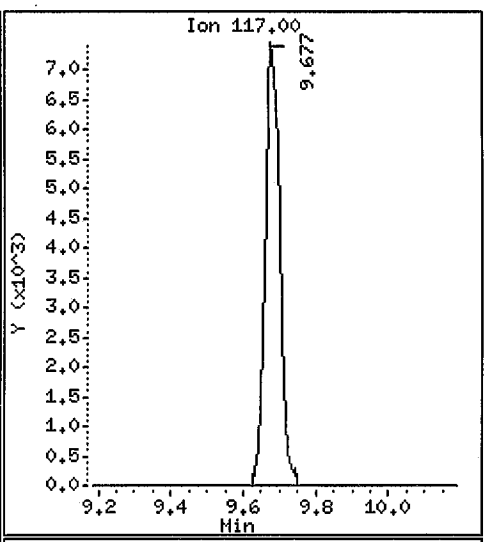
Concentration: 0.09929 ppb(v/v)

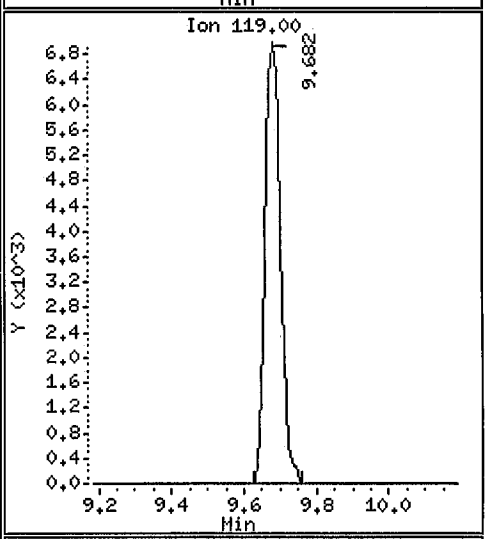


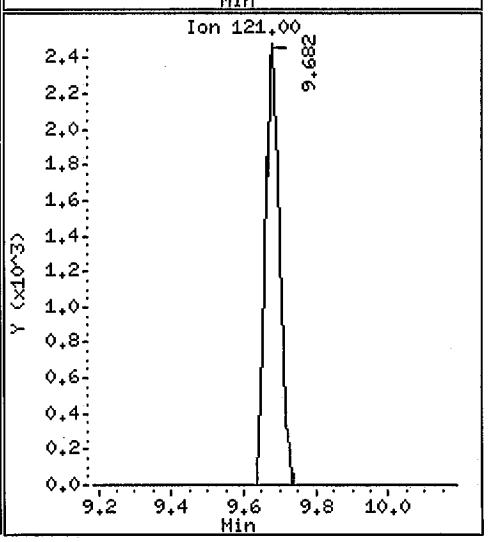












New York State D.E.C

Client Sample ID: 58-BA

GC/MS Volatiles

Lot-Sample #	H2K150429 - 008	**Work Order #**	MXCP21AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/19/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.12**	**0.040**	**0.73**	**0.25**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	ND	0.080	ND	0.54
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	110	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/me.i/E111812.b/mxcp21aa.d
Report Date: 19-Nov-2012 10:08

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E111812.b/mxcp21aa.d
Lab Smp Id: MXCP21AA Client Smp ID: 58-BA
Inj Date : 19-NOV-2012 02:32
Operator : 403648 Inst ID: me.i
Smp Info : ,,0,,,
Misc Info : E111812,TO155,axi.sub,,
Comment :
Method : /var/chem/gcms/me.i/E111812.b/TO155.m
Meth Date : 19-Nov-2012 10:08 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 15:34 Cal File: eick072.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: axi.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
*	1 Bromochloromethane	128	8.091	8.097	(1.000)	210846	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.227	10.227	(1.000)	1006714	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.085	15.085	(1.000)	944221	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.757	16.762	(1.111)	773281	4.40377	4.404
	50 Carbon Tetrachloride	117	9.682	9.688	(0.947)	20902	0.11592	0.1159

Data File: /var/chem/gcms/me.i/E111812.b/mxcp21aa.d
Report Date: 19-Nov-2012 10:08

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: me.i
Lab File ID: mxcp21aa.d
Lab Smp Id: MXCP21AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 403648
Calibration Date: 18-NOV-2012
Calibration Time: 14:50
Client Smp ID: 58-BA
Level: LOW
Sample Type: AIR
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	292927	174292	411562	210846	-28.02
2 1,4-Difluorobenze	1503226	894419	2112033	1006714	-33.03
3 Chlorobenzene-d5	1358775	808471	1909079	944221	-30.51

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.10	7.77	8.43	8.09	-0.07
2 1,4-Difluorobenze	10.23	9.90	10.56	10.23	0.00
3 Chlorobenzene-d5	15.09	14.76	15.42	15.09	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/me.i/E111812.b/mxcp21aa.d
Report Date: 19-Nov-2012 10:08

TestAmerica Knoxville

RECOVERY REPORT

Client Name: New York State D.E.C15-NOV-2012 00:00 Client SDG: H2K150429
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MXCP21AA Client Smp ID: 58-BA
Level: LOW Operator: 403648
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allplus.spk Quant Type: ISTD
Sublist File: axi.sub
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.404	110.09	70-130

Data File: /var/chem/gcms/me.i/E111812.b/mxcp21aa.d
Date : 19-NOV-2012 02:32
Client ID: 58-BA
Sample Info: r,0,,,
Purge Volume: 500.0
Column phase: Rtx-5
Instrument: me.i
Operator: 403648
Column diameter: 0.32
/var/chem/gcms/me.i/E111812.b/mxcp21aa.d
Y (x10^7)
Min
-Bromochloromethane
-1,4-Difluorobenzene
-Chlorobenzene-d5
-4-Bromofluorobenzene

Data File: /var/chem/gcms/me.i/E111812.b/mxcp21aa.d

Date : 19-NOV-2012 02:32

Client ID: 58-BA

Instrument: me.i

Sample Info: ,,0,,,

Purge Volume: 500.0

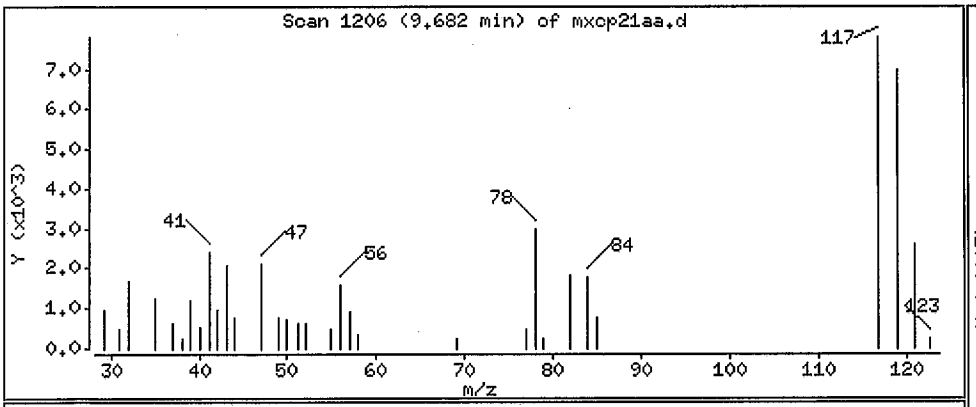
Operator: 403648

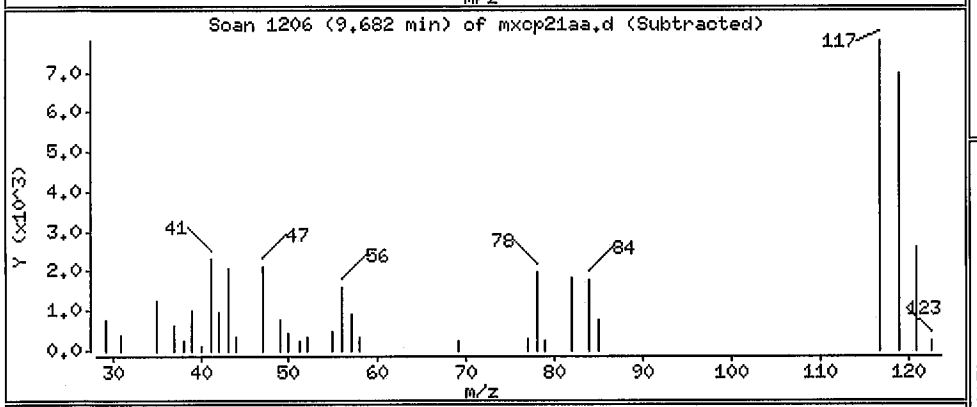
Column phase: Rtx-5

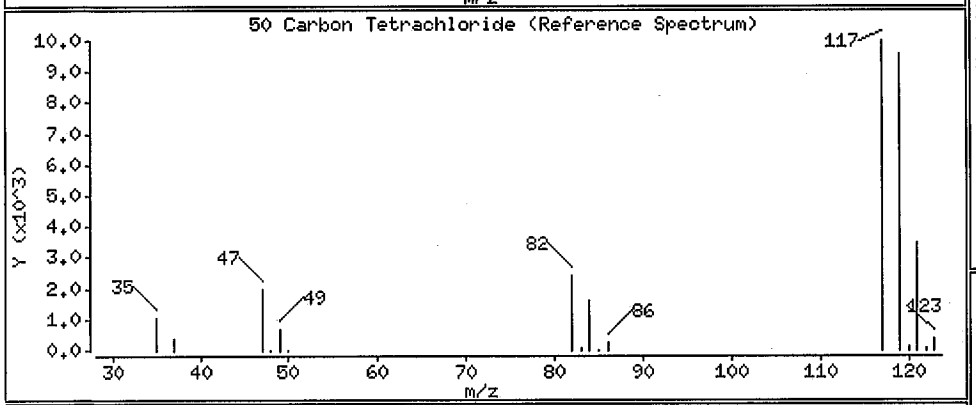
Column diameter: 0.32

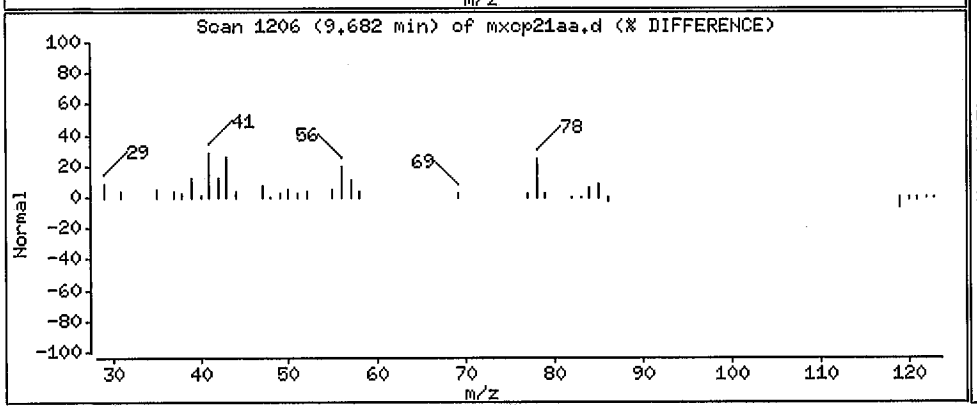
50 Carbon Tetrachloride

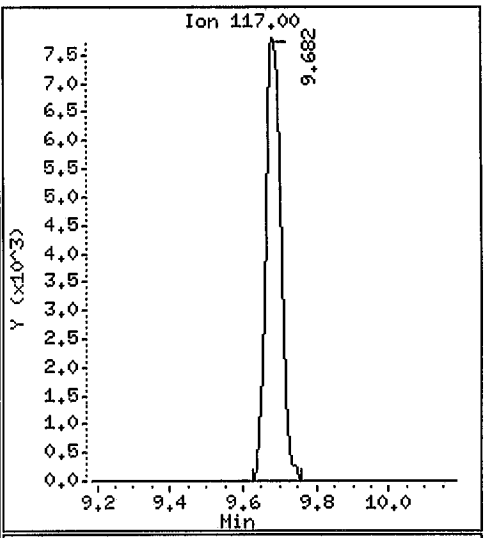
Concentration: 0.1159 ppb(v/v)

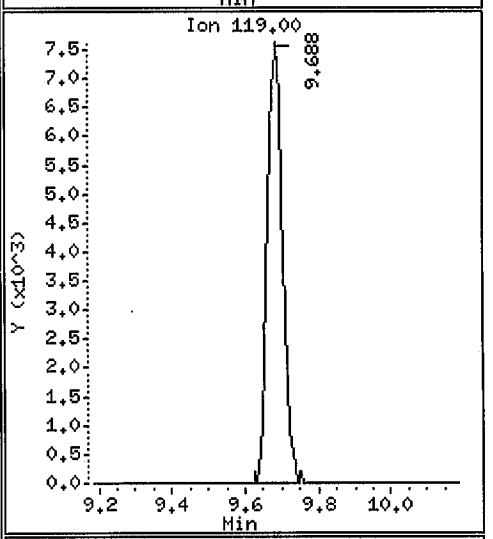


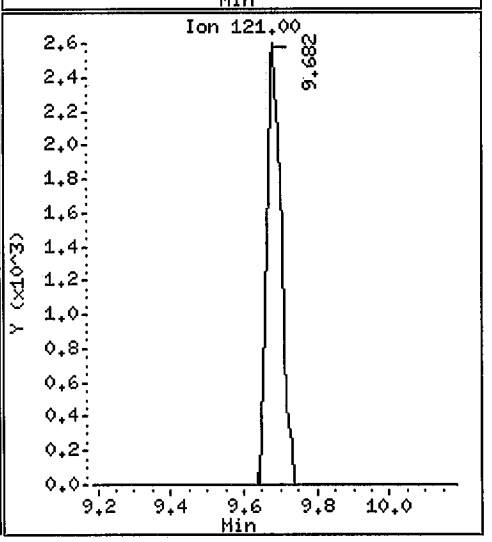












New York State D.E.C

Client Sample ID: 58-AA

GC/MS Volatiles

Lot-Sample #	H2K150429 - 009	**Work Order #**	MXCP41AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/19/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.084**	**0.040**	**0.53**	**0.25**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	ND	0.080	ND	0.54
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	106	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/me.i/E111812.b/mxcp41aa.d
Report Date: 19-Nov-2012 10:08

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E111812.b/mxcp41aa.d
Lab Smp Id: MXCP41AA Client Smp ID: 58-AA
Inj Date : 19-NOV-2012 03:30
Operator : 403648 Inst ID: me.i
Smp Info : ,,0,,,
Misc Info : E111812,TO155,axi.sub,,
Comment :
Method : /var/chem/gcms/me.i/E111812.b/TO155.m
Meth Date : 19-Nov-2012 10:08 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 15:34 Cal File: eick072.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: axi.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.097	8.097	(1.000)	255176	4.00000	4.000
* 2 1,4-Difluorobenzene	114	10.227	10.227	(1.000)	1347005	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.085	15.085	(1.000)	1177360	4.00000	4.000
$ 4 4-Bromofluorobenzene	95	16.757	16.762	(1.111)	930967	4.25193	4.252
50 Carbon Tetrachloride	117	9.682	9.688	(0.947)	20237	0.08388	0.08388

Data File: /var/chem/gcms/me.i/E111812.b/mxcp41aa.d
Report Date: 19-Nov-2012 10:08

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: me.i
Lab File ID: mxcp41aa.d
Lab Smp Id: MXCP41AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 403648
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

Calibration Date: 18-NOV-2012
Calibration Time: 14:50
Client Smp ID: 58-AA
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	292927	174292	411562	255176	-12.89
2 1,4-Difluorobenze	1503226	894419	2112033	1347005	-10.39
3 Chlorobenzene-d5	1358775	808471	1909079	1177360	-13.35

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.10	7.77	8.43	8.10	0.00
2 1,4-Difluorobenze	10.23	9.90	10.56	10.23	0.00
3 Chlorobenzene-d5	15.09	14.76	15.42	15.09	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/me.i/E111812.b/mxcp41aa.d
Report Date: 19-Nov-2012 10:08

TestAmerica Knoxville

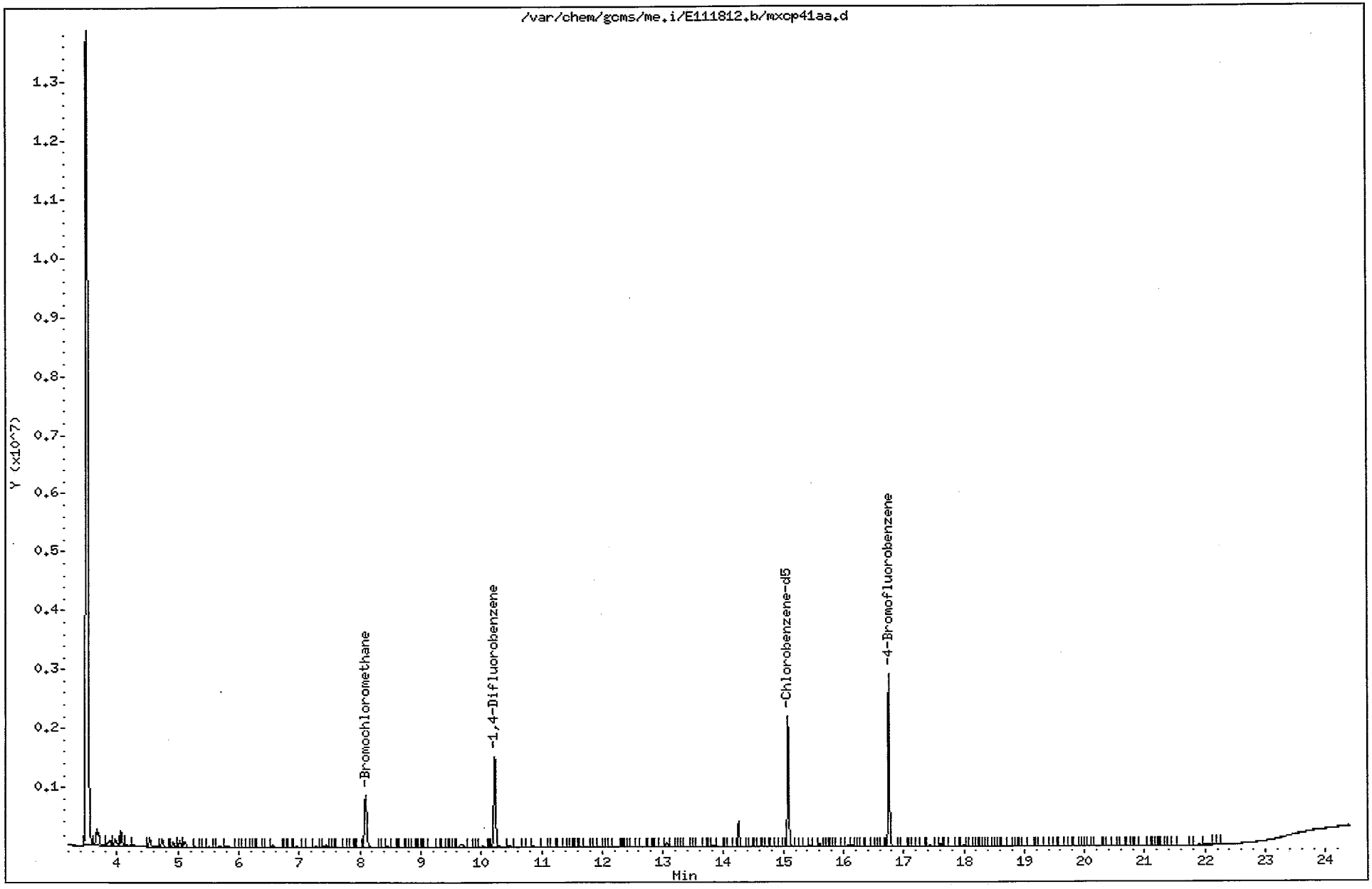
RECOVERY REPORT

Client Name: New York State D.E.C15-NOV-2012 00:00 Client SDG: H2K150429
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MXCP41AA Client Smp ID: 58-AA
Level: LOW Operator: 403648
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allplus.spk Quant Type: ISTD
Sublist File: axi.sub
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.252	106.30	70-130

Data File: /var/chem/gcms/me.i/E111812.b/mxcp41aa.d
Date : 19-NOV-2012 03:30
Client ID: 58-AA
Sample Info: ,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: me.i
Operator: 403648
Column diameter: 0.32



Data File: /var/chem/gcms/me.i/E111812.b/mxop41aa.d

Date : 19-NOV-2012 03:30

Client ID: 58-AA

Instrument: me.i

Sample Info: ,,0,,,

Purge Volume: 500.0

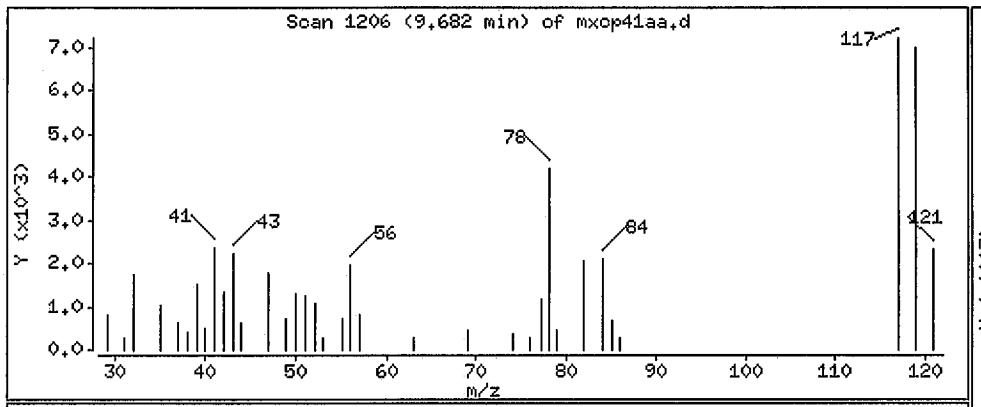
Operator: 403648

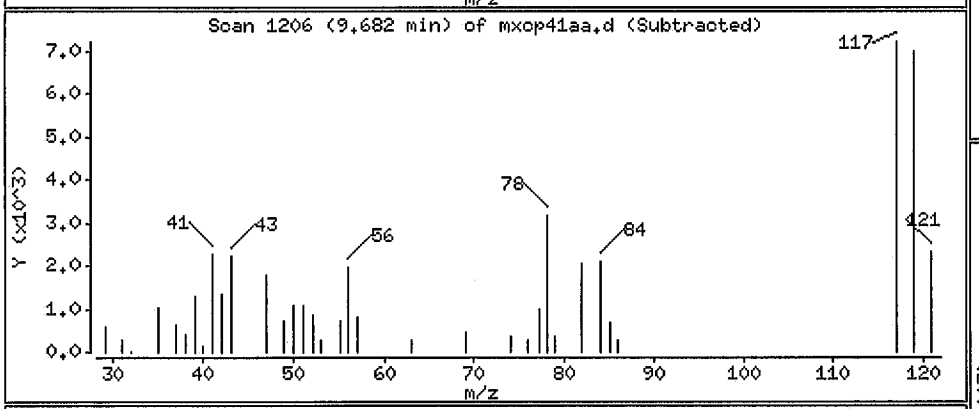
Column phase: Rtx-5

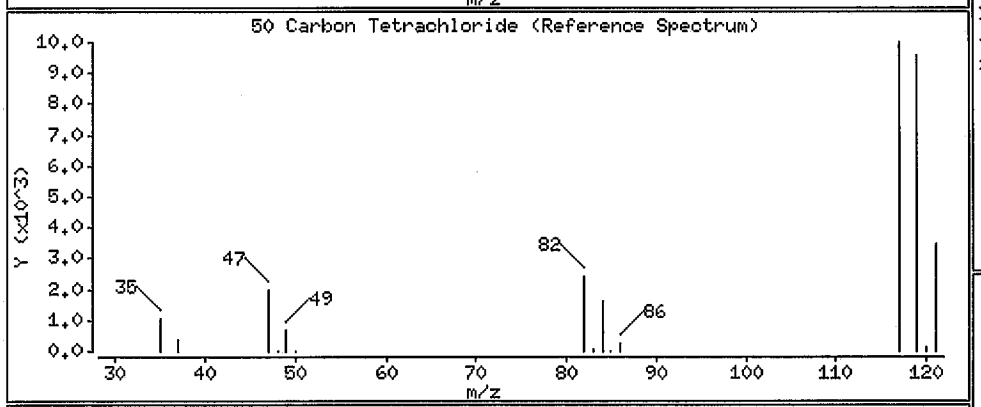
Column diameter: 0.32

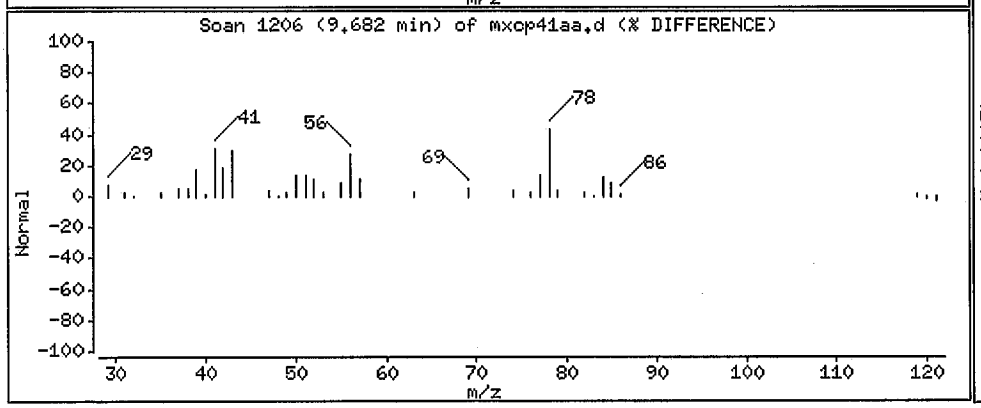
50 Carbon Tetrachloride

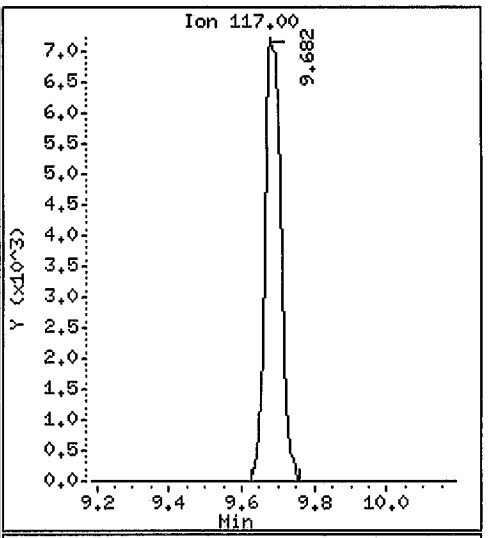
Concentration: 0.08388 ppb(v/v)

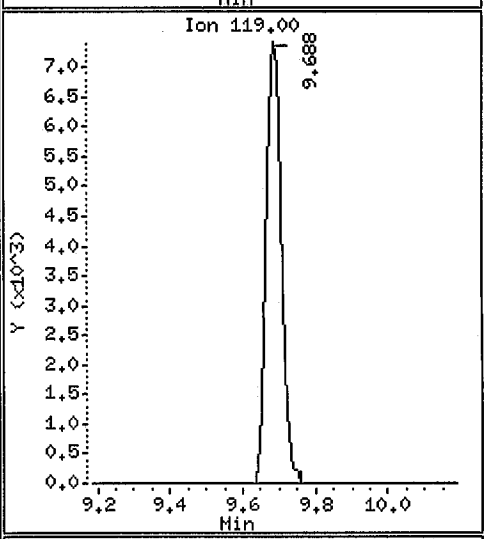


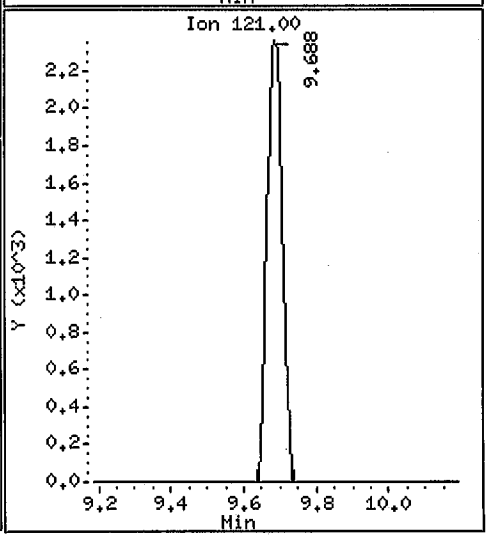












New York State D.E.C

Client Sample ID: 59-SS

GC/MS Volatiles

Lot-Sample #	H2K150429 - 010	**Work Order #**	MXCP51AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/19/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.076**	**0.040**	**0.48**	**0.25**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	ND	0.080	ND	0.54
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	108	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/me.i/E111812.b/mxcp51aa.d
Report Date: 19-Nov-2012 10:08

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E111812.b/mxcp51aa.d
Lab Smp Id: MXCP51AA Client Smp ID: 59-SS
Inj Date : 19-NOV-2012 04:27
Operator : 403648 Inst ID: me.i
Smp Info : ,,0,,,
Misc Info : E111812,TO155,axi.sub,,
Comment :
Method : /var/chem/gcms/me.i/E111812.b/TO155.m
Meth Date : 19-Nov-2012 10:08 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 15:34 Cal File: eick072.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: axi.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.092	8.097	(1.000)	268864	4.00000	4.000
* 2 1,4-Difluorobenzene	114	10.227	10.227	(1.000)	1440523	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.086	15.085	(1.000)	1198012	4.00000	4.000
$ 4 4-Bromofluorobenzene	95	16.757	16.762	(1.111)	965040	4.33157	4.332
50 Carbon Tetrachloride	117	9.682	9.688	(0.947)	19692	0.07632	0.07632

Data File: /var/chem/gcms/me.i/E111812.b/mxcp51aa.d
Report Date: 19-Nov-2012 10:08

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: me.i
Lab File ID: mxcp51aa.d
Lab Smp Id: MXCP51AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 403648
Calibration Date: 18-NOV-2012
Calibration Time: 14:50
Client Smp ID: 59-SS
Level: LOW
Sample Type: AIR
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	292927	174292	411562	268864	-8.21
2 1,4-Difluorobenze	1503226	894419	2112033	1440523	-4.17
3 Chlorobenzene-d5	1358775	808471	1909079	1198012	-11.83

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.10	7.77	8.43	8.09	-0.06
2 1,4-Difluorobenze	10.23	9.90	10.56	10.23	0.00
3 Chlorobenzene-d5	15.09	14.76	15.42	15.09	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/me.i/E111812.b/mxcp51aa.d
Report Date: 19-Nov-2012 10:08

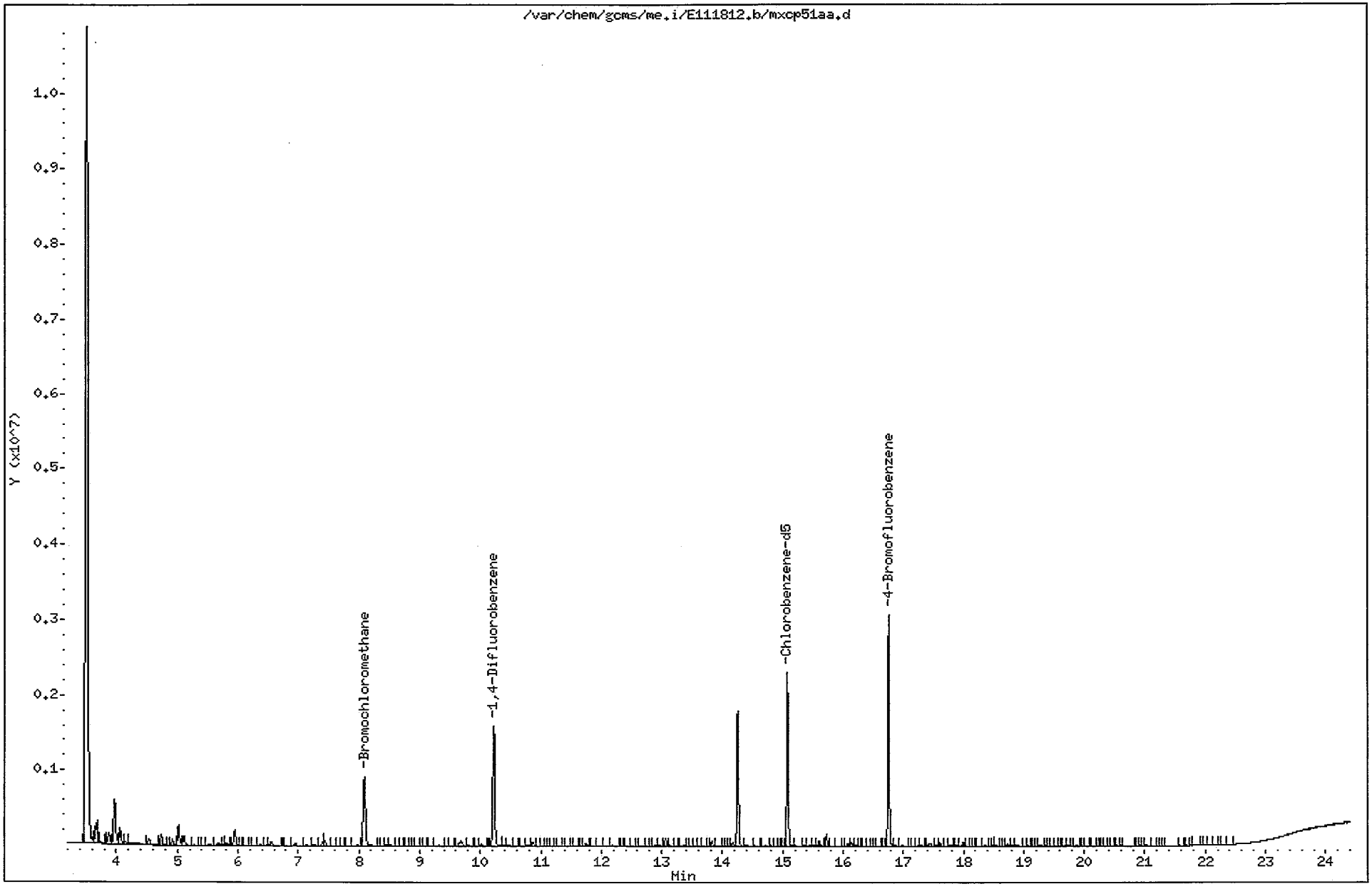
TestAmerica Knoxville

RECOVERY REPORT

Client Name: New York State D.E.C15-NOV-2012 00:00 Client SDG: H2K150429
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MXCP51AA Client Smp ID: 59-SS
Level: LOW Operator: 403648
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allplus.spk Quant Type: ISTD
Sublist File: axi.sub
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.332	108.29	70-130

Data File: /var/chem/gcms/me.i/E111812.b/mxcp51aa.d
Date : 19-NOV-2012 04:27
Client ID: 59-SS
Instrument: me.i
Sample Info: ,,0,,,
Purge Volume: 500.0
Operator: 403648
Column phase: Rtx-5
Column diameter: 0.32



Data File: /var/chem/gcms/me.i/E111812.b/mxop51aa.d

Date : 19-NOV-2012 04:27

Client ID: 59-SS

Instrument: me.i

Sample Info: ,,0,,,

Purge Volume: 500.0

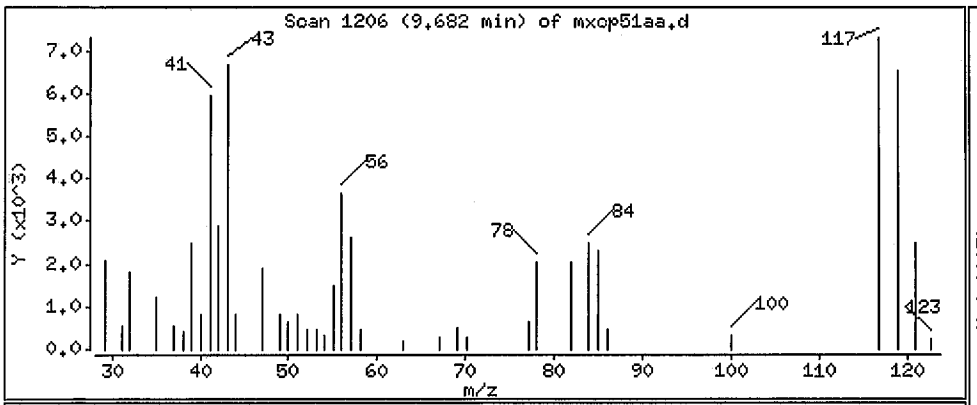
Operator: 403648

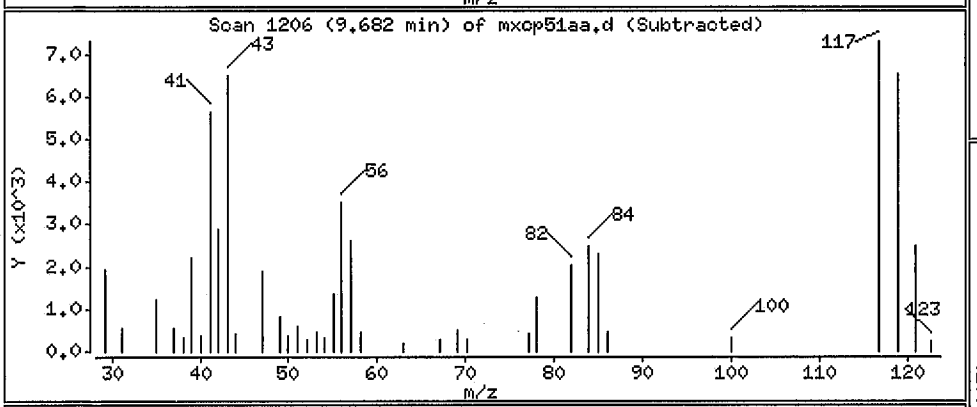
Column phase: Rtx-5

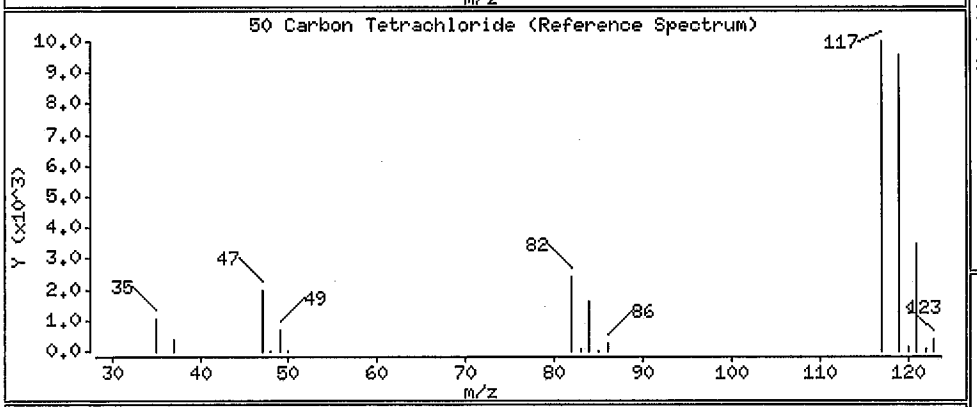
Column diameter: 0.32

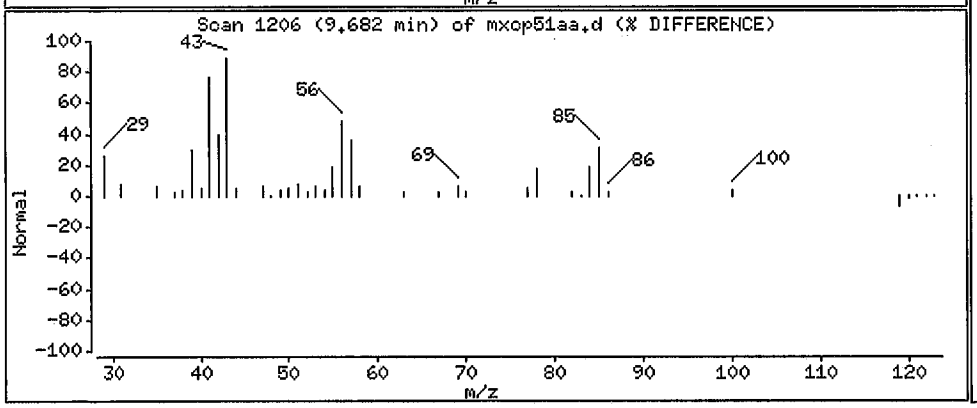
50 Carbon Tetrachloride

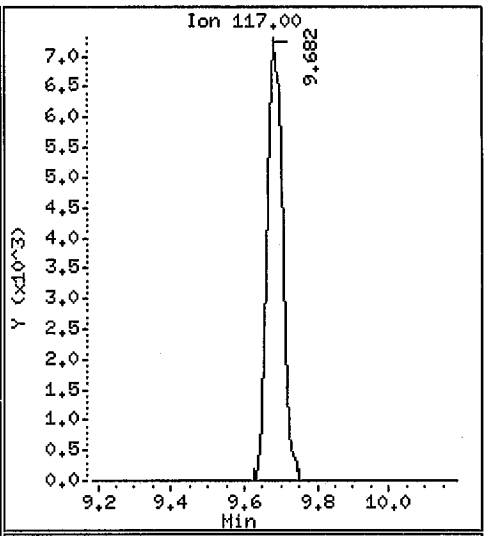
Concentration: 0.07632 ppb(v/v)

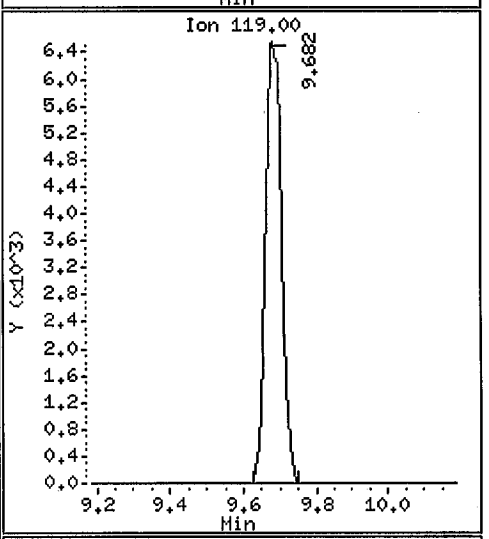


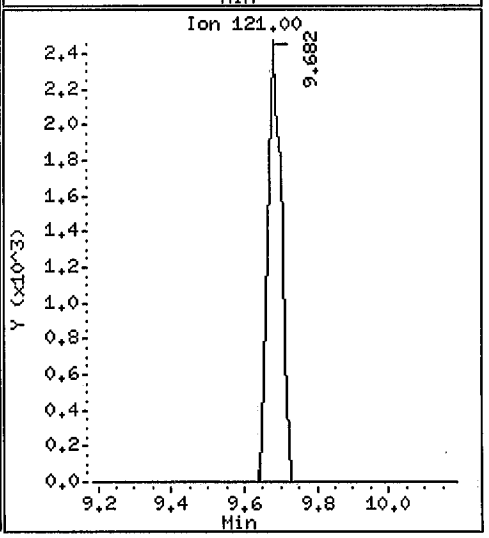












New York State D.E.C

Client Sample ID: 59-BA

GC/MS Volatiles

Lot-Sample #	H2K150429 - 011	**Work Order #**	MXCP71AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/19/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.081**	**0.040**	**0.51**	**0.25**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	ND	0.080	ND	0.54
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	107	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/me.i/E111812.b/mxcp71aa.d
Report Date: 19-Nov-2012 10:08

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E111812.b/mxcp71aa.d
Lab Smp Id: MXCP71AA Client Smp ID: 59-BA
Inj Date : 19-NOV-2012 05:26
Operator : 403648 Inst ID: me.i
Smp Info : ,,0,,,
Misc Info : E111812,TO155,axi.sub,,
Comment :
Method : /var/chem/gcms/me.i/E111812.b/TO155.m
Meth Date : 19-Nov-2012 10:08 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 15:34 Cal File: eick072.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: axi.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.097	8.097	(1.000)	272151	4.00000	4.000
* 2 1,4-Difluorobenzene	114	10.227	10.227	(1.000)	1437153	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.085	15.085	(1.000)	1191214	4.00000	4.000
$ 4 4-Bromofluorobenzene	95	16.762	16.762	(1.111)	948528	4.28175	4.282
50 Carbon Tetrachloride	117	9.688	9.688	(0.947)	20931	0.08132	0.08132

Data File: /var/chem/gcms/me.i/E111812.b/mxcp71aa.d
Report Date: 19-Nov-2012 10:08

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: me.i
Lab File ID: mxcp71aa.d
Lab Smp Id: MXCP71AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 403648
Calibration Date: 18-NOV-2012
Calibration Time: 14:50
Client Smp ID: 59-BA
Level: LOW
Sample Type: AIR
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	292927	174292	411562	272151	-7.09
2 1,4-Difluorobenze	1503226	894419	2112033	1437153	-4.40
3 Chlorobenzene-d5	1358775	808471	1909079	1191214	-12.33

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.10	7.77	8.43	8.10	0.00
2 1,4-Difluorobenze	10.23	9.90	10.56	10.23	0.00
3 Chlorobenzene-d5	15.09	14.76	15.42	15.09	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/me.i/E111812.b/mxcp71aa.d
Report Date: 19-Nov-2012 10:08

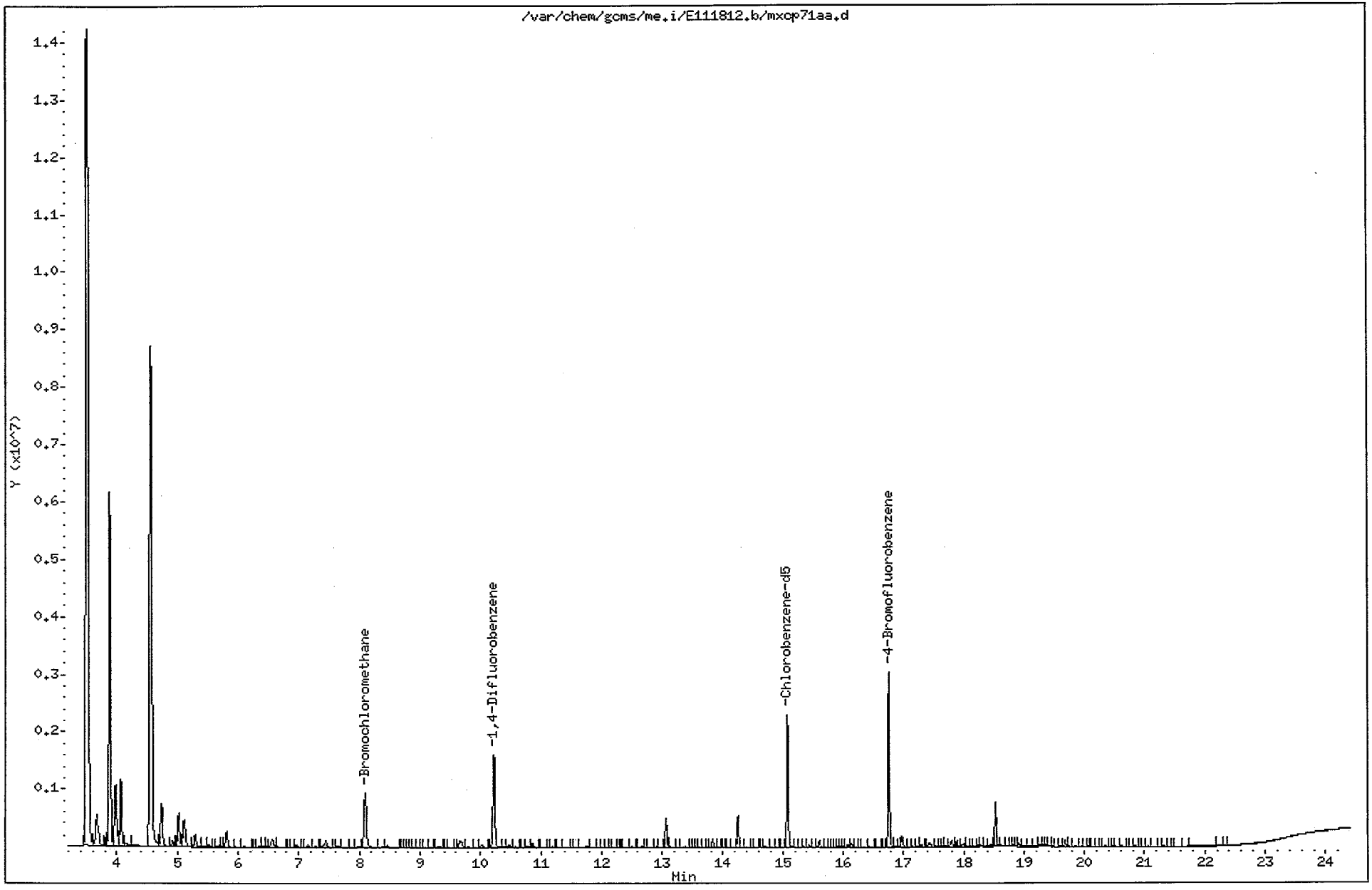
TestAmerica Knoxville

RECOVERY REPORT

Client Name: New York State D.E.C15-NOV-2012 00:00 Client SDG: H2K150429
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MXCP71AA Client Smp ID: 59-BA
Level: LOW Operator: 403648
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allplus.spk Quant Type: ISTD
Sublist File: axi.sub
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.282	107.04	70-130

Data File: /var/chem/gcms/me.i/E111812.b/mxcp71aa.d
Date : 19-NOV-2012 05:26
Client ID: 59-BA
Instrument: me.i
Sample Info: ,,0,,,
Purge Volume: 500.0
Operator: 403648
Column phase: Rtx-5
Column diameter: 0.32



Data File: /var/chem/gcms/me.i/E111812.b/mxop71aa.d

Date : 19-NOV-2012 05:26

Client ID: 59-BA

Instrument: me.i

Sample Info: ,,0,,,

Purge Volume: 500.0

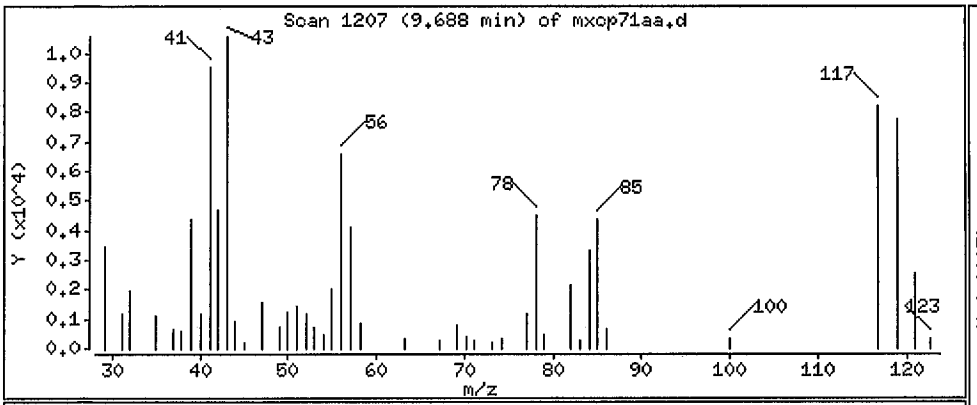
Operator: 403648

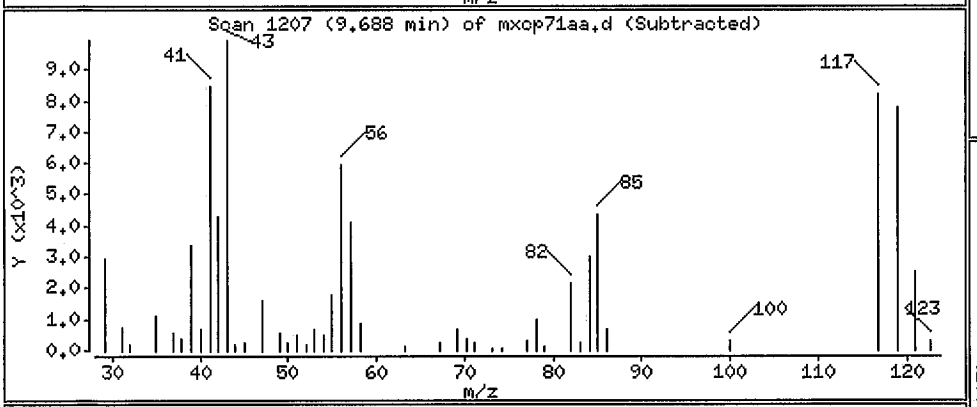
Column phase: Rtx-5

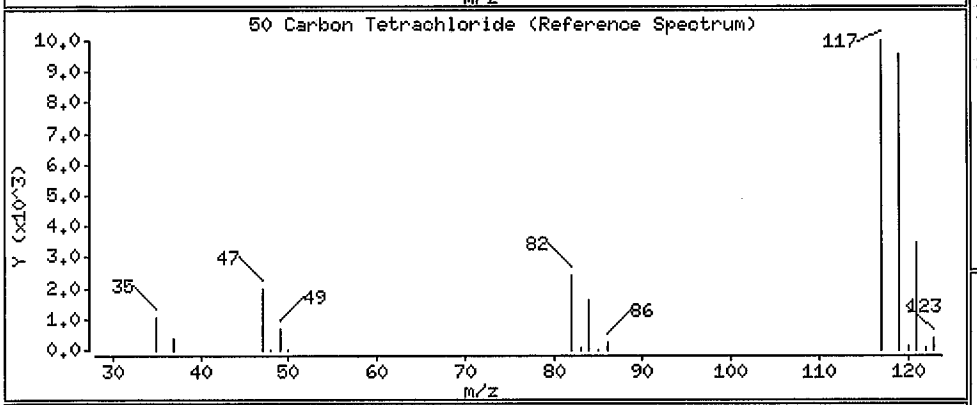
Column diameter: 0.32

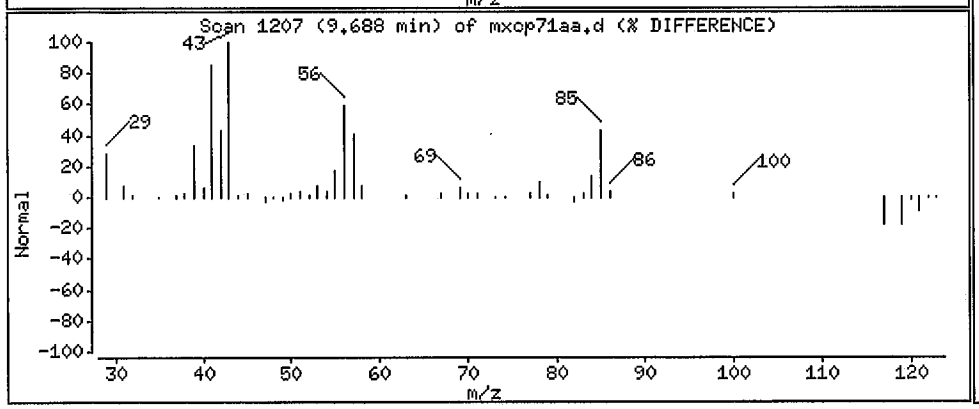
50 Carbon Tetrachloride

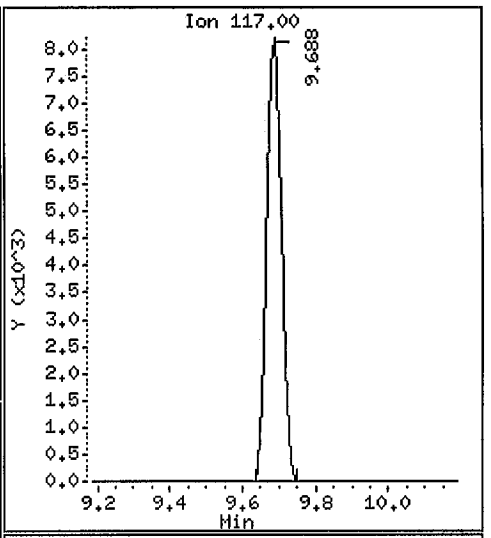
Concentration: 0.08132 ppb(v/v)

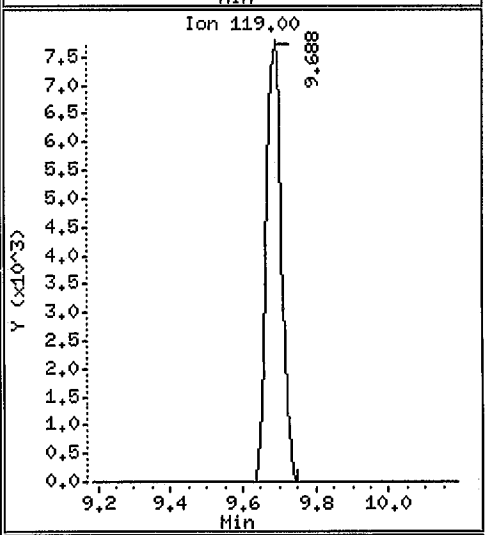


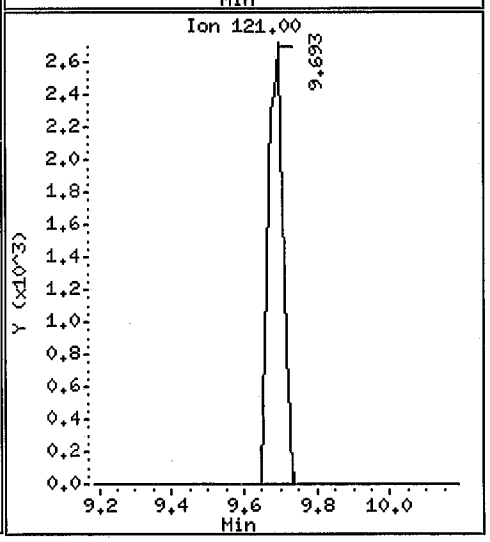












New York State D.E.C

Client Sample ID: 59-AA

GC/MS Volatiles

Lot-Sample #	H2K150429 - 012	**Work Order #**	MXCP81AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/19/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1.08	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.082**	**0.043**	**0.51**	**0.27**
cis-1,2-Dichloroethene	ND	0.086	ND	0.34
trans-1,2-Dichloroethene	ND	0.086	ND	0.34
1,1-Dichloroethene	ND	0.086	ND	0.34
Tetrachloroethene	ND	0.086	ND	0.59
1,1,1-Trichloroethane	ND	0.086	ND	0.47
Trichloroethene	ND	0.043	ND	0.23
Vinyl chloride	ND	0.086	ND	0.22

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	105	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/me.i/E111812.b/mxcp81aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E111812.b/mxcp81aa.d
Lab Smp Id: MXCP81AA Client Smp ID: 59-AA
Inj Date : 19-NOV-2012 06:31
Operator : 403648 Inst ID: me.i
Smp Info : ,1.08,0,,,
Misc Info : E111812,TO155,axi.sub,,
Comment :
Method : /var/chem/gcms/me.i/E111812.b/TO155.m
Meth Date : 19-Nov-2012 10:08 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 15:34 Cal File: eick072.d
Als bottle: 12
Dil Factor: 1.08000
Integrator: HP RTE Compound Sublist: axi.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.08000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.086	8.097	(1.000)	265391	4.00000	4.000
* 2 1,4-Difluorobenzene	114	10.221	10.227	(1.000)	1418659	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.080	15.085	(1.000)	1182867	4.00000	4.000
$ 4 4-Bromofluorobenzene	95	16.757	16.762	(1.111)	920950	4.18660	4.186
50 Carbon Tetrachloride	117	9.682	9.688	(0.947)	19228	0.07567	0.08173

Data File: /var/chem/gcms/me.i/E111812.b/mxcp81aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: me.i
Lab File ID: mxcp81aa.d
Lab Smp Id: MXCP81AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 403648
Calibration Date: 18-NOV-2012
Calibration Time: 14:50
Client Smp ID: 59-AA
Level: LOW
Sample Type: AIR
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	292927	174292	411562	265391	-9.40
2 1,4-Difluorobenze	1503226	894419	2112033	1418659	-5.63
3 Chlorobenzene-d5	1358775	808471	1909079	1182867	-12.95

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.10	7.77	8.43	8.09	-0.14
2 1,4-Difluorobenze	10.23	9.90	10.56	10.22	-0.05
3 Chlorobenzene-d5	15.09	14.76	15.42	15.08	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/me.i/E111812.b/mxcp81aa.d
Report Date: 19-Nov-2012 10:09

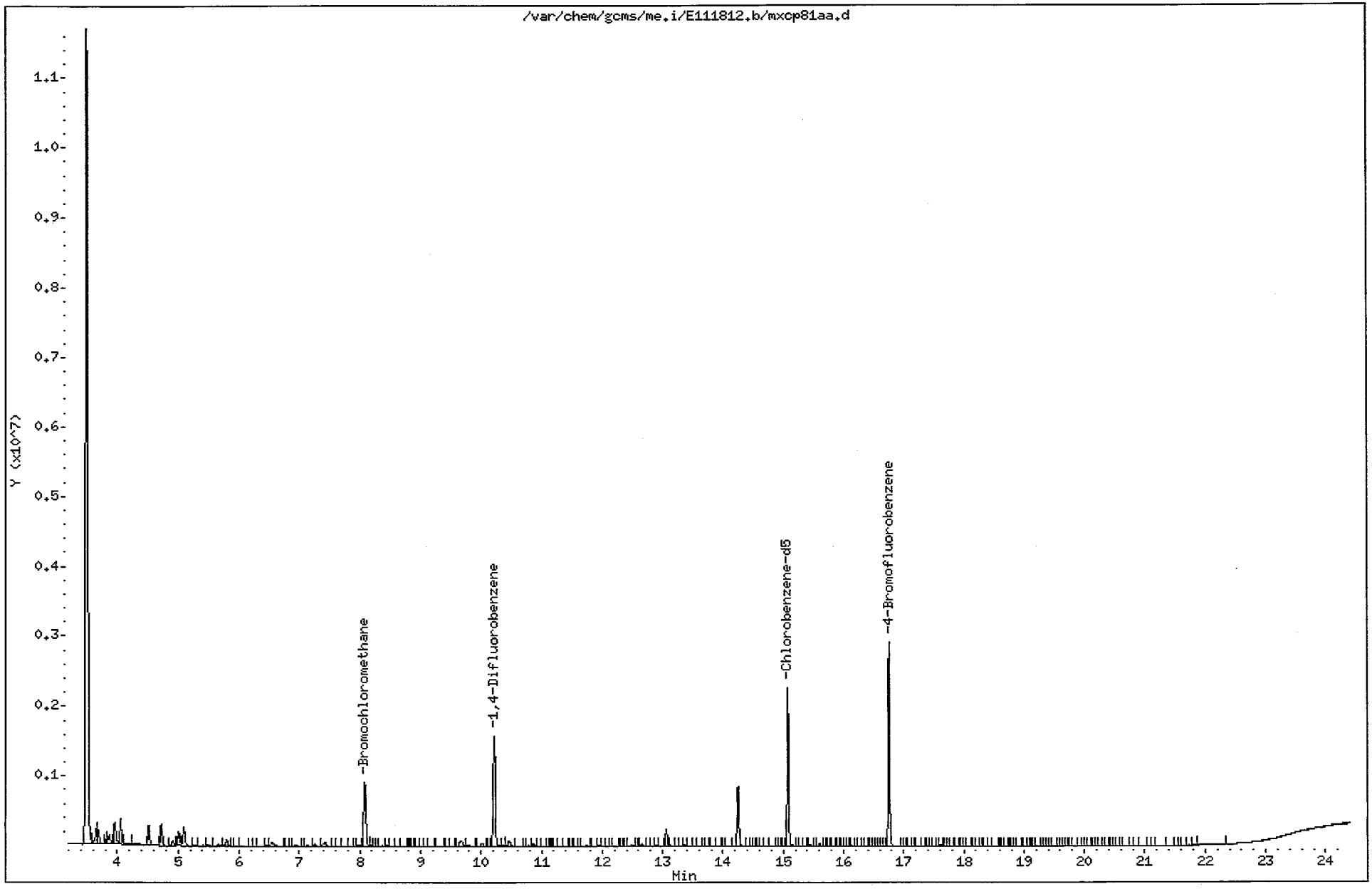
TestAmerica Knoxville

RECOVERY REPORT

Client Name: New York State D.E.C15-NOV-2012 00:00 Client SDG: H2K150429
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MXCP81AA Client Smp ID: 59-AA
Level: LOW Operator: 403648
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allplus.spk Quant Type: ISTD
Sublist File: axi.sub
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.186	104.66	70-130

Data File: /var/chem/gcms/me.i/E111812.b/mxcp81aa.d
Date : 19-NOV-2012 06:31
Client ID: 59-AA
Instrument: me.i
Sample Info: ,1.08,0,,,
Purge Volume: 500.0
Operator: 403648
Column phase: Rtx-5
Column diameter: 0.32



Data File: /var/chem/gcms/me.i/E111812.b/mxop81aa.d

Date : 19-NOV-2012 06:31

Client ID: 59-AA

Instrument: me.i

Sample Info: ,1.08,0,,,

Purge Volume: 500.0

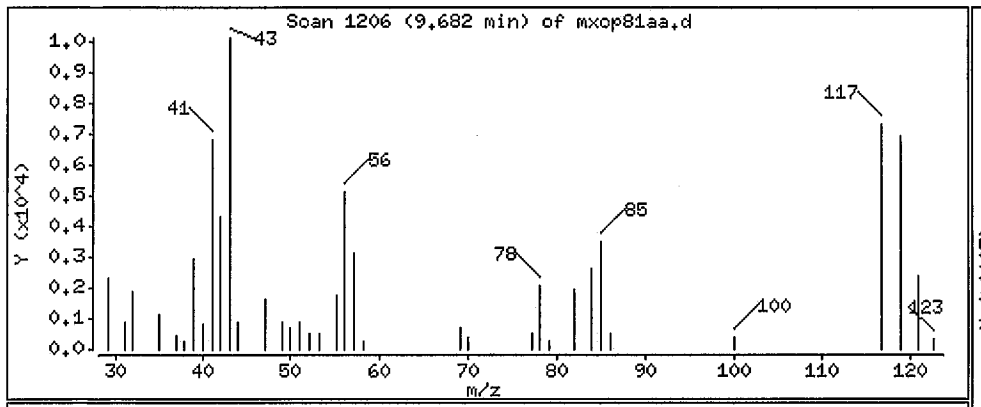
Operator: 403648

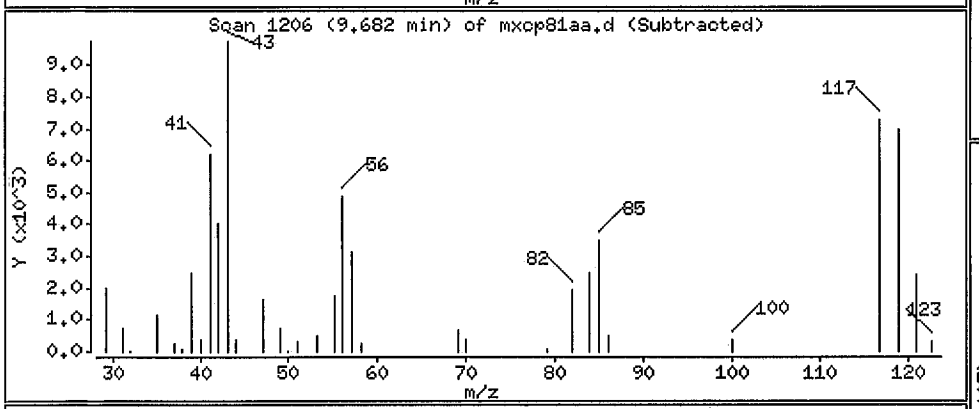
Column phase: Rtx-5

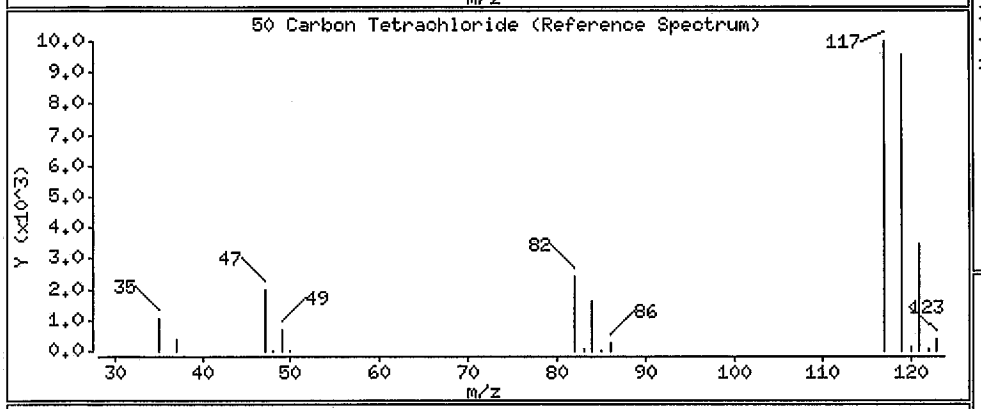
Column diameter: 0.32

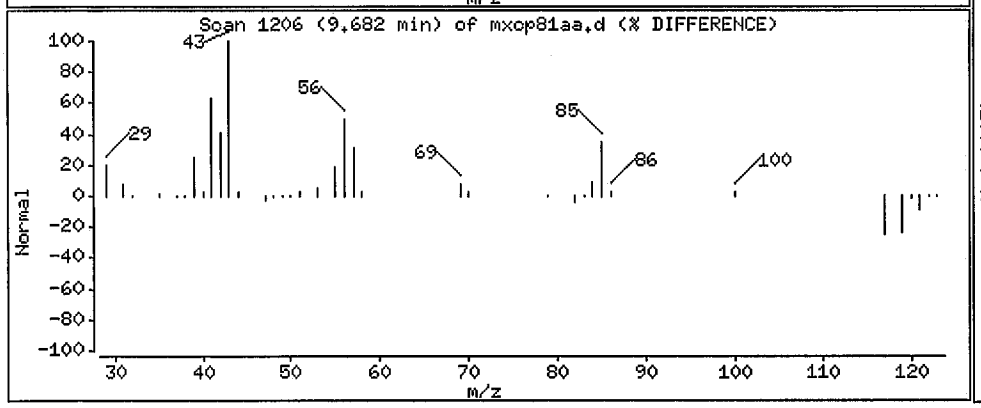
50 Carbon Tetrachloride

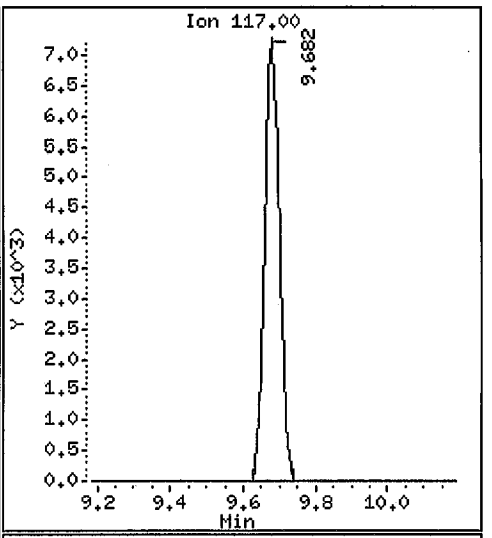
Concentration: 0.08173 ppb(v/v)

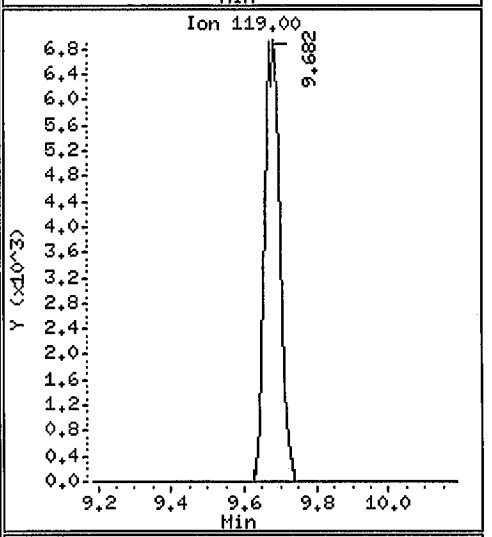


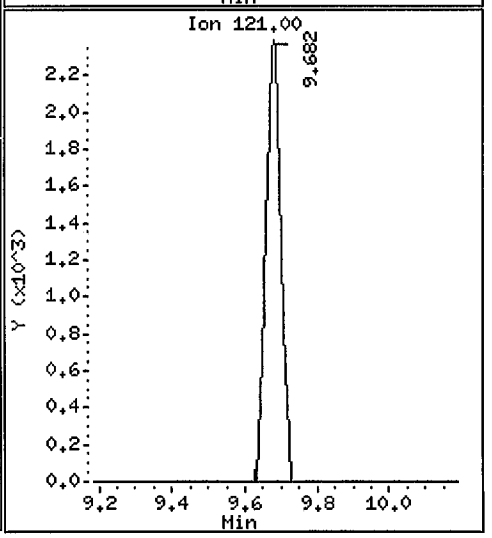












New York State D.E.C

Client Sample ID: DUP-SS

GC/MS Volatiles

Lot-Sample #	H2K150429 - 013	**Work Order #**	MXCQA1AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/19/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.094**	**0.040**	**0.59**	**0.25**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	ND	0.080	ND	0.54
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	107	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/me.i/E111812.b/mxcqa1aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E111812.b/mxcqa1aa.d
Lab Smp Id: MXCQA1AA Client Smp ID: DUP SS
Inj Date : 19-NOV-2012 07:27
Operator : 403648 Inst ID: me.i
Smp Info : ,,0,,,
Misc Info : E111812,TO155,axi.sub,,
Comment :
Method : /var/chem/gcms/me.i/E111812.b/TO155.m
Meth Date : 19-Nov-2012 10:08 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 15:34 Cal File: eick072.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: axi.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.086	8.097	(1.000)	232276	4.00000	4.000
* 2 1,4-Difluorobenzene	114	10.221	10.227	(1.000)	1154621	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.080	15.085	(1.000)	975640	4.00000	4.000
$ 4 4-Bromofluorobenzene	95	16.757	16.762	(1.111)	779579	4.29666	4.297
50 Carbon Tetrachloride	117	9.677	9.688	(0.947)	19464	0.09412	0.09412

Data File: /var/chem/gcms/me.i/E111812.b/mxcqa1aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: me.i
Lab File ID: mxcqa1aa.d
Lab Smp Id: MXCQA1AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 403648
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

Calibration Date: 18-NOV-2012
Calibration Time: 14:50
Client Smp ID: DUP SS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	292927	174292	411562	232276	-20.71
2 1,4-Difluorobenze	1503226	894419	2112033	1154621	-23.19
3 Chlorobenzene-d5	1358775	808471	1909079	975640	-28.20

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.10	7.77	8.43	8.09	-0.13
2 1,4-Difluorobenze	10.23	9.90	10.56	10.22	-0.05
3 Chlorobenzene-d5	15.09	14.76	15.42	15.08	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

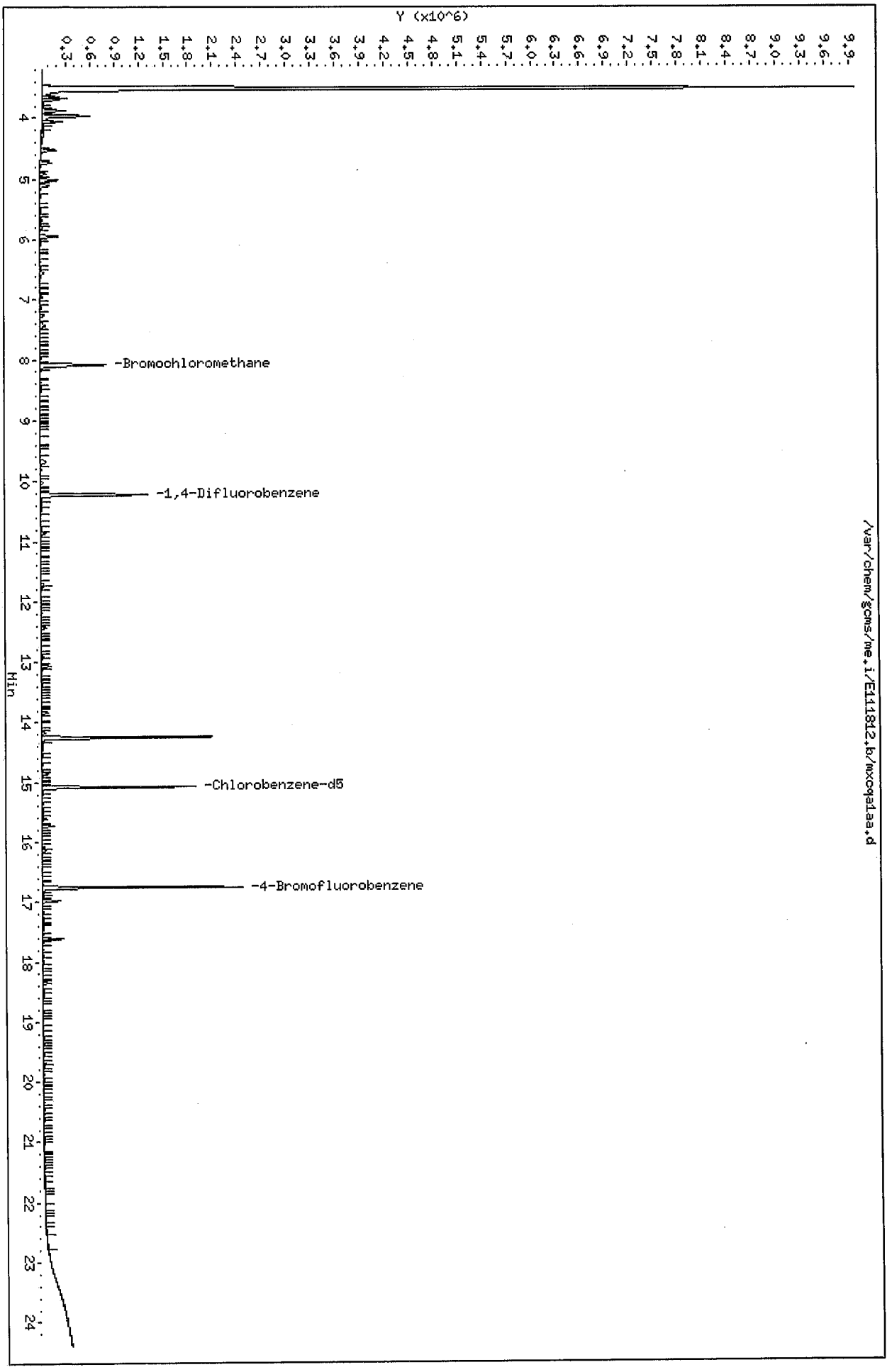
Data File: /var/chem/gcms/me.i/E111812.b/mxcqa1aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

RECOVERY REPORT

Client Name: New York State D.E.C15-NOV-2012 00:00 Client SDG: H2K150429
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MXCQA1AA Client Smp ID: DUP SS
Level: LOW Operator: 403648
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allplus.spk Quant Type: ISTD
Sublist File: axi.sub
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.297	107.42	70-130


Data File: /var/chem/gcms/me.i/E111812.b/mxcq1aa.d
Date : 19-NOV-2012 07:27
Client ID: DUP SS
Sample Info: ,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5
Instrument: me.i
Operator: 403648
Column diameter: 0.32
/var/chem/gcms/me.i/E111812.b/mxcq1aa.d
Y (x10^6)
Min
-Bromochloromethane
-1,4-Difluorobenzene
-Chlorobenzene-d5
-4-Bromofluorobenzene

Data File: /var/chem/gcms/me.i/E111812.b/mxcqa1aa.d

Date : 19-NOV-2012 07:27

Client ID: DUP SS

Instrument: me.i

Sample Info: ,,0,,,

Purge Volume: 500.0

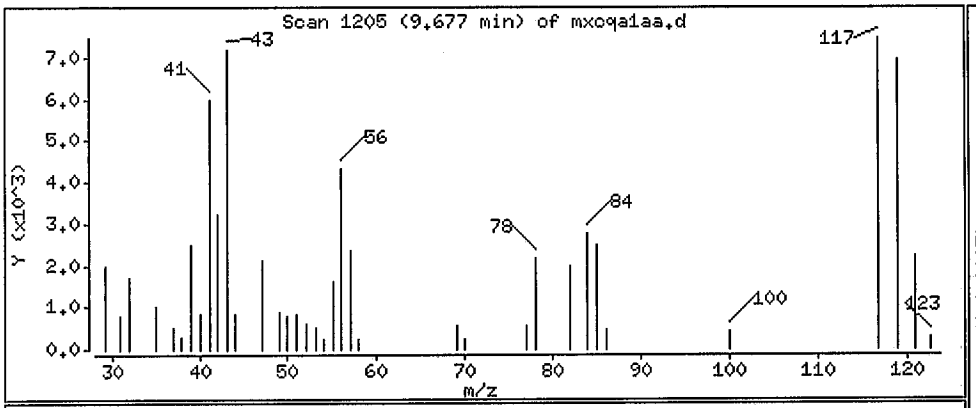
Operator: 403648

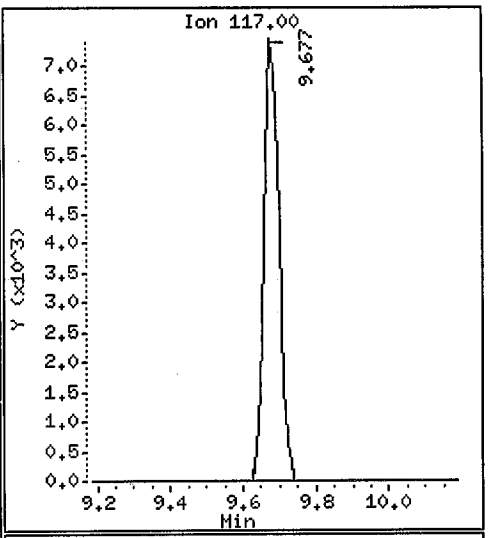
Column phase: Rtx-5

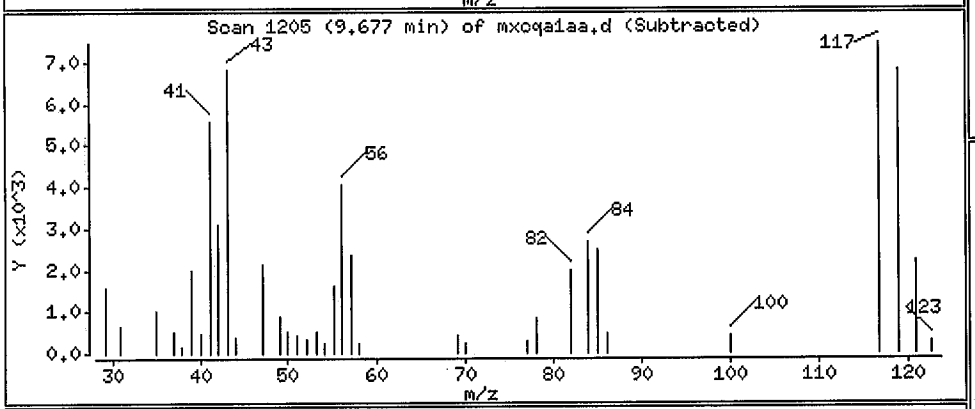
Column diameter: 0.32

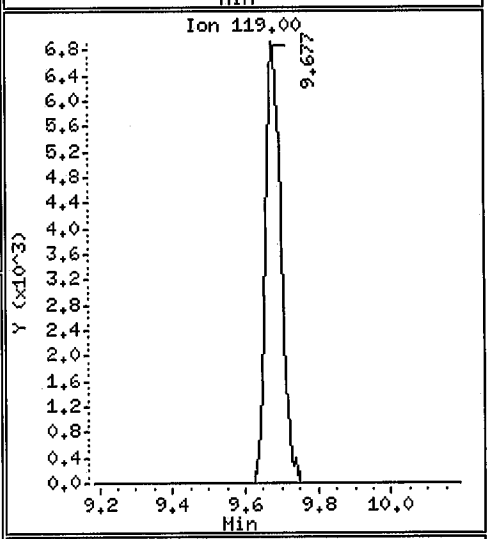
50 Carbon Tetrachloride

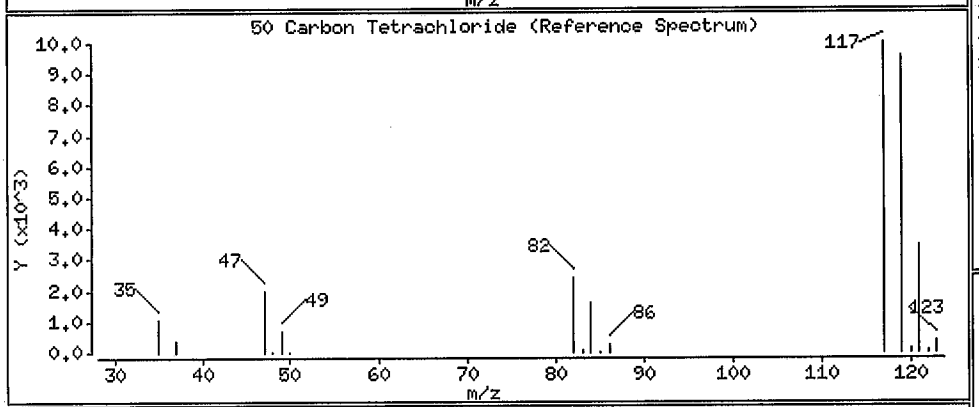
Concentration: 0.09412 ppb(v/v)

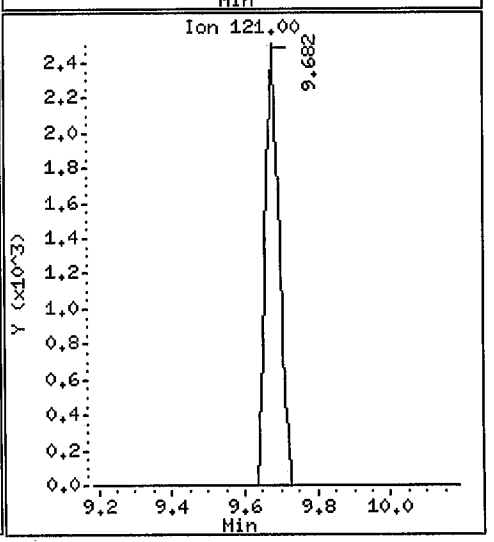


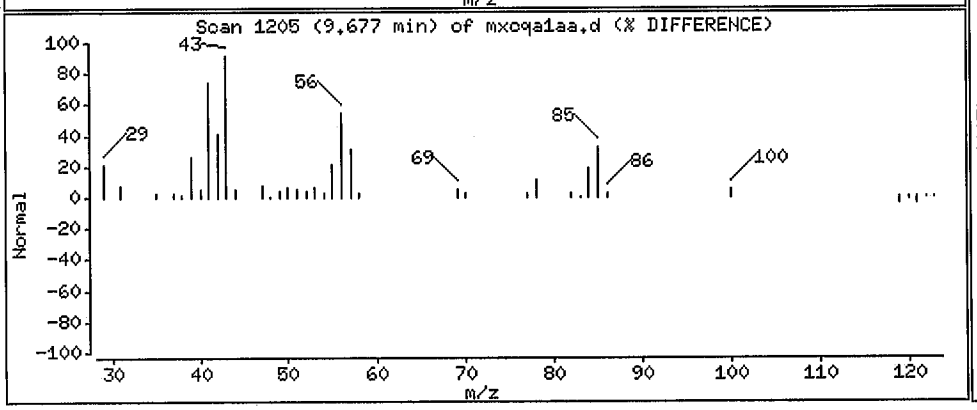












New York State D.E.C

Client Sample ID: DUP-BA

GC/MS Volatiles

Lot-Sample #	H2K150429 - 014	**Work Order #**	MXCQC1AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/19/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.083**	**0.040**	**0.52**	**0.25**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	ND	0.080	ND	0.54
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	107	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/me.i/E111812.b/mxcqc1aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E111812.b/mxcqc1aa.d
Lab Smp Id: MXCQC1AA Client Smp ID: DUP BA
Inj Date : 19-NOV-2012 08:28
Operator : 403648 Inst ID: me.i
Smp Info : ,,0,,,
Misc Info : E111812,TO155,axi.sub,,
Comment :
Method : /var/chem/gcms/me.i/E111812.b/TO155.m
Meth Date : 19-Nov-2012 10:08 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 15:34 Cal File: eick072.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: axi.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.102	8.097	(1.000)	264213	4.00000	4.000
* 2 1,4-Difluorobenzene	114	10.232	10.227	(1.000)	1424398	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.085	15.085	(1.000)	1197786	4.00000	4.000
$ 4 4-Bromofluorobenzene	95	16.762	16.762	(1.111)	957685	4.29937	4.299
50 Carbon Tetrachloride	117	9.693	9.688	(0.947)	21279	0.08341	0.08341

Data File: /var/chem/gcms/me.i/E111812.b/mxcqc1aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: me.i
Lab File ID: mxcqc1aa.d
Lab Smp Id: MXCQC1AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 403648
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

Calibration Date: 18-NOV-2012
Calibration Time: 14:50
Client Smp ID: DUP BA
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	292927	174292	411562	264213	-9.80
2 1,4-Difluorobenze	1503226	894419	2112033	1424398	-5.24
3 Chlorobenzene-d5	1358775	808471	1909079	1197786	-11.85

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.10	7.77	8.43	8.10	0.07
2 1,4-Difluorobenze	10.23	9.90	10.56	10.23	0.05
3 Chlorobenzene-d5	15.09	14.76	15.42	15.09	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/me.i/E111812.b/mxcqc1aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

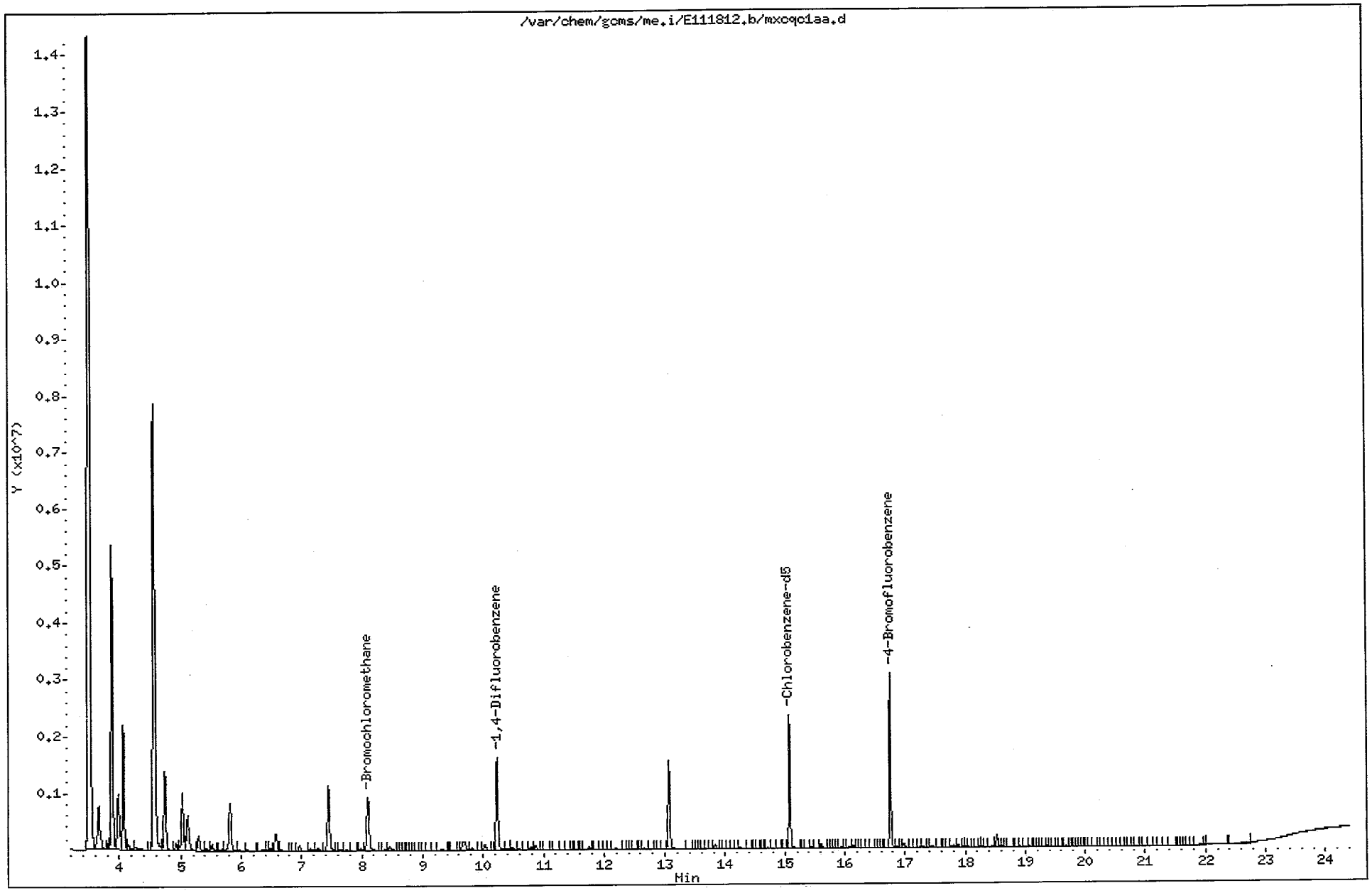
RECOVERY REPORT

Client Name: New York State D.E.C15-NOV-2012 00:00 Client SDG: H2K150429
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MXCQC1AA Client Smp ID: DUP BA
Level: LOW Operator: 403648
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allplus.spk Quant Type: ISTD
Sublist File: axi.sub
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.299	107.48	70-130

Data File: /var/chem/gcms/me.i/E111812.b/mxcqc1aa.d
Date : 19-NOV-2012 08:28
Client ID: DUP BA
Sample Info: ,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: me.i
Operator: 403648
Column diameter: 0.32



Data File: /var/chem/gcms/me.i/E111812.b/mxcqc1aa.d

Date : 19-NOV-2012 08:28

Client ID: DUP BA

Instrument: me.i

Sample Info: ,,0,,,

Purge Volume: 500.0

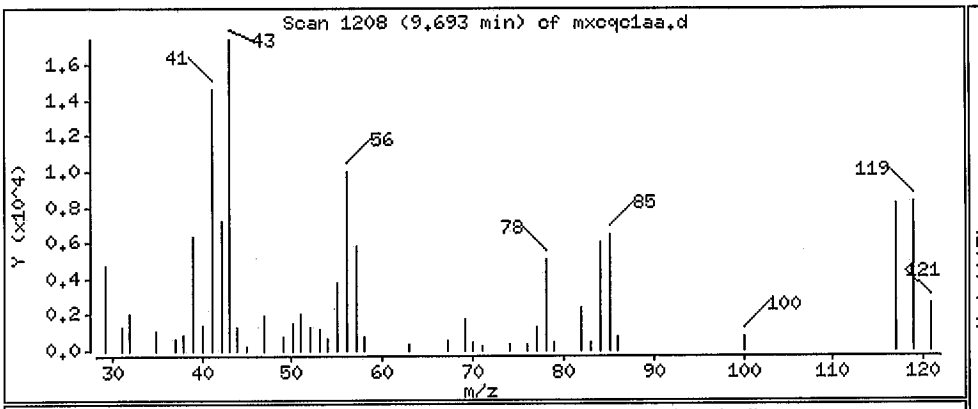
Operator: 403648

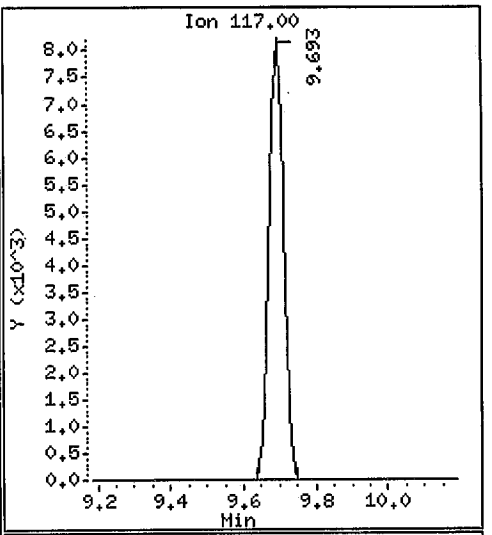
Column phase: Rtx-5

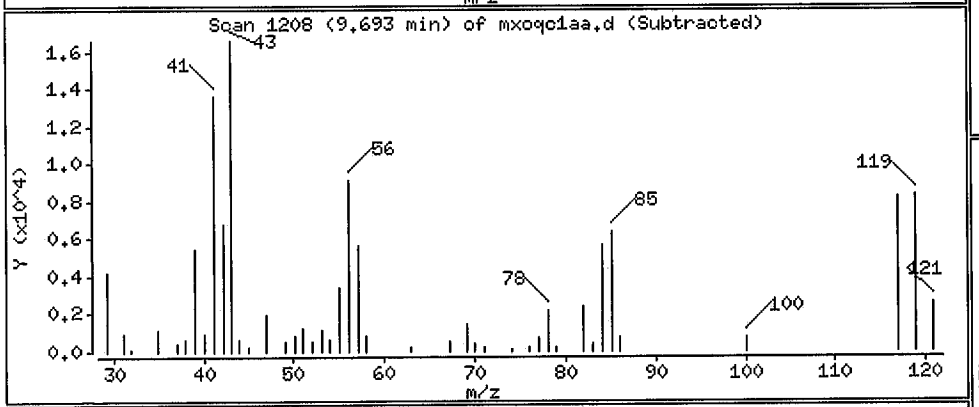
Column diameter: 0.32

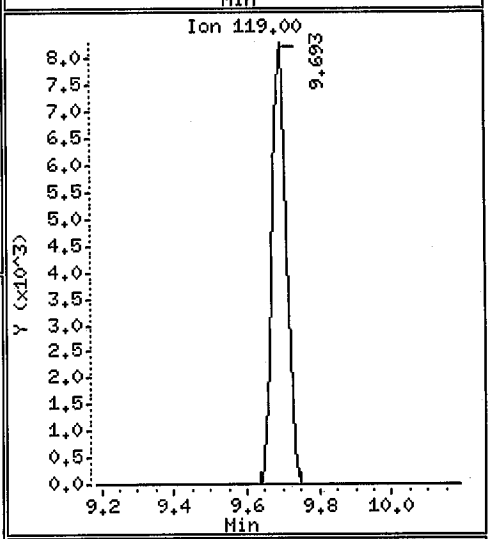
50 Carbon Tetrachloride

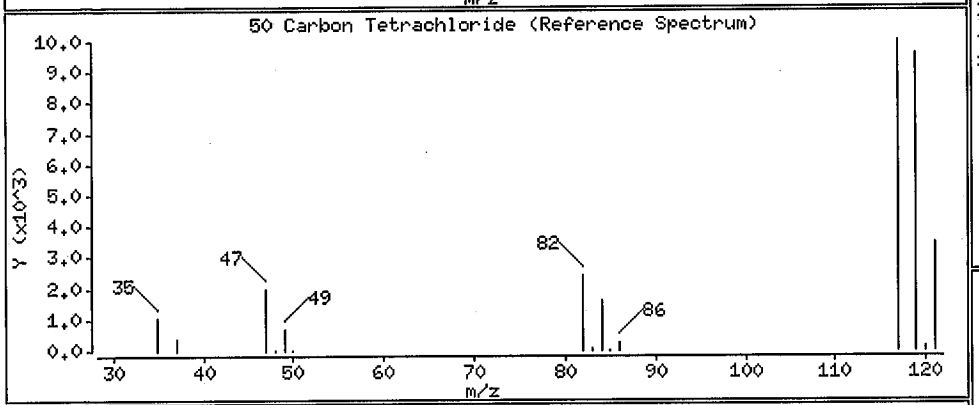
Concentration: 0.08341 ppb(v/v)

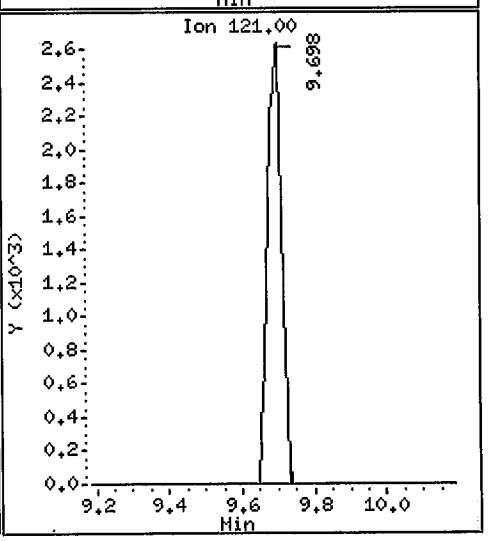


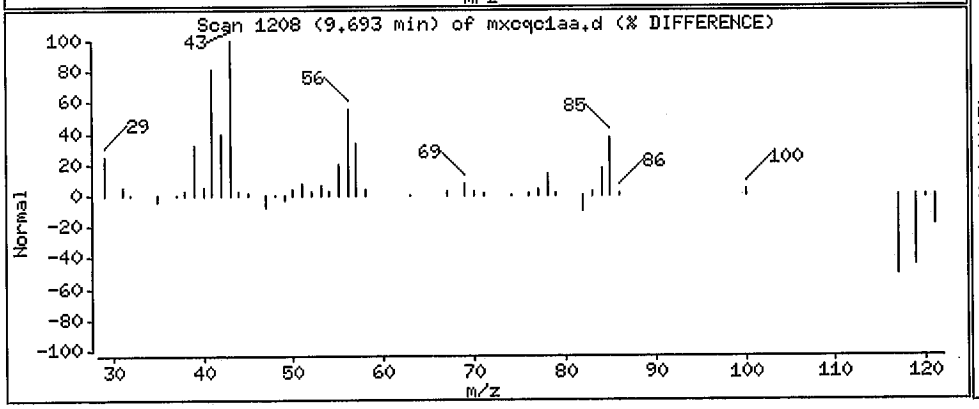












New York State D.E.C

Client Sample ID: DUP-AA

GC/MS Volatiles

Lot-Sample #	H2K150429 - 015	**Work Order #**	MXCQD1AA	**Matrix.....:**	AIR
Date Sampled...:	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/19/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.11**	**0.040**	**0.66**	**0.25**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	ND	0.080	ND	0.54
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	111	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/me.i/E111812.b/mxcqd1aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E111812.b/mxcqd1aa.d
Lab Smp Id: MXCQD1AA Client Smp ID: DUP AA
Inj Date : 19-NOV-2012 09:24
Operator : 403648 Inst ID: me.i
Smp Info : ,,0,,,
Misc Info : E111812,TO155,axi.sub,,
Comment :
Method : /var/chem/gcms/me.i/E111812.b/TO155.m
Meth Date : 19-Nov-2012 10:08 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 15:34 Cal File: eick072.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: axi.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.091	8.097	(1.000)	222021	4.00000	4.000
* 2 1,4-Difluorobenzene	114	10.221	10.227	(1.000)	1078474	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.080	15.085	(1.000)	1011252	4.00000	4.000
$ 4 4-Bromofluorobenzene	95	16.757	16.762	(1.111)	834437	4.43706	4.437
50 Carbon Tetrachloride	117	9.677	9.688	(0.947)	20341	0.10531	0.1053

Data File: /var/chem/gcms/me.i/E111812.b/mxcqd1aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: me.i
Lab File ID: mxcqd1aa.d
Lab Smp Id: MXCQD1AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 403648
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

Calibration Date: 18-NOV-2012
Calibration Time: 14:50
Client Smp ID: DUP AA
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	292927	174292	411562	222021	-24.21
2 1,4-Difluorobenze	1503226	894419	2112033	1078474	-28.26
3 Chlorobenzene-d5	1358775	808471	1909079	1011252	-25.58

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.10	7.77	8.43	8.09	-0.07
2 1,4-Difluorobenze	10.23	9.90	10.56	10.22	-0.05
3 Chlorobenzene-d5	15.09	14.76	15.42	15.08	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

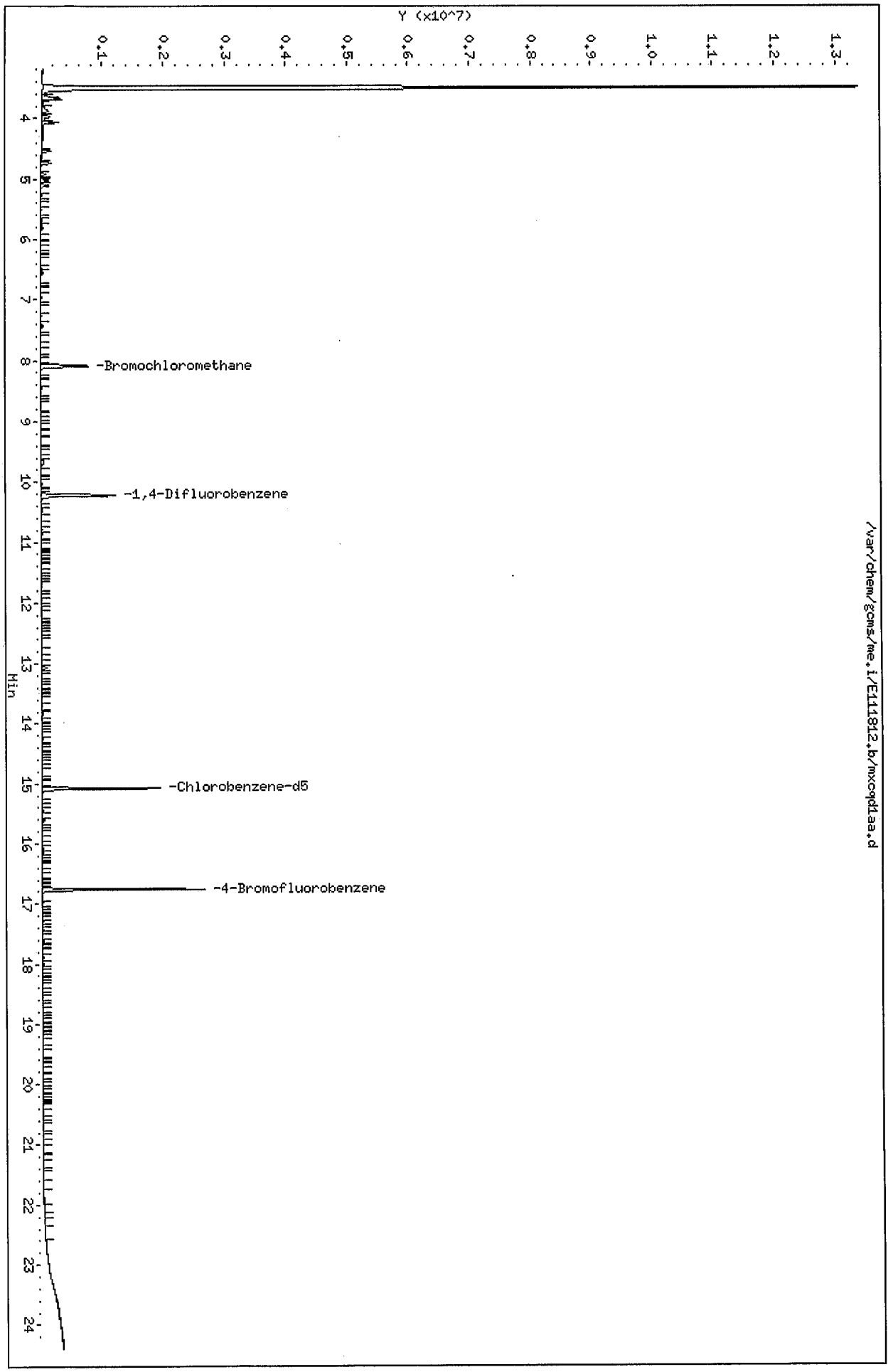
Data File: /var/chem/gcms/me.i/E111812.b/mxcqd1aa.d
Report Date: 19-Nov-2012 10:09

TestAmerica Knoxville

RECOVERY REPORT

Client Name: New York State D.E.C15-NOV-2012 00:00 Client SDG: H2K150429
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MXCQD1AA Client Smp ID: DUP AA
Level: LOW Operator: 403648
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allplus.spk Quant Type: ISTD
Sublist File: axi.sub
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,axi.sub,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.437	110.93	70-130


Data File: /var/chem/gcms/me.i/E111812.b/mxcqd1aa.d
Date : 19-NOV-2012 09:24
Client ID: DUP AA
Sample Info: ,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5
Instrument: me.i
Operator: 403648
Column diameter: 0.32
/var/chem/gcms/me.i/E111812.b/mxcqd1aa.d
Y (x10^7)
Min
-Bromochloromethane
-1,4-Difluorobenzene
-Chlorobenzene-d5
-4-Bromofluorobenzene

Data File: /var/chem/gcms/me.i/E111812.b/mxcqd1aa.d

Date : 19-NOV-2012 09:24

Client ID: DUP AA

Instrument: me.i

Sample Info: ,,0,,,

Purge Volume: 500.0

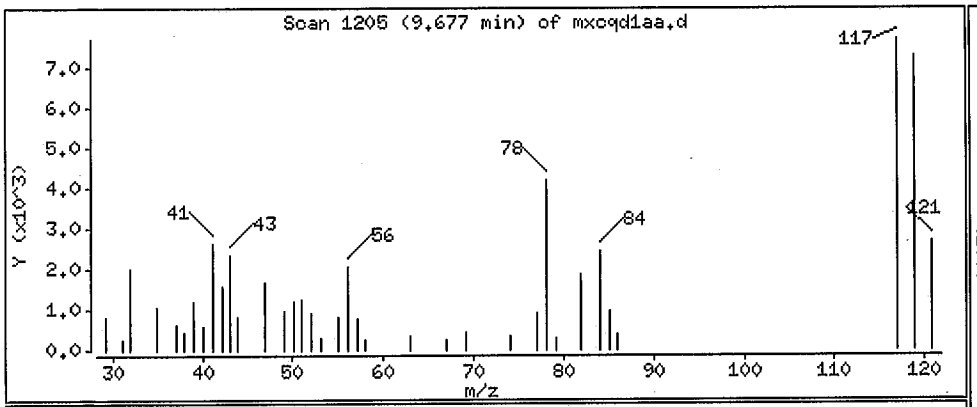
Operator: 403648

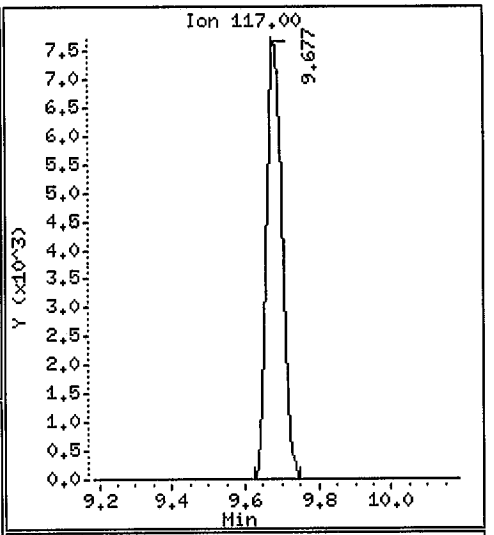
Column phase: Rtx-5

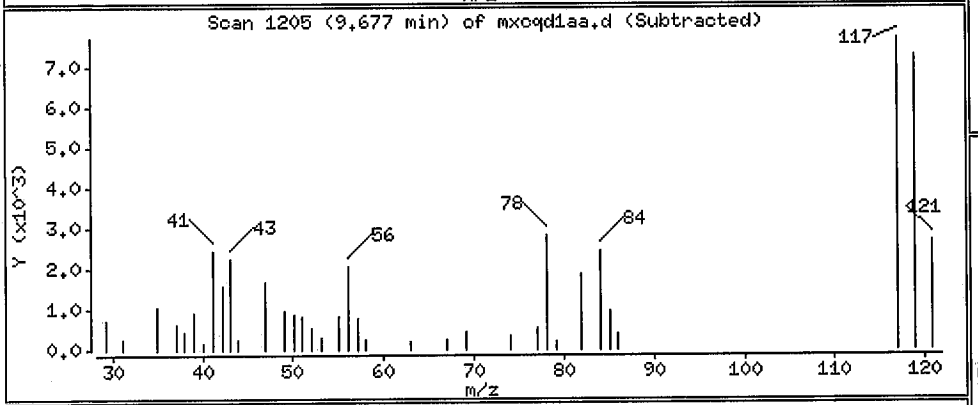
Column diameter: 0.32

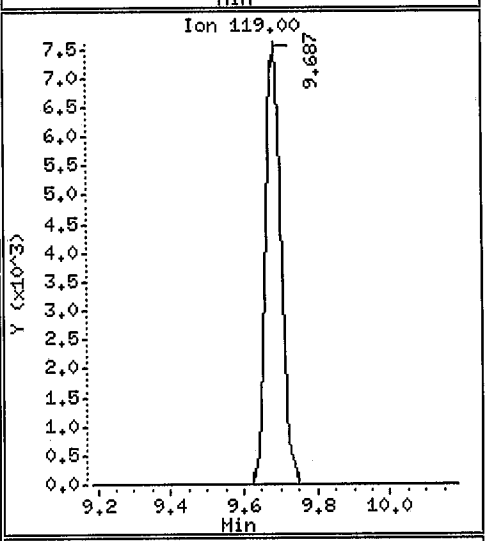
50 Carbon Tetrachloride

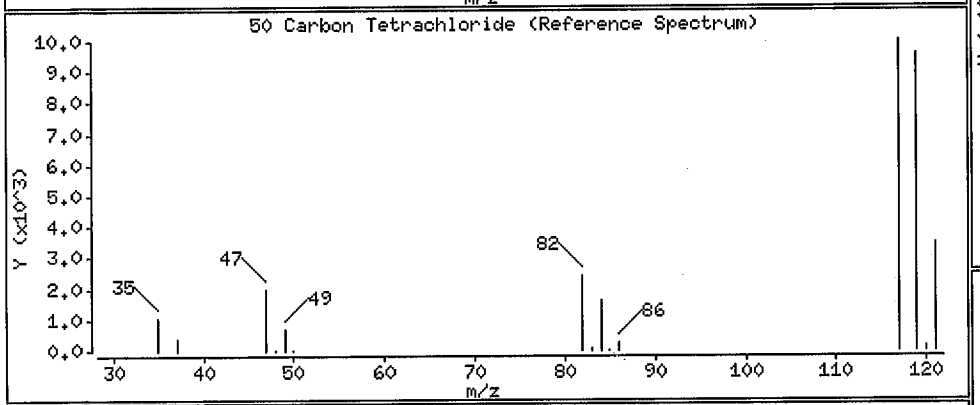
Concentration: 0.1053 ppb(v/v)

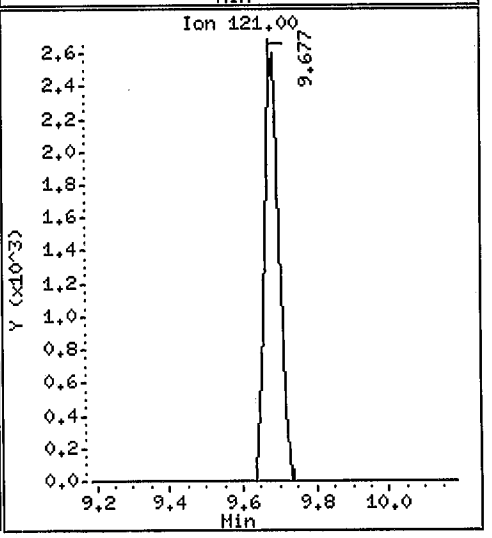


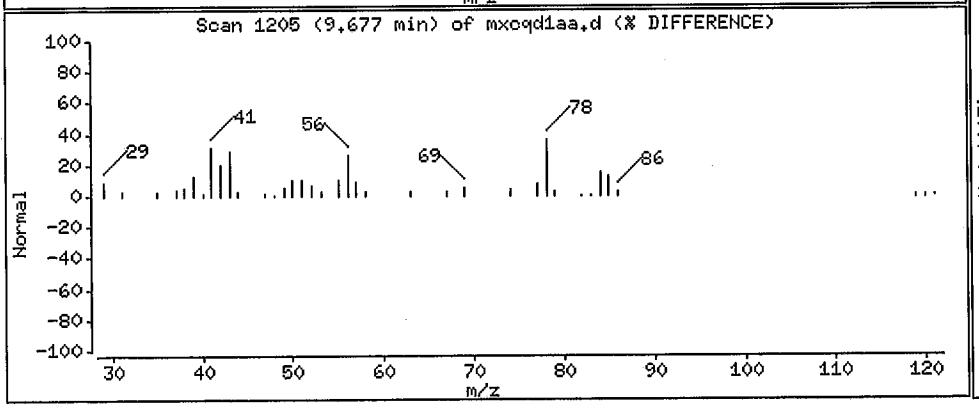












Standards Data

TestAmerica Knoxville GC/MS Air Initial Calibration Data Review / Narrative Checklist
Method: TO-14 and TO-15 - KNOX-MS-0001, Rev 13 & KNOX-MS-0023, Rev 0

Analysis Date:	11/7/12	Instrument::	ME	ICAL Batch/Scan Name:	E110712I	Scanned □

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd
1. Did BFB meet tune criteria?		✓			✓
2. Were all standards injected within 24 hr of BFB?		✓			✓
3. Was date/time of analysis verified and logbook as correct?		✓			✓
4. Is low level std at or <RL and are the remaining points consecutive?		✓			✓
5. Are the calibration levels correct? (Calculate standard concentration & amt. injected with quan rpt at each level)		✓		DNU - 123 trichlorobenz. 1-methyl naph 2-methyl naph. benzo(b) thiophen	✓
6. Was ICAL processed using correct methods and files?		✓			✓
7. Are the ICAL start and end dates/times correct?		✓			✓
8. Were at least 5 levels of each compound analyzed?		✓			✓
9. At least 6 consecutive points used for quadratic curves, and at least 5 consecutive points for linear curves? Note: Ohio does not allow Quad		✓		acetone 37 ~~#1 TCBZ~~ ~~#1 napht~~ 11/9/12 LA 11/11/12 LA	NA
10. Is %RSD for all target analytes ≤ 30%? (with up to 2 compounds with RSD ≤ 40%)		✓			✓
11. If curves were used, is correlation coefficient ≥0.990?		✓			NA
12. For quadratic: is a tangent's slope to the curve entirely positive or negative and continuous.		✓		~~Forced~~. NO CURVES 11/11/12 LA	NA
13. For linear or quadratic: origin NOT "included"? (NOTE: OHIO does NOT allow "FORCE" through origin).		✓		~~Forced - Quad - napht~~ ~~#1 TCBZ~~ 11/11/12 LA	NA
14. Is the "Y" intercept less than the RL for each curve?		✓			NA
15. RT for each IS ±20 sec avg. RT?		✓			✓
16. Area for each IS ± 40% avg. area?		✓			✓
17. Each analyte ± 0.06 RRT of avg. RRT?		✓			✓
18. Have all peaks been auto identified? If not, list:		✓			✓
19. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NA
20. Have alternate hits/manual integrations been verified as correct and are correct RFs listed in ICAL summary?	✓				NA
21. Are all the active compounds listed on each quan report?		✓			✓
22. High point checked for saturation and point removed if saturated?		✓		(5) M+p, sec-butyl benz.	✓
23. Elution order checked on isomeric pairs?		✓			✓
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane		✓			✓
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane		✓			✓
• vinyl acetate / hexane		✓			✓
• cis- and trans- isomers		✓			✓
• ethyl benzene / m/p-xylene / o-xylene		✓			✓
• n-propylbenzene/4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene		✓			✓
• tert-butylbenzene/p-cymene		✓			✓
• 1,2,4-trimethylbenzene/sec-butylbenzene		✓			✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene		✓			✓
• 1,2,4-trichlorobenzene/1,2,3-trichlorobenzene		✓			✓
24. Is the second source analysis of a reference standard within limits? (65-135% R)		✓		DNU for 123TCBZ 1+2 methyl naph benzo(b) thiophene	✓
25. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				NA
26. Does the ICAL folder contain complete data in the following order: Data review checklist, a complete runlog, BFB info, ICAL summary, curves, followed by [Quan reports, chromatograms, manual integrations], in increasing amount order, 2nd source info.		✓			✓

Analyst:	Date: 11/9/12	2nd Level Reviewer :	Date: 11/12/12
Comments: ~~benzo(b) thiophene~~ 11/11/12 LA		Comments:	
UR 4.0, Dodecane ~~benzo(b) thiophene~~ UR 16- M+P Xylene			
UR 8.0 124 TCBZ, napth, sec-butyl benz, 4.0 UR 4.0 UR 8.0 UR			

TestAmerica Laboratories, Inc. - Knoxville
CANISTER RUN LOG

GCMS Analysis: AIR Inst: ME

Analyst: HLL Qtims Batch: ICAL

Date: 11/7/12 ICAL Batch: E110712I Target Batch: E110712I IS #1 Area: 361959

Surr/IS ID & Vol.: 40mCV425 System Date/Time ok (y/n): y

Preventive Maintenance Performed ☑ Daily

Time	Use	Lot No.	File ID	Can #	Pos	Vol* (mL)	Can DF	Comments
1029	✓	tune	EBFB K07	—	16	100	1	
1101	W	blk	blk1	—	↓	200		
1342	✓	MDL ✓	EMDL K07	CX2392	1	50		
1431	✓	ICAL 1	E1CK071	↓	↓	100		
1534	✓	2	2	↓	↓	200		
1623	✓	3	3	CX2390	3	100		
1723	✓	4	4	↓	3	200		
1812	✓	5	5	CX2388	5	100		
1920	✓	6	6	↓	5	200		
2011	✓	7	7	CX2387	6			
2102	✓	8	8	CX2386	7			
2153	✓	9	9	CX2385	8	↓		
2244	W	blk	blk2	—	16	200		
2335	✓	ICV	EICV K07	CX2382	9	100		
0024	✓	LCS	ELCS K07	↓	↓	200		
0113	W	blk	blk3	—	16	500 200ml		11/12/12 ↓
0204	OK	↓	EBLK K07	—	↓	↓ 500ml		

11/9/12

* Entech programmed Volume. If the Entech report amount differs from the programmed amount by >5%, the Entech report amount is used for calulations.

Analyst: _____ Date: 11/9/12

Test America - Knoxville

Entech Autosampler Log

Position	Volume	Date	Time
16	102	11/7/2012	10:29
16	202	11/7/2012	11:01
1	50	11/7/2012	13:42
1	100	11/7/2012	14:31
1	200	11/7/2012	15:34
3	101	11/7/2012	16:23
3	200	11/7/2012	17:23
5	100	11/7/2012	18:12
5	201	11/7/2012	19:20
6	200	11/7/2012	20:11
7	201	11/7/2012	21:02
8	202	11/7/2012	21:53
16	200	11/7/2012	22:44
9	102	11/7/2012	23:35
9	202	11/8/2012	0:24
16	202	11/8/2012	1:13
16	500	11/8/2012	2:04

Data File: /var/chem/gcms/me.i/E110712I.b/ebfbk07.d

Date : 07-NOV-2012 10:29

Client ID: BFB

Instrument: me.i

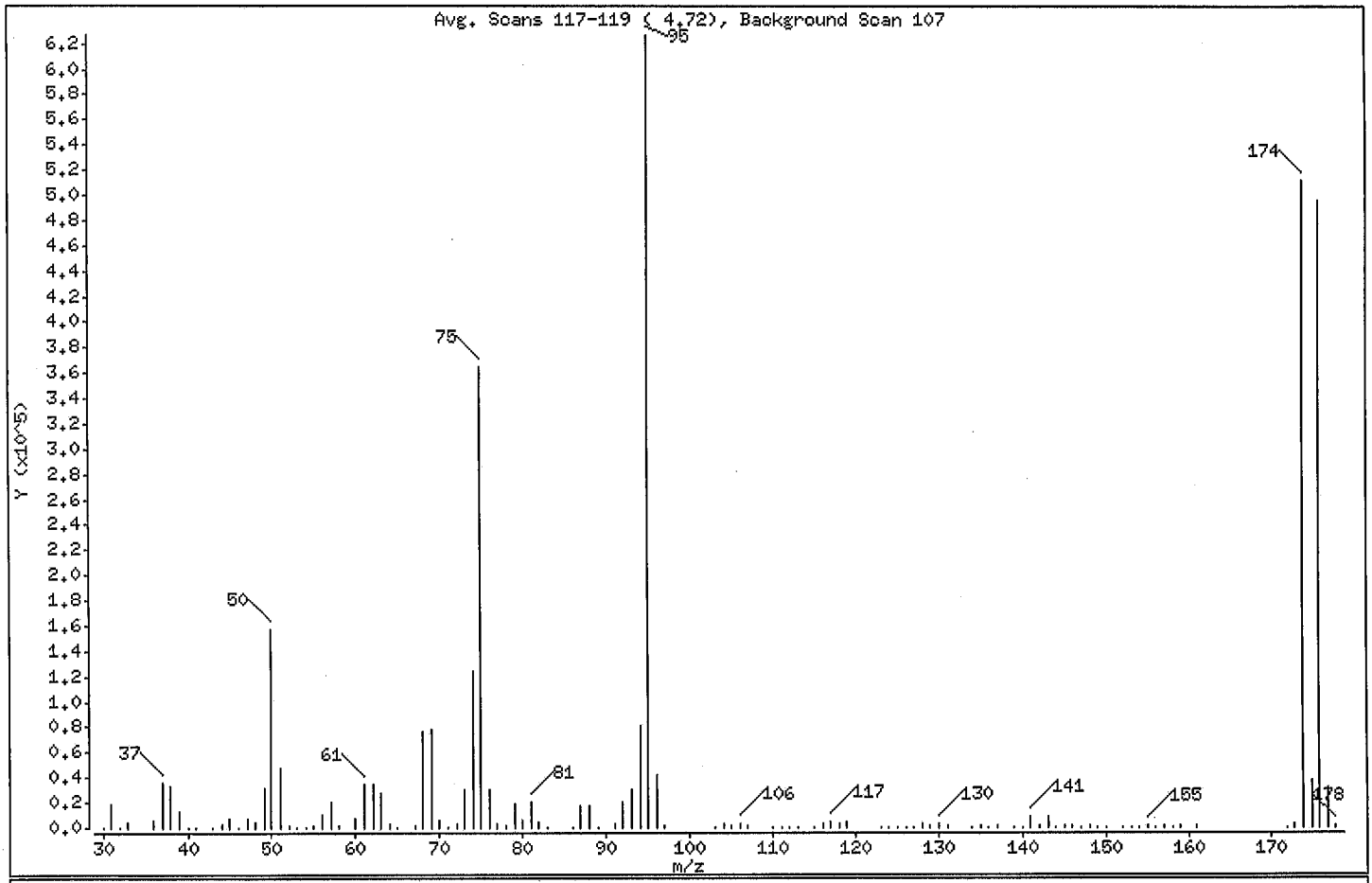
Sample Info: BFB,,3,,,BFB

Operator: 7126

Column phase: RTX-5

Column diameter: 0.32

1 BFB



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.00
75	30.00 - 60.00% of mass 95	58.07
96	5.00 - 9.00% of mass 95	6.71
173	Less than 2.00% of mass 174	0.49 (0.60)
174	50.00 - 120.00% of mass 95	81.68
175	5.00 - 9.00% of mass 174	5.88 (7.20)
176	95.00 - 101.00% of mass 174	78.97 (96.68)
177	5.00 - 9.00% of mass 176	5.16 (6.54)

Data File: /var/ohem/gcms/me.i/E110712I.b/ebfbk07.d

Date : 07-NOV-2012 10:29

Client ID: BFB

Instrument: me.i

Sample Info: BFB,,3,,,BFB

Operator: 7126

Column phase: RTX-5

Column diameter: 0.32

Data File: ebfbk07.d
Spectrum: Avg. Scans 117-119 (4.72), Background Scan 107
Location of Maximum: 95.00
Number of points: 115

m/z	Y	m/z	Y	m/z	Y	m/z	Y
30.00	72	63.00	26680	96.00	42064	139.00	260
31.00	19024	64.00	2384	97.00	1369	140.00	540
32.00	438	65.00	714	103.00	318	141.00	8192
33.00	3729	67.00	1821	104.00	2808	142.00	868
36.00	6127	68.00	76960	105.00	979	143.00	8098
37.00	35816	69.00	77944	106.00	3010	144.00	433
38.00	32736	70.00	6113	107.00	750	145.00	734
39.00	12922	71.00	191	110.00	503	146.00	1048
40.00	317	72.00	3275	111.00	602	147.00	478
41.00	57	73.00	30880	112.00	446	148.00	1763
43.00	532	74.00	124560	113.00	534	149.00	458
44.00	3479	75.00	363968	115.00	698	150.00	713
45.00	7110	76.00	30944	116.00	2266	152.00	295
46.00	465	77.00	3268	117.00	4039	153.00	464
47.00	7312	78.00	1741	118.00	2501	154.00	414
48.00	4380	79.00	18744	119.00	3795	155.00	1731
49.00	31432	80.00	6175	123.00	249	156.00	219
50.00	156672	81.00	19552	124.00	403	157.00	1373
51.00	47304	82.00	4514	125.00	172	158.00	76
52.00	2103	83.00	486	126.00	295	159.00	873
53.00	152	86.00	391	127.00	254	161.00	980
54.00	160	87.00	17288	128.00	2601	172.00	597
55.00	1958	88.00	16776	129.00	1335	173.00	3053
56.00	10623	89.00	187	130.00	2442	174.00	512000
57.00	20456	91.00	2540	131.00	1028	175.00	36840
58.00	767	92.00	20688	134.00	157	176.00	494976
60.00	6585	93.00	29864	135.00	1406	177.00	32368
61.00	34288	94.00	80968	136.00	85	178.00	922
62.00	34280	95.00	626816	137.00	1229		

Data File: /var/chem/gcms/me.i/E110712I.b/ebfbk07.d

Date : 07-NOV-2012 10:29

Client ID: BFB

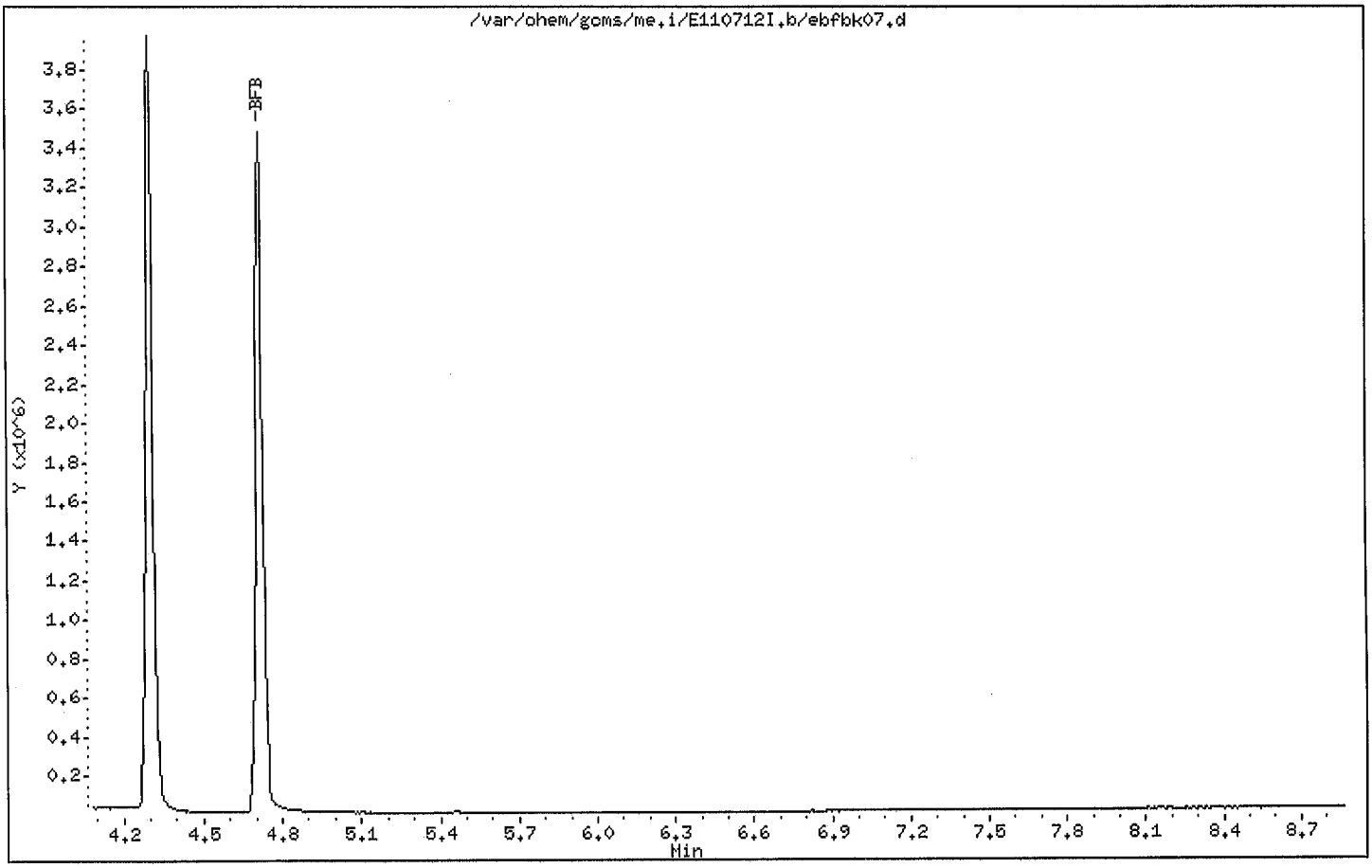
Instrument: me.i

Sample Info: BFB,,3,,,BFB

Operator: 7126

Column phase: RTX-5

Column diameter: 0.32



Report Date : 12-Nov-2012 08:32

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 07-NOV-2012 14:31
End Cal Date : 07-NOV-2012 21:53
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/me.i/E110712I.b/TO155.m
Cal Date : 12-Nov-2012 08:27 tajh
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcms/me.i/E110712I.b/eick071.d
Level 2: /var/chem/gcms/me.i/E110712I.b/eick072.d
Level 3: /var/chem/gcms/me.i/E110712I.b/eick073.d
Level 4: /var/chem/gcms/me.i/E110712I.b/eick074.d
Level 5: /var/chem/gcms/me.i/E110712I.b/eick075.d
Level 6: /var/chem/gcms/me.i/E110712I.b/eick076.d
Level 7: /var/chem/gcms/me.i/E110712I.b/eick077.d
Level 8: /var/chem/gcms/me.i/E110712I.b/eick078.d
Level 9: /var/chem/gcms/me.i/E110712I.b/eick079.d

Compound	0.04000 Level 1	0.08000 Level 2	0.16000 Level 3	0.40000 Level 4	1.000 Level 5	2.000 Level 6	___ RRF	% RSD
	4.000 Level 7	8.000 Level 8	16.000 Level 9					
M 5 Xylene (total)	0.88103	1.00685	1.21181	1.21522	0.98155	1.10336		
	1.10787	1.09330	1.18686				1.08754	10.418
6 Chlorodifluoromethane	+++++	0.75041	0.69045	0.58368	0.59912	0.56539		
	0.52023	0.60705	0.53856				0.60686	12.777
7 Propene	+++++	+++++	2.73757	1.99025	2.06894	1.76049		
	1.57485	1.88355	1.54677				1.93749	20.844
10 Dichlorodifluoromethane	6.73248	7.94158	7.79674	5.88314	6.40546	5.46784		
	5.07913	6.34464	5.28787				6.32656	16.303
9 Chloromethane	+++++	0.85391	1.00340	0.74399	0.73033	0.66122		
	0.57888	0.63796	0.53912				0.71860	21.152

Report Date : 12-Nov-2012 08:32

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 07-NOV-2012 14:31
End Cal Date : 07-NOV-2012 21:53
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/me.i/E110712I.b/TO155.m
Cal Date : 12-Nov-2012 08:27 tajh
Curve Type : Average

Compound	0.04000 Level 1	0.08000 Level 2	0.16000 Level 3	0.40000 Level 4	1.000 Level 5	2.000 Level 6	RRF	% RSD	
	4.000 Level 7	8.000 Level 8	16.000 Level 9						
11 1,2-Dichlorotetrafluoroethane	4.38505	5.03513	5.32897	4.21740	4.07997	3.90174			
	3.75752	4.14312	3.80589				4.29499	12.708	
8 ~ acetaldehyde	+++++	+++++	+++++	1.30695	0.78940	0.84221			
	0.57576	0.54353	0.48841				0.75771	40.088	<- OK
12 Methanol	+++++	+++++	+++++	+++++	0.83460	0.74424			
	0.47674	0.61611	0.32005				0.59835	34.419	<- VR
13 Vinyl Chloride	2.61978	2.77665	3.04272	2.24456	2.53428	2.20687			
	1.86597	2.27621	1.75324				2.36894	17.615	
14 n-Butane	+++++	+++++	4.76329	3.34973	4.05719	3.55570			
	2.69753	3.31187	2.65660				3.48456	21.351	
15 1,3-Butadiene	1.93329	1.97343	2.10796	1.53441	1.76071	1.62974			
	1.31312	1.57018	1.31216				1.68167	16.892	
16 Bromomethane	1.97077	2.43456	2.36122	1.78529	2.00575	1.85399			
	1.61183	1.90132	1.75389				1.96429	13.909	
18 Chloroethane	1.17372	1.13719	1.32160	0.97755	0.97035	0.90704			
	0.80240	0.92357	0.87250				1.00955	16.530	
17 ~ ethanol	+++++	+++++	0.77540	0.54074	0.60663	0.47615			
	0.40180	0.54325	0.32997				0.52485	27.561	

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INITIAL CALIBRATION DATA

Start Cal Date : 07-NOV-2012 14:31
End Cal Date : 07-NOV-2012 21:53
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Target Version : 3.50
Integrator : HP RTE
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Curve Type : Average

Compound	0.04000 Level 1	0.08000 Level 2	0.16000 Level 3	0.40000 Level 4	1.000 Level 5	2.000 Level 6	RRF	% RSD	
	4.000 Level 7	8.000 Level 8	16.000 Level 9						
19 Vinyl Bromide	1.70904	1.61774	1.71579	1.36738	1.48137	1.43469			
	1.26530	1.35632	1.27823				1.46955	11.858	
20 2-methyl butane	+++++	3.39284	3.22078	2.65916	2.84433	2.56163			
	2.25157	2.33265	2.09333				2.66955	17.281	
21 Trichlorofluoromethane	+++++	6.44500	6.83087	5.20555	5.80324	5.26636			
	4.74104	5.12347	4.70188				5.51468	14.130	
22 Acrolein	+++++	+++++	0.57069	0.56723	0.44603	0.53072			
	0.56126	0.48278	0.49975				0.52264	9.188	
23 Acetonitrile	+++++	+++++	0.67771	0.77147	0.55948	0.66389			
	0.61753	0.52232	0.56529				0.62538	13.724	
24 Acetone	+++++	+++++	+++++	+++++	1.13515	1.28866			
	0.75484	0.60949	0.56158				0.86994	37.329	<-
25 Pentane	+++++	+++++	0.38769	0.33557	0.38552	0.36223			
	0.29077	0.33813	0.31177				0.34453	10.559	
26 Isopropyl alcohol	+++++	+++++	3.47126	2.62662	2.88601	2.41260			
	1.93213	2.55328	1.82016				2.52887	22.239	
27 Ethyl Ether	+++++	+++++	2.38802	2.17979	1.92255	1.95746			
	1.84136	1.79135	1.89165				1.99603	10.648	

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	4.000 Level 7	8.000 Level 8	16.000 Level 9					
28 1,1-Dichloroethene	1.49260	1.44802	1.58051	1.22198	1.29705	1.22354		
	1.12746	1.32872	1.22091				1.32675	11.307
29 Acrylonitrile	+++++	+++++	1.07915	1.08664	0.84693	1.02570		
	0.99736	0.93196	1.01513				0.99755	8.455
30 1,1,2-Trichlorotrifluoroethan	3.12388	3.34145	3.69951	2.88283	2.89284	2.68833		
	2.53193	2.88437	2.76211				2.97859	12.038
31 tert-butanol	+++++	+++++	3.50014	2.52111	3.19433	2.37168		
	2.04974	2.75901	2.42234				2.68834	18.765
32 Methylene Chloride	+++++	+++++	1.74629	1.29398	1.21849	1.09377		
	1.03660	1.17622	1.06745				1.23326	19.751
33 3-Chloropropene	+++++	1.74843	1.98573	1.58445	1.62013	1.53654		
	0.96376	1.39854	1.31104				1.51860	20.088
34 Carbon Disulfide	+++++	+++++	5.32472	4.13726	4.62530	4.15080		
	3.77368	4.45852	3.85798				4.33261	12.266
35 trans-1,2-Dichloroethene	1.54476	1.63699	1.78435	1.41676	1.47184	1.39929		
	1.33447	1.54775	1.46787				1.51158	9.030
36 ~ 2-Methyl Pentane	5.27580	5.54341	5.95232	4.70009	4.73052	4.37014		
	4.03215	4.44066	3.96311				4.77869	14.273

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	4.000 Level 7	8.000 Level 8	16.000 Level 9					
37 Methyl-t-Butyl Ether	+++++	3.98236	4.40509	4.74178	3.63849	4.08482		
	4.11244	3.98963	3.88166				4.10455	8.194
38 1,1-Dichloroethane	3.15230	3.47161	3.78853	3.10506	3.06030	2.88365		
	2.70135	2.94502	2.72242				3.09227	11.367
39 Vinyl Acetate	+++++	+++++	3.64731	4.17835	3.02020	3.86908		
	3.90942	3.45427	3.76271				3.69162	10.075
40 Hexane	+++++	+++++	1.98889	1.62395	1.61434	1.47400		
	1.40078	1.53829	1.40816				1.57835	12.800
41 2-Butanone	+++++	+++++	0.78859	0.88797	0.56902	0.66354		
	0.61981	0.61340	0.57956				0.67456	17.704
42 cis 1,2-Dichloroethene	1.36361	1.48228	1.68745	1.36533	1.39114	1.33910		
	1.32137	1.48303	1.40598				1.42659	7.933
43 Ethyl acetate	+++++	+++++	3.48755	3.72462	2.79333	3.14109		
	3.33981	3.25500	3.04918				3.25580	9.302
44 Chloroform	3.87002	4.01203	4.55481	3.63415	3.56916	3.37254		
	3.22105	3.52387	3.28684				3.67161	11.432
45 Tetrahydrofuran	+++++	+++++	1.95585	2.01125	1.51550	1.79388		
	1.80211	1.70683	1.66507				1.77864	9.563

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	4.000 Level 7	8.000 Level 8	16.000 Level 9					
46 1,1,1-Trichloroethane	+++++	4.40746	5.10141	4.13648	4.04398	3.81263		
	3.68108	4.03337	3.78167				4.12476	11.075
47 1,2-Dichloroethane	0.51113	0.56272	0.62926	0.48684	0.47938	0.45449		
	0.44470	0.50719	0.50443				0.50891	11.171
48 Cyclohexane	+++++	0.19821	0.20491	0.14812	0.16417	0.14411		
	0.14112	0.16786	0.16606				0.16682	14.277
49 Benzene	0.90615	0.96762	1.00998	0.81317	0.80716	0.78240		
	0.77001	0.88321	0.92030				0.87334	9.740
50 Carbon Tetrachloride	0.63736	0.72238	1.00173	0.76030	0.83060	0.73835		
	0.50415	0.55101	0.70208				0.71644	20.688
51 1-Butanol	+++++	+++++	+++++	0.08075	0.10694	0.07832		
	0.06612	0.10620	0.08388				0.08704	18.712
52 ~ 2,3-dimethylpentane	0.21585	0.22344	0.24738	0.19560	0.20876	0.18727		
	0.18343	0.21077	0.20576				0.20870	9.351
53 ~ Thiophene	0.50346	0.55673	0.60311	0.47903	0.51247	0.47429		
	0.46744	0.54045	0.53290				0.51887	8.535
54 2,2,4-trimethylpentane	1.83966	1.83851	2.04651	1.59774	1.69811	1.50239		
	1.46593	1.68960	1.62429				1.70031	10.783

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	4.000 Level 7	8.000 Level 8	16.000 Level 9					
55 Heptane	0.36797	0.37342	0.40682	0.32310	0.34698	0.31144		
	0.30773	0.36014	0.36002				0.35085	9.183
56 1,2-Dichloropropane	0.35371	0.38155	0.39757	0.32091	0.31176	0.30121		
	0.29725	0.32236	0.32877				0.33501	10.520
57 Trichloroethene	0.45350	0.44874	0.47471	0.34295	0.39676	0.35112		
	0.35074	0.41588	0.42673				0.40679	12.122
180 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
58 Dibromomethane	0.34628	0.37927	0.41072	0.32091	0.34263	0.31350		
	0.31606	0.36928	0.37918				0.35310	9.542
59 Bromodichloromethane	0.70511	0.73128	0.84076	0.68926	0.74528	0.69207		
	0.67586	0.77488	0.78263				0.73746	7.339
60 1,4-dioxane	0.10789	0.10746	0.09869	0.07776	0.10782	0.09185		
	0.08264	0.12711	0.07406				0.09725	17.748
61 Methyl Methacrylate	+++++	0.36459	0.37445	0.42119	0.32738	0.37860		
	0.41453	0.42956	0.43083				0.39264	9.474
62 ~ methyl cyclohexane	0.59813	0.66731	0.72169	0.54958	0.59857	0.53368		
	0.52177	0.60579	0.59957				0.59957	10.621

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	4.000 Level 7	8.000 Level 8	16.000 Level 9					
63 cis-1,3-Dichloropropene	0.38838	0.42960	0.48749	0.41540	0.43330	0.43393		
	0.43684	0.49488	0.51574				0.44840	9.275
64 4-Methyl-2-pentanone	+++++	0.65350	0.67597	0.68645	0.58151	0.60359		
	0.61486	0.73822	0.66003				0.65177	7.770
65 trans-1,3-Dichloropropene	0.36517	0.40027	0.46811	0.45241	0.44962	0.48377		
	0.47451	0.52717	0.54363				0.46274	12.081
66 Toluene	+++++	1.11462	1.30759	1.17119	1.04698	1.08190		
	1.07467	1.12381	1.13273				1.13169	7.145
67 1,1,2-Trichloroethane	0.29005	0.31023	0.38173	0.32946	0.30235	0.30307		
	0.29927	0.31807	0.31233				0.31629	8.556
68 ~ 2-methyl thiophene	0.85082	0.89302	1.08543	0.91105	0.89512	0.90784		
	0.89734	0.94930	0.92112				0.92345	7.162
70 ~ 3-methyl thiophene	0.85294	0.92159	1.09431	0.93641	0.90082	0.90871		
	0.91714	0.96995	0.94489				0.93853	7.116
69 2-Hexanone	+++++	+++++	0.29479	0.33299	0.27346	0.31392		
	0.31120	0.36247	0.31939				0.31546	8.915
71 Octane	0.35821	0.39579	0.46846	0.39259	0.41827	0.37744		
	0.36951	0.42064	0.40306				0.40044	8.241

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	4.000 Level 7	8.000 Level 8	16.000 Level 9					
72 Dibromochloromethane	0.56063	0.61196	0.74901	0.68431	0.69420	0.69935		
	0.67701	0.74590	0.76552				0.68755	9.673
73 1,2-Dibromoethane	0.41448	0.43830	0.53853	0.48513	0.48253	0.50335		
	0.51437	0.55256	0.56657				0.49954	10.143
74 Tetrachloroethene	0.46864	0.49241	0.56059	0.45996	0.44528	0.40945		
	0.39869	0.44961	0.44050				0.45835	10.417
75 Chlorobenzene	0.82582	0.87698	0.99619	0.84589	0.80284	0.80841		
	0.80589	0.87127	0.92149				0.86164	7.448
76 ~ 2,3-dimethylheptane	1.27787	1.38050	1.64026	1.43554	1.35096	1.21775		
	1.15562	1.24175	1.13484				1.31501	12.023
77 Ethylbenzene	1.12605	1.29363	1.54729	1.48109	1.24343	1.38375		
	1.38833	1.39533	1.50566				1.37384	9.785
79 ~ 2-ethyl thiophene	0.89788	0.96834	1.18308	1.14618	0.99931	1.07784		
	1.07862	1.10409	1.16965				1.06944	9.040
78 m&p-Xylene	0.85977	0.98251	1.19021	1.19526	0.96701	1.09457		
	1.10868	1.10257	+++++				1.06257	10.982
80 Nonane	+++++	0.74961	0.92046	0.83148	0.83568	0.78926		
	0.75547	0.81340	0.79563				0.81138	6.681

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	4.000 Level 7	8.000 Level 8	16.000 Level 9					
81 Bromoform	+++++	0.46197	0.58499	0.56685	0.57141	0.61966		
	0.60416	0.67788	0.81684				0.61297	16.698
82 Styrene	0.41803	0.51070	0.63681	0.70053	0.61730	0.73656		
	0.78913	0.81415	0.97535				0.68873	24.250
83 o-Xylene	0.92349	1.05550	1.25500	1.25513	1.01062	1.12095		
	1.10625	1.07475	1.18161				1.10926	9.887
84 1,1,2,2-Tetrachloroethane	0.57791	0.65033	0.77017	0.79262	0.64695	0.70265		
	0.71238	0.72717	0.78854				0.70764	10.227
85 1,2,3-Trichloropropane	0.19751	0.22325	0.25441	0.26782	0.20762	0.23431		
	0.24322	0.23495	0.25696				0.23556	9.835
86 Cumene	1.38291	1.49515	1.74855	1.86051	1.45030	1.63029		
	1.63300	1.60116	1.77847				1.62004	9.777
87 n-Propylbenzene	0.29777	0.32552	0.39096	0.43231	0.33956	0.40407		
	0.41884	0.41596	0.49549				0.39117	15.607
88 2-chlorotoluene	0.32788	0.34859	0.43207	0.40826	0.36198	0.37631		
	0.37617	0.40119	0.45292				0.38727	10.350
89 4-Ethyltoluene	1.03310	1.22516	1.45641	1.63097	1.27573	1.49644		
	1.55764	1.52323	1.68059				1.43103	14.753

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	4.000 Level 7	8.000 Level 8	16.000 Level 9					
90 1,3,5-Trimethylbenzene	0.44412	0.54712	0.66619	0.71260	0.57356	0.66587		
	0.67938	0.67187	0.78102				0.63797	15.718
91 Alpha-Methylstyrene	+++++	+++++	0.41555	0.51082	0.43901	0.55781		
	0.61160	0.62465	0.75129				0.55868	20.842
92 Decane	+++++	0.62079	0.74227	0.95924	0.74404	0.88900		
	0.88719	0.90577	0.92480				0.83414	14.104
93 tert-butylbenzene	1.06172	1.20160	1.40603	1.57067	1.20578	1.36088		
	1.41650	1.40718	1.57570				1.35623	12.668
94 1,2,4-Trimethylbenzene	+++++	0.98928	1.18323	1.38742	1.06365	1.24524		
	1.28976	1.27928	1.41749				1.23192	12.038
95 sec-butylbenzene	1.31270	1.44635	1.73959	1.97826	1.55933	1.79960		
	1.88723	1.90486	+++++				1.70349	14.032
96 1,3-Dichlorobenzene	+++++	0.65497	0.75962	0.76588	0.68331	0.76164		
	0.83280	0.93621	1.13724				0.81646	19.093
97 Benzyl Chloride	+++++	0.65108	0.73150	0.90215	0.78308	0.93385		
	1.07104	1.12924	1.26535				0.93341	22.600
98 1,4-Dichlorobenzene	+++++	0.63148	0.68590	0.70465	0.62509	0.69956		
	0.74792	0.82921	0.99778				0.74020	16.566

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Curve Type : Average

Compound	0.04000 Level 1	0.08000 Level 2	0.16000 Level 3	0.40000 Level 4	1.000 Level 5	2.000 Level 6	RRF	% RSD
	4.000 Level 7	8.000 Level 8	16.000 Level 9					
99 p-Cymene	+++++	1.18291	1.37234	1.63784	1.26097	1.44963		
	1.52080	1.51553	1.59828				1.44229	11.093
100 ~ 1,2,3- Trimethylbenzene	0.67899	0.86180	1.03140	1.14412	0.89680	1.01728		
	1.01828	0.97739	1.03119				0.96192	13.929
101 ~ n-butylcyclohexane	0.77638	0.94530	1.17625	1.11933	0.98624	1.00102		
	0.95358	1.01778	1.04848				1.00271	11.330
102 1,2-Dichlorobenzene	+++++	0.66417	0.74908	0.77429	0.65142	0.72364		
	0.76233	0.83043	1.00758				0.77037	14.555
103 ~ Indane	0.87001	0.92425	1.10211	1.15906	0.92568	1.06585		
	1.11428	1.12732	1.33047				1.06878	13.401
105 ~ Indene	+++++	0.64364	0.79434	0.97743	0.80747	0.94838		
	1.03806	1.05912	1.22559				0.93676	19.491
104 n-butylbenzene	+++++	1.02555	1.20658	1.48605	1.14560	1.27096		
	1.34374	1.35546	1.44538				1.28491	12.044
106 Undecane	+++++	0.56563	0.62174	0.64759	0.59920	0.76291		
	0.82016	0.84689	0.97196				0.72951	19.664
107 ~ 1,2-dimethyl-4-ethylenzene	+++++	0.97166	1.03912	1.39764	1.10070	1.20889		
	1.29365	1.38231	1.48816				1.23527	15.055

Report Date : 12-Nov-2012 08:32

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 07-NOV-2012 14:31
End Cal Date : 07-NOV-2012 21:53
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/me.i/E110712I.b/TO15S.m
Cal Date : 12-Nov-2012 08:27 tajh
Curve Type : Average

Compound	0.04000 Level 1	0.08000 Level 2	0.16000 Level 3	0.40000 Level 4	1.000 Level 5	2.000 Level 6	___ RRF	% RSD	
	4.000 Level 7	8.000 Level 8	16.000 Level 9						
108 ~ 1,2,4,5-tetramethylbenzene	+++++	0.92384	0.95562	1.29252	0.98857	1.18570			
	1.26420	1.45628	1.51223				1.19737	18.852	
109 ~ 1,2,3,5-tetramethylbenzene	+++++	0.61339	0.66386	0.80579	0.63477	0.73357			
	0.75679	0.86364	0.91118				0.74788	14.440	
110 ~ 1,2,3,4-tetramethylbenzene	+++++	0.72314	0.74715	0.87302	0.78249	0.88664			
	0.87906	1.13792	1.16415				0.89920	18.617	
111 Dodecane	+++++	+++++	0.42506	0.36799	0.56221	0.39341			
	0.25985	+++++	+++++				0.40170	27.167	
112 1,2,4-Trichlorobenzene	0.29244	0.20993	0.20111	0.24920	0.30899	0.25806			
	0.25801	+++++	+++++				0.25396	15.499	
113 Napthalene	0.54008	0.36247	0.37024	0.46743	0.64358	0.53136			
	0.52985	+++++	+++++				0.49215	20.399	
114 ~ benzo(b) thiophene	+++++	0.16304	0.17229	0.20028	0.34463	0.23866			DNU
	0.22494	+++++	+++++				0.22397	29.426	
115 Hexachlorobutadiene	+++++	0.59114	0.59050	0.69051	0.57526	0.60439			
	0.54582	0.69847	0.81286				0.63862	13.880	
116 1,2,3-trichlorobenzene	+++++	0.13073	0.14446	0.14111	0.25936	0.15138			
	0.11049	+++++	+++++				0.15626	33.582	<- DNU

Report Date : 12-Nov-2012 08:32

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 07-NOV-2012 14:31
End Cal Date : 07-NOV-2012 21:53
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/me.i/E110712I.b/TO155.m
Cal Date : 12-Nov-2012 08:27 tajh
Curve Type : Average

Compound	0.04000 Level 1	0.08000 Level 2	0.16000 Level 3	0.40000 Level 4	1.000 Level 5	2.000 Level 6	RRF	% RSD	
	4.000 Level 7	8.000 Level 8	16.000 Level 9						
117 ~ 2-Methylnaphthalene	0.02040	0.00683	0.00564	0.00543	0.03260	0.01306			
	0.00693	0.02141	0.01626				0.01429	65.095	<-
118 ~ 1-Methylnaphthalene	0.02078	0.00616	0.00607	0.00531	0.03339	0.01283			
	0.00636	0.01787	0.01264				0.01349	69.138	<-
$ 4 4-Bromofluorobenzene	0.72084	0.73217	0.70917	0.74492	0.74133	0.73022			
	0.74177	0.77561	0.79883				0.74387	3.711	

DNC

Report Date:11/12/2012 Page 1

INITIAL CALIBRATION RT and RRT REPORT

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STD 9 = /var/chem/gcms/me.i/E110712I.b/eick079.d

COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	STD 9	MEAN
Chlorobenzene-d5	15.096	15.091	15.091	15.091	15.096	15.096	15.091	15.096	15.101	15.094
1,4-Difluorobenzene	10.259	10.243	10.248	10.238	10.254	10.254	10.243	10.248	10.270	10.251
Bromochloromethane	8.135	8.113	8.118	8.108	8.129	8.124	8.118	8.118	8.145	8.123
4-Bromofluorobenzene	1.111	1.111	1.111	1.111	1.111	1.111	1.111	1.111	1.111	1.111
2-Nitropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00
~ 2-Methylnaphthalene DNU	1.441	1.441	1.441	1.441	1.440	1.440	1.441	1.440	1.440	1.440
Chlorodifluoromethane	NA	0.454	0.454	0.453	0.453	0.454	0.453	0.453	0.452	0.453
Propene	NA	NA	0.455	0.454	0.453	0.456	0.453	0.454	0.454	0.454
Dichlorodifluoromethane	0.460	0.460	0.460	0.459	0.459	0.461	0.459	0.459	0.459	0.460
Chloromethane	NA	0.480	0.478	0.477	0.477	0.479	0.477	0.478	0.477	0.478
1,2-Dichlorotetrafluoroethan	0.480	0.480	0.480	0.478	0.479	0.480	0.478	0.478	0.478	0.479
~ acetaldehyde	NA	NA	NA	0.492	0.493	0.494	0.492	0.492	0.492	0.492
Methanol	NA	NA	NA	NA	0.494	0.494	0.491	0.492	0.494	0.493
Vinyl Chloride	0.496	0.496	0.496	0.494	0.495	0.496	0.494	0.495	0.494	0.495
n-Butane	NA	NA	0.505	0.504	0.504	0.505	0.503	0.504	0.503	0.504
1,3-Butadiene	0.505	0.505	0.505	0.504	0.504	0.505	0.503	0.504	0.503	0.504
Bromomethane	0.537	0.537	0.537	0.536	0.536	0.537	0.535	0.536	0.535	0.536
Chloroethane	0.552	0.551	0.551	0.550	0.550	0.551	0.550	0.550	0.550	0.550
~ ethanol	NA	NA	0.562	0.561	0.564	0.564	0.561	0.562	0.565	0.563
Vinyl Bromide	0.582	0.582	0.582	0.581	0.581	0.582	0.580	0.581	0.581	0.581
2-methyl butane	NA	0.588	0.588	0.587	0.587	0.588	0.586	0.586	0.586	0.587
Trichlorofluoromethane	NA	0.610	0.610	0.609	0.609	0.610	0.608	0.609	0.609	0.609
Acrolein	NA	NA	0.611	0.608	0.611	0.610	0.608	0.609	0.609	0.609
Acetonitrile	NA	NA	0.617	0.616	0.617	0.616	0.615	0.615	0.617	0.616
Acetone	NA	NA	NA	NA	0.623	0.622	0.621	0.621	0.622	0.622
Pentane	NA	NA	0.634	0.632	0.633	0.634	0.631	0.632	0.632	0.632
Isopropyl alcohol	NA	NA	0.634	0.632	0.634	0.635	0.631	0.633	0.636	0.634
Ethyl Ether	NA	NA	0.652	0.650	0.651	0.650	0.649	0.649	0.649	0.650
1,1-Dichloroethene	0.684	0.684	0.683	0.683	0.683	0.683	0.682	0.682	0.682	0.683
Acrylonitrile	NA	NA	0.694	0.692	0.694	0.693	0.692	0.693	0.693	0.693
1,1,2-Trichlorotrifluoroetha	0.704	0.704	0.704	0.703	0.703	0.703	0.702	0.702	0.702	0.703
tert-butanol	NA	NA	0.697	0.695	0.697	0.697	0.694	0.695	0.698	0.696
Methylene Chloride	NA	NA	0.719	0.719	0.719	0.719	0.718	0.719	0.719	0.719
3-Chloropropene	NA	0.722	0.722	0.721	0.721	0.721	0.720	0.721	0.721	0.721
Carbon Disulfide	NA	NA	0.737	0.736	0.736	0.737	0.736	0.736	0.735	0.736
trans-1,2-Dichloroethene	0.809	0.808	0.807	0.807	0.808	0.808	0.807	0.807	0.807	0.808
~ 2-Methyl Pentane	0.813	0.812	0.811	0.811	0.812	0.811	0.810	0.811	0.810	0.811

Evaluation Criteria
Internal Standard RT shift within 20 seconds of mean RT
Target compound RRT within 0.06 RRT of the RRT mean
Note: IS data is RT, SS and Target Compound Data is RRT.

Report Date:11/12/2012

INITIAL CALIBRATION RT and RRT REPORT

STD 1 = /var/chem/gcms/me.i/E110712I.b/eick071.d
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STD 9 = /var/chem/gcms/me.i/E110712I.b/eick079.d

COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	STD 9	MEAN
Methyl-t-Butyl Ether	NA	0.826	0.824	0.823	0.824	0.823	0.821	0.822	0.822	0.823
1,1-Dichloroethane	0.854	0.854	0.853	0.853	0.853	0.853	0.852	0.852	0.852	0.853
Vinyl Acetate	NA	NA	0.866	0.866	0.867	0.866	0.865	0.865	0.866	0.866
Hexane	NA	NA	0.920	0.920	0.920	0.921	0.919	0.920	0.919	0.920
2-Butanone	NA	NA	0.916	0.915	0.915	0.916	0.914	0.914	0.915	0.915
cis 1,2-Dichloroethene	0.963	0.963	0.963	0.963	0.964	0.963	0.963	0.963	0.963	0.963
Ethyl acetate	NA	NA	0.987	0.987	0.987	0.987	0.985	0.986	0.986	0.986
Chloroform	1.003	1.003	1.002	1.003	1.003	1.003	1.003	1.003	1.003	1.003
Tetrahydrofuran	NA	NA	1.051	1.050	1.049	1.049	1.047	1.048	1.047	1.049
1,1,1-Trichloroethane	NA	1.122	1.121	1.122	1.121	1.121	1.121	1.121	1.120	1.121
1,2-Dichloroethane	0.898	0.897	0.897	0.897	0.897	0.897	0.897	0.897	0.898	0.897
Cyclohexane	NA	0.946	0.945	0.945	0.945	0.945	0.945	0.945	0.944	0.945
Benzene	0.944	0.944	0.944	0.944	0.945	0.944	0.945	0.944	0.944	0.944
Carbon Tetrachloride	0.947	0.948	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947
1-Butanol	NA	NA	NA	0.945	0.945	0.945	0.943	0.943	0.944	0.944
~ 2,3-dimethylpentane	0.960	0.959	0.959	0.959	0.960	0.959	0.959	0.959	0.958	0.959
~ Thiophene	0.970	0.970	0.970	0.971	0.971	0.971	0.971	0.971	0.970	0.970
2,2,4-trimethylpentane	1.025	1.025	1.024	1.024	1.024	1.024	1.024	1.024	1.023	1.024
Heptane	1.063	1.063	1.062	1.063	1.062	1.062	1.063	1.062	1.062	1.062
1,2-Dichloropropane	1.066	1.066	1.066	1.066	1.066	1.066	1.066	1.066	1.066	1.066
Trichloroethene	1.071	1.070	1.070	1.071	1.070	1.070	1.071	1.070	1.070	1.070
Dibromomethane	1.077	1.077	1.077	1.077	1.077	1.077	1.077	1.077	1.077	1.077
Bromodichloromethane	1.092	1.093	1.093	1.093	1.092	1.093	1.093	1.093	1.092	1.093
~ 1-Methylnaphthalene DPH	1.454	1.454	1.454	1.454	1.453	1.453	1.454	1.453	1.453	1.454
1,4-dioxane	1.099	1.098	1.096	1.096	1.096	1.095	1.095	1.095	1.094	1.096
Methyl Methacrylate	NA	1.107	1.106	1.106	1.105	1.105	1.105	1.105	1.104	1.105
~ methyl cyclohexane	1.148	1.148	1.148	1.149	1.148	1.148	1.148	1.148	1.147	1.148
cis-1,3-Dichloropropene	1.194	1.194	1.194	1.195	1.194	1.194	1.195	1.194	1.193	1.194
4-Methyl-2-pentanone	NA	1.192	1.190	1.191	1.190	1.190	1.190	1.189	1.189	1.190
trans-1,3-Dichloropropene	0.859	0.859	0.858	0.858	0.858	0.858	0.858	0.858	0.859	0.858
Toluene	NA	0.867	0.867	0.867	0.867	0.867	0.867	0.867	0.867	0.867
1,1,2-Trichloroethane	0.872	0.872	0.871	0.871	0.871	0.872	0.872	0.871	0.872	0.872
~ 2-methyl thiophene	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877
~ 3-methyl thiophene	0.891	0.890	0.891	0.890	0.890	0.891	0.891	0.890	0.891	0.890
2-Hexanone	NA	NA	0.900	0.899	0.900	0.899	0.899	0.899	0.900	0.899
Octane	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.916	0.917	0.917
Dibromochloromethane	0.919	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.919	0.918

Evaluation Criteria
Internal Standard RT shift within 20 seconds of mean RT
Target compound RRT within 0.06 RRT of the RRT mean
Note: IS data is RT, SS and Target Compound Data is RRT.

INITIAL CALIBRATION RT and RRT REPORT

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COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	STD 9	MEAN
1,2-Dibromoethane	0.938	0.938	0.938	0.938	0.938	0.938	0.938	0.938	0.938	0.938
Tetrachloroethene	0.944	0.945	0.944	0.944	0.944	0.944	0.944	0.944	0.944	0.944
Chlorobenzene	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003
~ 2,3-dimethylheptane	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008
Ethylbenzene	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024
~ 2-ethyl thiophene	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030
m&p-Xylene	1.035	1.035	1.035	1.035	1.035	1.035	1.035	1.035	NA	1.035
Nonane	NA	1.066	1.066	1.066	1.066	1.066	1.066	1.066	1.066	1.066
Bromoform	NA	1.063	1.063	1.063	1.063	1.063	1.063	1.062	1.063	1.063
Styrene	1.066	1.066	1.066	1.066	1.066	1.066	1.066	1.066	1.066	1.066
o-Xylene	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070
1,1,2,2-Tetrachloroethane	1.091	1.092	1.091	1.091	1.091	1.091	1.091	1.091	1.091	1.091
1,2,3-Trichloropropane	1.102	1.102	1.102	1.102	1.102	1.102	1.102	1.102	1.102	1.102
Cumene	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110
n-Propylbenzene	1.146	1.147	1.146	1.146	1.146	1.146	1.147	1.146	1.146	1.146
2-chlorotoluene	1.148	1.149	1.149	1.149	1.148	1.148	1.149	1.148	1.148	1.148
4-Ethyltoluene	1.157	1.157	1.158	1.158	1.157	1.157	1.158	1.157	1.157	1.157
1,3,5-Trimethylbenzene	1.162	1.163	1.163	1.163	1.162	1.162	1.163	1.162	1.162	1.162
Alpha-Methylstyrene	NA	NA	1.179	1.179	1.179	1.178	1.179	1.179	1.178	1.179
Decane	NA	1.186	1.186	1.186	1.185	1.185	1.186	1.185	1.185	1.186
tert-butylbenzene	1.192	1.192	1.193	1.192	1.192	1.192	1.193	1.192	1.192	1.192
1,2,4-Trimethylbenzene	NA	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193
sec-butylbenzene	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	NA	1.211
1,3-Dichlorobenzene	NA	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211
Benzyl Chloride	NA	1.216	1.216	1.216	1.216	1.216	1.216	1.216	1.216	1.216
1,4-Dichlorobenzene	NA	1.217	1.217	1.217	1.217	1.217	1.217	1.217	1.217	1.217
p-Cymene	NA	1.223	1.223	1.223	1.222	1.222	1.223	1.222	1.222	1.222
~ 1,2,3- Trimethylbenzene	1.225	1.226	1.226	1.225	1.225	1.225	1.226	1.225	1.225	1.225
~ n-butylcyclohexane	1.230	1.230	1.230	1.230	1.230	1.230	1.231	1.230	1.230	1.230
1,2-Dichlorobenzene	NA	1.242	1.242	1.242	1.241	1.241	1.242	1.241	1.241	1.242
~ Indane	1.242	1.242	1.242	1.242	1.242	1.242	1.242	1.242	1.242	1.242
~ Indene	NA	1.251	1.251	1.251	1.250	1.251	1.251	1.251	1.250	1.251
n-butylbenzene	NA	1.253	1.253	1.253	1.252	1.252	1.253	1.252	1.252	1.252
Undecane	NA	1.277	1.276	1.276	1.276	1.276	1.277	1.276	1.276	1.276
~ 1,2-dimethyl-4-ethylenzene	NA	1.279	1.278	1.278	1.278	1.278	1.278	1.278	1.278	1.278
~ 1,2,4,5-tetramethylbenzene	NA	1.305	1.305	1.305	1.304	1.304	1.305	1.304	1.304	1.304
~ 1,2,3,5-tetramethylbenzene	NA	1.308	1.308	1.308	1.308	1.308	1.308	1.308	1.308	1.308

Evaluation Criteria
Internal Standard RT shift within 20 seconds of mean RT
Target compound RRT within 0.06 RRT of the RRT mean
Note: IS data is RT, SS and Target Compound Data is RRT.

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INITIAL CALIBRATION RT and RRT REPORT

STD 1 = /var/chem/gcms/me.i/E110712I.b/eick071.d
STD 2 = /var/chem/gcms/me.i/E110712I.b/eick072.d
STD 3 = /var/chem/gcms/me.i/E110712I.b/eick073.d
STD 4 = /var/chem/gcms/me.i/E110712I.b/eick074.d
STD 5 = /var/chem/gcms/me.i/E110712I.b/eick075.d
STD 6 = /var/chem/gcms/me.i/E110712I.b/eick076.d
STD 7 = /var/chem/gcms/me.i/E110712I.b/eick077.d
STD 8 = /var/chem/gcms/me.i/E110712I.b/eick078.d
STD 9 = /var/chem/gcms/me.i/E110712I.b/eick079.d

COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	STD 9	MEAN
~ 1,2,3,4-tetramethylbenzene	NA	1.335	1.335	1.334	1.334	1.334	1.334	1.334	1.334	1.334
Dodecane	NA	NA	1.348	1.348	1.348	1.348	1.348	NA	NA	1.348
1,2,4-Trichlorobenzene	1.357	1.357	1.357	1.357	1.356	1.356	1.357	NA	NA	1.357
Napthalene	1.365	1.366	1.366	1.366	1.365	1.365	1.366	NA	NA	1.366
~ benzo(b) thiophene DNU	NA	1.373	1.372	1.372	1.372	1.372	1.372	NA	NA	1.372
Hexachlorobutadiene	NA	1.382	1.382	1.381	1.381	1.381	1.381	1.381	1.381	1.381
1,2,3-trichlorobenzene DNU	NA	1.385	1.385	1.385	1.384	1.384	1.385	NA	NA	1.385

Evaluation Criteria
Internal Standard RT shift within 20 seconds of mean RT
Target compound RRT within 0.06 RRT of the RRT mean
Note: IS data is RT, SS and Target Compound Data is RRT.

Data File: /var/chem/gcms/me.i/E110712I.b/eick071.d
Report Date: 09-Nov-2012 11:51

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E110712I.b/eick071.d
Lab Smp Id: ICAL Client Smp ID: ICAL0.04
Inj Date : 07-NOV-2012 14:31
Operator : 7126 Inst ID: me.i
Smp Info : ICAL,,1,1,,ICAL0.04
Misc Info : E110712I,TO155,allmdl.sub,,,
Comment :
Method : /var/chem/gcms/me.i/E110712I.b/TO155.m
Meth Date : 09-Nov-2012 11:51 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 14:31 Cal File: eick071.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allmdl.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
*	1 Bromochloromethane	128	8.135	8.145	(1.000)	320179	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.259	10.270	(1.000)	1641447	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.096	15.101	(1.000)	1464233	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.768	16.773	(1.111)	1055473	4.00000	3.872
M	5 Xylene (total)	100				38701	0.12000	0.09798
	6 Chlorodifluoromethane	67	3.697	3.686	(0.454)	2303	0.04000	0.04733
	7 Propene	41	3.702	3.697	(0.455)	11263	0.04000	0.07231
	10 Dichlorodifluoromethane	85	3.745	3.740	(0.460)	21556	0.04000	0.04249
	9 Chloromethane	52	3.902	3.885	(0.480)	3148	0.04000	0.05591
	11 1,2-Dichlorotetrafluoroethane	135	3.907	3.891	(0.480)	14040	0.04000	0.04077
	8 ~ acetaldehyde	44	4.031	4.009	(0.496)	73837	0.20000	1.225
	12 Methanol	31	4.036	4.020	(0.496)	13609	0.04000	0.2845
	13 Vinyl Chloride	62	4.036	4.025	(0.496)	8388	0.04000	0.04419
	14 n-Butane	43	4.117	4.101	(0.506)	15201	0.04000	0.05437
	15 1,3-Butadiene	54	4.107	4.101	(0.505)	6190	0.04000	0.04588
	16 Bromomethane	94	4.371	4.360	(0.537)	6310	0.04000	0.03981

Data File: /var/chem/gcms/me.i/E110712I.b/eick071.d
Report Date: 09-Nov-2012 11:51

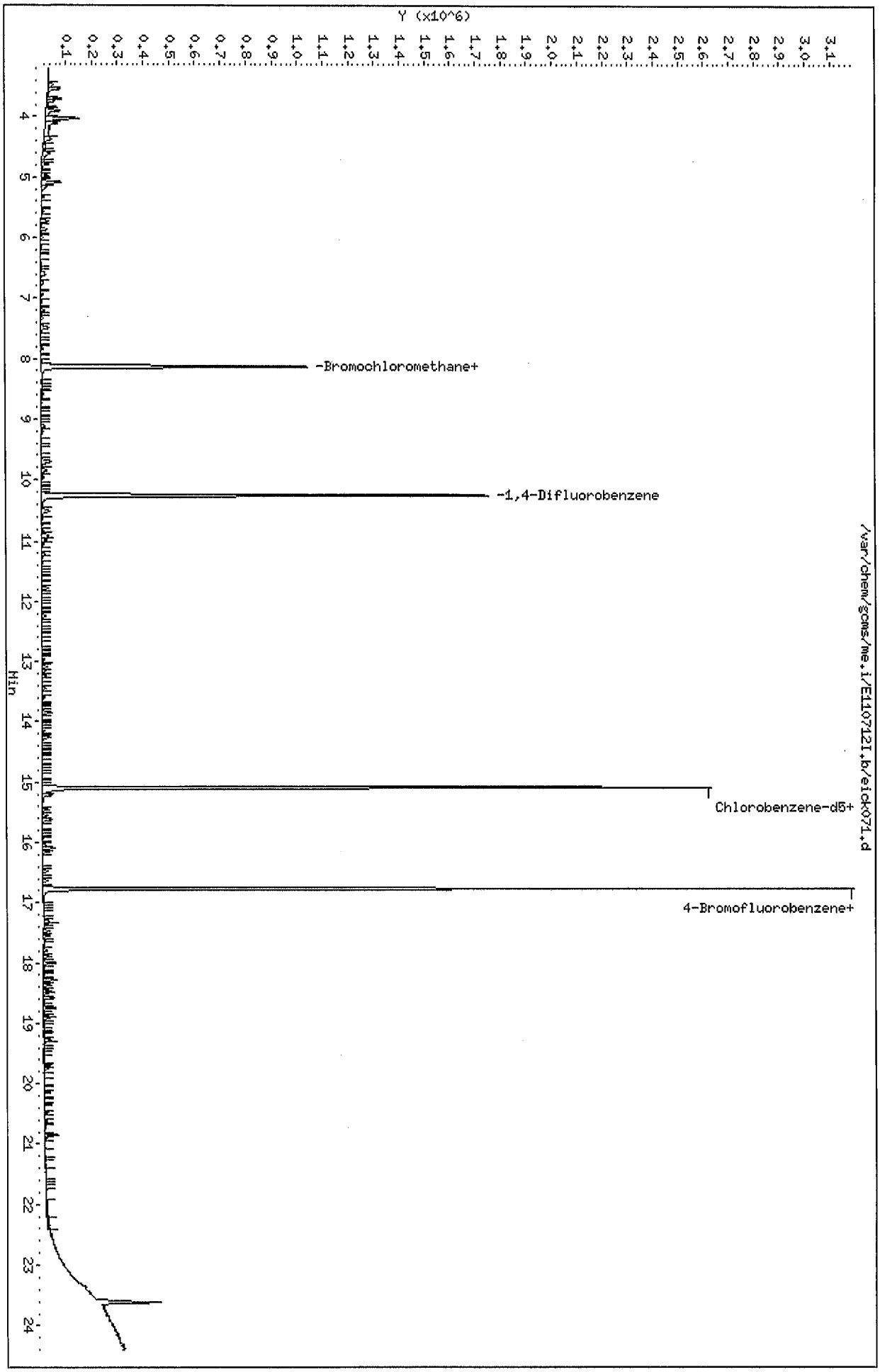
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
18 Chloroethane	64	4.489	4.478	(0.552)	3758	0.04000	0.04644
17 ~ ethanol	31	4.613	4.602	(0.567)	16678	0.20000	0.4106
19 Vinyl Bromide	106	4.737	4.732	(0.582)	5472	0.04000	0.04645
20 2-methyl butane	43	4.791	4.775	(0.589)	11077	0.04000	0.05174
21 Trichlorofluoromethane	101	4.975	4.958	(0.612)	21183	0.04000	0.04789
22 Acrolein	56	4.985	4.964	(0.613)	2632	0.04000	0.06274
23 Acetonitrile	40	5.034	5.023	(0.619)	1450	0.04000	0.02912
24 Acetone	58	5.093	5.066	(0.626)	37832	0.04000	0.5386
25 Pentane	72	5.163	5.147	(0.635)	1187	0.04000	0.04299
26 Isopropyl alcohol	45	5.201	5.179	(0.639)	16170	0.04000	0.3611
27 Ethyl Ether	31	5.336	5.287	(0.656)	6245	0.04000	0.03886
28 1,1-Dichloroethene	96	5.568	5.557	(0.684)	4779	0.04000	0.04495
29 Acrylonitrile	53	5.654	5.649	(0.695)	2211	0.04000	0.02763
30 1,1,2-Trichlorotrifluoroethane	101	5.730	5.719	(0.704)	10002	0.04000	0.04188
31 tert-butanol	59	5.730	5.686	(0.704)	10825	0.04000	0.05030
32 Methylene Chloride	84	5.859	5.853	(0.720)	7754	0.04000	0.07839
33 3-Chloropropene	39	5.881	5.870	(0.723)	5759	0.04000	0.04735
34 Carbon Disulfide	76	5.994	5.988	(0.737)	15215	0.04000	0.04381
35 trans-1,2-Dichloroethene	96	6.582	6.571	(0.809)	4946	0.04000	0.04081
36 ~ 2-Methyl Pentane	43	6.614	6.598	(0.813)	16892	0.04000	0.05043
37 Methyl-t-Butyl Ether	73	6.743	6.695	(0.829)	11108	0.04000	0.03376
38 1,1-Dichloroethane	63	6.943	6.943	(0.854)	10093	0.04000	0.04070
39 Vinyl Acetate	43	7.067	7.056	(0.869)	9508	0.04000	0.03213
40 Hexane	56	7.498	7.487	(0.922)	5298	0.04000	0.04184
41 2-Butanone	72	7.482	7.455	(0.920)	4388	0.04000	0.08109
42 cis 1,2-Dichloroethene	96	7.833	7.843	(0.963)	4366	0.04000	0.03815
43 Ethyl acetate	43	8.054	8.032	(0.990)	8667	0.04000	0.03325
44 Chloroform	83	8.162	8.167	(1.003)	12391	0.04000	0.04207
45 Tetrahydrofuran	42	8.577	8.528	(1.054)	5056	0.04000	0.03545
46 1,1,1-Trichloroethane	97	9.121	9.121	(1.121)	13383	0.04000	0.04046
47 1,2-Dichloroethane	62	9.208	9.218	(0.898)	8390	0.04000	0.04032
48 Cyclohexane	69	9.693	9.698	(0.945)	2665	0.04000	0.03892
49 Benzene	78	9.688	9.698	(0.944)	14874	0.04000	0.04156
50 Carbon Tetrachloride	117	9.715	9.725	(0.947)	10462	0.04000	0.03557
51 1-Butanol	31	9.758	9.698	(0.951)	2180	0.04000	0.06095
52 ~ 2,3-dimethylpentane	71	9.844	9.844	(0.960)	3543	0.04000	0.04256
53 ~ Thiophene	84	9.957	9.968	(0.971)	8264	0.04000	0.04037
54 2,2,4-trimethylpentane	57	10.513	10.507	(1.025)	31103	0.04120	0.04432
55 Heptane	71	10.906	10.906	(1.063)	6040	0.04000	0.04193
56 1,2-Dichloropropane	63	10.933	10.944	(1.066)	5806	0.04000	0.04215
57 Trichloroethene	130	10.987	10.992	(1.071)	7444	0.04000	0.04459
58 Dibromomethane	93	11.046	11.057	(1.077)	5684	0.04000	0.03925
59 Bromodichloromethane	83	11.208	11.219	(1.093)	11574	0.04000	0.03823
60 1,4-dioxane	88	11.273	11.235	(1.099)	1771	0.04000	0.04442
61 Methyl Methacrylate	41	11.348	11.343	(1.106)	5114	0.04000	0.03174
62 ~ methyl cyclohexane	83	11.774	11.780	(1.148)	9818	0.04000	0.04149
63 cis-1,3-Dichloropropene	75	12.249	12.254	(1.194)	6375	0.04000	0.03463

Data File: /var/chem/gcms/me.i/E110712I.b/eick071.d
Report Date: 09-Nov-2012 11:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
65	trans-1,3-Dichloropropene	75	12.972	12.977	(0.859)	5347	0.04000	0.03151
66	Toluene	91	13.085	13.095	(0.867)	15169	0.04000	0.03660
67	1,1,2-Trichloroethane	83	13.166	13.171	(0.872)	4247	0.04000	0.03666
68	~ 2-methyl thiophene	97	13.241	13.246	(0.877)	12458	0.04000	0.03844
70	~ 3-methyl thiophene	97	13.446	13.451	(0.891)	12489	0.04000	0.03769
69	2-Hexanone	58	13.602	13.586	(0.901)	3629	0.04000	0.03142
71	Octane	85	13.840	13.845	(0.917)	5245	0.04000	0.03578
72	Dibromochloromethane	129	13.872	13.877	(0.919)	8209	0.04000	0.03258
73	1,2-Dibromoethane	107	14.163	14.169	(0.938)	6069	0.04000	0.03311
74	Tetrachloroethene	129	14.255	14.260	(0.944)	6862	0.04000	0.04082
75	Chlorobenzene	112	15.139	15.150	(1.003)	12092	0.04000	0.03833
76	~ 2,3-dimethylheptane	43	15.215	15.220	(1.008)	18711	0.04000	0.04046
77	Ethylbenzene	91	15.452	15.463	(1.024)	16488	0.04000	0.03272
79	~ 2-ethyl thiophene	97	15.555	15.560	(1.030)	13147	0.04000	0.03458
78	m&p-Xylene	91	15.619	15.624	(1.035)	25178	0.08000	0.06471
80	Nonane	57	16.094	16.099	(1.066)	9476	0.04000	0.03185
81	Bromoform	173	16.045	16.050	(1.063)	6092	0.04000	0.02714
82	Styrene	104	16.088	16.094	(1.066)	6121	0.04000	0.02427
83	o-Xylene	91	16.148	16.158	(1.070)	13522	0.04000	0.03328
84	1,1,2,2-Tetrachloroethane	83	16.477	16.482	(1.091)	8462	0.04000	0.03265
85	1,2,3-Trichloropropane	110	16.633	16.638	(1.102)	2892	0.04000	0.03354
86	Cumene	105	16.757	16.757	(1.110)	20249	0.04000	0.03413
87	n-Propylbenzene	120	17.307	17.312	(1.146)	4360	0.04000	0.03044
88	2-chlorotoluene	126	17.334	17.345	(1.148)	4801	0.04000	0.03385
89	4-Ethyltoluene	105	17.469	17.474	(1.157)	15127	0.04000	0.02902
90	1,3,5-Trimethylbenzene	120	17.550	17.555	(1.163)	6503	0.04000	0.02783
91	Alpha-Methylstyrene	118	17.792	17.798	(1.179)	4183	0.04000	0.02043
92	Decane	57	17.895	17.900	(1.185)	8020	0.04000	0.02624
93	tert-butylbenzene	119	17.997	18.003	(1.192)	15546	0.04000	0.03132
94	1,2,4-Trimethylbenzene	105	18.008	18.013	(1.193)	12261	0.04000	0.02716
95	sec-butylbenzene	105	18.283	18.283	(1.211)	19221	0.04000	0.03070
96	1,3-Dichlorobenzene	146	18.278	18.283	(1.211)	8688	0.04000	0.02904
97	Benzyl Chloride	91	18.353	18.364	(1.216)	8269	0.04000	0.02423
98	1,4-Dichlorobenzene	146	18.369	18.375	(1.217)	8520	0.04000	0.03142
99	p-Cymene	119	18.456	18.461	(1.223)	14270	0.04000	0.02744
100	~ 1,2,3- Trimethylbenzene	105	18.499	18.504	(1.225)	9942	0.04000	0.02933
101	~ n-butylcyclohexane	83	18.574	18.579	(1.230)	11368	0.04000	0.03188
102	1,2-Dichlorobenzene	146	18.736	18.747	(1.241)	8993	0.04000	0.03186
103	~ Indane	117	18.747	18.752	(1.242)	12739	0.04000	0.03372
105	~ Indene	116	18.882	18.881	(1.251)	8177	0.04000	0.02501
104	n-butylbenzene	91	18.909	18.908	(1.253)	13163	0.04000	0.02848
106	Undecane	57	19.264	19.270	(1.276)	8051	0.04000	0.03096
107	~ 1,2-dimethyl-4-ethylenzene	119	19.297	19.297	(1.278)	12705	0.04000	0.02980
108	~ 1,2,4,5-tetramethylbenzene	119	19.690	19.696	(1.304)	12545	0.04000	0.03062
109	~ 1,2,3,5-tetramethylbenzene	119	19.744	19.750	(1.308)	7354	0.04000	0.02910
110	~ 1,2,3,4-tetramethylbenzene	119	20.143	20.143	(1.334)	11446	0.04000	0.03542
111	Dodecane	57	20.343	20.343	(1.348)	7456	0.04000	0.04527

Data File: /var/chem/gcms/me.i/E110712I.b/eick071.d
Report Date: 09-Nov-2012 11:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
112 1,2,4-Trichlorobenzene	180	20.483	20.483	(1.357)	4282	0.04000	0.04718
113 Napthalene	128	20.607	20.612	(1.365)	7908	0.04000	0.04242
114 ~ benzo(b) thiophene	134	20.710	20.715	(1.372)	4501	0.04000	0.04239
115 Hexachlorobutadiene	225	20.844	20.850	(1.381)	9867	0.04000	0.04216
116 1,2,3-trichlorobenzene	180	20.898	20.898	(1.384)	3908	0.04000	0.05711
117 ~ 2-Methylnaphthalene	142	21.750	21.745	(1.441)	1867	0.25000	0.3775
118 ~ 1-Methylnaphthalene	142	21.945	21.939	(1.454)	1902	0.25000	0.4132


Data File: /var/chem/gcms/me.i/E110712I.b/eick071.d
Date : 07-NOV-2012 14:31
Client ID: ICAL0.04
Sample Info: ICAL,1,1,,ICAL0.04
Purge Volume: 200.0
Column phase: Rtx-5
Instrument: me.i
Operator: 7126
Column diameter: 0.32
Y (x10^6)
-Bromochloromethane+
-1,4-Difluorobenzene
/var/chem/gcms/me.i/E110712I.b/eick071.d
Chlorobenzene-d5+
4-Bromofluorobenzene+
Min

Data File: /var/chem/gcms/me.i/E110712I.b/eick072.d
Report Date: 12-Nov-2012 08:26

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E110712I.b/eick072.d
Lab Smp Id: ICAL Client Smp ID: ICAL0.08
Inj Date : 07-NOV-2012 15:34
Operator : 7126 Inst ID: me.i
Smp Info : ICAL,,1,2,,ICAL0.08
Misc Info : E110712I,TO155,allmdl.sub,,,
Comment :
Method : /var/chem/gcms/me.i/E110712I.b/TO155.m
Meth Date : 12-Nov-2012 08:25 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 15:34 Cal File: eick072.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allmdl.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
*	1 Bromochloromethane	128	8.113	8.145	(1.000)	283111	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.243	10.270	(1.000)	1426543	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.091	15.101	(1.000)	1337087	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.768	16.773	(1.111)	978973	4.00000	3.937
M	5 Xylene (total)	100				80775	0.24000	0.2241
	6 Chlorodifluoromethane	67	3.686	3.686	(0.454)	4249	0.08000	0.09893
	7 Propene	41	3.696	3.697	(0.456)	22380	0.08000	0.1632
	10 Dichlorodifluoromethane	85	3.734	3.740	(0.460)	44967	0.08000	0.1004
	9 Chloromethane	52	3.891	3.885	(0.480)	4835	0.08000	0.09506
	11 1,2-Dichlorotetrafluoroethane	135	3.891	3.891	(0.480)	28510	0.08000	0.09379
	8 ~ acetaldehyde	44	4.009	4.009	(0.494)	141594	0.40000	2.640
	12 Methanol	31	4.004	4.020	(0.494)	23035	0.08000	0.5439
	13 Vinyl Chloride	62	4.025	4.025	(0.496)	15722	0.08000	0.09377
	14 n-Butane	43	4.101	4.101	(0.505)	26358	0.08000	0.1069
	15 1,3-Butadiene	54	4.096	4.101	(0.505)	11174	0.08000	0.09388
	16 Bromomethane	94	4.360	4.360	(0.537)	13785	0.08000	0.09915

Data File: /var/chem/gcms/me.i/E110712I.b/eick072.d
Report Date: 12-Nov-2012 08:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
18 Chloroethane	64	4.473	4.478	(0.551)	6439	0.08000	0.09012
17 ~ ethanol	31	4.570	4.602	(0.563)	30294	0.40000	0.8155
19 Vinyl Bromide	106	4.726	4.732	(0.583)	9160	0.08000	0.08807
20 2-methyl butane	43	4.770	4.775	(0.588)	19211	0.08000	0.1017
21 Trichlorofluoromethane	101	4.948	4.958	(0.610)	36493	0.08000	0.09350
22 Acrolein	56	4.953	4.964	(0.610)	4781	0.08000	0.1293
23 Acetonitrile	40	5.012	5.023	(0.618)	4890	0.08000	0.1105
24 Acetone	58	5.050	5.066	(0.622)	67604	0.08000	1.098
25 Pentane	72	5.136	5.147	(0.633)	2336	0.08000	0.09581
26 Isopropyl alcohol	45	5.158	5.179	(0.636)	26088	0.08000	0.1458
27 Ethyl Ether	31	5.293	5.287	(0.652)	11992	0.08000	0.08488
28 1,1-Dichloroethene	96	5.546	5.557	(0.684)	8199	0.08000	0.08731
29 Acrylonitrile	53	5.686	5.649	(0.701)	299	0.08000	0.004247 — MW 11.12.12
30 1,1,2-Trichlorotrifluoroethane	101	5.708	5.719	(0.704)	18920	0.08000	0.08975
31 tert-butanol	59	5.676	5.686	(0.700)	12284	0.08000	0.06456
32 Methylene Chloride	84	5.837	5.853	(0.720)	11244	0.08000	0.1288
33 3-Chloropropene	39	5.853	5.870	(0.722)	9900	0.08000	0.09212
34 Carbon Disulfide	76	5.983	5.988	(0.737)	29420	0.08000	0.09594
35 trans-1,2-Dichloroethene	96	6.554	6.571	(0.808)	9269	0.08000	0.08664
36 ~ 2-Methyl Pentane	43	6.587	6.598	(0.812)	31388	0.08000	0.09280
37 Methyl-t-Butyl Ether	73	6.705	6.695	(0.827)	22549	0.08000	0.07762
38 1,1-Dichloroethane	63	6.927	6.943	(0.854)	19657	0.08000	0.08982
39 Vinyl Acetate	43	7.034	7.056	(0.867)	18807	0.08000	0.07198
40 Hexane	56	7.471	7.487	(0.921)	10576	0.08000	0.09468
41 2-Butanone	72	7.439	7.455	(0.917)	9085	0.08000	0.1903
42 cis 1,2-Dichloroethene	96	7.816	7.843	(0.963)	8393	0.08000	0.08312
43 Ethyl acetate	43	8.021	8.032	(0.989)	18715	0.08000	0.08122
44 Chloroform	83	8.140	8.167	(1.003)	22717	0.08000	0.08742
45 Tetrahydrofuran	42	8.544	8.528	(1.053)	9751	0.08000	0.07746
46 1,1,1-Trichloroethane	97	9.100	9.121	(1.122)	24956	0.08000	0.08548
47 1,2-Dichloroethane	62	9.186	9.218	(0.897)	16055	0.08000	0.08846
48 Cyclohexane	69	9.687	9.698	(0.946)	5655	0.08000	0.09505
49 Benzene	78	9.671	9.698	(0.944)	27607	0.08000	0.08864
50 Carbon Tetrachloride	117	9.709	9.725	(0.948)	20610	0.08000	0.08066
51 1-Butanol	31	9.714	9.698	(0.948)	2919	0.08000	0.09405
52 ~ 2,3-dimethylpentane	71	9.828	9.844	(0.959)	6375	0.08000	0.08566
53 ~ Thiophene	84	9.941	9.968	(0.971)	15884	0.08000	0.08584
54 2,2,4-trimethylpentane	57	10.496	10.507	(1.025)	54028	0.08240	0.08910
55 Heptane	71	10.885	10.906	(1.063)	10654	0.08000	0.08515
56 1,2-Dichloropropane	63	10.922	10.944	(1.066)	10886	0.08000	0.09111
57 Trichloroethene	130	10.965	10.992	(1.071)	12803	0.08000	0.08825
58 Dibromomethane	93	11.036	11.057	(1.077)	10821	0.08000	0.08594
59 Bromodichloromethane	83	11.192	11.219	(1.093)	20864	0.08000	0.07933
60 1,4-dioxane	88	11.251	11.235	(1.098)	3066	0.08000	0.08840
61 Methyl Methacrylate	41	11.338	11.343	(1.107)	10402	0.08000	0.07429
62 ~ methyl cyclohexane	83	11.764	11.780	(1.148)	19039	0.08000	0.08904
63 cis-1,3-Dichloropropene	75	12.233	12.254	(1.194)	12257	0.08000	0.07665

Data File: /var/chem/gcms/me.i/E110712I.b/eick072.d
Report Date: 12-Nov-2012 08:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
64 4-Methyl-2-pentanone	43	12.211	12.211	(1.192)	18645	0.08000	0.08022
65 trans-1,3-Dichloropropene	75	12.961	12.977	(0.859)	10704	0.08000	0.06920
66 Toluene	91	13.085	13.095	(0.867)	29807	0.08000	0.07879
67 1,1,2-Trichloroethane	83	13.155	13.171	(0.872)	8296	0.08000	0.07847
68 ~ 2-methyl thiophene	97	13.230	13.246	(0.877)	23881	0.08000	0.07736
70 ~ 3-methyl thiophene	97	13.435	13.451	(0.890)	24645	0.08000	0.07856
69 2-Hexanone	58	13.586	13.586	(0.900)	7622	0.08000	0.07228
71 Octane	85	13.840	13.845	(0.917)	10584	0.08000	0.07908
72 Dibromochloromethane	129	13.861	13.877	(0.919)	16365	0.08000	0.07121
73 1,2-Dibromoethane	107	14.152	14.169	(0.938)	11721	0.08000	0.07020
74 Tetrachloroethene	129	14.255	14.260	(0.945)	13168	0.08000	0.08595
75 Chlorobenzene	112	15.139	15.150	(1.003)	23452	0.08000	0.08142
76 ~ 2,3-dimethylheptane	43	15.215	15.220	(1.008)	36917	0.08000	0.08398
77 Ethylbenzene	91	15.447	15.463	(1.024)	34594	0.08000	0.07533
79 ~ 2-ethyl thiophene	97	15.549	15.560	(1.030)	25895	0.08000	0.07244
78 m&p-Xylene	91	15.619	15.624	(1.035)	52548	0.16000	0.1479
80 Nonane	57	16.088	16.099	(1.066)	20046	0.08000	0.07391
81 Bromoform	173	16.040	16.050	(1.063)	12354	0.08000	0.06029
82 Styrene	104	16.083	16.094	(1.066)	13657	0.08000	0.05932
83 o-Xylene	91	16.148	16.158	(1.070)	28226	0.08000	0.07612
84 1,1,2,2-Tetrachloroethane	83	16.476	16.482	(1.092)	17391	0.08000	0.07352
85 1,2,3-Trichloropropane	110	16.627	16.638	(1.102)	5970	0.08000	0.07583
86 Cumene	105	16.751	16.757	(1.110)	39983	0.08000	0.07383
87 n-Propylbenzene	120	17.307	17.312	(1.147)	8705	0.08000	0.06658
88 2-chlorotoluene	126	17.334	17.345	(1.149)	9322	0.08000	0.07202
89 4-Ethyltoluene	105	17.463	17.474	(1.157)	32763	0.08000	0.06849
90 1,3,5-Trimethylbenzene	120	17.550	17.555	(1.163)	14631	0.08000	0.06861
91 Alpha-Methylstyrene	118	17.787	17.798	(1.179)	8965	0.08000	0.04801
92 Decane	57	17.895	17.900	(1.186)	16601	0.08000	0.05954
93 tert-butylbenzene	119	17.992	18.003	(1.192)	32133	0.08000	0.07088
94 1,2,4-Trimethylbenzene	105	18.008	18.013	(1.193)	26455	0.08000	0.06424
95 sec-butylbenzene	105	18.277	18.283	(1.211)	38678	0.08000	0.06792
96 1,3-Dichlorobenzene	146	18.277	18.283	(1.211)	17515	0.08000	0.06418
97 Benzyl Chloride	91	18.358	18.364	(1.217)	17411	0.08000	0.05580
98 1,4-Dichlorobenzene	146	18.369	18.375	(1.217)	16887	0.08000	0.06825
99 p-Cymene	119	18.455	18.461	(1.223)	31633	0.08000	0.06561
100 ~ 1,2,3- Trimethylbenzene	105	18.499	18.504	(1.226)	23046	0.08000	0.07168
101 ~ n-butylcyclohexane	83	18.569	18.579	(1.230)	25279	0.08000	0.07542
102 1,2-Dichlorobenzene	146	18.741	18.747	(1.242)	17761	0.08000	0.06897
103 ~ Indane	117	18.741	18.752	(1.242)	24716	0.08000	0.06918
105 ~ Indene	116	18.881	18.881	(1.251)	17212	0.08000	0.05497
104 n-butylbenzene	91	18.908	18.908	(1.253)	27425	0.08000	0.06385
106 Undecane	57	19.270	19.270	(1.277)	15126	0.08000	0.06203
107 ~ 1,2-dimethyl-4-ethylenzene	119	19.297	19.297	(1.279)	25984	0.08000	0.06293
108 ~ 1,2,4,5-tetramethylbenzene	119	19.690	19.696	(1.305)	24705	0.08000	0.06172
109 ~ 1,2,3,5-tetramethylbenzene	119	19.744	19.750	(1.308)	16403	0.08000	0.06562
110 ~ 1,2,3,4-tetramethylbenzene	119	20.143	20.143	(1.335)	19338	0.08000	0.06434

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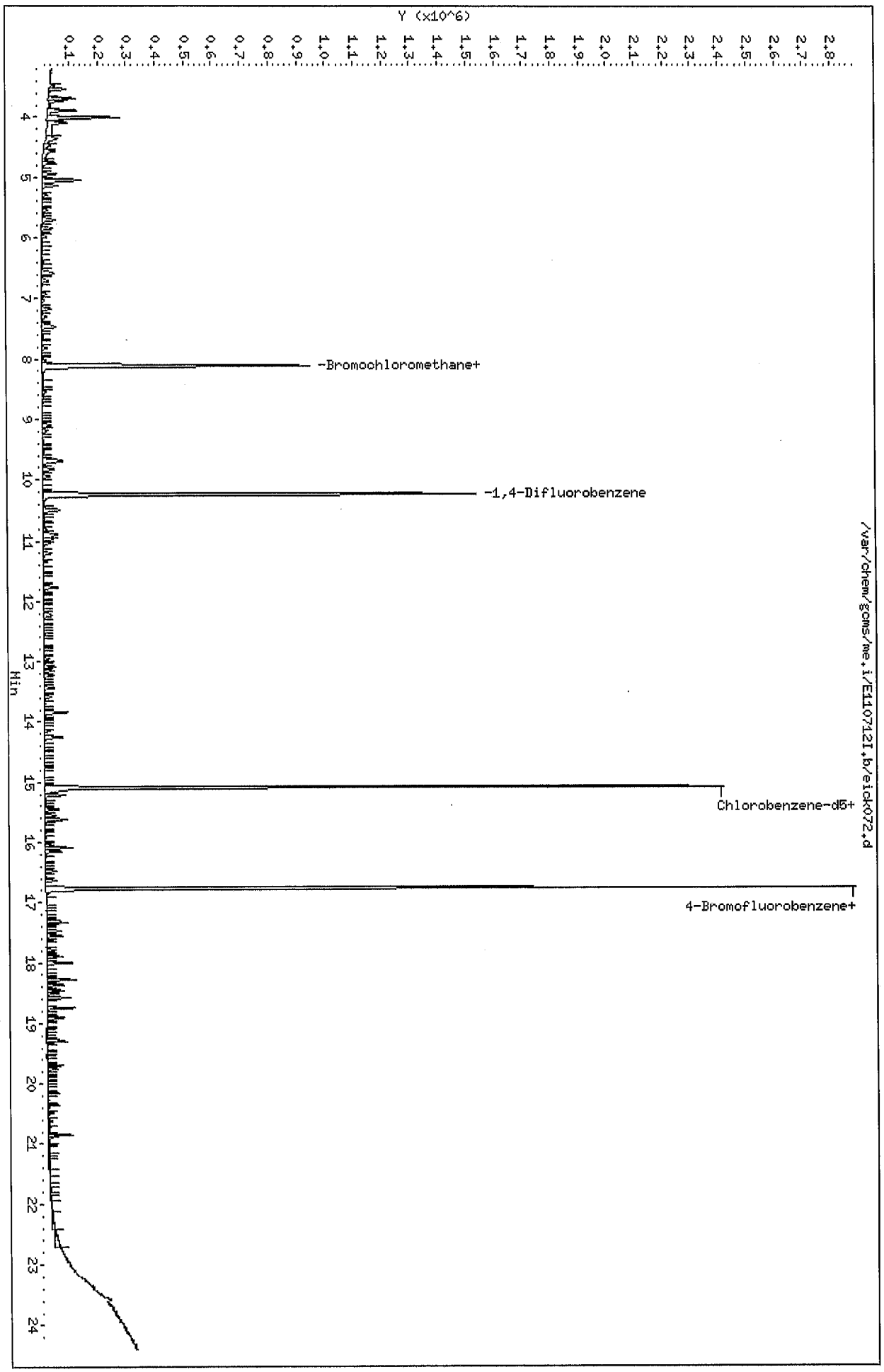
Report Date: 12-Nov-2012 08:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
111 Dodecane	57	20.343	20.343	(1.348)	10024	0.08000	0.07465
112 1,2,4-Trichlorobenzene	180	20.483	20.483	(1.357)	5614	0.08000	0.06613
113 Napthalene	128	20.612	20.612	(1.366)	9693	0.08000	0.05892
114 ~ benzo(b) thiophene	134	20.715	20.715	(1.373)	4360	0.08000	0.04062
115 Hexachlorobutadiene	225	20.850	20.850	(1.382)	15808	0.08000	0.07405
116 1,2,3-trichlorobenzene	180	20.898	20.898	(1.385)	3496	0.08000	0.06694
117 ~ 2-Methylnaphthalene	142	21.750	21.745	(1.441)	1141	0.50000	0.2391
118 ~ 1-Methylnaphthalene	142	21.944	21.939	(1.454)	1029	0.50000	0.2282


Data File: /var/chem/gcms/me.i/E110712I.b/eick072.d
Date : 07-NOV-2012 15:34
Client ID: ICAL0.08
Sample Info: ICAL,.1,2,,ICAL0.08
Purge Volume: 200.0
Column phase: Rtx-5
Instrument: me.i
Operator: 7126
Column diameter: 0.32
Y (x10^6)
/var/chem/gcms/me.i/E110712I.b/eick072.d
-Bromochloromethane+
-1,4-Difluorobenzene
Chlorobenzene-d5+
4-Bromofluorobenzene+
Min

Data File: /var/chem/gcms/me.i/E110712I.b/eick073.d
Report Date: 09-Nov-2012 11:52

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E110712I.b/eick073.d
Lab Smp Id: ICAL Client Smp ID: ICAL0.16
Inj Date : 07-NOV-2012 16:23
Operator : 7126 Inst ID: me.i
Smp Info : ICAL,,1,3,,ICAL0.16
Misc Info : E110712I,TO155,allmdl.sub,,,
Comment :
Method : /var/chem/gcms/me.i/E110712I.b/TO155.m
Meth Date : 09-Nov-2012 11:51 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 16:23 Cal File: eick073.d
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allmdl.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
*	1 Bromochloromethane	128	8.118	8.145	(1.000)	323773	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.248	10.270	(1.000)	1688085	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.091	15.101	(1.000)	1480316	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.762	16.773	(1.111)	1049802	4.00000	3.814
M	5 Xylene (total)	100				215263	0.48000	0.5394
	6 Chlorodifluoromethane	67	3.686	3.686	(0.454)	8942	0.16000	0.1820
	7 Propene	41	3.691	3.697	(0.455)	35454	0.16000	0.2261
	10 Dichlorodifluoromethane	85	3.734	3.740	(0.460)	100975	0.16000	0.1972
	9 Chloromethane	52	3.885	3.885	(0.479)	12995	0.16000	0.2240
	11 1,2-Dichlorotetrafluoroethane	135	3.896	3.891	(0.480)	69015	0.16000	0.1985
	8 ~ acetaldehyde	44	4.009	4.009	(0.494)	102990	0.80000	1.690
	12 Methanol	31	4.009	4.020	(0.494)	16996	0.16000	0.3514
	13 Vinyl Chloride	62	4.026	4.025	(0.496)	39406	0.16000	0.2055
	14 n-Butane	43	4.101	4.101	(0.505)	61689	0.16000	0.2187
	15 1,3-Butadiene	54	4.101	4.101	(0.505)	27300	0.16000	0.2004
	16 Bromomethane	94	4.360	4.360	(0.537)	30580	0.16000	0.1912

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Report Date: 09-Nov-2012 11:52

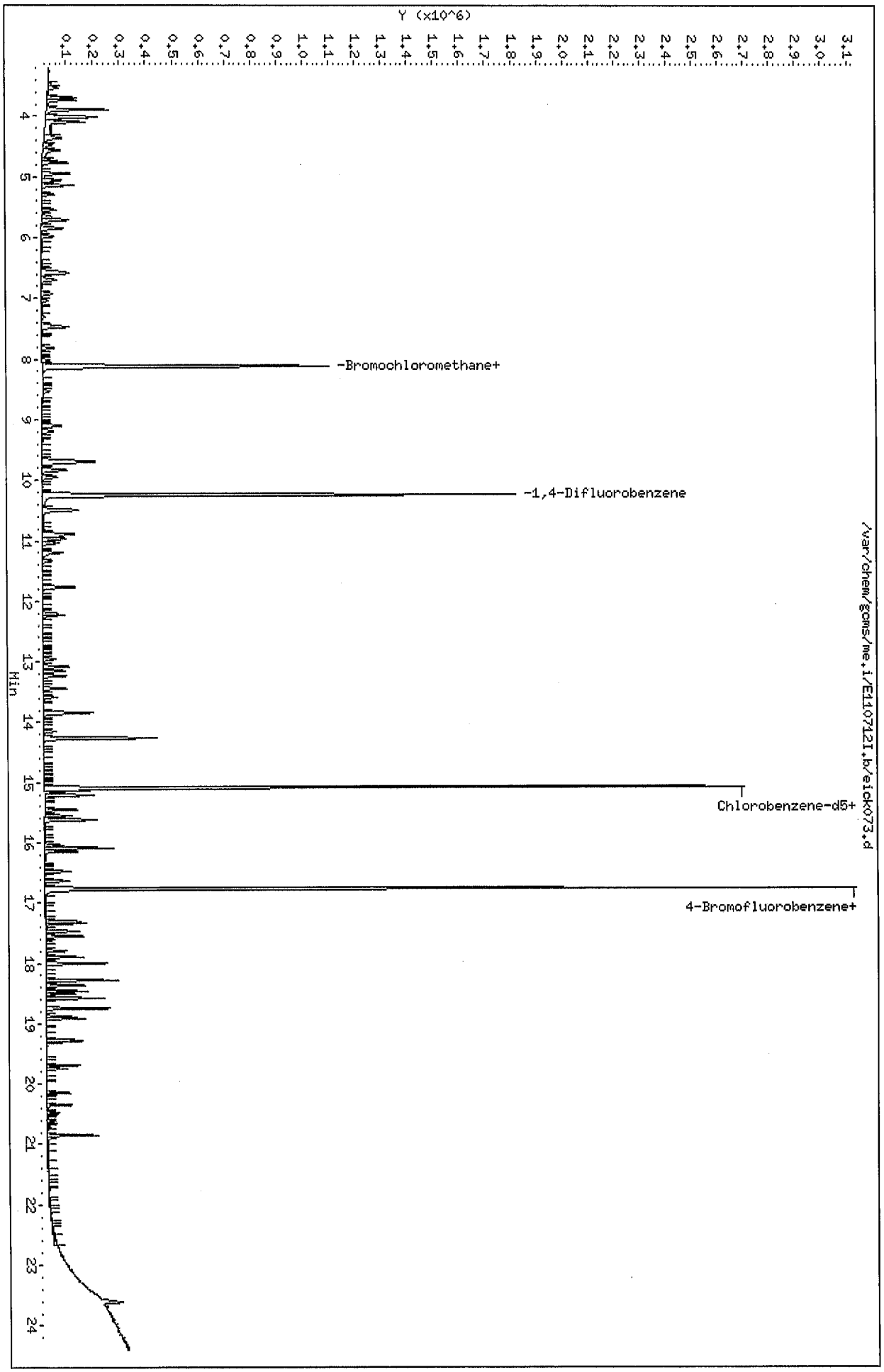
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
18	Chloroethane	64	4.473	4.478	(0.551)	17116	0.16000	0.2097
17	~ ethanol	31	4.565	4.602	(0.562)	50211	0.80000	1.225
19	Vinyl Bromide	106	4.721	4.732	(0.582)	22221	0.16000	0.1868
20	2-methyl butane	43	4.770	4.775	(0.588)	41712	0.16000	0.1930
21	Trichlorofluoromethane	101	4.953	4.958	(0.610)	88466	0.16000	0.1982
22	Acrolein	56	4.958	4.964	(0.611)	7391	0.16000	0.1746
23	Acetonitrile	40	5.007	5.023	(0.617)	8777	0.16000	0.1746
24	Acetone	58	5.066	5.066	(0.624)	34369	0.16000	0.4849
25	Pentane	72	5.147	5.147	(0.634)	5021	0.16000	0.1801
26	Isopropyl alcohol	45	5.147	5.179	(0.634)	44956	0.16000	0.3122
27	Ethyl Ether	31	5.293	5.287	(0.652)	30927	0.16000	0.1907
28	1,1-Dichloroethene	96	5.546	5.557	(0.683)	20469	0.16000	0.1907
29	Acrylonitrile	53	5.632	5.649	(0.694)	13976	0.16000	0.1730
30	1,1,2-Trichlorotrifluoroethane	101	5.713	5.719	(0.704)	47912	0.16000	0.1987
31	tert-butanol	59	5.659	5.686	(0.697)	45330	0.16000	0.2088
32	Methylene Chloride	84	5.837	5.853	(0.719)	22616	0.16000	0.2266
33	3-Chloropropene	39	5.859	5.870	(0.722)	25717	0.16000	0.2100
34	Carbon Disulfide	76	5.983	5.988	(0.737)	68960	0.16000	0.1969
35	trans-1,2-Dichloroethene	96	6.555	6.571	(0.807)	23109	0.16000	0.1889
36	~ 2-Methyl Pentane	43	6.587	6.598	(0.811)	77088	0.16000	0.2209
37	Methyl-t-Butyl Ether	73	6.689	6.695	(0.824)	57050	0.16000	0.1717
38	1,1-Dichloroethane	63	6.927	6.943	(0.853)	49065	0.16000	0.1960
39	Vinyl Acetate	43	7.035	7.056	(0.866)	47236	0.16000	0.1581
40	Hexane	56	7.471	7.487	(0.920)	25758	0.16000	0.2016
41	2-Butanone	72	7.439	7.455	(0.916)	10213	0.16000	0.1870
42	cis 1,2-Dichloroethene	96	7.816	7.843	(0.963)	21854	0.16000	0.1893
43	Ethyl acetate	43	8.016	8.032	(0.987)	45167	0.16000	0.1715
44	Chloroform	83	8.135	8.167	(1.002)	58989	0.16000	0.1984
45	Tetrahydrofuran	42	8.534	8.528	(1.051)	25330	0.16000	0.1760
46	1,1,1-Trichloroethane	97	9.100	9.121	(1.121)	66068	0.16000	0.1979
47	1,2-Dichloroethane	62	9.191	9.218	(0.897)	42490	0.16000	0.1986
48	Cyclohexane	69	9.688	9.698	(0.945)	13836	0.16000	0.1965
49	Benzene	78	9.677	9.698	(0.944)	68197	0.16000	0.1853
50	Carbon Tetrachloride	117	9.709	9.725	(0.947)	67640	0.16000	0.2237
51	1-Butanol	31	9.693	9.698	(0.946)	7534	0.16000	0.2048
52	~ 2,3-dimethylpentane	71	9.833	9.844	(0.959)	16704	0.16000	0.1952
53	~ Thiophene	84	9.946	9.968	(0.971)	40724	0.16000	0.1935
54	2,2,4-trimethylpentane	57	10.496	10.507	(1.024)	142333	0.16480	0.1984
55	Heptane	71	10.885	10.906	(1.062)	27470	0.16000	0.1855
56	1,2-Dichloropropane	63	10.922	10.944	(1.066)	26845	0.16000	0.1895
57	Trichloroethene	130	10.971	10.992	(1.070)	32054	0.16000	0.1868
58	Dibromomethane	93	11.036	11.057	(1.077)	27733	0.16000	0.1862
59	Bromodichloromethane	83	11.197	11.219	(1.093)	56771	0.16000	0.1824
60	1,4-dioxane	88	11.235	11.235	(1.096)	6664	0.16000	0.1627
61	Methyl Methacrylate	41	11.338	11.343	(1.106)	25284	0.16000	0.1526
62	~ methyl cyclohexane	83	11.764	11.780	(1.148)	48731	0.16000	0.2003
63	cis-1,3-Dichloropropene	75	12.233	12.254	(1.194)	32917	0.16000	0.1739

Data File: /var/chem/gcms/me.i/E110712I.b/eick073.d
Report Date: 09-Nov-2012 11:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
64	4-Methyl-2-pentanone	43	12.200	12.211	(1.190)	45644	0.16000	0.1659
65	trans-1,3-Dichloropropene	75	12.955	12.977	(0.858)	27718	0.16000	0.1617
66	Toluene	91	13.079	13.095	(0.867)	77426	0.16000	0.1848
67	1,1,2-Trichloroethane	83	13.149	13.171	(0.871)	22603	0.16000	0.1930
68	~ 2-methyl thiophene	97	13.230	13.246	(0.877)	64271	0.16000	0.1962
70	~ 3-methyl thiophene	97	13.441	13.451	(0.891)	64797	0.16000	0.1938
69	2-Hexanone	58	13.581	13.586	(0.900)	17455	0.16000	0.1494
71	Octane	85	13.834	13.845	(0.917)	27739	0.16000	0.1872
72	Dibromochloromethane	129	13.861	13.877	(0.919)	44351	0.16000	0.1742
73	1,2-Dibromoethane	107	14.152	14.169	(0.938)	31888	0.16000	0.1722
74	Tetrachloroethene	129	14.249	14.260	(0.944)	33194	0.16000	0.1956
75	Chlorobenzene	112	15.139	15.150	(1.003)	58987	0.16000	0.1850
76	~ 2,3-dimethylheptane	43	15.215	15.220	(1.008)	97124	0.16000	0.2078
77	Ethylbenzene	91	15.452	15.463	(1.024)	91619	0.16000	0.1798
79	~ 2-ethyl thiophene	97	15.549	15.560	(1.030)	70053	0.16000	0.1823
78	m&p-Xylene	91	15.619	15.624	(1.035)	140951	0.32000	0.3585
80	Nonane	57	16.088	16.099	(1.066)	54503	0.16000	0.1814
81	Bromoform	173	16.040	16.050	(1.063)	34639	0.16000	0.1527
82	Styrene	104	16.083	16.094	(1.066)	37707	0.16000	0.1480
83	o-Xylene	91	16.148	16.158	(1.070)	74312	0.16000	0.1810
84	1,1,2,2-Tetrachloroethane	83	16.471	16.482	(1.091)	45604	0.16000	0.1741
85	1,2,3-Trichloropropane	110	16.633	16.638	(1.102)	15064	0.16000	0.1729
86	Cumene	105	16.752	16.757	(1.110)	103536	0.16000	0.1727
87	n-Propylbenzene	120	17.302	17.312	(1.147)	23150	0.16000	0.1599
88	2-chlorotoluene	126	17.334	17.345	(1.149)	25584	0.16000	0.1785
89	4-Ethyltoluene	105	17.469	17.474	(1.158)	86238	0.16000	0.1628
90	1,3,5-Trimethylbenzene	120	17.550	17.555	(1.163)	39447	0.16000	0.1670
91	Alpha-Methylstyrene	118	17.792	17.798	(1.179)	24606	0.16000	0.1189
92	Decane	57	17.895	17.900	(1.186)	43952	0.16000	0.1423
93	tert-butylbenzene	119	17.997	18.003	(1.193)	83255	0.16000	0.1660
94	1,2,4-Trimethylbenzene	105	18.008	18.013	(1.193)	70062	0.16000	0.1536
95	sec-butylbenzene	105	18.278	18.283	(1.211)	103006	0.16000	0.1634
96	1,3-Dichlorobenzene	146	18.278	18.283	(1.211)	44979	0.16000	0.1488
97	Benzyl Chloride	91	18.358	18.364	(1.217)	43314	0.16000	0.1254
98	1,4-Dichlorobenzene	146	18.369	18.375	(1.217)	40614	0.16000	0.1482
99	p-Cymene	119	18.456	18.461	(1.223)	81260	0.16000	0.1546
100	~ 1,2,3- Trimethylbenzene	105	18.499	18.504	(1.226)	61072	0.16000	0.1783
101	~ n-butylcyclohexane	83	18.569	18.579	(1.230)	69649	0.16000	0.1933
102	1,2-Dichlorobenzene	146	18.741	18.747	(1.242)	44355	0.16000	0.1555
103	~ Indane	117	18.747	18.752	(1.242)	65259	0.16000	0.1700
105	~ Indene	116	18.876	18.881	(1.251)	47035	0.16000	0.1425
104	n-butylbenzene	91	18.909	18.908	(1.253)	71445	0.16000	0.1530
106	Undecane	57	19.264	19.270	(1.277)	36815	0.16000	0.1402
107	~ 1,2-dimethyl-4-ethylenzene	119	19.291	19.297	(1.278)	61529	0.16000	0.1428
108	~ 1,2,4,5-tetramethylbenzene	119	19.690	19.696	(1.305)	56585	0.16000	0.1367
109	~ 1,2,3,5-tetramethylbenzene	119	19.744	19.750	(1.308)	39309	0.16000	0.1539
110	~ 1,2,3,4-tetramethylbenzene	119	20.143	20.143	(1.335)	44241	0.16000	0.1355

Data File: /var/chem/gcms/me.i/E110712I.b/eick073.d
Report Date: 09-Nov-2012 11:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
111 Dodecane	57	20.343	20.343	(1.348)	25169	0.16000	0.1511
112 1,2,4-Trichlorobenzene	180	20.483	20.483	(1.357)	11908	0.16000	0.1298
113 Napthalene	128	20.613	20.612	(1.366)	21923	0.16000	0.1163
114 ~ benzo(b) thiophene	134	20.710	20.715	(1.372)	10202	0.16000	0.09522
115 Hexachlorobutadiene	225	20.850	20.850	(1.382)	34965	0.16000	0.1478
116 1,2,3-trichlorobenzene	180	20.898	20.898	(1.385)	8554	0.16000	0.1237
117 ~ 2-Methylnaphthalene	142	21.750	21.745	(1.441)	2088	1.00000	0.4176
118 ~ 1-Methylnaphthalene	142	21.939	21.939	(1.454)	2248	1.00000	0.4833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Date : 07-NOV-2012 16:23
Client ID: ICAL0.16
Sample Info: ICAL,,1,3,,ICAL0.16
Purge Volume: 200.0
Column phase: Rtx-5
Instrument: me.i
Operator: 7126
Column diameter: 0.32
Y (x10^6)
Min
-Bromochloromethane+
-1,4-Difluorobenzene
Chlorobenzene-d5+
4-Bromofluorobenzene+
/var/chem/gcms/me.i/E110712I.b/eick073.d

Data File: /var/chem/gcms/me.i/E110712I.b/eick074.d
Report Date: 09-Nov-2012 11:52

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E110712I.b/eick074.d
Lab Smp Id: ICAL Client Smp ID: ICAL0.40
Inj Date : 07-NOV-2012 17:23
Operator : 7126 Inst ID: me.i
Smp Info : ICAL,,1,4,,ICAL0.40
Misc Info : E110712I,TO155,allmdl.sub,,,
Comment :
Method : /var/chem/gcms/me.i/E110712I.b/TO155.m
Meth Date : 09-Nov-2012 11:51 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 17:23 Cal File: eick074.d
Als bottle: 3 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allmdl.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
*	1 Bromochloromethane	128	8.108	8.145	(1.000)	331913	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.238	10.270	(1.000)	1836116	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.091	15.101	(1.000)	1560956	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.768	16.773	(1.111)	1162795	4.00000	4.004
M	5 Xylene (total)	100				569072	1.20000	1.352
	6 Chlorodifluoromethane	67	3.670	3.686	(0.453)	19373	0.40000	0.3847
	7 Propene	41	3.681	3.697	(0.454)	66059	0.40000	0.4109
	10 Dichlorodifluoromethane	85	3.724	3.740	(0.459)	195269	0.40000	0.3719
	9 Chloromethane	52	3.869	3.885	(0.477)	24694	0.40000	0.4139
	11 1,2-Dichlorotetrafluoroethane	135	3.880	3.891	(0.479)	139981	0.40000	0.3928
	8 ~ acetaldehyde	44	3.993	4.009	(0.493)	216897	2.00000	3.490
	12 Methanol	31	3.988	4.020	(0.492)	30503	0.40000	0.6152
	13 Vinyl Chloride	62	4.010	4.025	(0.495)	74500	0.40000	0.3786
	14 n-Butane	43	4.085	4.101	(0.504)	111182	0.40000	0.3845
	15 1,3-Butadiene	54	4.085	4.101	(0.504)	50929	0.40000	0.3648
	16 Bromomethane	94	4.344	4.360	(0.536)	59256	0.40000	0.3636

Data File: /var/chem/gcms/me.i/E110712I.b/eick074.d
Report Date: 09-Nov-2012 11:52

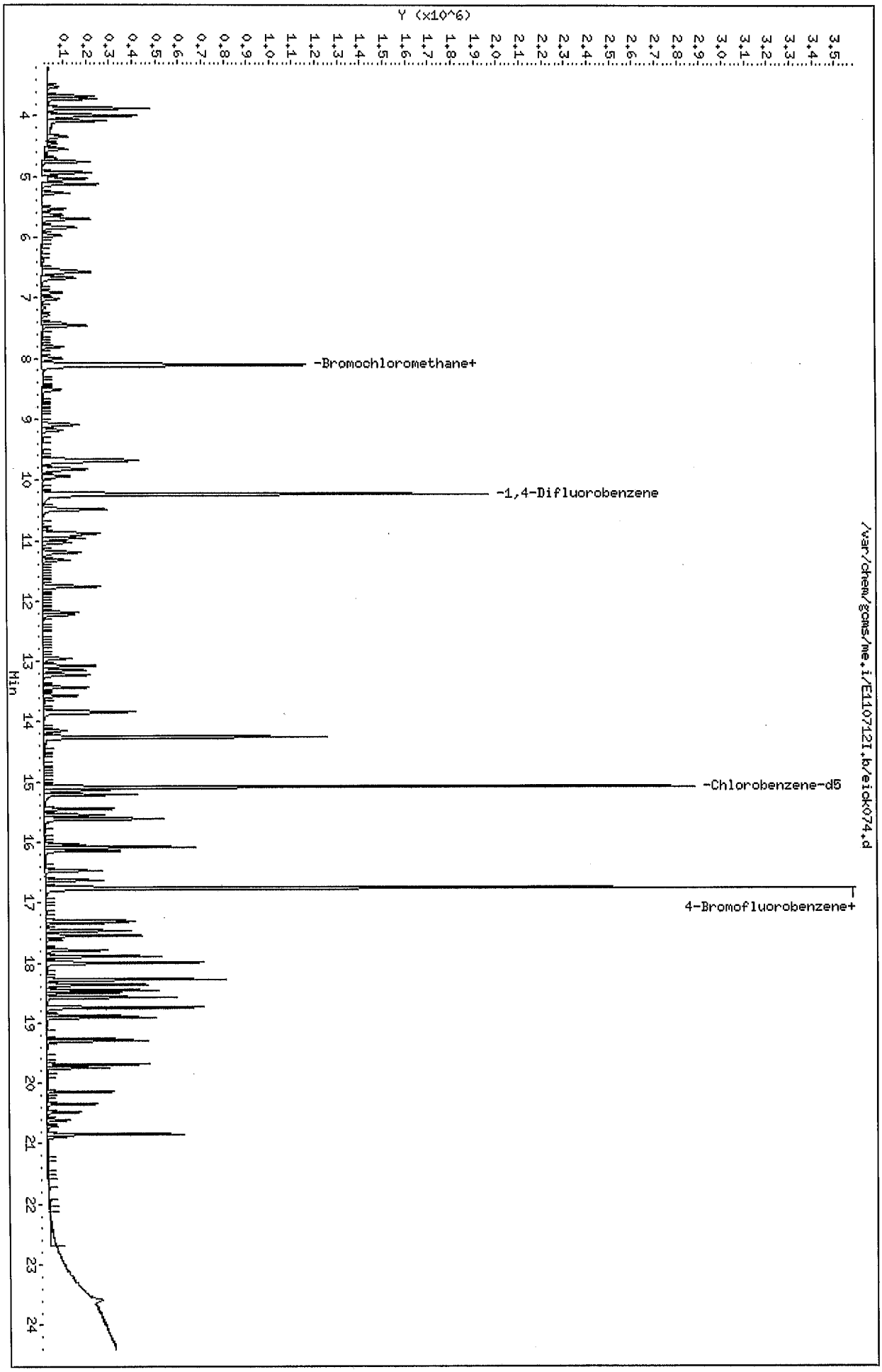
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
18	Chloroethane	64	4.463	4.478	(0.550)	32446	0.40000	0.3877
17	~ ethanol	31	4.549	4.602	(0.561)	89740	2.00000	2.150
19	Vinyl Bromide	106	4.711	4.732	(0.581)	45385	0.40000	0.3721
20	2-methyl butane	43	4.759	4.775	(0.587)	88261	0.40000	0.3984
21	Trichlorofluoromethane	101	4.937	4.958	(0.609)	172779	0.40000	0.3776
22	Acrolein	56	4.932	4.964	(0.608)	18827	0.40000	0.4337
23	Acetonitrile	40	4.991	5.023	(0.616)	25606	0.40000	0.4926
24	Acetone	58	5.040	5.066	(0.622)	91756	0.40000	1.263
25	Pentane	72	5.126	5.147	(0.632)	11138	0.40000	0.3896
26	Isopropyl alcohol	45	5.126	5.179	(0.632)	87181	0.40000	0.5226
27	Ethyl Ether	31	5.271	5.287	(0.650)	72350	0.40000	0.4352
28	1,1-Dichloroethene	96	5.536	5.557	(0.683)	40559	0.40000	0.3685
29	Acrylonitrile	53	5.611	5.649	(0.692)	36067	0.40000	0.4356
30	1,1,2-Trichlorotrifluoroethane	101	5.697	5.719	(0.703)	95685	0.40000	0.3871
31	tert-butanol	59	5.633	5.686	(0.695)	83679	0.40000	0.3751
32	Methylene Chloride	84	5.827	5.853	(0.719)	42949	0.40000	0.4197
33	3-Chloropropene	39	5.843	5.870	(0.721)	52590	0.40000	0.4174
34	Carbon Disulfide	76	5.967	5.988	(0.736)	137321	0.40000	0.3820
35	trans-1,2-Dichloroethene	96	6.544	6.571	(0.807)	47024	0.40000	0.3750
36	~ 2-Methyl Pentane	43	6.576	6.598	(0.811)	156002	0.40000	0.4362
37	Methyl-t-Butyl Ether	73	6.673	6.695	(0.823)	157386	0.40000	0.4621
38	1,1-Dichloroethane	63	6.916	6.943	(0.853)	103061	0.40000	0.4017
39	Vinyl Acetate	43	7.019	7.056	(0.866)	138685	0.40000	0.4525
40	Hexane	56	7.461	7.487	(0.920)	53901	0.40000	0.4116
41	2-Butanone	72	7.418	7.455	(0.915)	29473	0.40000	0.5265
42	cis 1,2-Dichloroethene	96	7.806	7.843	(0.963)	45317	0.40000	0.3828
43	Ethyl acetate	43	8.000	8.032	(0.987)	123625	0.40000	0.4578
44	Chloroform	83	8.129	8.167	(1.003)	120622	0.40000	0.3958
45	Tetrahydrofuran	42	8.512	8.528	(1.050)	66756	0.40000	0.4525
46	1,1,1-Trichloroethane	97	9.095	9.121	(1.122)	137295	0.40000	0.4011
47	1,2-Dichloroethane	62	9.186	9.218	(0.897)	89390	0.40000	0.3829
48	Cyclohexane	69	9.677	9.698	(0.945)	27196	0.40000	0.3552
49	Benzene	78	9.666	9.698	(0.944)	149308	0.40000	0.3725
50	Carbon Tetrachloride	117	9.699	9.725	(0.947)	139599	0.40000	0.4245
51	1-Butanol	31	9.677	9.698	(0.945)	14826	0.40000	0.3705
52	~ 2,3-dimethylpentane	71	9.823	9.844	(0.959)	35914	0.40000	0.3858
53	~ Thiophene	84	9.941	9.968	(0.971)	87955	0.40000	0.3840
54	2,2,4-trimethylpentane	57	10.486	10.507	(1.024)	302165	0.41200	0.3872
55	Heptane	71	10.879	10.906	(1.063)	59325	0.40000	0.3684
56	1,2-Dichloropropane	63	10.917	10.944	(1.066)	58923	0.40000	0.3831
57	Trichloroethene	130	10.966	10.992	(1.071)	62969	0.40000	0.3372
58	Dibromomethane	93	11.030	11.057	(1.077)	58922	0.40000	0.3635
59	Bromodichloromethane	83	11.192	11.219	(1.093)	126557	0.40000	0.3737
60	1,4-dioxane	88	11.225	11.235	(1.096)	14277	0.40000	0.3200
61	Methyl Methacrylate	41	11.327	11.343	(1.106)	77335	0.40000	0.4292
62	~ methyl cyclohexane	83	11.764	11.780	(1.149)	100909	0.40000	0.3813
63	cis-1,3-Dichloropropene	75	12.233	12.254	(1.195)	76273	0.40000	0.3705

Data File: /var/chem/gcms/me.i/E110712I.b/eick074.d
Report Date: 09-Nov-2012 11:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
64	4-Methyl-2-pentanone	43	12.190	12.211	(1.191)	126041	0.40000	0.4213
65	trans-1,3-Dichloropropene	75	12.956	12.977	(0.858)	70619	0.40000	0.3908
66	Toluene	91	13.080	13.095	(0.867)	182817	0.40000	0.4138
67	1,1,2-Trichloroethane	83	13.150	13.171	(0.871)	51427	0.40000	0.4165
68	~ 2-methyl thiophene	97	13.231	13.246	(0.877)	149321	0.42000	0.4324
70	~ 3-methyl thiophene	97	13.435	13.451	(0.890)	146170	0.40000	0.4153
69	2-Hexanone	58	13.570	13.586	(0.899)	51978	0.40000	0.4220
71	Octane	85	13.834	13.845	(0.917)	61281	0.40000	0.3922
72	Dibromochloromethane	129	13.861	13.877	(0.919)	106818	0.40000	0.3978
73	1,2-Dibromoethane	107	14.153	14.169	(0.938)	75727	0.40000	0.3877
74	Tetrachloroethene	129	14.250	14.260	(0.944)	71798	0.40000	0.4013
75	Chlorobenzene	112	15.139	15.150	(1.003)	132039	0.40000	0.3928
76	~ 2,3-dimethylheptane	43	15.210	15.220	(1.008)	224081	0.40000	0.4541
77	Ethylbenzene	91	15.447	15.463	(1.024)	231192	0.40000	0.4311
79	~ 2-ethyl thiophene	97	15.549	15.560	(1.030)	178913	0.40000	0.4416
78	m&p-Xylene	91	15.614	15.624	(1.035)	373151	0.80000	0.8998
80	Nonane	57	16.088	16.099	(1.066)	129790	0.40000	0.4096
81	Bromoform	173	16.040	16.050	(1.063)	88483	0.40000	0.3698
82	Styrene	104	16.083	16.094	(1.066)	109349	0.40000	0.4069
83	o-Xylene	91	16.148	16.158	(1.070)	195920	0.40000	0.4525
84	1,1,2,2-Tetrachloroethane	83	16.471	16.482	(1.091)	123725	0.40000	0.4480
85	1,2,3-Trichloropropane	110	16.628	16.638	(1.102)	41806	0.40000	0.4550
86	Cumene	105	16.752	16.757	(1.110)	290418	0.40000	0.4593
87	n-Propylbenzene	120	17.302	17.312	(1.147)	67481	0.40000	0.4420
88	2-chlorotoluene	126	17.334	17.345	(1.149)	63728	0.40000	0.4216
89	4-Ethyltoluene	105	17.469	17.474	(1.158)	254588	0.40000	0.4557
90	1,3,5-Trimethylbenzene	120	17.550	17.555	(1.163)	111234	0.40000	0.4467
91	Alpha-Methylstyrene	118	17.792	17.798	(1.179)	79736	0.40000	0.3653
92	Decane	57	17.895	17.900	(1.186)	149733	0.40000	0.4597
93	tert-butylbenzene	119	17.992	18.003	(1.192)	245174	0.40000	0.4632
94	1,2,4-Trimethylbenzene	105	18.008	18.013	(1.193)	216570	0.40000	0.4501
95	sec-butylbenzene	105	18.278	18.283	(1.211)	308798	0.40000	0.4645
96	1,3-Dichlorobenzene	146	18.272	18.283	(1.211)	119551	0.40000	0.3749
97	Benzyl Chloride	91	18.353	18.364	(1.216)	140821	0.40000	0.3864
98	1,4-Dichlorobenzene	146	18.364	18.375	(1.217)	109992	0.40000	0.3806
99	p-Cymene	119	18.456	18.461	(1.223)	255660	0.40000	0.4613
100	~ 1,2,3- Trimethylbenzene	105	18.494	18.504	(1.225)	178592	0.40000	0.4940
101	~ n-butylcyclohexane	83	18.569	18.579	(1.230)	174723	0.40000	0.4598
102	1,2-Dichlorobenzene	146	18.742	18.747	(1.242)	120864	0.40000	0.4017
103	~ Indane	117	18.747	18.752	(1.242)	180924	0.40000	0.4471
105	~ Indene	116	18.876	18.881	(1.251)	152573	0.40000	0.4384
104	n-butylbenzene	91	18.909	18.908	(1.253)	231966	0.40000	0.4710
106	Undecane	57	19.265	19.270	(1.277)	101086	0.40000	0.3650
107	~ 1,2-dimethyl-4-ethylenzene	119	19.292	19.297	(1.278)	218166	0.40000	0.4801
108	~ 1,2,4,5-tetramethylbenzene	119	19.691	19.696	(1.305)	201756	0.40000	0.4621
109	~ 1,2,3,5-tetramethylbenzene	119	19.745	19.750	(1.308)	125781	0.40000	0.4671
110	~ 1,2,3,4-tetramethylbenzene	119	20.138	20.143	(1.334)	136274	0.40000	0.3961

Data File: /var/chem/gcms/me.i/E110712I.b/eick074.d
Report Date: 09-Nov-2012 11:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
111 Dodecane	57	20.343	20.343	(1.348)	57442	0.40000	0.3271
112 1,2,4-Trichlorobenzene	180	20.478	20.483	(1.357)	38899	0.40000	0.4022
113 Napthalene	128	20.613	20.612	(1.366)	72964	0.40000	0.3672
114 ~ benzo(b) thiophene	134	20.710	20.715	(1.372)	31263	0.40000	0.2767
115 Hexachlorobutadiene	225	20.845	20.850	(1.381)	107785	0.40000	0.4323
116 1,2,3-trichlorobenzene	180	20.898	20.898	(1.385)	22026	0.40000	0.3020
117 ~ 2-Methylnaphthalene	142	21.745	21.745	(1.441)	5300	2.50000	1.005
118 ~ 1-Methylnaphthalene	142	21.945	21.939	(1.454)	5185	2.50000	1.057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Sample Info: ICAL,,1,4,,ICAL0.40
Purge Volume: 200.0
Column phase: Rtx-5
Instrument: me.i
Operator: 7126
Column diameter: 0.32
Y (x10^6)
/var/chem/gcms/me.i/E110712I.b/eick074.d
-Bromochloromethane+
-1,4-Difluorobenzene
-Chlorobenzene-d5
4-Bromofluorobenzene+
Min

Data File: /var/chem/gcms/me.i/E110712I.b/eick075.d
Report Date: 09-Nov-2012 11:52

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E110712I.b/eick075.d
Lab Smp Id: ICAL Client Smp ID: ICAL1.0
Inj Date : 07-NOV-2012 18:12
Operator : 7126 Inst ID: me.i
Smp Info : ICAL,,1,5,,ICAL1.0
Misc Info : E110712I,TO155,all.sub,,,
Comment :
Method : /var/chem/gcms/me.i/E110712I.b/TO155.m
Meth Date : 09-Nov-2012 11:51 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 18:12 Cal File: eick075.d
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
*	1 Bromochloromethane	128	8.129	8.145	(1.000)	312599	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.254	10.270	(1.000)	1611895	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.096	15.101	(1.000)	1454338	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.768	16.773	(1.111)	1078139	4.00000	3.982
M	5 Xylene (total)	100				1070626	3.00000	2.730
	6 Chlorodifluoromethane	67	3.680	3.686	(0.453)	46821	1.00000	0.9855
	7 Propene	41	3.686	3.697	(0.453)	161687	1.00000	1.063
	10 Dichlorodifluoromethane	85	3.734	3.740	(0.459)	500585	1.00000	1.010
	9 Chloromethane	52	3.880	3.885	(0.477)	57075	1.00000	1.038
	11 1,2-Dichlorotetrafluoroethane	135	3.896	3.891	(0.479)	318849	1.00000	0.9475
	8 ~ acetaldehyde	44	4.009	4.009	(0.493)	308457	5.00000	5.240
	12 Methanol	31	4.020	4.020	(0.495)	65224	1.00000	1.396
	13 Vinyl Chloride	62	4.026	4.025	(0.495)	198053	1.00000	1.068
	14 n-Butane	43	4.096	4.101	(0.504)	317068	1.00000	1.162
	15 1,3-Butadiene	54	4.096	4.101	(0.504)	137599	1.00000	1.043
	16 Bromomethane	94	4.360	4.360	(0.536)	156749	1.00000	0.9979

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
18 Chloroethane	64	4.473	4.478	(0.550)	75833	1.00000	0.9587
17 ~ ethanol	31	4.581	4.602	(0.564)	237040	5.00000	5.978
19 Vinyl Bromide	106	4.727	4.732	(0.581)	115769	1.00000	1.006
20 2-methyl butane	43	4.775	4.775	(0.587)	222284	1.00000	1.063
21 Trichlorofluoromethane	101	4.953	4.958	(0.609)	453522	1.00000	1.050
22 Acrolein	56	4.964	4.964	(0.611)	34857	1.00000	0.8510
23 Acetonitrile	40	5.018	5.023	(0.617)	43723	1.00000	0.8989
24 Acetone	58	5.066	5.066	(0.623)	88712	1.00000	1.294
25 Pentane	72	5.147	5.147	(0.633)	30128	1.00000	1.117
26 Isopropyl alcohol	45	5.158	5.179	(0.634)	225541	1.00000	5.159
27 Ethyl Ether	31	5.293	5.287	(0.651)	150247	1.00000	0.9576
28 1,1-Dichloroethene	96	5.552	5.557	(0.683)	101364	1.00000	0.9756
29 Acrylonitrile	53	5.643	5.649	(0.694)	66187	1.00000	0.8470
30 1,1,2-Trichlorotrifluoroethane	101	5.719	5.719	(0.703)	226075	1.00000	0.9686
31 tert-butanol	59	5.665	5.686	(0.697)	249636	1.00000	1.188
32 Methylene Chloride	84	5.848	5.853	(0.719)	95225	1.00000	0.9859
33 3-Chloropropene	39	5.864	5.870	(0.721)	126613	1.00000	1.066
34 Carbon Disulfide	76	5.983	5.988	(0.736)	361466	1.00000	1.066
35 trans-1,2-Dichloroethene	96	6.565	6.571	(0.808)	115024	1.00000	0.9711
36 ~ 2-Methyl Pentane	43	6.598	6.598	(0.812)	369689	1.00000	1.131
37 Methyl-t-Butyl Ether	73	6.695	6.695	(0.824)	284347	1.00000	0.8851
38 1,1-Dichloroethane	63	6.937	6.943	(0.853)	239162	1.00000	0.9869
39 Vinyl Acetate	43	7.045	7.056	(0.867)	236028	1.00000	0.8170
40 Hexane	56	7.482	7.487	(0.920)	126160	1.00000	1.020
41 2-Butanone	72	7.439	7.455	(0.915)	44469	1.00000	0.8416
42 cis 1,2-Dichloroethene	96	7.833	7.843	(0.964)	108717	1.00000	0.9722
43 Ethyl acetate	43	8.021	8.032	(0.987)	218298	1.00000	0.8578
44 Chloroform	83	8.151	8.167	(1.003)	278929	1.00000	0.9691
45 Tetrahydrofuran	42	8.528	8.528	(1.049)	118436	1.00000	0.8503
46 1,1,1-Trichloroethane	97	9.111	9.121	(1.121)	316036	1.00000	0.9785
47 1,2-Dichloroethane	62	9.202	9.218	(0.897)	193176	1.00000	0.9452
48 Cyclohexane	69	9.693	9.698	(0.945)	66157	1.00000	0.9837
49 Benzene	78	9.688	9.698	(0.945)	325266	1.00000	0.9254
50 Carbon Tetrachloride	117	9.715	9.725	(0.947)	334710	1.00000	1.159
51 1-Butanol	31	9.693	9.698	(0.945)	43093	1.00000	1.227
52 ~ 2,3-dimethylpentane	71	9.839	9.844	(0.960)	84125	1.00000	1.029
53 ~ Thiophene	84	9.957	9.968	(0.971)	206510	1.00000	1.027
54 2,2,4-trimethylpentane	57	10.502	10.507	(1.024)	704823	1.03000	1.023
55 Heptane	71	10.895	10.906	(1.063)	139825	1.00000	0.9885
56 1,2-Dichloropropane	63	10.933	10.944	(1.066)	125630	1.00000	0.9254
57 Trichloroethene	130	10.976	10.992	(1.070)	159885	1.00000	0.9752
58 Dibromomethane	93	11.041	11.057	(1.077)	138072	1.00000	0.9708
59 Bromodichloromethane	83	11.203	11.219	(1.093)	300330	1.00000	1.010
60 1,4-dioxane	88	11.235	11.235	(1.096)	43449	1.00000	1.109
61 Methyl Methacrylate	41	11.332	11.343	(1.105)	131927	1.00000	0.8338
62 ~ methyl cyclohexane	83	11.774	11.780	(1.148)	241206	1.00000	1.038
63 cis-1,3-Dichloropropene	75	12.244	12.254	(1.194)	174609	1.00000	0.9659

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
64	4-Methyl-2-pentanone	43	12.200	12.211	(1.190)	234332	1.00000	0.8918
65	trans-1,3-Dichloropropene	75	12.961	12.977	(0.859)	163476	1.00000	0.9700
66	Toluene	91	13.085	13.095	(0.867)	380664	1.00000	0.9246
67	1,1,2-Trichloroethane	83	13.155	13.171	(0.871)	109930	1.00000	0.9553
68	~ 2-methyl thiophene	97	13.236	13.246	(0.877)	325453	1.00000	1.011
70	~ 3-methyl thiophene	97	13.441	13.451	(0.890)	327525	1.00000	0.9952
69	2-Hexanone	58	13.581	13.586	(0.900)	99424	1.00000	0.8664
71	Octane	85	13.840	13.845	(0.917)	152077	1.00000	1.044
72	Dibromochloromethane	129	13.867	13.877	(0.919)	252400	1.00000	1.008
73	1,2-Dibromoethane	107	14.158	14.169	(0.938)	175440	1.00000	0.9637
74	Tetrachloroethene	129	14.255	14.260	(0.944)	161898	1.00000	0.9697
75	Chlorobenzene	112	15.145	15.150	(1.003)	291900	1.00000	0.9315
76	~ 2,3-dimethylheptane	43	15.215	15.220	(1.008)	491188	1.00000	1.069
77	Ethylbenzene	91	15.452	15.463	(1.024)	452092	1.00000	0.9033
79	~ 2-ethyl thiophene	97	15.549	15.560	(1.030)	363333	1.00000	0.9622
78	m&p-Xylene	91	15.619	15.624	(1.035)	703180	2.00000	1.819
80	Nonane	57	16.088	16.099	(1.066)	303839	1.00000	1.028
81	Bromoform	173	16.045	16.050	(1.063)	207755	1.00000	0.9317
82	Styrene	104	16.088	16.094	(1.066)	224439	1.00000	0.8958
83	o-Xylene	91	16.148	16.158	(1.070)	367446	1.00000	0.9104
84	1,1,2,2-Tetrachloroethane	83	16.477	16.482	(1.091)	235220	1.00000	0.9137
85	1,2,3-Trichloropropane	110	16.633	16.638	(1.102)	75489	1.00000	0.8814
86	Cumene	105	16.752	16.757	(1.110)	527307	1.00000	0.8947
87	n-Propylbenzene	120	17.307	17.312	(1.146)	123458	1.00000	0.8677
88	2-chlorotoluene	126	17.334	17.345	(1.148)	131610	1.00000	0.9341
89	4-Ethyltoluene	105	17.469	17.474	(1.157)	463836	1.00000	0.8959
90	1,3,5-Trimethylbenzene	120	17.550	17.555	(1.163)	208536	1.00000	0.8985
91	Alpha-Methylstyrene	118	17.792	17.798	(1.179)	159617	1.00000	0.7848
92	Decane	57	17.895	17.900	(1.185)	270523	1.00000	0.8912
93	tert-butylbenzene	119	17.997	18.003	(1.192)	438403	1.00000	0.8893
94	1,2,4-Trimethylbenzene	105	18.008	18.013	(1.193)	386727	1.00000	0.8624
95	sec-butylbenzene	105	18.278	18.283	(1.211)	566950	1.00000	0.9118
96	1,3-Dichlorobenzene	146	18.278	18.283	(1.211)	248440	1.00000	0.8360
97	Benzyl Chloride	91	18.358	18.364	(1.216)	284717	1.00000	0.8400
98	1,4-Dichlorobenzene	146	18.369	18.375	(1.217)	227272	1.00000	0.8437
99	p-Cymene	119	18.456	18.461	(1.223)	458469	1.00000	0.8875
100	~ 1,2,3- Trimethylbenzene	105	18.499	18.504	(1.225)	326063	1.00000	0.9685
101	~ n-butylcyclohexane	83	18.574	18.579	(1.230)	358580	1.00000	1.012
102	1,2-Dichlorobenzene	146	18.741	18.747	(1.241)	236845	1.00000	0.8446
103	~ Indane	117	18.747	18.752	(1.242)	336562	1.00000	0.8970
105	~ Indene	116	18.876	18.881	(1.250)	293583	1.00000	0.9040
104	n-butylbenzene	91	18.909	18.908	(1.253)	416522	1.00000	0.9073
106	Undecane	57	19.270	19.270	(1.276)	217861	1.00000	0.8435
107	~ 1,2-dimethyl-4-ethylenzene	119	19.291	19.297	(1.278)	400196	1.00000	0.9449
108	~ 1,2,4,5-tetramethylbenzene	119	19.690	19.696	(1.304)	359428	1.00000	0.8832
109	~ 1,2,3,5-tetramethylbenzene	119	19.744	19.750	(1.308)	230793	1.00000	0.9195
110	~ 1,2,3,4-tetramethylbenzene	119	20.138	20.143	(1.334)	284502	1.00000	0.8865

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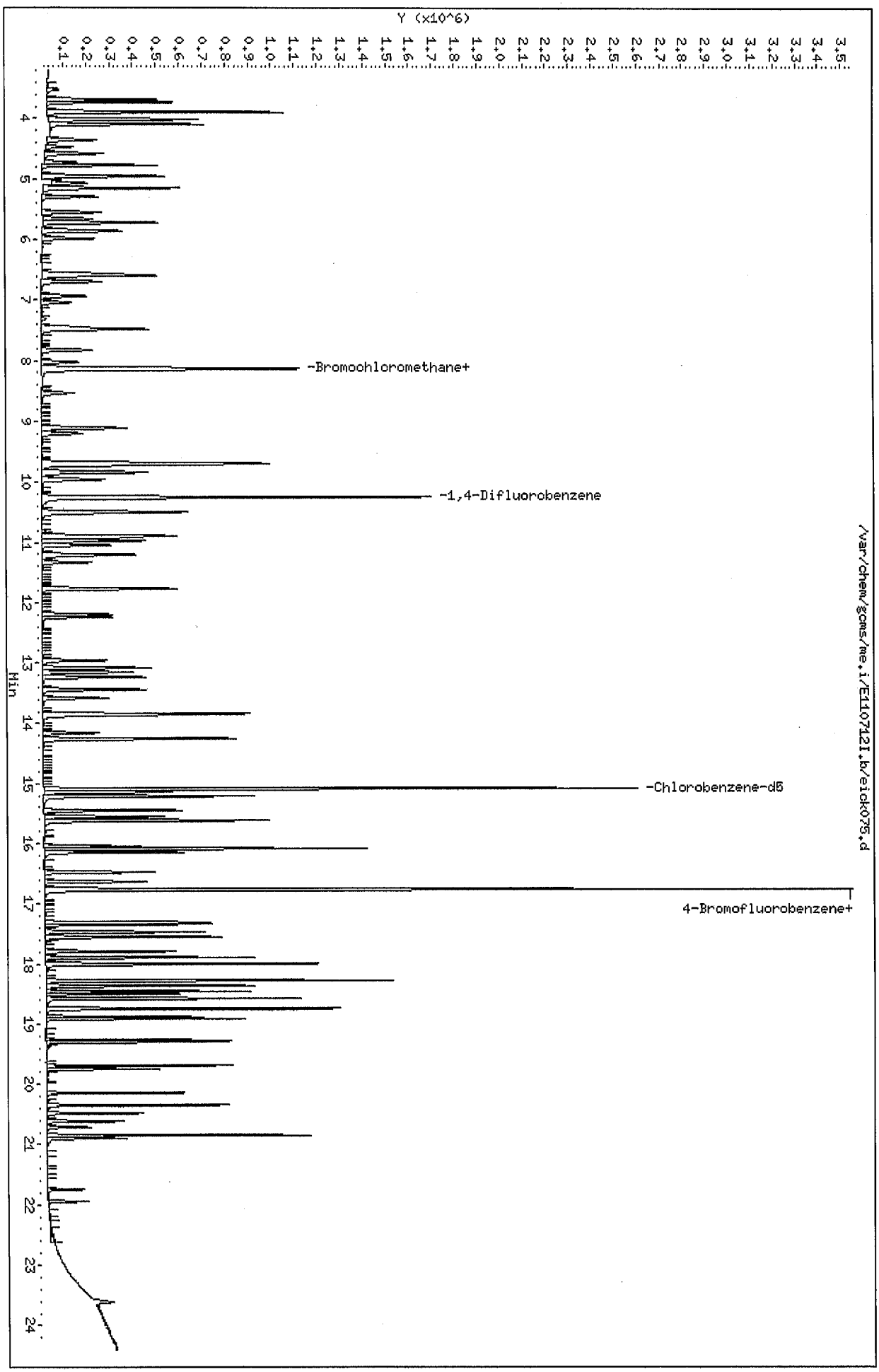
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
111 Dodecane	57	20.343	20.343	(1.348)	204412	1.00000	1.249
112 1,2,4-Trichlorobenzene	180	20.478	20.483	(1.356)	112343	1.00000	1.246
113 Napthalene	128	20.613	20.612	(1.365)	233997	1.00000	1.264
114 ~ benzo(b) thiophene	134	20.710	20.715	(1.372)	125301	1.00000	1.188
115 Hexachlorobutadiene	225	20.844	20.850	(1.381)	209156	1.00000	0.8996
116 1,2,3-trichlorobenzene	180	20.898	20.898	(1.384)	94299	1.00000	1.387
117 ~ 2-Methylnaphthalene	142	21.745	21.745	(1.440)	74091	6.25000	15.08
118 ~ 1-Methylnaphthalene	142	21.939	21.939	(1.453)	75882	6.25000	16.59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Date : 07-NOV-2012 18:12
Client ID: ICAL4.0
Sample Info: ICAL,,1,5,,ICAL4.0
Purge Volume: 200.0
Column phase: Rtx-5
Instrument: me.i
Operator: 7126
Column diameter: 0.32
Y (x10^6)
Min
-Bromochloromethane+
-1,4-Difluorobenzene
-Chlorobenzene-d5
4-Bromofluorobenzene+
/var/chem/gcms/me.i/E110712I.b/eick075.d

Data File: /var/chem/gcms/me.i/E110712I.b/eick076.d
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TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E110712I.b/eick076.d
Lab Smp Id: ICAL Client Smp ID: ICAL2.0
Inj Date : 07-NOV-2012 19:20
Operator : 7126 Inst ID: me.i
Smp Info : ICAL,,1,6,,ICAL2.0
Misc Info : E110712I,TO155,all.sub,,,
Comment :
Method : /var/chem/gcms/me.i/E110712I.b/TO155.m
Meth Date : 09-Nov-2012 11:51 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 19:20 Cal File: eick076.d
Als bottle: 5 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
* 1	Bromochloromethane	128	8.124	8.145	(1.000)	361959	4.00000	4.000
* 2	1,4-Difluorobenzene	114	10.254	10.270	(1.000)	1976682	4.00000	4.000
* 3	Chlorobenzene-d5	117	15.096	15.101	(1.000)	1778210	4.00000	4.000
$ 4	4-Bromofluorobenzene	95	16.768	16.773	(1.111)	1298492	4.00000	3.922
M 5	Xylene (total)	100				2943010	6.00000	6.138
6	Chlorodifluoromethane	67	3.691	3.686	(0.454)	102324	2.00000	1.860
7	Propene	41	3.702	3.697	(0.456)	318612	2.00000	1.810
10	Dichlorodifluoromethane	85	3.745	3.740	(0.461)	989567	2.00000	1.726
9	Chloromethane	52	3.891	3.885	(0.479)	119668	2.00000	1.880
11	1,2-Dichlorotetrafluoroethane	135	3.902	3.891	(0.480)	706135	2.00000	1.814
8	~ acetaldehyde	44	4.015	4.009	(0.494)	762115	10.0000	11.19
12	Methanol	31	4.010	4.020	(0.494)	134692	2.00000	2.491
13	Vinyl Chloride	62	4.031	4.025	(0.496)	399398	2.00000	1.860
14	n-Butane	43	4.107	4.101	(0.505)	643508	2.00000	2.036
15	1,3-Butadiene	54	4.107	4.101	(0.505)	294950	2.00000	1.934
16	Bromomethane	94	4.365	4.360	(0.537)	335534	2.00000	1.874

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Report Date: 09-Nov-2012 11:52

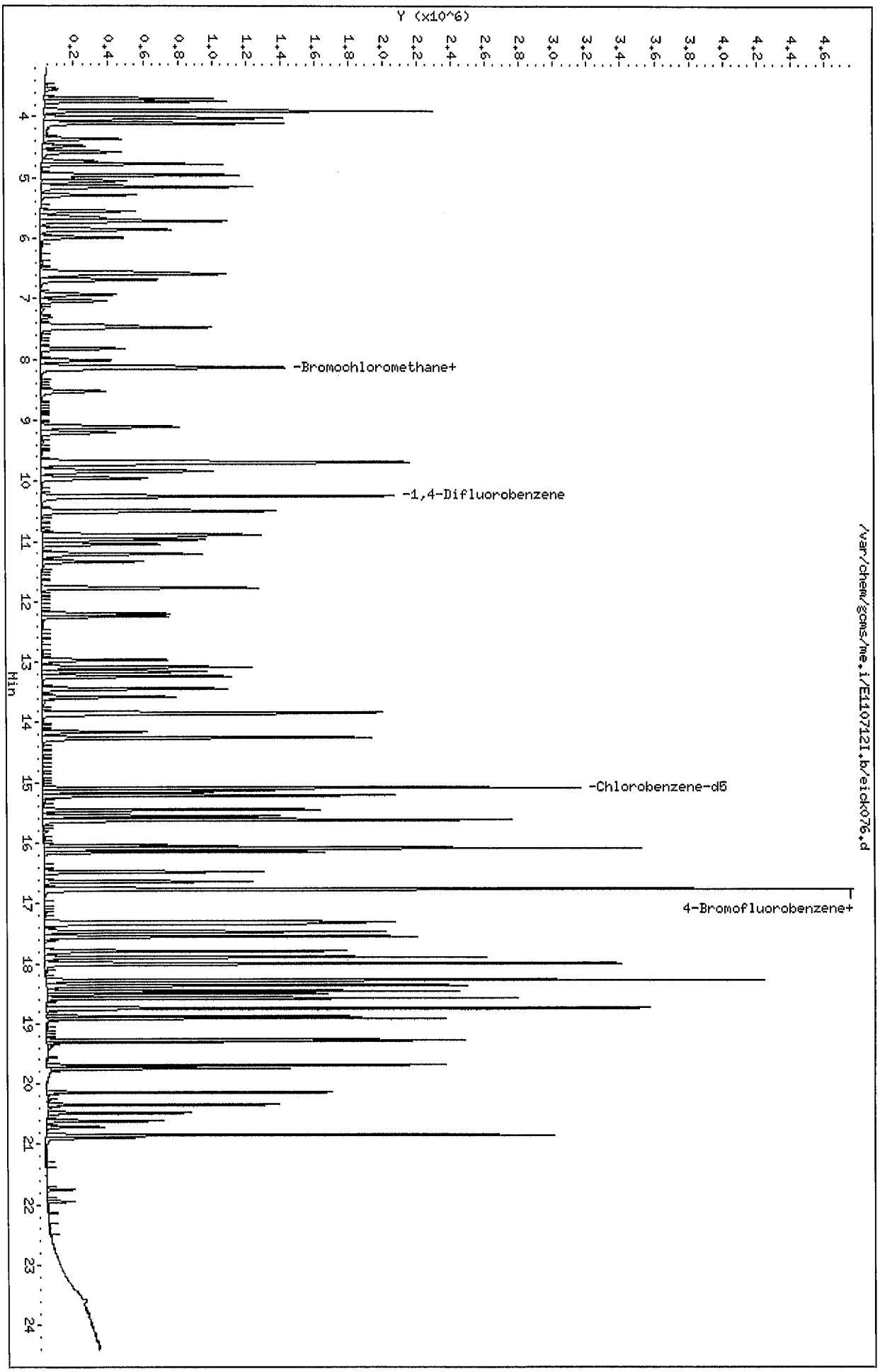
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
18	Chloroethane	64	4.479	4.478	(0.551)	164156	2.00000	1.796
17	~ ethanol	31	4.581	4.602	(0.564)	430863	10.0000	9.386
19	Vinyl Bromide	106	4.732	4.732	(0.582)	259649	2.00000	1.949
20	2-methyl butane	43	4.775	4.775	(0.588)	463602	2.00000	1.916
21	Trichlorofluoromethane	101	4.959	4.958	(0.610)	953104	2.00000	1.906
22	Acrolein	56	4.953	4.964	(0.610)	96049	2.00000	2.025
23	Acetonitrile	40	5.007	5.023	(0.616)	120150	2.00000	2.134
24	Acetone	58	5.056	5.066	(0.622)	233221	2.00000	2.943
25	Pentane	72	5.147	5.147	(0.634)	65557	2.00000	2.099
26	Isopropyl alcohol	45	5.158	5.179	(0.635)	436632	2.00000	3.358
27	Ethyl Ether	31	5.282	5.287	(0.650)	354260	2.00000	1.950
28	1,1-Dichloroethene	96	5.552	5.557	(0.683)	221435	2.00000	1.842
29	Acrylonitrile	53	5.633	5.649	(0.693)	185630	2.00000	2.052
30	1,1,2-Trichlorotrifluoroethane	101	5.714	5.719	(0.703)	486533	2.00000	1.802
31	tert-butanol	59	5.665	5.686	(0.697)	429226	2.00000	1.765
32	Methylene Chloride	84	5.843	5.853	(0.719)	197950	2.00000	1.769
33	3-Chloropropene	39	5.859	5.870	(0.721)	278082	2.00000	2.022
34	Carbon Disulfide	76	5.989	5.988	(0.737)	751210	2.00000	1.915
35	trans-1,2-Dichloroethene	96	6.560	6.571	(0.808)	253243	2.00000	1.849
36	~ 2-Methyl Pentane	43	6.592	6.598	(0.811)	790906	2.00000	2.088
37	Methyl-t-Butyl Ether	73	6.684	6.695	(0.823)	739268	2.00000	1.987
38	1,1-Dichloroethane	63	6.932	6.943	(0.853)	521881	2.00000	1.862
39	Vinyl Acetate	43	7.040	7.056	(0.867)	700224	2.00000	2.092
40	Hexane	56	7.482	7.487	(0.921)	266764	2.00000	1.864
41	2-Butanone	72	7.439	7.455	(0.916)	120087	2.00000	1.963
42	cis 1,2-Dichloroethene	96	7.827	7.843	(0.963)	242349	2.00000	1.874
43	Ethyl acetate	43	8.016	8.032	(0.987)	568472	2.00000	1.930
44	Chloroform	83	8.151	8.167	(1.003)	610360	2.00000	1.833
45	Tetrahydrofuran	42	8.523	8.528	(1.049)	324655	2.00000	2.014
46	1,1,1-Trichloroethane	97	9.105	9.121	(1.121)	690007	2.00000	1.845
47	1,2-Dichloroethane	62	9.202	9.218	(0.897)	449188	2.00000	1.792
48	Cyclohexane	69	9.688	9.698	(0.945)	142431	2.00000	1.727
49	Benzene	78	9.682	9.698	(0.944)	773279	2.00000	1.794
50	Carbon Tetrachloride	117	9.709	9.725	(0.947)	729746	2.00000	2.060
51	1-Butanol	31	9.693	9.698	(0.945)	77408	2.00000	1.797
52	~ 2,3-dimethylpentane	71	9.833	9.844	(0.959)	185091	2.00000	1.846
53	~ Thiophene	84	9.957	9.968	(0.971)	468759	2.00000	1.901
54	2,2,4-trimethylpentane	57	10.502	10.507	(1.024)	1529418	2.06000	1.810
55	Heptane	71	10.896	10.906	(1.063)	307809	2.00000	1.774
56	1,2-Dichloropropane	63	10.928	10.944	(1.066)	297695	2.00000	1.794
57	Trichloroethene	130	10.976	10.992	(1.070)	347026	2.00000	1.726
58	Dibromomethane	93	11.047	11.057	(1.077)	309842	2.00000	1.776
59	Bromodichloromethane	83	11.208	11.219	(1.093)	684000	2.00000	1.876
60	1,4-dioxane	88	11.230	11.235	(1.095)	90780	2.00000	1.892
61	Methyl Methacrylate	41	11.332	11.343	(1.105)	374189	2.00000	1.928
62	~ methyl cyclohexane	83	11.769	11.780	(1.148)	527460	2.00000	1.851
63	cis-1,3-Dichloropropene	75	12.244	12.254	(1.194)	428874	2.00000	1.934

Data File: /var/chem/gcms/me.i/E110712I.b/eick076.d
Report Date: 09-Nov-2012 11:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
64	4-Methyl-2-pentanone	43	12.201	12.211	(1.190)	596550	2.00000	1.851
65	trans-1,3-Dichloropropene	75	12.961	12.977	(0.859)	430122	2.00000	2.087
66	Toluene	91	13.085	13.095	(0.867)	961926	2.00000	1.911
67	1,1,2-Trichloroethane	83	13.160	13.171	(0.872)	269457	2.00000	1.915
68	~ 2-methyl thiophene	97	13.236	13.246	(0.877)	807169	2.00000	2.051
70	~ 3-methyl thiophene	97	13.446	13.451	(0.891)	807937	2.00000	2.010
69	2-Hexanone	58	13.576	13.586	(0.899)	279112	2.00000	1.989
71	Octane	85	13.840	13.845	(0.917)	335586	2.00000	1.885
72	Dibromochloromethane	129	13.867	13.877	(0.919)	621800	2.00000	2.032
73	1,2-Dibromoethane	107	14.158	14.169	(0.938)	447535	2.00000	2.011
74	Tetrachloroethene	129	14.255	14.260	(0.944)	364044	2.00000	1.783
75	Chlorobenzene	112	15.145	15.150	(1.003)	718760	2.00000	1.876
76	~ 2,3-dimethylheptane	43	15.215	15.220	(1.008)	1082710	2.00000	1.928
77	Ethylbenzene	91	15.452	15.463	(1.024)	1230297	2.00000	2.010
79	~ 2-ethyl thiophene	97	15.555	15.560	(1.030)	958311	2.00000	2.076
78	m&p-Xylene	91	15.619	15.624	(1.035)	1946372	4.00000	4.119
80	Nonane	57	16.094	16.099	(1.066)	701731	2.00000	1.941
81	Bromoform	173	16.045	16.050	(1.063)	550947	2.00000	2.021
82	Styrene	104	16.088	16.094	(1.066)	654878	2.00000	2.138
83	o-Xylene	91	16.148	16.158	(1.070)	996638	2.00000	2.020
84	1,1,2,2-Tetrachloroethane	83	16.477	16.482	(1.091)	624732	2.00000	1.985
85	1,2,3-Trichloropropane	110	16.633	16.638	(1.102)	208328	2.00000	1.989
86	Cumene	105	16.752	16.757	(1.110)	1449499	2.00000	2.012
87	n-Propylbenzene	120	17.307	17.312	(1.146)	359261	2.00000	2.065
88	2-chlorotoluene	126	17.340	17.345	(1.149)	334580	2.00000	1.942
89	4-Ethyltoluene	105	17.469	17.474	(1.157)	1330496	2.00000	2.102
90	1,3,5-Trimethylbenzene	120	17.550	17.555	(1.163)	592027	2.00000	2.086
91	Alpha-Methylstyrene	118	17.792	17.798	(1.179)	495953	2.00000	1.994
92	Decane	57	17.895	17.900	(1.185)	790416	2.00000	2.130
93	tert-butylbenzene	119	17.997	18.003	(1.192)	1209964	2.00000	2.007
94	1,2,4-Trimethylbenzene	105	18.008	18.013	(1.193)	1107151	2.00000	2.019
95	sec-butylbenzene	105	18.278	18.283	(1.211)	1600029	2.00000	2.104
96	1,3-Dichlorobenzene	146	18.278	18.283	(1.211)	677181	2.00000	1.864
97	Benzyl Chloride	91	18.359	18.364	(1.216)	830293	2.00000	2.003
98	1,4-Dichlorobenzene	146	18.369	18.375	(1.217)	621984	2.00000	1.888
99	p-Cymene	119	18.456	18.461	(1.223)	1288869	2.00000	2.040
100	~ 1,2,3- Trimethylbenzene	105	18.499	18.504	(1.225)	904472	2.00000	2.197
101	~ n-butylcyclohexane	83	18.574	18.579	(1.230)	890011	2.00000	2.055
102	1,2-Dichlorobenzene	146	18.742	18.747	(1.241)	643392	2.00000	1.876
103	~ Indane	117	18.747	18.752	(1.242)	947652	2.00000	2.066
105	~ Indene	116	18.882	18.881	(1.251)	843206	2.00000	2.126
104	n-butylbenzene	91	18.909	18.908	(1.253)	1130016	2.00000	2.013
106	Undecane	57	19.270	19.270	(1.276)	678308	2.00000	2.148
107	~ 1,2-dimethyl-4-ethylenzene	119	19.292	19.297	(1.278)	1074832	2.00000	2.076
108	~ 1,2,4,5-tetramethylbenzene	119	19.691	19.696	(1.304)	1054211	2.00000	2.119
109	~ 1,2,3,5-tetramethylbenzene	119	19.744	19.750	(1.308)	652225	2.00000	2.125
110	~ 1,2,3,4-tetramethylbenzene	119	20.138	20.143	(1.334)	788319	2.00000	2.009

Data File: /var/chem/gcms/me.i/E110712I.b/eick076.d
Report Date: 09-Nov-2012 11:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
111 Dodecane	57	20.343	20.343	(1.348)	349781	2.00000	1.748
112 1,2,4-Trichlorobenzene	180	20.478	20.483	(1.356)	229439	2.00000	2.081
113 Napthalene	128	20.613	20.612	(1.365)	472433	2.00000	2.087
114 ~ benzo(b) thiophene	134	20.710	20.715	(1.372)	212195	2.00000	1.645
115 Hexachlorobutadiene	225	20.845	20.850	(1.381)	537368	2.00000	1.890
116 1,2,3-trichlorobenzene	180	20.898	20.898	(1.384)	134597	2.00000	1.619
117 ~ 2-Methylnaphthalene	142	21.745	21.745	(1.440)	72577	12.5000	12.08
118 ~ 1-Methylnaphthalene	142	21.939	21.939	(1.453)	71276	12.5000	12.75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Instrument: me.i
Operator: 7126
Column diameter: 0.32
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/var/chem/gcms/me.i/E110712I.b/eick076.d
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-1,4-Difluorobenzene
-Chlorobenzene-d5
4-Bromofluorobenzene+
Min

Data File: /var/chem/gcms/me.i/E110712I.b/eick077.d
Report Date: 09-Nov-2012 11:52

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E110712I.b/eick077.d
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Inj Date : 07-NOV-2012 20:11
Operator : 7126 Inst ID: me.i
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Comment :
Method : /var/chem/gcms/me.i/E110712I.b/TO155.m
Meth Date : 09-Nov-2012 11:51 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 20:11 Cal File: eick077.d
Als bottle: 6 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
*	1 Bromochloromethane	128	8.118	8.145	(1.000)	386328	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.243	10.270	(1.000)	2065755	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.091	15.101	(1.000)	1880093	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.768	16.773	(1.111)	1394592	4.00000	3.990
M	5 Xylene (total)	100				6248692	12.0000	12.34
	6 Chlorodifluoromethane	67	3.675	3.686	(0.453)	200980	4.00000	3.429
	7 Propene	41	3.680	3.697	(0.453)	608409	4.00000	3.251
	10 Dichlorodifluoromethane	85	3.723	3.740	(0.459)	1962211	4.00000	3.211
	9 Chloromethane	52	3.874	3.885	(0.477)	223638	4.00000	3.219
	11 1,2-Dichlorotetrafluoroethane	135	3.880	3.891	(0.478)	1451637	4.00000	3.499
	8 ~ acetaldehyde	44	3.993	4.009	(0.492)	1112158	20.0000	15.37
	12 Methanol	31	3.988	4.020	(0.491)	184178	4.00000	3.191
	13 Vinyl Chloride	62	4.015	4.025	(0.495)	720875	4.00000	3.149
	14 n-Butane	43	4.085	4.101	(0.503)	1042131	4.00000	3.096
	15 1,3-Butadiene	54	4.085	4.101	(0.503)	507296	4.00000	3.122
	16 Bromomethane	94	4.344	4.360	(0.535)	622694	4.00000	3.282

Data File: /var/chem/gcms/me.i/E110712I.b/eick077.d
Report Date: 09-Nov-2012 11:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
18 Chloroethane	64	4.462	4.478	(0.550)	309991	4.00000	3.180
17 ~ ethanol	31	4.554	4.602	(0.561)	776135	20.0000	15.97
19 Vinyl Bromide	106	4.710	4.732	(0.580)	488819	4.00000	3.443
20 2-methyl butane	43	4.759	4.775	(0.586)	869844	4.00000	3.374
21 Trichlorofluoromethane	101	4.937	4.958	(0.608)	1831598	4.00000	3.438
22 Acrolein	56	4.937	4.964	(0.608)	216831	4.00000	4.292
23 Acetonitrile	40	4.991	5.023	(0.615)	238570	4.00000	3.946
24 Acetone	58	5.039	5.066	(0.621)	291614	4.00000	3.447
25 Pentane	72	5.125	5.147	(0.631)	112333	4.00000	3.376
26 Isopropyl alcohol	45	5.125	5.179	(0.631)	746437	4.00000	3.572
27 Ethyl Ether	31	5.266	5.287	(0.649)	711367	4.00000	3.685
28 1,1-Dichloroethene	96	5.535	5.557	(0.682)	435571	4.00000	3.400
29 Acrylonitrile	53	5.622	5.649	(0.692)	385310	4.00000	3.997
30 1,1,2-Trichlorotrifluoroethane	101	5.697	5.719	(0.702)	978157	4.00000	3.400
31 tert-butanol	59	5.632	5.686	(0.694)	791872	4.00000	3.049
32 Methylene Chloride	84	5.832	5.853	(0.718)	400466	4.00000	3.361
33 3-Chloropropene	39	5.848	5.870	(0.720)	372327	4.00000	2.538
34 Carbon Disulfide	76	5.972	5.988	(0.736)	1457879	4.00000	3.482
35 trans-1,2-Dichloroethene	96	6.549	6.571	(0.807)	515545	4.00000	3.532
36 ~ 2-Methyl Pentane	43	6.576	6.598	(0.810)	1557731	4.00000	3.743
37 Methyl-t-Butyl Ether	73	6.668	6.695	(0.821)	1588752	4.00000	4.007
38 1,1-Dichloroethane	63	6.921	6.943	(0.853)	1043607	4.00000	3.494
39 Vinyl Acetate	43	7.024	7.056	(0.865)	1510317	4.00000	4.236
40 Hexane	56	7.460	7.487	(0.919)	541161	4.00000	3.550
41 2-Butanone	72	7.417	7.455	(0.914)	239451	4.00000	3.674
42 cis 1,2-Dichloroethene	96	7.816	7.843	(0.963)	510484	4.00000	3.703
43 Ethyl acetate	43	8.000	8.032	(0.985)	1290264	4.00000	4.102
44 Chloroform	83	8.140	8.167	(1.003)	1244381	4.00000	3.508
45 Tetrahydrofuran	42	8.501	8.528	(1.047)	696206	4.00000	4.053
46 1,1,1-Trichloroethane	97	9.100	9.121	(1.121)	1422106	4.00000	3.569
47 1,2-Dichloroethane	62	9.191	9.218	(0.897)	918641	4.00000	3.498
48 Cyclohexane	69	9.682	9.698	(0.945)	291517	4.00000	3.384
49 Benzene	78	9.677	9.698	(0.945)	1590661	4.00000	3.527
50 Carbon Tetrachloride	117	9.704	9.725	(0.947)	1041458	4.00000	2.815
51 1-Butanol	31	9.655	9.698	(0.943)	136591	4.00000	3.039
52 ~ 2,3-dimethylpentane	71	9.822	9.844	(0.959)	378930	4.00000	3.618
53 ~ Thiophene	84	9.946	9.968	(0.971)	965614	4.00000	3.747
54 2,2,4-trimethylpentane	57	10.486	10.507	(1.024)	3119101	4.12000	3.552
55 Heptane	71	10.885	10.906	(1.063)	635704	4.00000	3.508
56 1,2-Dichloropropane	63	10.922	10.944	(1.066)	614055	4.00000	3.549
57 Trichloroethene	130	10.971	10.992	(1.071)	724549	4.00000	3.448
58 Dibromomethane	93	11.036	11.057	(1.077)	652904	4.00000	3.580
59 Bromodichloromethane	83	11.197	11.219	(1.093)	1396158	4.00000	3.665
60 1,4-dioxane	88	11.213	11.235	(1.095)	170716	4.00000	3.401
61 Methyl Methacrylate	41	11.321	11.343	(1.105)	856309	4.00000	4.224
62 ~ methyl cyclohexane	83	11.764	11.780	(1.148)	1077857	4.00000	3.620
63 cis-1,3-Dichloropropene	75	12.238	12.254	(1.195)	902399	4.00000	3.896

Data File: /var/chem/gcms/me.i/E110712I.b/eick077.d
Report Date: 09-Nov-2012 11:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
64	4-Methyl-2-pentanone	43	12.190	12.211	(1.190)	1270146	4.00000	3.773
65	trans-1,3-Dichloropropene	75	12.955	12.977	(0.858)	892114	4.00000	4.103
66	Toluene	91	13.079	13.095	(0.867)	2020481	4.00000	3.802
67	1,1,2-Trichloroethane	83	13.155	13.171	(0.872)	562658	4.00000	3.786
68	~ 2-methyl thiophene	97	13.230	13.246	(0.877)	1687088	4.00000	4.062
70	~ 3-methyl thiophene	97	13.441	13.451	(0.891)	1724315	4.00000	4.067
69	2-Hexanone	58	13.570	13.586	(0.899)	585077	4.00000	3.948
71	Octane	85	13.834	13.845	(0.917)	694707	4.00000	3.693
72	Dibromochloromethane	129	13.861	13.877	(0.919)	1272849	4.00000	3.939
73	1,2-Dibromoethane	107	14.152	14.169	(0.938)	967057	4.00000	4.113
74	Tetrachloroethene	129	14.249	14.260	(0.944)	749581	4.00000	3.481
75	Chlorobenzene	112	15.139	15.150	(1.003)	1515149	4.00000	3.744
76	~ 2,3-dimethylheptane	43	15.215	15.220	(1.008)	2172679	4.00000	3.658
77	Ethylbenzene	91	15.452	15.463	(1.024)	2610195	4.00000	4.044
79	~ 2-ethyl thiophene	97	15.549	15.560	(1.030)	2027900	4.00000	4.158
78	m&p-Xylene	91	15.619	15.624	(1.035)	4168835	8.00000	8.354
80	Nonane	57	16.088	16.099	(1.066)	1420355	4.00000	3.727
81	Bromoform	173	16.040	16.050	(1.063)	1135886	4.00000	3.945
82	Styrene	104	16.083	16.094	(1.066)	1483638	4.00000	4.585
83	o-Xylene	91	16.148	16.158	(1.070)	2079856	4.00000	3.991
84	1,1,2,2-Tetrachloroethane	83	16.471	16.482	(1.091)	1339346	4.00000	4.029
85	1,2,3-Trichloropropane	110	16.627	16.638	(1.102)	457270	4.00000	4.135
86	Cumene	105	16.751	16.757	(1.110)	3070200	4.00000	4.034
87	n-Propylbenzene	120	17.307	17.312	(1.147)	787454	4.00000	4.286
88	2-chlorotoluene	126	17.334	17.345	(1.149)	707235	4.00000	3.887
89	4-Ethyltoluene	105	17.469	17.474	(1.158)	2928514	4.00000	4.356
90	1,3,5-Trimethylbenzene	120	17.550	17.555	(1.163)	1277299	4.00000	4.262
91	Alpha-Methylstyrene	118	17.792	17.798	(1.179)	1149873	4.00000	4.378
92	Decane	57	17.895	17.900	(1.186)	1667992	4.00000	4.256
93	tert-butylbenzene	119	17.997	18.003	(1.193)	2663150	4.00000	4.181
94	1,2,4-Trimethylbenzene	105	18.008	18.013	(1.193)	2424862	4.00000	4.188
95	sec-butylbenzene	105	18.277	18.283	(1.211)	3548161	4.00000	4.435
96	1,3-Dichlorobenzene	146	18.277	18.283	(1.211)	1565744	4.00000	4.080
97	Benzyl Chloride	91	18.358	18.364	(1.217)	2013649	4.00000	4.592
98	1,4-Dichlorobenzene	146	18.369	18.375	(1.217)	1406156	4.00000	4.043
99	p-Cymene	119	18.455	18.461	(1.223)	2859247	4.00000	4.288
100	~ 1,2,3- Trimethylbenzene	105	18.499	18.504	(1.226)	1914466	4.00000	4.400
101	~ n-butylcyclohexane	83	18.574	18.579	(1.231)	1792811	4.00000	3.920
102	1,2-Dichlorobenzene	146	18.741	18.747	(1.242)	1433245	4.00000	3.959
103	~ Indane	117	18.747	18.752	(1.242)	2094945	4.00000	4.302
105	~ Indene	116	18.876	18.881	(1.251)	1951657	4.00000	4.655
104	n-butylbenzene	91	18.908	18.908	(1.253)	2526347	4.00000	4.263
106	Undecane	57	19.270	19.270	(1.277)	1541986	4.00000	4.626
107	~ 1,2-dimethyl-4-ethylenzene	119	19.291	19.297	(1.278)	2432176	4.00000	4.449
108	~ 1,2,4,5-tetramethylbenzene	119	19.690	19.696	(1.305)	2376808	4.00000	4.525
109	~ 1,2,3,5-tetramethylbenzene	119	19.744	19.750	(1.308)	1422831	4.00000	4.392
110	~ 1,2,3,4-tetramethylbenzene	119	20.138	20.143	(1.334)	1652711	4.00000	3.992

Data File: /var/chem/gcms/me.i/E110712I.b/eick077.d
Report Date: 09-Nov-2012 11:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
111 Dodecane	57	20.343	20.343	(1.348)	488537	4.00000	2.311
112 1,2,4-Trichlorobenzene	180	20.478	20.483	(1.357)	485087	4.00000	4.169
113 Napthalene	128	20.612	20.612	(1.366)	996169	4.00000	4.168
114 ~ benzo(b) thiophene	134	20.709	20.715	(1.372)	422908	4.00000	3.110
115 Hexachlorobutadiene	225	20.844	20.850	(1.381)	1026191	4.00000	3.420
116 1,2,3-trichlorobenzene	180	20.898	20.898	(1.385)	207726	4.00000	2.366
117 ~ 2-Methylnaphthalene	142	21.745	21.745	(1.441)	81460	25.0000	12.83
118 ~ 1-Methylnaphthalene	142	21.939	21.939	(1.454)	74755	25.0000	12.65

Data File: /var/chem/gcms/me.i/E110712I.b/eick077.d
Date : 07-NOV-2012 20:11
Client ID: ICAL4.0
Sample Info: ICAL,,1,7,,ICAL4.0
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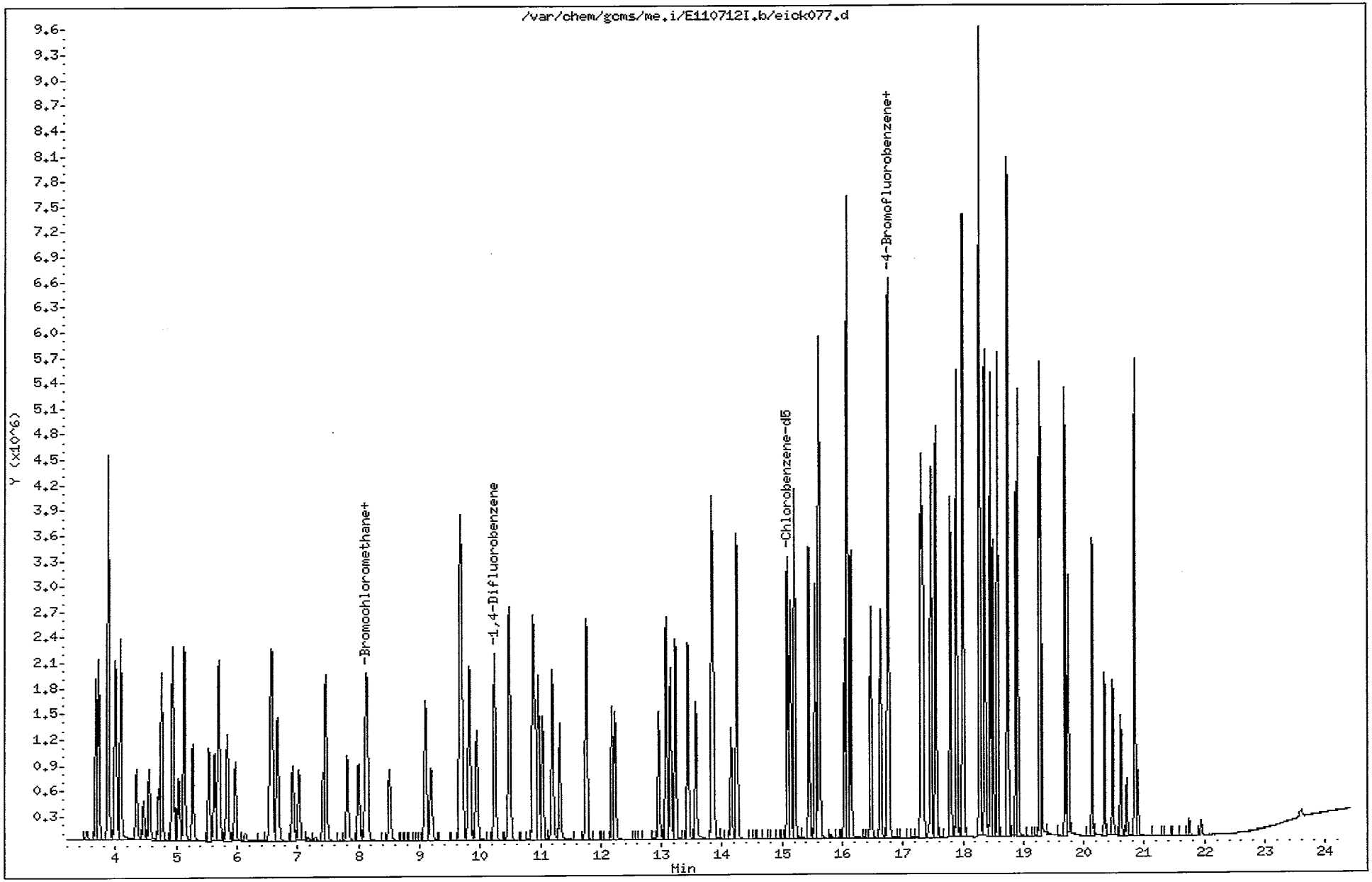
Column phase: Rtx-5

Instrument: me.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/me.i/E110712I.b/eick078.d
Report Date: 09-Nov-2012 11:52

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E110712I.b/eick078.d
Lab Smp Id: ICAL Client Smp ID: ICAL8.0
Inj Date : 07-NOV-2012 21:02
Operator : 7126 Inst ID: me.i
Smp Info : ICAL,,1,8,,ICAL8.0
Misc Info : E110712I,TO155,all.sub,,,
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Als bottle: 7 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
*	1 Bromochloromethane	128	8.118	8.145	(1.000)	310916	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.248	10.270	(1.000)	1566765	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.096	15.101	(1.000)	1488824	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.768	16.773	(1.111)	1154744	4.00000	4.169
M	5 Xylene (total)	100				9766379	24.0000	24.35
	6 Chlorodifluoromethane	67	3.675	3.686	(0.453)	377485	8.00000	8.002
	7 Propene	41	3.686	3.697	(0.454)	1171254	8.00000	7.777
	10 Dichlorodifluoromethane	85	3.729	3.740	(0.459)	3945299	8.00000	8.022
	9 Chloromethane	52	3.880	3.885	(0.478)	396705	8.00000	7.098
	11 1,2-Dichlorotetrafluoroethane	135	3.885	3.891	(0.479)	2576326	8.00000	7.717
	8 ~ acetaldehyde	44	3.998	4.009	(0.493)	1689934	40.0000	29.04
	12 Methanol	31	3.993	4.020	(0.492)	383119	8.00000	8.236
	13 Vinyl Chloride	62	4.020	4.025	(0.495)	1415420	8.00000	7.686
	14 n-Butane	43	4.090	4.101	(0.504)	2059425	8.00000	7.603
	15 1,3-Butadiene	54	4.090	4.101	(0.504)	976390	8.00000	7.469
	16 Bromomethane	94	4.349	4.360	(0.536)	1182303	8.00000	7.743

Data File: /var/chem/gcms/me.i/E110712I.b/eick078.d
Report Date: 09-Nov-2012 11:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
18	Chloroethane	64	4.462	4.478	(0.550)	574308	8.00000	7.320
17	~ ethanol	31	4.565	4.602	(0.562)	1689042	40.0000	43.19
19	Vinyl Bromide	106	4.716	4.732	(0.581)	843401	8.00000	7.381
20	2-methyl butane	43	4.759	4.775	(0.586)	1450518	8.00000	6.990
21	Trichlorofluoromethane	101	4.942	4.958	(0.609)	3185939	8.00000	7.431
22	Acrolein	56	4.942	4.964	(0.609)	300210	8.00000	7.389
23	Acetonitrile	40	4.996	5.023	(0.615)	324797	8.00000	6.676
24	Acetone	58	5.045	5.066	(0.621)	378998	8.00000	5.563
25	Pentane	72	5.131	5.147	(0.632)	210262	8.00000	7.851
26	Isopropyl alcohol	45	5.136	5.179	(0.633)	1587713	8.00000	8.494
27	Ethyl Ether	31	5.271	5.287	(0.649)	1113921	8.00000	7.176
28	1,1-Dichloroethene	96	5.541	5.557	(0.682)	826240	8.00000	8.011
29	Acrylonitrile	53	5.627	5.649	(0.693)	579521	8.00000	7.473
30	1,1,2-Trichlorotrifluoroethane	101	5.702	5.719	(0.702)	1793594	8.00000	7.746
31	tert-butanol	59	5.643	5.686	(0.695)	1715642	8.00000	8.210
32	Methylene Chloride	84	5.837	5.853	(0.719)	731411	8.00000	7.629
33	3-Chloropropene	39	5.853	5.870	(0.721)	869658	8.00000	7.368
34	Carbon Disulfide	76	5.972	5.988	(0.736)	2772452	8.00000	8.228
35	trans-1,2-Dichloroethene	96	6.554	6.571	(0.807)	962443	8.00000	8.190
36	~ 2-Methyl Pentane	43	6.581	6.598	(0.811)	2761342	8.00000	8.248
37	Methyl-t-Butyl Ether	73	6.673	6.695	(0.822)	2480881	8.00000	7.775
38	1,1-Dichloroethane	63	6.921	6.943	(0.853)	1831306	8.00000	7.618
39	Vinyl Acetate	43	7.024	7.056	(0.865)	2147978	8.00000	7.485
40	Hexane	56	7.466	7.487	(0.920)	956559	8.00000	7.796
41	2-Butanone	72	7.423	7.455	(0.914)	381434	8.00000	7.274
42	cis 1,2-Dichloroethene	96	7.822	7.843	(0.963)	922197	8.00000	8.314
43	Ethyl acetate	43	8.005	8.032	(0.986)	2024062	8.00000	7.996
44	Chloroform	83	8.145	8.167	(1.003)	2191256	8.00000	7.678
45	Tetrahydrofuran	42	8.507	8.528	(1.048)	1061364	8.00000	7.676
46	1,1,1-Trichloroethane	97	9.100	9.121	(1.121)	2508080	8.00000	7.822
47	1,2-Dichloroethane	62	9.197	9.218	(0.897)	1589299	8.00000	7.973
48	Cyclohexane	69	9.682	9.698	(0.945)	525995	8.00000	8.050
49	Benzene	78	9.677	9.698	(0.944)	2767553	8.00000	8.090
50	Carbon Tetrachloride	117	9.709	9.725	(0.947)	1726606	8.00000	6.153
51	1-Butanol	31	9.666	9.698	(0.943)	332785	8.00000	9.762
52	~ 2,3-dimethylpentane	71	9.828	9.844	(0.959)	660460	8.00000	8.314
53	~ Thiophene	84	9.952	9.968	(0.971)	1693516	8.00000	8.665
54	2,2,4-trimethylpentane	57	10.491	10.507	(1.024)	5453240	8.24000	8.188
55	Heptane	71	10.885	10.906	(1.062)	1128502	8.00000	8.212
56	1,2-Dichloropropane	63	10.922	10.944	(1.066)	1010124	8.00000	7.698
57	Trichloroethene	130	10.971	10.992	(1.070)	1303166	8.00000	8.178
58	Dibromomethane	93	11.041	11.057	(1.077)	1157160	8.00000	8.364
59	Bromodichloromethane	83	11.203	11.219	(1.093)	2428117	8.00000	8.405
60	1,4-dioxane	88	11.219	11.235	(1.095)	398302	8.00000	10.46
61	Methyl Methacrylate	41	11.327	11.343	(1.105)	1346038	8.00000	8.751
62	~ methyl cyclohexane	83	11.769	11.780	(1.148)	1898267	8.00000	8.406
63	cis-1,3-Dichloropropene	75	12.238	12.254	(1.194)	1550711	8.00000	8.828

Data File: /var/chem/gcms/me.i/E110712I.b/eick078.d
Report Date: 09-Nov-2012 11:52

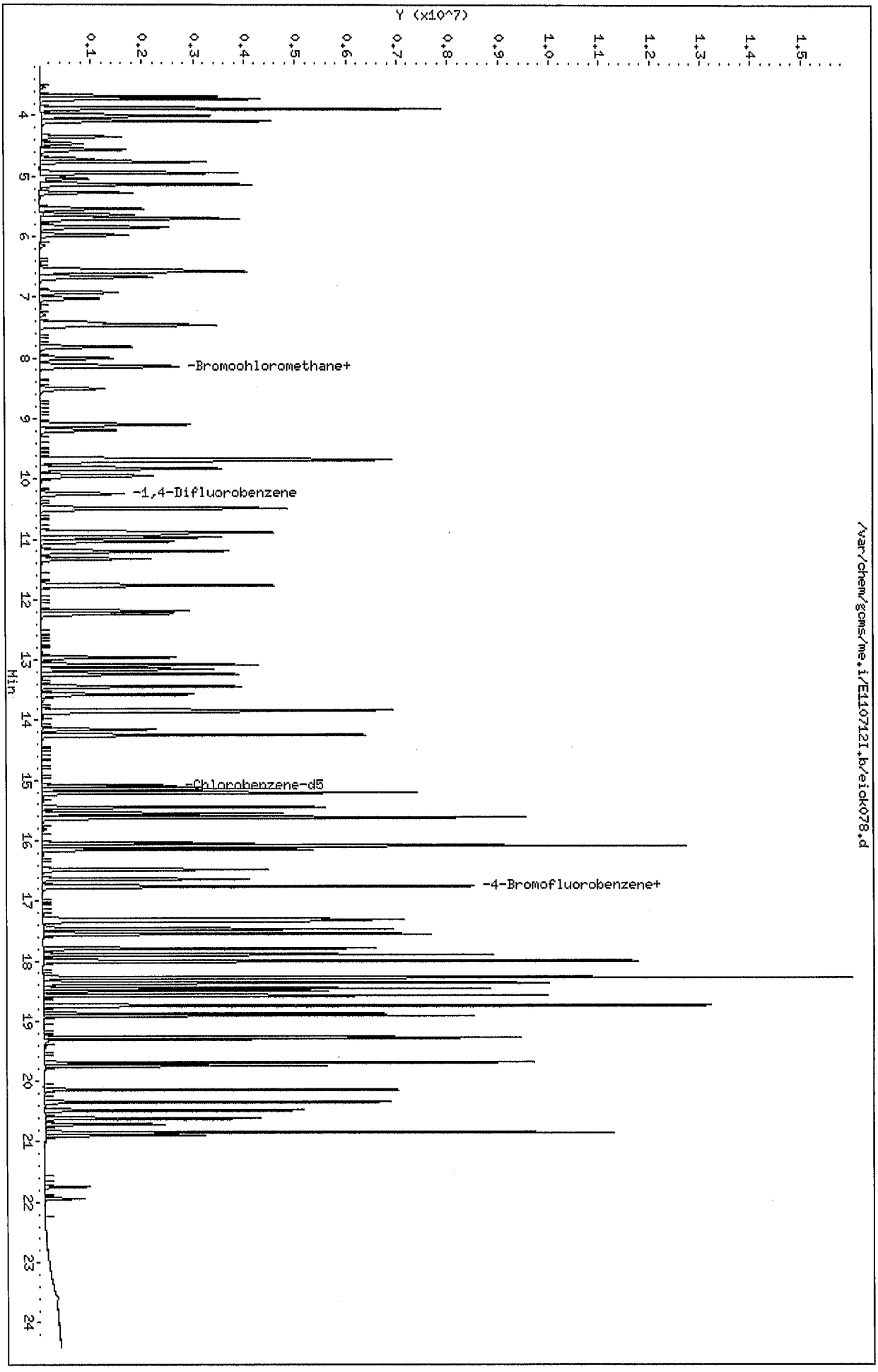
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
64	4-Methyl-2-pentanone	43	12.189	12.211	(1.189)	2313226	8.00000	9.061
65	trans-1,3-Dichloropropene	75	12.961	12.977	(0.859)	1569740	8.00000	9.111
66	Toluene	91	13.085	13.095	(0.867)	3346310	8.00000	7.942
67	1,1,2-Trichloroethane	83	13.155	13.171	(0.871)	947099	8.00000	8.043
68	~ 2-methyl thiophene	97	13.236	13.246	(0.877)	2826667	8.00000	8.586
70	~ 3-methyl thiophene	97	13.441	13.451	(0.890)	2888172	8.00000	8.597
69	2-Hexanone	58	13.570	13.586	(0.899)	1079316	8.00000	9.187
71	Octane	85	13.834	13.845	(0.916)	1252529	8.00000	8.402
72	Dibromochloromethane	129	13.867	13.877	(0.919)	2221015	8.00000	8.677
73	1,2-Dibromoethane	107	14.158	14.169	(0.938)	1645323	8.00000	8.847
74	Tetrachloroethene	129	14.249	14.260	(0.944)	1338786	8.00000	7.846
75	Chlorobenzene	112	15.145	15.150	(1.003)	2594341	8.00000	8.090
76	~ 2,3-dimethylheptane	43	15.215	15.220	(1.008)	3697494	8.00000	7.856
77	Ethylbenzene	91	15.452	15.463	(1.024)	4154796	8.00000	8.123
79	~ 2-ethyl thiophene	97	15.549	15.560	(1.030)	3287604	8.00000	8.505
78	m&p-Xylene	91	15.619	15.624	(1.035)	6566141	16.0000	16.60(A)
80	Nonane	57	16.088	16.099	(1.066)	2422012	8.00000	8.018
81	Bromoform	173	16.040	16.050	(1.062)	2018495	8.00000	8.844
82	Styrene	104	16.088	16.094	(1.066)	2424264	8.00000	9.454
83	o-Xylene	91	16.148	16.158	(1.070)	3200237	8.00000	7.750
84	1,1,2,2-Tetrachloroethane	83	16.476	16.482	(1.091)	2165250	8.00000	8.219
85	1,2,3-Trichloropropane	110	16.633	16.638	(1.102)	699600	8.00000	7.980
86	Cumene	105	16.751	16.757	(1.110)	4767702	8.00000	7.906
87	n-Propylbenzene	120	17.307	17.312	(1.146)	1238575	8.00000	8.507
88	2-chlorotoluene	126	17.334	17.345	(1.148)	1194588	8.00000	8.286
89	4-Ethyltoluene	105	17.469	17.474	(1.157)	4535634	8.00000	8.513
90	1,3,5-Trimethylbenzene	120	17.550	17.555	(1.163)	2000603	8.00000	8.424
91	Alpha-Methylstyrene	118	17.792	17.798	(1.179)	1859997	8.00000	8.934
92	Decane	57	17.895	17.900	(1.185)	2697073	8.00000	8.683
93	tert-butylbenzene	119	17.997	18.003	(1.192)	4190074	8.00000	8.300
94	1,2,4-Trimethylbenzene	105	18.008	18.013	(1.193)	3809259	8.00000	8.302
95	sec-butylbenzene	105	18.277	18.283	(1.211)	5672003	8.00000	8.946(A)
96	1,3-Dichlorobenzene	146	18.277	18.283	(1.211)	2787701	8.00000	9.166
97	Benzyl Chloride	91	18.358	18.364	(1.216)	3362493	8.00000	9.674
98	1,4-Dichlorobenzene	146	18.369	18.375	(1.217)	2469096	8.00000	8.957
99	p-Cymene	119	18.455	18.461	(1.223)	4512717	8.00000	8.538(A)
100	~ 1,2,3- Trimethylbenzene	105	18.499	18.504	(1.225)	2910325	8.00000	8.441
101	~ n-butylcyclohexane	83	18.574	18.579	(1.230)	3030579	8.00000	8.361
102	1,2-Dichlorobenzene	146	18.741	18.747	(1.241)	2472727	8.00000	8.618
103	~ Indane	117	18.747	18.752	(1.242)	3356766	8.00000	8.698
105	~ Indene	116	18.881	18.881	(1.251)	3153699	8.00000	9.494
104	n-butylbenzene	91	18.908	18.908	(1.253)	4036075	8.00000	8.592(A)
106	Undecane	57	19.270	19.270	(1.276)	2521739	8.00000	9.546
107	~ 1,2-dimethyl-4-ethylenzene	119	19.297	19.297	(1.278)	4116026	8.00000	9.499(A)
108	~ 1,2,4,5-tetramethylbenzene	119	19.690	19.696	(1.304)	4336299	8.00000	10.41(A)
109	~ 1,2,3,5-tetramethylbenzene	119	19.744	19.750	(1.308)	2571626	8.00000	10.01
110	~ 1,2,3,4-tetramethylbenzene	119	20.143	20.143	(1.334)	3388337	8.00000	10.32

Data File: /var/chem/gcms/me.i/E110712I.b/eick078.d
Report Date: 09-Nov-2012 11:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
111 Dodecane	57	20.343	20.343	(1.348)	1792237	8.00000	10.69
112 1,2,4-Trichlorobenzene	180	20.478	20.483	(1.356)	1371909	8.00000	14.89
113 Napthalene	128	20.612	20.612	(1.365)	2908172	8.00000	15.36
114 ~ benzo(b) thiophene	134	20.709	20.715	(1.372)	1491562	8.00000	13.83
115 Hexachlorobutadiene	225	20.850	20.850	(1.381)	2079798	8.00000	8.747
116 1,2,3-trichlorobenzene	180	20.898	20.898	(1.384)	863771	8.00000	12.41
117 ~ 2-Methylnaphthalene	142	21.745	21.745	(1.440)	398445	50.0000	79.15
118 ~ 1-Methylnaphthalene	142	21.939	21.939	(1.453)	332574	50.0000	71.01

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.


Data File: /var/chem/gcms/me.i/E110712I.b/eiok078.d
Date : 07-NOV-2012 21:02
Client ID: ICAL8.0
Sample Info: ICAL,,1.8,,ICAL8.0
Purge Volume: 200.0
Column phase: Rtx-5
Instrument: me.i
Operator: 7126
Column diameter: 0.32
/var/chem/gcms/me.i/E110712I.b/eiok078.d
Y (x10^7)
Min
-Bromochloromethane+
-1,4-Difluorobenzene
-Chlorobenzene-d5
-4-Bromofluorobenzene+

Data File: /var/chem/gcms/me.i/E110712I.b/eick079.d
Report Date: 09-Nov-2012 11:52

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E110712I.b/eick079.d
Lab Smp Id: ICAL Client Smp ID: ICAL16
Inj Date : 07-NOV-2012 21:53
Operator : 7126 Inst ID: me.i
Smp Info : ICAL,,1,9,,ICAL16
Misc Info : E110712I,TO155,all.sub,,,
Comment :
Method : /var/chem/gcms/me.i/E110712I.b/TO155.m
Meth Date : 09-Nov-2012 11:51 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 21:53 Cal File: eick079.d
Als bottle: 8 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
*	1 Bromochloromethane	128	8.145	8.145	(1.000)	394219	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.270	10.270	(1.000)	1878850	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.101	15.101	(1.000)	1914402	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.773	16.773	(1.111)	1529288	4.00000	4.296
M	5 Xylene (total)	100				27265508	48.0000	52.86
	6 Chlorodifluoromethane	67	3.686	3.686	(0.452)	849238	16.0000	14.20
	7 Propene	41	3.697	3.697	(0.454)	2439059	16.0000	12.77
	10 Dichlorodifluoromethane	85	3.740	3.740	(0.459)	8338314	16.0000	13.37
	9 Chloromethane	52	3.885	3.885	(0.477)	850132	16.0000	12.00
	11 1,2-Dichlorotetrafluoroethane	135	3.891	3.891	(0.478)	6001422	16.0000	14.18
	8 ~ acetaldehyde	44	4.009	4.009	(0.492)	3850791	80.0000	52.18
	12 Methanol	31	4.020	4.020	(0.494)	504678	16.0000	8.558
	13 Vinyl Chloride	62	4.025	4.025	(0.494)	2764638	16.0000	11.84
	14 n-Butane	43	4.101	4.101	(0.503)	4189127	16.0000	12.20
	15 1,3-Butadiene	54	4.101	4.101	(0.503)	2069114	16.0000	12.48
	16 Bromomethane	94	4.360	4.360	(0.535)	2765662	16.0000	14.29

Data File: /var/chem/gcms/me.i/E110712I.b/eick079.d
Report Date: 09-Nov-2012 11:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
18	Chloroethane	64	4.478	4.478	(0.550)	1375823	16.0000	13.83
17	~ ethanol	31	4.602	4.602	(0.565)	2601592	80.0000	52.51
19	Vinyl Bromide	106	4.732	4.732	(0.581)	2015605	16.0000	13.92
20	2-methyl butane	43	4.775	4.775	(0.586)	3300919	16.0000	12.55
21	Trichlorofluoromethane	101	4.958	4.958	(0.609)	7414288	16.0000	13.64
22	Acrolein	56	4.964	4.964	(0.609)	788042	16.0000	15.30
23	Acetonitrile	40	5.023	5.023	(0.617)	891385	16.0000	14.46
24	Acetone	58	5.066	5.066	(0.622)	885549	16.0000	10.33
25	Pentane	72	5.147	5.147	(0.632)	491624	16.0000	14.48
26	Isopropyl alcohol	45	5.179	5.179	(0.636)	2870173	16.0000	11.52
27	Ethyl Ether	31	5.287	5.287	(0.649)	2982900	16.0000	15.16
28	1,1-Dichloroethene	96	5.557	5.557	(0.682)	1925216	16.0000	14.72
29	Acrylonitrile	53	5.649	5.649	(0.693)	1600731	16.0000	16.28(A)
30	1,1,2-Trichlorotrifluoroethane	101	5.719	5.719	(0.702)	4355504	16.0000	14.84
31	tert-butanol	59	5.686	5.686	(0.698)	3819722	16.0000	14.42
32	Methylene Chloride	84	5.853	5.853	(0.719)	1683229	16.0000	13.85
33	3-Chloropropene	39	5.870	5.870	(0.721)	2067351	16.0000	13.81
34	Carbon Disulfide	76	5.988	5.988	(0.735)	6083563	16.0000	14.25
35	trans-1,2-Dichloroethene	96	6.571	6.571	(0.807)	2314642	16.0000	15.54
36	~ 2-Methyl Pentane	43	6.598	6.598	(0.810)	6249337	16.0000	14.72
37	Methyl-t-Butyl Ether	73	6.695	6.695	(0.822)	6120891	16.0000	15.13
38	1,1-Dichloroethane	63	6.943	6.943	(0.852)	4292917	16.0000	14.09
39	Vinyl Acetate	43	7.056	7.056	(0.866)	5933321	16.0000	16.31(A)
40	Hexane	56	7.487	7.487	(0.919)	2220498	16.0000	14.27
41	2-Butanone	72	7.455	7.455	(0.915)	913892	16.0000	13.75
42	cis 1,2-Dichloroethene	96	7.843	7.843	(0.963)	2217049	16.0000	15.77
43	Ethyl acetate	43	8.032	8.032	(0.986)	4808180	16.0000	14.98
44	Chloroform	83	8.167	8.167	(1.003)	5182941	16.0000	14.32
45	Tetrahydrofuran	42	8.528	8.528	(1.047)	2625607	16.0000	14.98
46	1,1,1-Trichloroethane	97	9.121	9.121	(1.120)	5963229	16.0000	14.67
47	1,2-Dichloroethane	62	9.218	9.218	(0.898)	3790982	16.0000	15.86
48	Cyclohexane	69	9.698	9.698	(0.944)	1248010	16.0000	15.93
49	Benzene	78	9.698	9.698	(0.944)	6916453	16.0000	16.86(A)
50	Carbon Tetrachloride	117	9.725	9.725	(0.947)	5276383	16.0000	15.68
51	1-Butanol	31	9.698	9.698	(0.944)	630413	16.0000	15.42
52	~ 2,3-dimethylpentane	71	9.844	9.844	(0.959)	1546397	16.0000	16.23(A)
53	~ Thiophene	84	9.968	9.968	(0.971)	4004948	16.0000	17.09(A)
54	2,2,4-trimethylpentane	57	10.507	10.507	(1.023)	12573433	16.4800	15.74
55	Heptane	71	10.906	10.906	(1.062)	2705681	16.0000	16.42(A)
56	1,2-Dichloropropane	63	10.944	10.944	(1.066)	2470831	16.0000	15.70
57	Trichloroethene	130	10.992	10.992	(1.070)	3207055	16.0000	16.78(A)
58	Dibromomethane	93	11.057	11.057	(1.077)	2849716	16.0000	17.18(A)
59	Bromodichloromethane	83	11.219	11.219	(1.092)	5881808	16.0000	16.98(A)
60	1,4-dioxane	88	11.235	11.235	(1.094)	556598	16.0000	12.18
61	Methyl Methacrylate	41	11.343	11.343	(1.104)	3237835	16.0000	17.56(A)
62	~ methyl cyclohexane	83	11.780	11.780	(1.147)	4506014	16.0000	16.64(A)
63	cis-1,3-Dichloropropene	75	12.254	12.254	(1.193)	3876004	16.0000	18.40(A)

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
64	4-Methyl-2-pentanone	43	12.211	12.211	(1.189)	4960416	16.0000	16.20(A)
65	trans-1,3-Dichloropropene	75	12.977	12.977	(0.859)	4162892	16.0000	18.80(A)
66	Toluene	91	13.095	13.095	(0.867)	8673971	16.0000	16.01(A)
67	1,1,2-Trichloroethane	83	13.171	13.171	(0.872)	2391672	16.0000	15.80
68	~ 2-methyl thiophene	97	13.246	13.246	(0.877)	7053597	16.0000	16.67(A)
70	~ 3-methyl thiophene	97	13.451	13.451	(0.891)	7235578	16.0000	16.75(A)
69	2-Hexanone	58	13.586	13.586	(0.900)	2445735	16.0000	16.20(A)
71	Octane	85	13.845	13.845	(0.917)	3086458	16.0000	16.10(A)
72	Dibromochloromethane	129	13.877	13.877	(0.919)	5862043	16.0000	17.81(A)
73	1,2-Dibromoethane	107	14.169	14.169	(0.938)	4338597	16.0000	18.15(A)
74	Tetrachloroethene	129	14.260	14.260	(0.944)	3373144	16.0000	15.38
75	Chlorobenzene	112	15.150	15.150	(1.003)	7056373	16.0000	17.11(A)
76	~ 2,3-dimethylheptane	43	15.220	15.220	(1.008)	8690125	16.0000	14.36
77	Ethylbenzene	91	15.463	15.463	(1.024)	11529784	16.0000	17.54(A)
79	~ 2-ethyl thiophene	97	15.560	15.560	(1.030)	8956708	16.0000	18.02(A)
78	m&p-Xylene	91	15.624	15.624	(1.035)	18217196	32.0000	35.82(A)
80	Nonane	57	16.099	16.099	(1.066)	6092613	16.0000	15.69
81	Bromoform	173	16.050	16.050	(1.063)	6255024	16.0000	21.32(A)
82	Styrene	104	16.094	16.094	(1.066)	7468828	16.0000	22.66(A)
83	o-Xylene	91	16.158	16.158	(1.070)	9048312	16.0000	17.04(A)
84	1,1,2,2-Tetrachloroethane	83	16.482	16.482	(1.091)	6038327	16.0000	17.83(A)
85	1,2,3-Trichloropropane	110	16.638	16.638	(1.102)	1967685	16.0000	17.45(A)
86	Cumene	105	16.757	16.757	(1.110)	13618829	16.0000	17.56(A)
87	n-Propylbenzene	120	17.312	17.312	(1.146)	3794272	16.0000	20.27(A)
88	2-chlorotoluene	126	17.345	17.345	(1.149)	3468270	16.0000	18.71(A)
89	4-Ethyltoluene	105	17.474	17.474	(1.157)	12869269	16.0000	18.79(A)
90	1,3,5-Trimethylbenzene	120	17.555	17.555	(1.162)	5980762	16.0000	19.59(A)
91	Alpha-Methylstyrene	118	17.798	17.798	(1.179)	5753084	16.0000	21.52(A)
92	Decane	57	17.900	17.900	(1.185)	7081765	16.0000	17.74(A)
93	tert-butylbenzene	119	18.003	18.003	(1.192)	12066127	16.0000	18.59(A)
94	1,2,4-Trimethylbenzene	105	18.013	18.013	(1.193)	10854568	16.0000	18.41(A)
95	sec-butylbenzene	105	18.283	18.283	(1.211)	14747850	16.0000	18.09(A)
96	1,3-Dichlorobenzene	146	18.283	18.283	(1.211)	8708576	16.0000	22.29(A)
97	Benzyl Chloride	91	18.364	18.364	(1.216)	9689536	16.0000	21.69(A)
98	1,4-Dichlorobenzene	146	18.375	18.375	(1.217)	7640603	16.0000	21.57(A)
99	p-Cymene	119	18.461	18.461	(1.222)	12238992	16.0000	18.01(A)
100	~ 1,2,3- Trimethylbenzene	105	18.504	18.504	(1.225)	7896426	16.0000	17.84(A)
101	~ n-butylcyclohexane	83	18.579	18.579	(1.230)	8028881	16.0000	17.23(A)
102	1,2-Dichlorobenzene	146	18.747	18.747	(1.241)	7715635	16.0000	20.93(A)
103	~ Indane	117	18.752	18.752	(1.242)	10188210	16.0000	20.52(A)
105	~ Indene	116	18.881	18.881	(1.250)	9385073	16.0000	21.98(A)
104	n-butylbenzene	91	18.908	18.908	(1.252)	11068143	16.0000	18.32(A)
106	Undecane	57	19.270	19.270	(1.276)	7442925	16.0000	21.92(A)
107	~ 1,2-dimethyl-4-ethylenzene	119	19.297	19.297	(1.278)	11395760	16.0000	20.45(A)
108	~ 1,2,4,5-tetramethylbenzene	119	19.696	19.696	(1.304)	11580054	16.0000	21.62(A)
109	~ 1,2,3,5-tetramethylbenzene	119	19.750	19.750	(1.308)	6977444	16.0000	21.13(A)
110	~ 1,2,3,4-tetramethylbenzene	119	20.143	20.143	(1.334)	8914582	16.0000	21.13(A)

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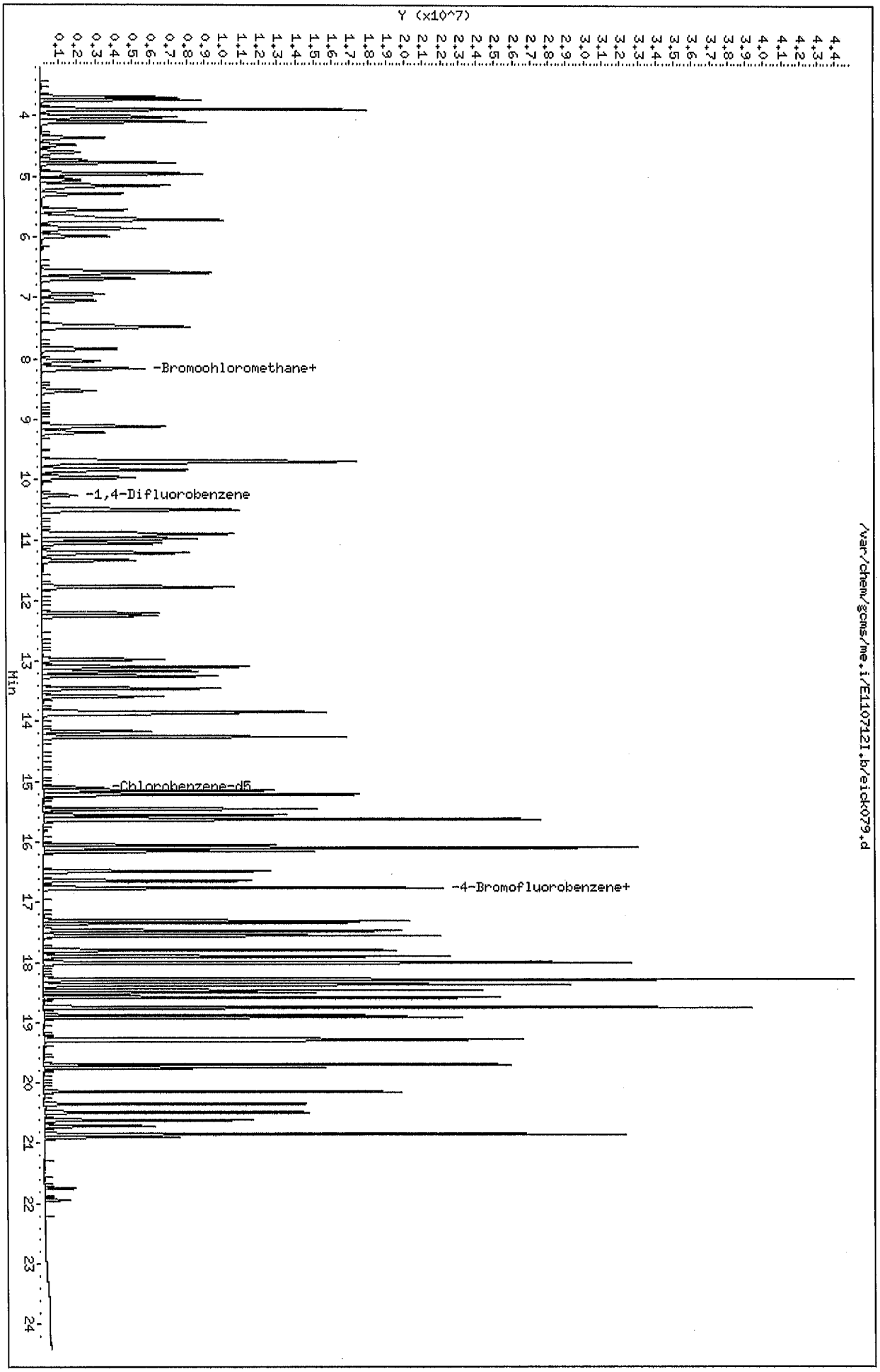
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
111 Dodecane	57	20.343	20.343	(1.347)	3948265	16.0000	18.32(A)
112 1,2,4-Trichlorobenzene	180	20.483	20.483	(1.356)	4075943	16.0000	34.40(A)
113 Napthalene	128	20.612	20.612	(1.365)	7769059	16.0000	31.92(A)
114 ~ benzo(b) thiophene	134	20.715	20.715	(1.372)	3960689	16.0000	28.59(A)
115 Hexachlorobutadiene	225	20.850	20.850	(1.381)	6224543	16.0000	20.36(A)
116 1,2,3-trichlorobenzene	180	20.898	20.898	(1.384)	2054246	16.0000	22.95(A)
117 ~ 2-Methylnaphthalene	142	21.745	21.745	(1.440)	778406	100.000	120.3(A)
118 ~ 1-Methylnaphthalene	142	21.939	21.939	(1.453)	605111	100.000	100.5(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.


Data File: /var/chem/gcms/me.i/E110712I.b/eick079.d
Date : 07-NOV-2012 21:53
Client ID: ICAL16
Sample Info: ICAL,r,1,9,,ICAL16
Purge Volume: 200.0
Column phase: Rtx-5
Instrument: me.i
Operator: 7126
Column diameter: 0.32
/var/chem/gcms/me.i/E110712I.b/eick079.d
Y (x10^7)
Min
-Bromochloromethane+
-1,4-Difluorobenzene
-Chlorobenzene-d5
-4-Bromofluorobenzene+

Data File: /var/chem/gcms/me.i/E110712I.b/elcsk07.d
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TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E110712I.b/elcsk07.d
Lab Smp Id: ICV Client Smp ID: 4.0PPB
Inj Date : 08-NOV-2012 00:24
Operator : 7126 Inst ID: me.i
Smp Info : ICV,,3,,,4.0PPB
Misc Info : E110712I,TO155,all.sub,,,
Comment :
Method : /var/chem/gcms/me.i/E110712I.b/TO155.m
Meth Date : 12-Nov-2012 08:27 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 15:34 Cal File: eick072.d
Als bottle: 9 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
*	1 Bromochloromethane	128	8.135	8.113	(1.000)	419021	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.259	10.243	(1.000)	2247246	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.096	15.091	(1.000)	2040509	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.768	16.768	(1.111)	1460863	3.84974	9.624
M	5 Xylene (total)	100				6849231	12.4596	31.15
	6 Chlorodifluoromethane	67	3.691	3.686	(0.454)	224925	3.53811	8.845
	7 Propene	41	3.702	3.696	(0.455)	645591	3.18085	7.952
	10 Dichlorodifluoromethane	85	3.745	3.734	(0.460)	2212680	3.33868	8.347
	9 Chloromethane	52	3.896	3.891	(0.479)	239198	3.17755	7.944
	11 1,2-Dichlorotetrafluoroethane	135	3.902	3.891	(0.480)	1519786	3.37788	8.445
	8 ~ acetaldehyde	44	4.015	4.009	(0.494)	1184701	14.9255	37.31
	12 Methanol	31	4.020	4.004	(0.494)	263535	4.20444	10.51
	13 Vinyl Chloride	62	4.036	4.025	(0.496)	816605	3.29066	8.227
	14 n-Butane	43	4.107	4.101	(0.505)	1325244	3.63055	9.076
	15 1,3-Butadiene	54	4.107	4.096	(0.505)	638700	3.62561	9.064

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
16 Bromomethane	94	4.365	4.360	(0.537)	696702	3.38583	8.464
18 Chloroethane	64	4.484	4.473	(0.551)	344298	3.25559	8.139
17 ~ ethanol	31	4.597	4.570	(0.565)	869869	15.8214	39.55
19 Vinyl Bromide	106	4.732	4.726	(0.582)	551718	3.58392	8.960
20 2-methyl butane	43	4.781	4.770	(0.588)	897829	3.21055	8.026
21 Trichlorofluoromethane	101	4.958	4.948	(0.610)	1929745	3.34044	8.351
22 Acrolein	56	4.964	4.953	(0.610)	190248	3.47493	8.687
23 Acetonitrile	40	5.018	5.012	(0.617)	232506	3.54905	8.873
24 Acetone	58	5.061	5.050	(0.622)	255308	2.80155	7.004
25 Pentane	72	5.147	5.136	(0.633)	129694	3.59354	8.984
26 Isopropyl alcohol	45	5.174	5.158	(0.636)	838128	3.16380	7.909
27 Ethyl Ether	31	5.287	5.293	(0.650)	699417	3.34499	8.362
28 1,1-Dichloroethene	96	5.557	5.546	(0.683)	601407	4.32715	10.82
29 Acrylonitrile	53	5.643	5.686	(0.694)	420285	4.02192	10.05
30 1,1,2-Trichlorotrifluoroethane	101	5.719	5.708	(0.703)	1275102	4.08657	10.22
31 tert-butanol	59	5.676	5.676	(0.698)	791358	2.81005	7.025
32 Methylene Chloride	84	5.854	5.837	(0.720)	516631	3.99900	9.997
33 3-Chloropropene	39	5.870	5.853	(0.722)	565601	3.55543	8.888
34 Carbon Disulfide	76	5.988	5.983	(0.736)	1750127	3.85606	9.640
35 trans-1,2-Dichloroethene	96	6.565	6.554	(0.807)	587201	3.70834	9.271
36 ~ 2-Methyl Pentane	43	6.598	6.587	(0.811)	1703852	3.40366	8.509
37 Methyl-t-Butyl Ether	73	6.695	6.705	(0.823)	1666979	3.87694	9.692
38 1,1-Dichloroethane	63	6.938	6.927	(0.853)	1206208	3.72365	9.309
39 Vinyl Acetate	43	7.045	7.034	(0.866)	1544222	3.99316	9.983
40 Hexane	56	7.482	7.471	(0.920)	592525	3.58368	8.959
41 2-Butanone	72	7.444	7.439	(0.915)	248243	3.51304	8.783
42 cis 1,2-Dichloroethene	96	7.833	7.816	(0.963)	622771	4.16730	10.42
43 Ethyl acetate	43	8.027	8.021	(0.987)	1248333	3.66014	9.150
44 Chloroform	83	8.156	8.140	(1.003)	1428309	3.71355	9.284
45 Tetrahydrofuran	42	8.523	8.544	(1.048)	702112	3.76827	9.421
46 1,1,1-Trichloroethane	97	9.116	9.100	(1.121)	1599877	3.70264	9.257
47 1,2-Dichloroethane	62	9.208	9.186	(0.898)	1009590	3.53116	8.828
48 Cyclohexane	69	9.698	9.687	(0.945)	322656	3.44273	8.607
49 Benzene	78	9.693	9.671	(0.945)	1848981	3.76843	9.421
50 Carbon Tetrachloride	117	9.720	9.709	(0.947)	1538186	3.82152	9.554
51 1-Butanol	31	9.693	9.714	(0.945)	135457	2.77025	6.926
52 ~ 2,3-dimethylpentane	71	9.839	9.828	(0.959)	423245	3.60979	9.024
53 ~ Thiophene	84	9.963	9.941	(0.971)	1097808	3.76594	9.415
54 2,2,4-trimethylpentane	57	10.507	10.496	(1.024)	3383608	3.54211	8.855
55 Heptane	71	10.896	10.885	(1.062)	705257	3.57795	8.945
56 1,2-Dichloropropane	63	10.933	10.922	(1.066)	677535	3.59984	9.000
57 Trichloroethene	130	10.982	10.965	(1.070)	858434	3.75614	9.390
58 Dibromomethane	93	11.052	11.036	(1.077)	692430	3.49055	8.726
59 Bromodichloromethane	83	11.214	11.192	(1.093)	1544198	3.72711	9.318
60 1,4-dioxane	88	11.230	11.251	(1.095)	189047	3.45995	8.650
61 Methyl Methacrylate	41	11.338	11.338	(1.105)	827620	3.75182	9.380
62 ~ methyl cyclohexane	83	11.774	11.764	(1.148)	1222614	3.62961	9.074

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
63 cis-1,3-Dichloropropene	75	12.249	12.233	(1.194)	1007860	4.00080	10.00
64 4-Methyl-2-pentanone	43	12.200	12.211	(1.189)	1296112	3.53963	8.849
65 trans-1,3-Dichloropropene	75	12.966	12.961	(0.859)	1019170	4.31746	10.79
66 Toluene	91	13.090	13.085	(0.867)	2298910	3.98214	9.955
67 1,1,2-Trichloroethane	83	13.166	13.155	(0.872)	608855	3.77360	9.434
68 ~ 2-methyl thiophene	97	13.241	13.230	(0.877)	1894197	4.02098	10.05
70 ~ 3-methyl thiophene	97	13.446	13.435	(0.891)	1918717	4.00760	10.02
69 2-Hexanone	58	13.581	13.586	(0.900)	619666	3.85068	9.627
71 Octane	85	13.840	13.840	(0.917)	773280	3.78544	9.464
72 Dibromochloromethane	129	13.872	13.861	(0.919)	1472191	4.19744	10.49
73 1,2-Dibromoethane	107	14.163	14.152	(0.938)	1075808	4.22169	10.55
74 Tetrachloroethene	129	14.255	14.255	(0.944)	854616	3.65506	9.138
75 Chlorobenzene	112	15.145	15.139	(1.003)	1718517	3.90974	9.774
76 ~ 2,3-dimethylheptane	43	15.215	15.215	(1.008)	2309743	3.44315	8.608
77 Ethylbenzene	91	15.452	15.447	(1.024)	2924292	4.17258	10.43
79 ~ 2-ethyl thiophene	97	15.555	15.549	(1.030)	2222757	4.07433	10.18
78 m&p-Xylene	91	15.625	15.619	(1.035)	4579572	8.44865	21.12
80 Nonane	57	16.094	16.088	(1.066)	1509448	3.64684	9.117
81 Bromoform	173	16.045	16.040	(1.063)	1366473	4.37000	10.92
82 Styrene	104	16.088	16.083	(1.066)	1651477	4.70052	11.75
83 o-Xylene	91	16.153	16.148	(1.070)	2269658	4.01097	10.03
84 1,1,2,2-Tetrachloroethane	83	16.477	16.476	(1.091)	1417507	3.92678	9.817
85 1,2,3-Trichloropropane	110	16.633	16.627	(1.102)	468058	3.89504	9.738
86 Cumene	105	16.752	16.751	(1.110)	3288565	3.97926	9.948
87 n-Propylbenzene	120	17.307	17.307	(1.146)	849099	4.25519	10.64
88 2-chlorotoluene	126	17.339	17.334	(1.149)	784398	3.97052	9.926
89 4-Ethyltoluene	105	17.469	17.463	(1.157)	3110599	4.26104	10.65
90 1,3,5-Trimethylbenzene	120	17.550	17.550	(1.163)	1401014	4.30487	10.76
91 Alpha-Methylstyrene	118	17.792	17.787	(1.179)	1221196	4.28495	10.71
92 Decane	57	17.895	17.895	(1.185)	1743096	4.09640	10.24
93 tert-butylbenzene	119	17.997	17.992	(1.192)	2788479	4.03046	10.08
94 1,2,4-Trimethylbenzene	105	18.008	18.008	(1.193)	2537609	4.03798	10.09
95 sec-butylbenzene	105	18.283	18.277	(1.211)	3680541	4.23539	10.59
96 1,3-Dichlorobenzene	146	18.278	18.277	(1.211)	1657290	3.97908	9.948
97 Benzyl Chloride	91	18.359	18.358	(1.216)	1930800	4.05494	10.14
98 1,4-Dichlorobenzene	146	18.369	18.369	(1.217)	1500626	3.97414	9.935
99 p-Cymene	119	18.456	18.455	(1.223)	2938387	3.99373	9.984
100 ~ 1,2,3- Trimethylbenzene	105	18.499	18.499	(1.225)	1973663	4.02212	10.06
101 ~ n-butylcyclohexane	83	18.574	18.569	(1.230)	1975329	3.86177	9.654
102 1,2-Dichlorobenzene	146	18.741	18.741	(1.241)	1475450	3.75445	9.386
103 ~ Indane	117	18.747	18.741	(1.242)	2224076	4.07926	10.20
105 ~ Indene	116	18.882	18.881	(1.251)	1991722	4.16795	10.42
104 n-butylbenzene	91	18.909	18.908	(1.253)	2478993	3.78201	9.455
106 Undecane	57	19.270	19.270	(1.276)	1504694	4.04331	10.11
107 ~ 1,2-dimethyl-4-ethylenzene	119	19.297	19.297	(1.278)	2373893	3.76722	9.418
108 ~ 1,2,4,5-tetramethylbenzene	119	19.690	19.690	(1.304)	2233314	3.65631	9.141
109 ~ 1,2,3,5-tetramethylbenzene	119	19.744	19.744	(1.308)	1353817	3.54854	8.871

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
110 ~ 1,2,3,4-tetramethylbenzene	119	20.138	20.143	(1.334)	1552097	3.38364	8.459
111 Dodecane	57	20.343	20.343	(1.348)	555936	2.71294	6.782
112 1,2,4-Trichlorobenzene	180	20.478	20.483	(1.356)	355248	2.74210	6.855
113 Napthalene	128	20.607	20.612	(1.365)	727345	2.89712	7.243
114 ~ benzo(b) thiophene	134	20.710	20.715	(1.372)	289769	2.53616	6.340(R)
115 Hexachlorobutadiene	225	20.844	20.850	(1.381)	992531	3.04666	7.617
116 1,2,3-trichlorobenzene	180	20.893	20.898	(1.384)	165087	2.07106	5.178(R)
117 ~ 2-Methylnaphthalene	142	21.745	21.750	(1.440)	93382	12.8134	32.03(R)
118 ~ 1-Methylnaphthalene	142	21.939	21.944	(1.453)	75220	10.9293	27.32(R)

OK
OK <4.0
OK
DNQ
>DNQ

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/me.i/E110712I.b/elcsk07.d
Report Date: 12-Nov-2012 08:27

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: me.i
Lab File ID: elcsk07.d
Lab Smp Id: ICV
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/me.i/E110712I.b/TO155.m
Misc Info: E110712I,TO155,all.sub,,,

Calibration Date: 07-NOV-2012
Calibration Time: 19:20
Client Smp ID: 4.0PPB
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	361959	215366	508552	419021	15.76
2 1,4-Difluorobenze	1976682	1176126	2777238	2247246	13.69
3 Chlorobenzene-d5	1778210	1058035	2498385	2040509	14.75

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.12	7.79	8.45	8.13	0.13
2 1,4-Difluorobenze	10.25	9.92	10.58	10.26	0.05
3 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/me.i/E110712I.b/elcsk07.d
Report Date: 12-Nov-2012 08:27

TestAmerica Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: ICV
Level: LOW
Data Type: MS DATA
SpikeList File: icvplus.spk
Sublist File: all.sub
Method File: /var/chem/gcms/me.i/E110712I.b/TO155.m
Misc Info: E110712I,TO155,all.sub,,,

Client SDG: E110712I
Fraction: OTHER
Client Smp ID: 4.0PPB
Operator: 7126
SampleType: LCSD
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
6	Chlorodifluorometh	10.00	8.845	88.45	65-135
10	Dichlorodifluorome	10.00	8.347	83.47	65-135
7	Propene	10.00	7.952	79.52	65-135
11	1,2-Dichlorotetraf	10.00	8.445	84.45	65-135
8	~ acetaldehyde	40.00	37.31	93.28	65-135
9	Chloromethane	10.00	7.944	79.44	65-135
12	Methanol	10.00	10.51	105.11	65-135
13	Vinyl Chloride	10.00	8.227	82.27	65-135
14	n-Butane	10.00	9.076	90.76	65-135
15	1,3-Butadiene	10.00	9.064	90.64	65-135
16	Bromomethane	10.00	8.464	84.65	65-135
18	Chloroethane	10.00	8.139	81.39	65-135
17	~ ethanol	40.00	39.55	98.88	65-135
19	Vinyl Bromide	10.00	8.960	89.60	65-165
20	2-methyl butane	10.00	8.026	80.26	65-135
21	Trichlorofluoromet	10.00	8.351	83.51	65-135
22	Acrolein	10.00	8.687	86.87	65-135
23	Acetonitrile	10.00	8.873	88.73	65-135
24	Acetone	10.00	7.004	70.04	65-135
25	Pentane	10.00	8.984	89.84	65-135
26	Isopropyl alcohol	10.00	7.909	79.09	65-135
27	Ethyl Ether	10.00	8.362	83.62	65-135
28	1,1-Dichloroethene	10.00	10.82	108.18	65-135
29	Acrylonitrile	10.00	10.05	100.55	65-135
31	tert-butanol	10.00	7.025	70.25	65-135
30	1,1,2-Trichlorotri	10.00	10.22	102.16	65-135
32	Methylene Chloride	10.00	9.997	99.97	65-135
33	3-Chloropropene	10.00	8.888	88.89	65-135
34	Carbon Disulfide	10.00	9.640	96.40	65-135
35	trans-1,2-Dichloro	10.00	9.271	92.71	65-135
36	~ 2-Methyl Pentane	10.00	8.509	85.09	65-135
37	Methyl-t-Butyl Eth	10.00	9.692	96.92	65-135
38	1,1-Dichloroethane	10.00	9.309	93.09	65-135

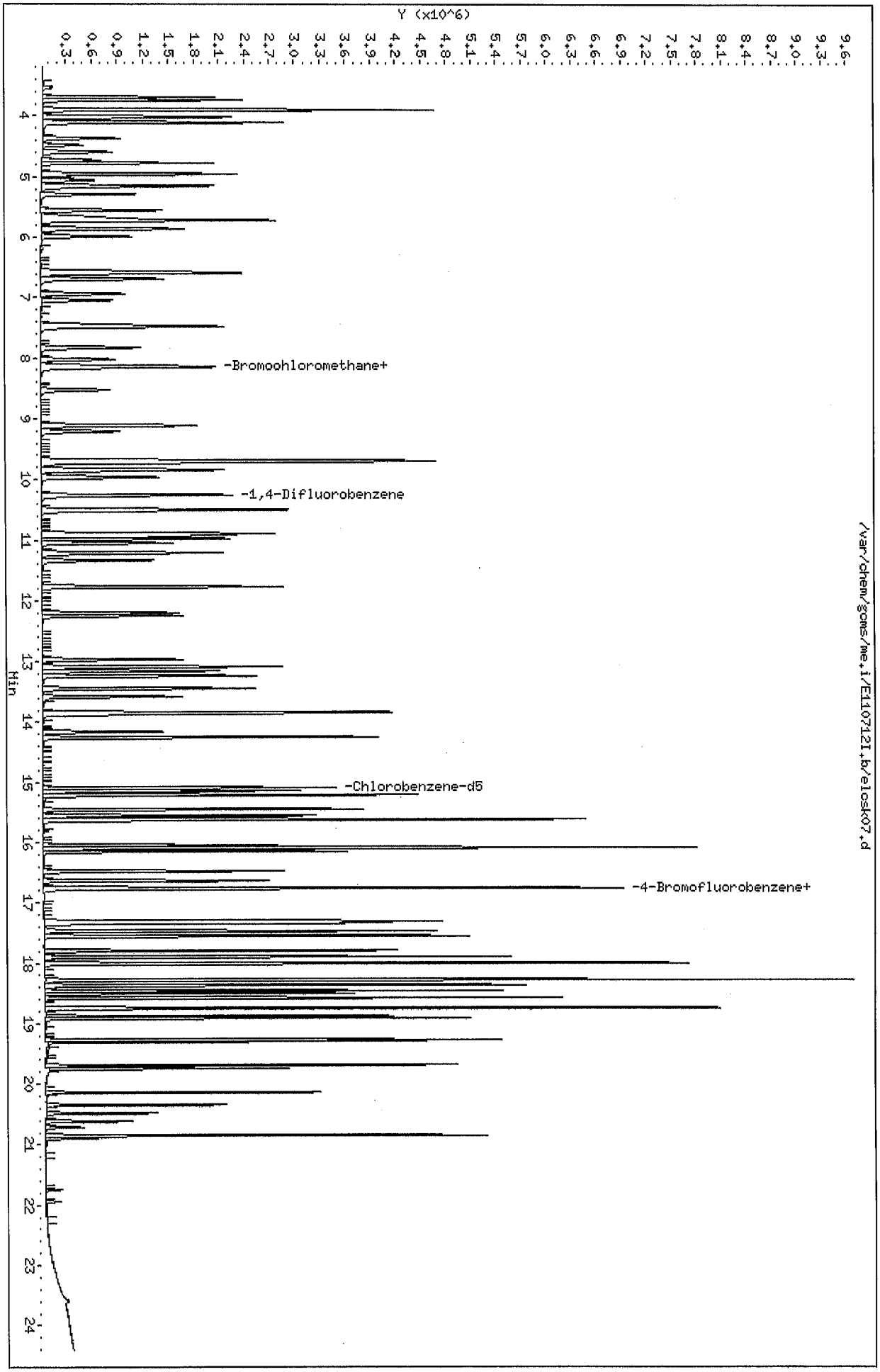
Data File: /var/chem/gcms/me.i/E110712I.b/elcsk07.d
Report Date: 12-Nov-2012 08:27

SPIKE	COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
39	Vinyl Acetate	10.00	9.983	99.83	65-135
41	2-Butanone	10.00	8.783	87.83	65-135
40	Hexane	10.00	8.959	89.59	65-135
42	cis 1,2-Dichloroet	10.00	10.42	104.18	65-135
43	Ethyl acetate	10.00	9.150	91.50	65-135
44	Chloroform	10.00	9.284	92.84	65-135
45	Tetrahydrofuran	10.00	9.421	94.21	65-135
46	1,1,1-Trichloroeth	10.00	9.257	92.57	65-135
47	1,2-Dichloroethane	10.00	8.828	88.28	65-135
51	1-Butanol	10.00	6.926	69.26	65-135
52	~ 2,3-dimethylpent	10.00	9.024	90.24	65-135
53	~ Thiophene	10.00	9.415	94.15	65-135
48	Cyclohexane	10.00	8.607	86.07	65-135
49	Benzene	10.00	9.421	94.21	65-135
50	Carbon Tetrachlori	10.00	9.554	95.54	65-135
54	2,2,4-trimethylpen	10.00	8.855	88.55	65-135
55	Heptane	10.00	8.945	89.45	65-135
56	1,2-Dichloropropan	10.00	9.000	90.00	65-135
57	Trichloroethene	10.00	9.390	93.90	65-135
58	Dibromomethane	10.00	8.726	87.26	65-135
59	Bromodichlorometha	10.00	9.318	93.18	65-135
60	1,4-dioxane	10.00	8.650	86.50	65-135
61	Methyl Methacrylat	10.00	9.380	93.80	65-135
62	~ methyl cyclohexa	10.00	9.074	90.74	65-135
64	4-Methyl-2-pentano	10.00	8.849	88.49	65-135
63	cis-1,3-Dichloropr	10.00	10.00	100.02	65-135
65	trans-1,3-Dichloro	10.00	10.79	107.94	65-135
66	Toluene	10.00	9.955	99.55	65-135
67	1,1,2-Trichloroeth	10.00	9.434	94.34	65-135
68	~ 2-methyl thiophe	10.00	10.05	100.52	65-135
70	~ 3-methyl thiophe	10.00	10.02	100.19	65-135
69	2-Hexanone	10.00	9.627	96.27	65-135
71	Octane	10.00	9.464	94.64	65-135
72	Dibromochlorometha	10.00	10.49	104.94	65-135
73	1,2-Dibromoethane	10.00	10.55	105.54	65-135
74	Tetrachloroethene	10.00	9.138	91.38	65-135
75	Chlorobenzene	10.00	9.774	97.74	65-135
76	~ 2,3-dimethylhept	10.00	8.608	86.08	65-135
77	Ethylbenzene	10.00	10.43	104.31	65-135
79	~ 2-ethyl thiophen	10.00	10.18	101.86	65-135
78	m&p-Xylene	20.00	21.12	105.61	65-135
M 5	Xylene (total)	30.00	31.15	103.83	65-135
80	Nonane	10.00	9.117	91.17	65-135
81	Bromoform	10.00	10.92	109.25	65-135
82	Styrene	10.00	11.75	117.51	65-135
83	o-Xylene	10.00	10.03	100.27	65-135
84	1,1,2,2-Tetrachlor	10.00	9.817	98.17	65-135

Data File: /var/chem/gcms/me.i/E110712I.b/elcsk07.d
Report Date: 12-Nov-2012 08:27

SPIKE	COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
85	1,2,3-Trichloropro	10.00	9.738	97.38	65-135
86	Cumene	10.00	9.948	99.48	65-135
87	n-Propylbenzene	10.00	10.64	106.38	65-135
88	2-chlorotoluene	10.00	9.926	99.26	65-135
89	4-Ethyltoluene	10.00	10.65	106.53	65-135
90	1,3,5-Trimethylben	10.00	10.76	107.62	65-135
91	Alpha-Methylstyren	10.00	10.71	107.12	65-135
92	Decane	10.00	10.24	102.41	65-135
94	1,2,4-Trimethylben	10.00	10.09	100.95	65-135
93	tert-butylbenzene	10.00	10.08	100.76	65-135
95	sec-butylbenzene	10.00	10.59	105.88	65-135
96	1,3-Dichlorobenzen	10.00	9.948	99.48	65-135
98	1,4-Dichlorobenzen	10.00	9.935	99.35	65-135
97	Benzyl Chloride	10.00	10.14	101.37	65-135
99	p-Cymene	10.00	9.984	99.84	65-135
100	~ 1,2,3- Trimethyl	10.00	10.06	100.55	65-135
101	~ n-butylcyclohexa	10.00	9.654	96.54	65-135
102	1,2-Dichlorobenzen	10.00	9.386	93.86	65-135
103	~ Indane	10.00	10.20	101.98	65-135
105	~ Indene	10.00	10.42	104.20	65-135
104	n-butylbenzene	10.00	9.455	94.55	65-135
106	Undecane	10.00	10.11	101.08	65-135
107	~ 1,2-dimethyl-4-e	10.00	9.418	94.18	65-135
108	~ 1,2,4,5-tetramet	10.00	9.141	91.41	65-135
109	~ 1,2,3,5-tetramet	10.00	8.871	88.71	65-135
110	~ 1,2,3,4-tetramet	10.00	8.459	84.59	65-135
111	Dodecane	10.00	6.782	67.82	65-135
112	1,2,4-Trichloroben	10.00	6.855	68.55	65-135
113	Napthalene	10.00	7.243	72.43	65-135
114	~ benzo(b) thiophe	10.00	6.340	63.40*	65-135
115	Hexachlorobutadien	10.00	7.617	76.17	65-135
116	1,2,3-trichloroben	10.00	5.178	51.78*	65-135
117	~ 2-Methylnaphthal	62.50	32.03	51.25*	65-135
118	~ 1-Methylnaphthal	62.50	27.32	43.72*	65-135

SURROGATE	COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4	4-Bromofluorobenze	10.00	9.624	96.24	70-130


Data File: /var/chem/gcms/me.i/E110712I.b/elcsk07.d
Date : 08-NOV-2012 00:24
Client ID: 4.0PPB
Sample Info: ICV,,3,,,4.0PPB
Purge Volume: 200.0
Column phase: Rtx-5
Instrument: me.i
Operator: 7126
Column diameter: 0.32
/var/chem/gcms/me.i/E110712I.b/elcsk07.d
Y (x10^6)
Min
-Bromochloromethane+
-1,4-Difluorobenzene
-Chlorobenzene-d5
-4-Bromofluorobenzene+

TestAmerica Knoxville GC/MS Air Continuing Calibration Review / Narrative Checklist
Method: TO-14 and TO-15 - KNOX-MS-0001, Rev 13 & KNOX-MS-0023, Rev 0

Analysis Date:	11/19/12	CCAL Batch/ Scan Name:	E111812 E111812 11/19/12	Instrument:	ME	ICAL Batch/ Scan Name:	E110712F	Scanned □

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd
1. Did BFB meet tune criteria?		✓		□ failed for TO-14A, but passes for TO-15	✓
2. Were all standards injected within 24 hr of BFB?		✓			✓
3. Have the Entech position no. & vol. been verified with run log & sample vol. corrected if actual amount differs >5%?		✓			✓
4. Was date/time of analysis in logbook correct?		✓			✓
5. Was the CCAL compared to the correct ICAL (date & time on CCAL matches the ICAL)		✓		NR	✓
6. Is the %D ≤ 30% for all target analytes? (Narrative req'd.).		✓		□ [ccal] analytes > 30% but passes LCS criteria.	✓
7. Have all peaks been auto identified? If not, list:		✓			✓
8. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NA
9. Have alternate hits/manual integrations been verified as correct and are correct RFs listed in CCAL summary?	✓				NA
10. Is the first IS documented correctly on the log?		✓			✓
11. Elution order checked on isomeric pairs?		✓			✓
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane		✓			✓
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane		✓			✓
• vinyl acetate / hexane		✓			✓
• cis- and trans- isomers		✓			✓
• ethyl benzene / m/p-xylene / o-xylene		✓			✓
• n-propylbenzene/4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene		✓			✓
• tert-butylbenzene/p-cymene		✓			✓
• 1,2,4-trimethylbenzene/sec-butylbenzene		✓			✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene		✓			✓
• 1,2,4-trichlorobenzene/1,2,3-trichlorobenzene		✓			✓
12. Did the LCS meet criteria (70-130% with a limited # allowed 60-140% (see table) provisional analyte limit 60-140% with a limited # allowed 50-150%, and no two consecutive MEs). Note: Ohio does not allow for ME.		✓		□ [lcs6] LCS analyte(s) flagged as being outside control limits but within marginal limits □ [lcs5] LCS outside marginal exceedences high, but analytes were not detected	✓
13. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				NA
14. Does the CCAL folder contain **complete** data in the following order: data review checklist, a **complete** runlog, tune pass/fail page, m/z list, tune chromatogram, Target CCAL summary, Quan report, chromatogram, manual integrations.		✓			✓

Number of target analytes in LCS	# marginal exceedances of LCS control limits allowed
>90	5
71 - 90	4
51 - 70	3
31 - 50	2
11 - 30	1
< 11	0

Analyst:	Date: 11/19/12	2nd Level Reviewer:	Date: 11/19/12
Comments:		Comments:	
Adjusted CCV to 2.16 ppbv due to 27mL vol. of standard			

TestAmerica Laboratories, Inc. - Knoxville
CANISTER RUN LOG

GCMS Analysis: AIR "7M" Inst: ME

Analyst: FF3 Qtims Batch: 2324020 MX DMX - 2324056 MX 096

Date: 11/18/12 ICAL Batch: E110712I Target Batch: E111812 IS #1 Area: 292927

Surr/IS ID & Vol.: 40mL 4425 11/18/12 4462 System Date/Time ok (y/n): Y

Preventive Maintenance Performed ☑ Daily

Time	Use	Lot No.	File ID	Can #	Pos	Vol* (mL)	Can DF	Comments
1418	✓	tune	EBFB K18	-	16	100	1	
1450	✓	CCV	CCV	CX2385	15	277		adjusted to 2.16 ppbV due to 27mL Vol.
1450	✓	LCS	LCS	+	+	+		
1554	200mL	lot ✓	10201	1527	1	500		ok as daily Blk
1654	F		10203	G371	2			
1754	200mL	+	10201C	12329	1			
1953	✓	H2K150429	MXCPR1AA	2954	1			Axi
2050	✓		PT	7511	2			
2147	✓		PV	12401	3			
2243	✓		PW	12730	4			
2342	E		PX	12622	5			E TCE RR 100mL
0038	✓		PO	93183	6			
0134	✓		P1	0140	7			
0232	✓		P2	7489	8			
0330	✓		P4	04337	9			
0427	✓		P5	12161	10			
0526	✓		P7	93097	11			
0631	✓		P8	03854	12	1000	2.12	1.06
0727	✓		QA	1491	13	500	1	
0828	✓		QC	6529	14			
0924	✓		QD	9716B	15			
1020	dup		QDD	+	15	+	+	
1853	OK	leak ✓	leak	-	16	+	+	
1123	✓	H2K150429	MXCPX2AA	12622	5	100	1	
1230	✓	H2K100401	MW94F2AA	L5783	7	11	14.54	10mL IPA
						11/19/12		

* Entech programmed Volume. If the Entech report amount differs from the programmed amount by >5%, the Entech report amount is used for calulations.

Analyst: _____ Date: 11/19/12

Test America - Knoxville

Entech Autosampler Log

Position	Volume	Date	Time
16	101	11/18/2012	14:18
15	27	11/18/2012	14:50
1	502	11/18/2012	15:54
2	500	11/18/2012	16:54
1	502	11/18/2012	17:54
16	501	11/18/2012	18:53
1	501	11/18/2012	19:53
2	501	11/18/2012	20:50
3	501	11/18/2012	21:47
4	501	11/18/2012	22:43
5	501	11/18/2012	23:42
6	501	11/19/2012	0:38
7	501	11/19/2012	1:34
8	501	11/19/2012	2:32
9	501	11/19/2012	3:30
10	501	11/19/2012	4:27
11	501	11/19/2012	5:26
12	1001	11/19/2012	6:31
13	501	11/19/2012	7:27
14	501	11/19/2012	8:28
15	501	11/19/2012	9:24
15	500	11/19/2012	10:20
5	101	11/19/2012	11:23
7	11	11/19/2012	12:30

Data File: /chem/gcms/me.i/E111812.b/ebfbk18.d

Date : 18-NOV-2012 14:18

Client ID: BFB

Instrument: me.i

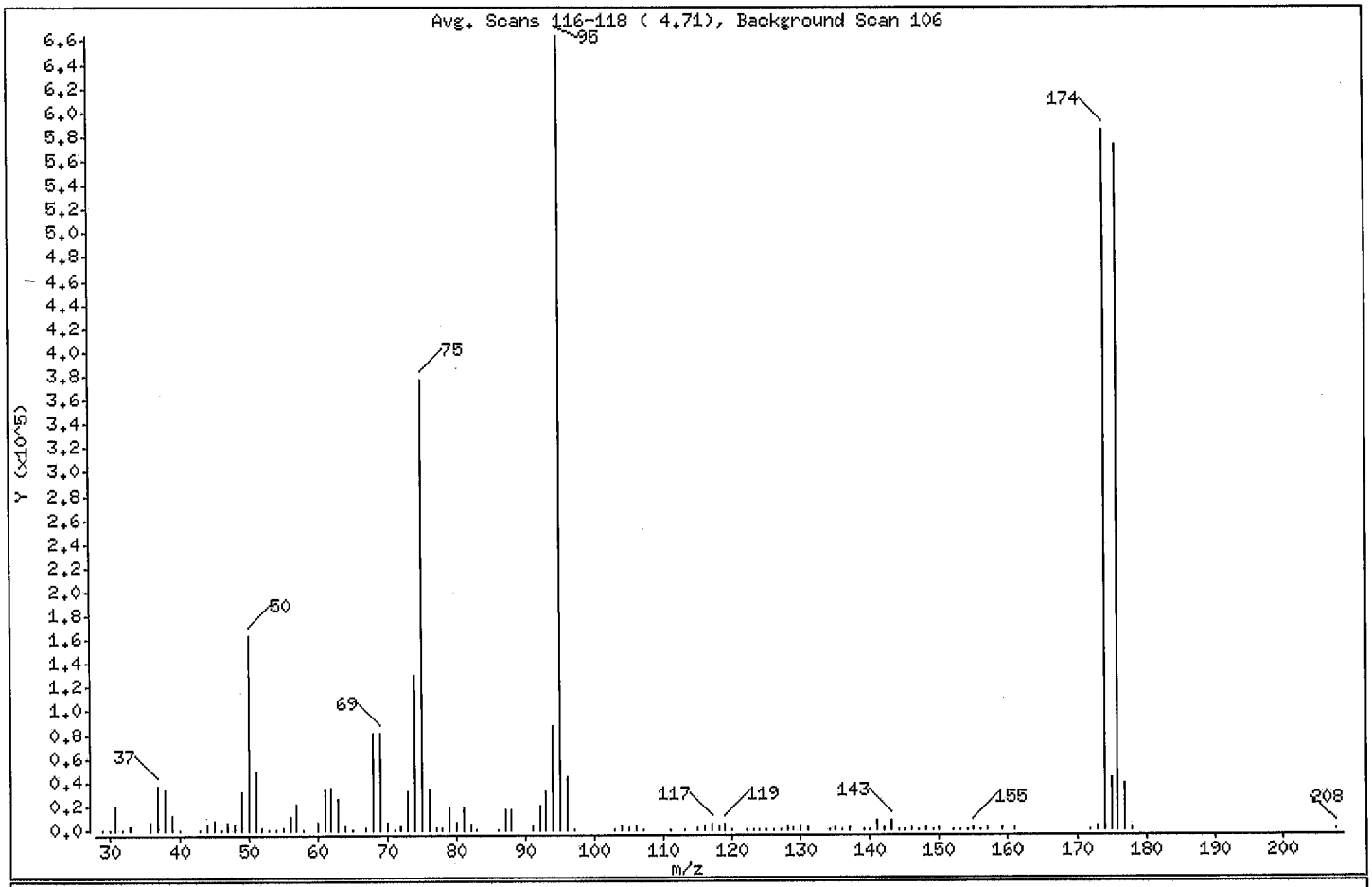
Sample Info: BFB,,3,,,BFB

Operator: 403648

Column phase: RTX-5

Column diameter: 0.32

1 BFB



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.55
75	30.00 - 60.00% of mass 95	56.82
96	5.00 - 9.00% of mass 95	6.71
173	Less than 2.00% of mass 174	0.53 (0.60)
174	50.00 - 120.00% of mass 95	88.29
175	5.00 - 9.00% of mass 174	6.40 (7.25)
176	95.00 - 101.00% of mass 174	86.38 (97.84)
177	5.00 - 9.00% of mass 176	5.65 (6.54)

Data File: /chem/gcms/me.i/E111812.b/ebfbk18.d

Date : 18-NOV-2012 14:18

Client ID: BFB

Instrument: me.i

Sample Info: BFB,,3,,,BFB

Operator: 403648

Column phase: RTX-5

Column diameter: 0.32

Data File: ebfbk18.d

Spectrum: Avg. Scans 116-118 (4.71), Background Scan 106

Location of Maximum: 95.00

Number of points: 114

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	80	63.00	26640	97.00	553	140.00	536
30.00	68	64.00	2341	103.00	543	141.00	8188
31.00	19304	65.00	421	104.00	3239	142.00	963
32.00	692	67.00	1846	105.00	1461	143.00	8323
33.00	3182	68.00	80712	106.00	2906	144.00	550
36.00	6440	69.00	80792	107.00	743	145.00	636
37.00	36976	70.00	5885	111.00	509	146.00	1062
38.00	32816	71.00	84	113.00	654	147.00	463
39.00	12389	72.00	3624	115.00	906	148.00	1859
40.00	270	73.00	32528	116.00	2434	149.00	537
43.00	408	74.00	129000	117.00	4253	150.00	895
44.00	3906	75.00	377088	118.00	2488	152.00	350
45.00	6945	76.00	32968	119.00	3906	153.00	590
46.00	491	77.00	1915	120.00	290	154.00	560
47.00	6832	78.00	1688	122.00	162	155.00	1898
48.00	4246	79.00	18496	123.00	190	156.00	74
49.00	32112	80.00	5560	124.00	422	157.00	1504
50.00	162944	81.00	19032	125.00	180	159.00	1025
51.00	49264	82.00	4193	126.00	271	161.00	917
52.00	2144	83.00	176	127.00	201	172.00	323
53.00	77	86.00	364	128.00	2624	173.00	3539
54.00	66	87.00	16952	129.00	1271	174.00	586048
55.00	2015	88.00	16592	130.00	2793	175.00	42488
56.00	11147	91.00	2482	131.00	1066	176.00	573376
57.00	20704	92.00	20576	134.00	146	177.00	37512
58.00	758	93.00	32392	135.00	1455	178.00	1215
60.00	6653	94.00	86928	136.00	238	208.00	105
61.00	33672	95.00	663808	137.00	1263		
62.00	34784	96.00	44568	139.00	88		

Data File: /chem/gcms/me.i/E111812.b/ebfbk18.d

Date : 18-NOV-2012 14:18

Client ID: BFB

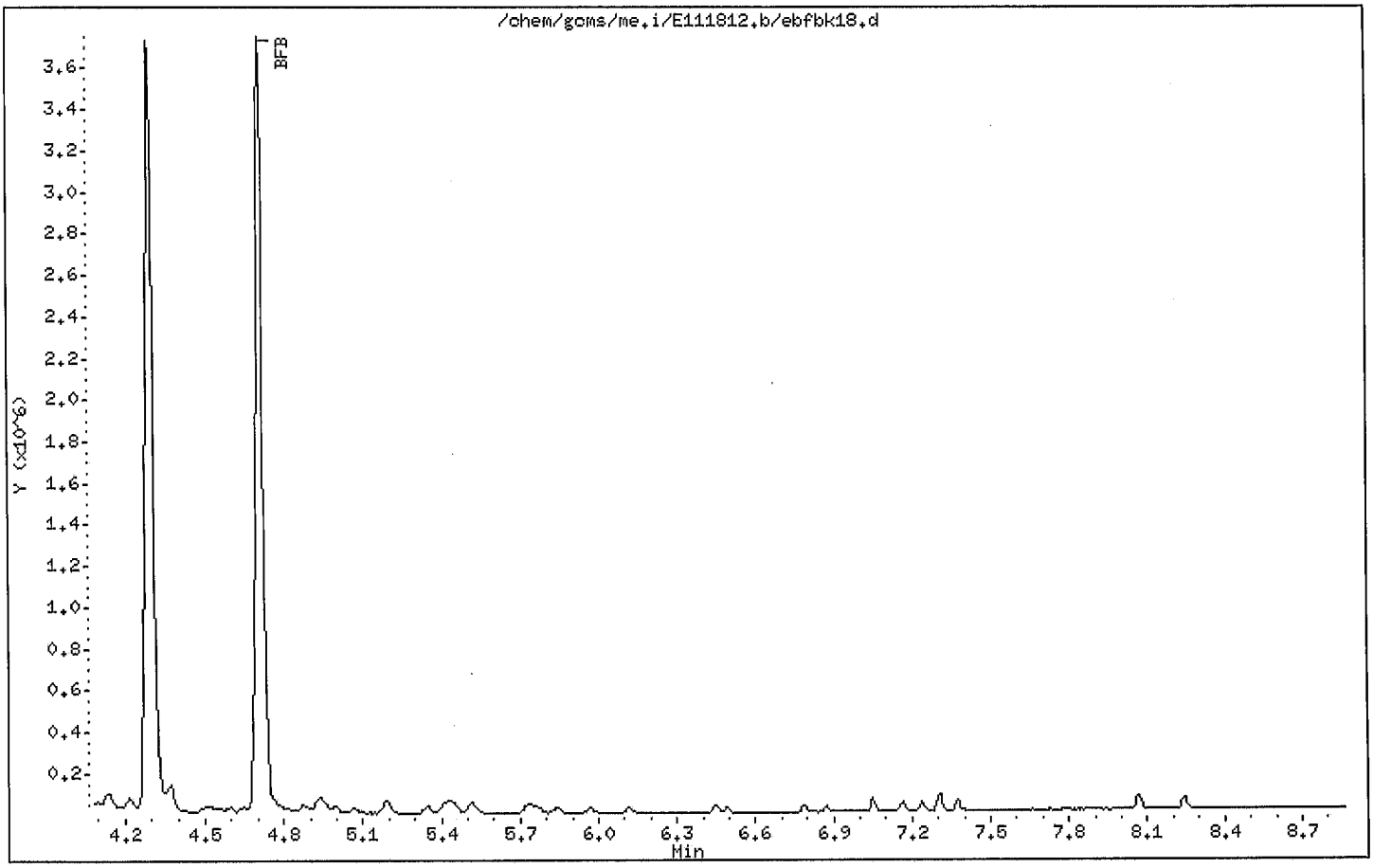
Instrument: me.i

Sample Info: BFB,,3,,,BFB

Operator: 403648

Column phase: RTX-5

Column diameter: 0.32



Data File: /var/chem/gcms/me.i/E111812.b/eccvk18.d
Report Date: 19-Nov-2012 08:57

TestAmerica Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: me.i
Lab File ID: eccvk18.d
Analysis Type: AIR
Lab Sample ID: CCV
Method: /var/chem/gcms/me.i/E111812.b/TO155.m

Injection Date: 18-NOV-2012 14:50
Init. Cal. Date(s): 07-NOV-2012 07-NOV-2012
Init. Cal. Times: 14:31 21:53
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 4 4-Bromofluorobenzene	0.74387	0.80359	0.000	-8.02764	30.00000	Averaged	
6 Chlorodifluoromethane	0.60686	0.70773	0.000	-16.62111	30.00000	Averaged	
7 Propene	1.93749	1.90952	0.000	1.44366	30.00000	Averaged	
10 Dichlorodifluoromethane	6.32656	6.62216	0.000	-4.67238	30.00000	Averaged	
9 Chloromethane	0.71860	0.62156	0.000	13.50390	30.00000	Averaged	
11 1,2-Dichlorotetrafluoroetha	4.29499	4.57290	0.000	-6.47054	30.00000	Averaged	
13 Vinyl Chloride	2.36894	2.12201	0.000	10.42336	30.00000	Averaged	
14 n-Butane	3.48456	3.03567	0.000	12.88207	30.00000	Averaged	
15 1,3-Butadiene	1.68167	1.48125	0.000	11.91780	30.00000	Averaged	
16 Bromomethane	1.96429	1.99277	0.000	-1.44962	30.00000	Averaged	
18 Chloroethane	1.00955	0.90242	0.000	10.61190	30.00000	Averaged	
19 Vinyl Bromide	1.46955	1.49605	0.000	-1.80346	30.00000	Averaged	
20 2-methyl butane	2.66955	2.11689	0.000	20.70227	30.00000	Averaged	
21 Trichlorofluoromethane	5.51468	5.40100	0.000	2.06135	30.00000	Averaged	
22 Acrolein	0.52264	0.31979	0.000	38.81195	30.00000	Averaged	<-
23 Acetonitrile	0.62538	0.38860	0.000	37.86150	30.00000	Averaged	<-
24 Acetone	0.86994	0.41102	0.000	52.75290	30.00000	Averaged	<-
25 Pentane	0.34453	0.29390	0.000	14.69519	30.00000	Averaged	
26 Isopropyl alcohol	2.52887	2.31084	0.000	8.62169	30.00000	Averaged	
27 Ethyl Ether	1.99603	1.46631	0.000	26.53867	30.00000	Averaged	
28 1,1-Dichloroethene	1.32675	1.18806	0.000	10.45343	30.00000	Averaged	
29 Acrylonitrile	0.99755	0.66347	0.000	33.48983	30.00000	Averaged	<-
31 tert-butanol	2.68834	2.75779	0.000	-2.58367	30.00000	Averaged	
30 1,1,2-Trichlorotrifluoroeth	2.97859	2.62233	0.000	11.96057	30.00000	Averaged	
32 Methylene Chloride	1.23326	0.99495	0.000	19.32347	30.00000	Averaged	
33 3-Chloropropene	1.51860	1.39663	0.000	8.03144	30.00000	Averaged	
34 Carbon Disulfide	4.33261	3.98184	0.000	8.09607	30.00000	Averaged	
35 trans-1,2-Dichloroethene	1.51158	1.31043	0.000	13.30741	30.00000	Averaged	
37 Methyl-t-Butyl Ether	4.10455	3.29384	0.000	19.75148	30.00000	Averaged	
38 1,1-Dichloroethane	3.09227	2.65108	0.000	14.26751	30.00000	Averaged	
39 Vinyl Acetate	3.69162	2.59265	0.000	29.76942	30.00000	Averaged	
40 Hexane	1.57835	1.38409	0.000	12.30746	30.00000	Averaged	
41 2-Butanone	0.67456	0.44721	0.000	33.70295	30.00000	Averaged	<-
42 cis 1,2-Dichloroethene	1.42659	1.24058	0.000	13.03839	30.00000	Averaged	
43 Ethyl acetate	3.25580	2.50901	0.000	22.93720	30.00000	Averaged	

Data File: /var/chem/gcms/me.i/E111812.b/eccvk18.d
Report Date: 19-Nov-2012 08:57

TestAmerica Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: me.i
Lab File ID: eccvk18.d
Analysis Type: AIR
Lab Sample ID: CCV
Method: /var/chem/gcms/me.i/E111812.b/TO155.m

Injection Date: 18-NOV-2012 14:50
Init. Cal. Date(s): 07-NOV-2012 07-NOV-2012
Init. Cal. Times: 14:31 21:53
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
44 Chloroform	3.67161	3.30469	0.000	9.99343	30.00000	Averaged
45 Tetrahydrofuran	1.77864	1.32473	0.000	25.52034	30.00000	Averaged
46 1,1,1-Trichloroethane	4.12476	3.92730	0.000	4.78706	30.00000	Averaged
47 1,2-Dichloroethane	0.50891	0.46837	0.000	7.96497	30.00000	Averaged
48 Cyclohexane	0.16682	0.13912	0.000	16.60421	30.00000	Averaged
49 Benzene	0.87334	0.68715	0.000	21.31848	30.00000	Averaged
51 1-Butanol	0.08704	0.09868	0.000	-13.37527	30.00000	Averaged
50 Carbon Tetrachloride	0.71644	0.65062	0.000	9.18701	30.00000	Averaged
54 2,2,4-trimethylpentane	1.70031	1.48845	0.000	12.45974	30.00000	Averaged
55 Heptane	0.35085	0.30159	0.000	14.03954	30.00000	Averaged
56 1,2-Dichloropropane	0.33501	0.25277	0.000	24.54959	30.00000	Averaged
57 Trichloroethene	0.40679	0/41248	0.000	-1.39807	30.00000	Averaged
58 Dibromomethane	0.35310	0.33032	0.000	6.45073	30.00000	Averaged
59 Bromodichloromethane	0.73746	0.72156	0.000	2.15642	30.00000	Averaged
60 1,4-dioxane	0.09725	0.09137	0.000	6.04642	30.00000	Averaged
61 Methyl Methacrylate	0.39264	0.32665	0.000	16.80667	30.00000	Averaged
64 4-Methyl-2-pentanone	0.65177	0.49721	0.000	23.71346	30.00000	Averaged
63 cis-1,3-Dichloropropene	0.44840	0.40785	0.000	9.04319	30.00000	Averaged
65 trans-1,3-Dichloropropene	0.46274	0.45627	0.000	1.39784	30.00000	Averaged
66 Toluene	1.13169	0.90074	0.000	20.40752	30.00000	Averaged
67 1,1,2-Trichloroethane	0.31629	0.26434	0.000	16.42467	30.00000	Averaged
69 2-Hexanone	0.31546	0.23573	0.000	25.27500	30.00000	Averaged
71 Octane	0.40044	0.37115	0.000	7.31441	30.00000	Averaged
72 Dibromochloromethane	0.68755	0.68963	0.000	-0.30376	30.00000	Averaged
73 1,2-Dibromoethane	0.49954	0.47784	0.000	4.34452	30.00000	Averaged
74 Tetrachloroethene	0.45835	0.43171	0.000	5.81275	30.00000	Averaged
75 Chlorobenzene	0.86164	0.74595	0.000	13.42653	30.00000	Averaged
77 Ethylbenzene	1.37384	1.08363	0.000	21.12405	30.00000	Averaged
78 m&p-Xylene	1.06257	0.85388	0.000	19.64082	30.00000	Averaged
M 5 Xylene (total)	1.08754	0.85945	0.000	20.97292	30.00000	Averaged
80 Nonane	0.81138	0.70383	0.000	13.25439	30.00000	Averaged
81 Bromoform	0.61297	0.58805	0.000	4.06605	30.00000	Averaged
82 Styrene	0.68873	0.57536	0.000	16.45999	30.00000	Averaged
83 o-Xylene	1.10926	0.87060	0.000	21.51518	30.00000	Averaged
84 1,1,2,2-Tetrachloroethane	0.70764	0.55811	0.000	21.12985	30.00000	Averaged

Data File: /var/chem/gcms/me.i/E111812.b/eccvk18.d
Report Date: 19-Nov-2012 08:57

TestAmerica Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: me.i
Lab File ID: eccvk18.d
Analysis Type: AIR
Lab Sample ID: CCV
Method: /var/chem/gcms/me.i/E111812.b/TO155.m

Injection Date: 18-NOV-2012 14:50
Init. Cal. Date(s): 07-NOV-2012 07-NOV-2012
Init. Cal. Times: 14:31 21:53
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
85 1,2,3-Trichloropropane	0.23556	0.19647	0.000	16.59414	30.00000	Averaged	
86 Cumene	1.62004	1.30528	0.000	19.42890	30.00000	Averaged	
87 n-Propylbenzene	0.39117	0.31969	0.000	18.27179	30.00000	Averaged	
88 2-chlorotoluene	0.38727	0.32245	0.000	16.73778	30.00000	Averaged	
89 4-Ethyltoluene	1.43103	1.20055	0.000	16.10610	30.00000	Averaged	
90 1,3,5-Trimethylbenzene	0.63797	0.53199	0.000	16.61318	30.00000	Averaged	
91 Alpha-Methylstyrene	0.55868	0.44809	0.000	19.79378	30.00000	Averaged	
92 Decane	0.83414	0.62861	0.000	24.64063	30.00000	Averaged	
93 tert-butylbenzene	1.35623	1.13207	0.000	16.52838	30.00000	Averaged	
94 1,2,4-Trimethylbenzene	1.23192	1.01525	0.000	17.58788	30.00000	Averaged	
95 sec-butylbenzene	1.70349	1.45829	0.000	14.39425	30.00000	Averaged	
96 1,3-Dichlorobenzene	0.81646	0.67426	0.000	17.41713	30.00000	Averaged	
97 Benzyl Chloride	0.93341	0.81937	0.000	12.21823	30.00000	Averaged	
98 1,4-Dichlorobenzene	0.74020	0.61951	0.000	16.30565	30.00000	Averaged	
99 p-Cymene	1.44229	1.23019	0.000	14.70556	30.00000	Averaged	
102 1,2-Dichlorobenzene	0.77037	0.62453	0.000	18.93132	30.00000	Averaged	
104 n-butylbenzene	1.28491	1.04591	0.000	18.60111	30.00000	Averaged	
106 Undecane	0.72951	0.54510	0.000	25.27848	30.00000	Averaged	
111 Dodecane	0.40170	0.50715	0.000	-26.24956	30.00000	Averaged	
112 1,2,4-Trichlorobenzene	0.25396	0.39942	0.000	-57.27302	30.00000	Averaged	<-
113 Napthalene	0.49215	0.79636	0.000	-61.81370	30.00000	Averaged	<-
115 Hexachlorobutadiene	0.63862	0.54728	0.000	14.30225	30.00000	Averaged	
116 1,2,3-trichlorobenzene	0.15626	0.35764	0.000	-129	30.00000	Averaged	<-
17 ~ ethanol	0.52485	2.16602	0.000	-313	50.00000	Averaged	<-

NT

Data File: /var/chem/gcms/me.i/E111812.b/eccvk18.d
Report Date: 19-Nov-2012 08:57

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E111812.b/eccvk18.d
Lab Smp Id: CCV Client Smp ID: CCV/LCS
Inj Date : 18-NOV-2012 14:50
Operator : 403648 Inst ID: me.i
Smp Info : CCV,,2,10,,CCV/LCS
Misc Info : E111812,TO155,all.sub,,
Comment :
Method : /var/chem/gcms/me.i/E111812.b/TO155.m
Meth Date : 19-Nov-2012 08:57 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 15:34 Cal File: eick072.d
Als bottle: 12 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-all.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

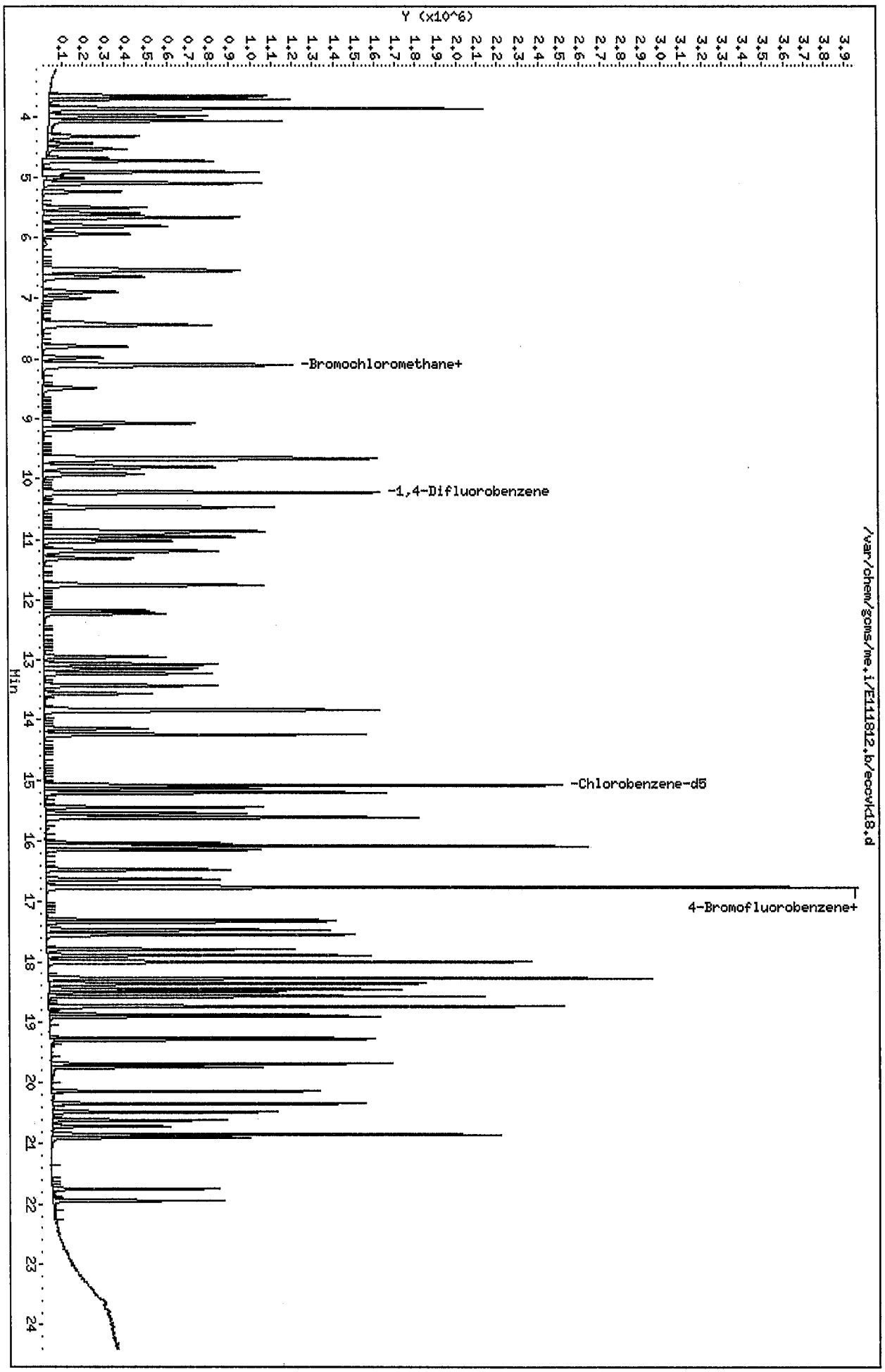
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
*	1 Bromochloromethane	128	8.097	8.097	(1.000)	292927	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.227	10.227	(1.000)	1503226	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.085	15.085	(1.000)	1358775	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.762	16.762	(1.111)	1091897	4.00000	4.321
	6 Chlorodifluoromethane	67	3.637	3.637	(0.449)	111949	2.16000	2.519
	7 Propene	41	3.643	3.643	(0.450)	302048	2.16000	2.129
	10 Dichlorodifluoromethane	85	3.691	3.691	(0.456)	1047497	2.16000	2.261
	9 Chloromethane	52	3.837	3.837	(0.474)	98319	2.16000	1.868
	11 1,2-Dichlorotetrafluoroethane	135	3.853	3.853	(0.476)	723344	2.16000	2.300
	13 Vinyl Chloride	62	3.982	3.982	(0.492)	335661	2.16000	1.935
	14 n-Butane	43	4.058	4.058	(0.501)	480185	2.16000	1.882
	15 1,3-Butadiene	54	4.058	4.058	(0.501)	234305	2.16000	1.902
	16 Bromomethane	94	4.317	4.317	(0.533)	315217	2.16000	2.191
	18 Chloroethane	64	4.430	4.430	(0.547)	142745	2.16000	1.931
	19 Vinyl Bromide	106	4.684	4.684	(0.578)	236646	2.16000	2.199

Data File: /var/chem/gcms/me.i/E111812.b/eccvk18.d
Report Date: 19-Nov-2012 08:57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
20 2-methyl butane	43	4.727	4.727	(0.584)	334851	2.16000	1.713
21 Trichlorofluoromethane	101	4.910	4.910	(0.606)	854335	2.16000	2.115
22 Acrolein	56	4.915	4.915	(0.607)	50584	2.16000	1.322
23 Acetonitrile	40	4.969	4.969	(0.614)	61469	2.16000	1.342
24 Acetone	58	5.012	5.012	(0.619)	65015	2.16000	1.020
25 Pentane	72	5.099	5.099	(0.630)	46489	2.16000	1.842
26 Isopropyl Alcohol	45	5.099	5.099	(0.630)	365530	2.16000	1.974
27 Ethyl Ether	31	5.239	5.239	(0.647)	231941	2.16000	1.587
28 1,1-Dichloroethene	96	5.509	5.509	(0.680)	187928	2.16000	1.934
29 Acrylonitrile	53	5.589	5.589	(0.690)	104948	2.16000	1.437
31 tert-butanol	59	5.606	5.606	(0.692)	436229	2.16000	2.216
30 1,1,2-Trichlorotrifluoroethane	101	5.670	5.670	(0.700)	414802	2.16000	1.902
32 Methylene Chloride	84	5.805	5.805	(0.717)	157381	2.16000	1.743
33 3-Chloropropene	39	5.821	5.821	(0.719)	220920	2.16000	1.986
34 Carbon Disulfide	76	5.945	5.945	(0.734)	629850	2.16000	1.985
35 trans-1,2-Dichloroethene	96	6.522	6.522	(0.806)	207284	2.16000	1.872
37 Methyl-t-Butyl Ether	73	6.646	6.646	(0.821)	521022	2.16000	1.733
38 1,1-Dichloroethane	63	6.894	6.894	(0.851)	419349	2.16000	1.852
39 Vinyl Acetate	43	6.997	6.997	(0.864)	410106	2.16000	1.517
40 Hexane	56	7.439	7.439	(0.919)	218936	2.16000	1.894
41 2-Butanone	72	7.401	7.401	(0.914)	70740	2.16000	1.432
42 cis 1,2-Dichloroethene	96	7.795	7.795	(0.963)	196236	2.16000	1.878
43 Ethyl acetate	43	7.978	7.978	(0.985)	396876	2.16000	1.664
44 Chloroform	83	8.118	8.118	(1.003)	522738	2.16000	1.944
45 Tetrahydrofuran	42	8.491	8.491	(1.049)	209546	2.16000	1.609
46 1,1,1-Trichloroethane	97	9.078	9.078	(1.121)	621224	2.16000	2.056
47 1,2-Dichloroethane	62	9.170	9.170	(0.897)	380197	2.16000	1.988
48 Cyclohexane	69	9.666	9.666	(0.945)	112929	2.16000	1.801
49 Benzene	78	9.655	9.655	(0.944)	557792	2.16000	1.700
51 1-Butanol	31	9.644	9.644	(0.943)	80099	2.16000	2.449
50 Carbon Tetrachloride	117	9.688	9.688	(0.947)	528138	2.16000	1.962
54 2,2,4-trimethylpentane	57	10.470	10.470	(1.024)	1208240	2.16000	1.891
55 Heptane	71	10.869	10.869	(1.063)	244815	2.16000	1.857
56 1,2-Dichloropropane	63	10.906	10.906	(1.066)	205181	2.16000	1.630
57 Trichloroethene	130	10.955	10.955	(1.071)	334828	2.16000	2.190
58 Dibromomethane	93	11.020	11.020	(1.077)	268132	2.16000	2.021
59 Bromodichloromethane	83	11.187	11.187	(1.094)	585720	2.16000	2.113
60 1,4-dioxane	88	11.203	11.203	(1.095)	74172	2.16000	2.029
61 methyl methacrylate	41	11.311	11.311	(1.106)	265157	2.16000	1.797
64 4-Methyl-2-pentanone	43	12.179	12.179	(1.191)	403608	2.16000	1.648
63 cis-1,3-Dichloropropene	75	12.227	12.227	(1.196)	331067	2.16000	1.965
65 trans-1,3-Dichloropropene	75	12.950	12.950	(0.858)	334786	2.16000	2.130
66 Toluene	91	13.074	13.074	(0.867)	660906	2.16000	1.719
67 1,1,2-Trichloroethane	83	13.144	13.144	(0.871)	193953	2.16000	1.805
69 2-Hexanone	58	13.559	13.559	(0.899)	172961	2.16000	1.614
71 Octane	85	13.829	13.829	(0.917)	272330	2.16000	2.002
72 Dibromochloromethane	129	13.856	13.856	(0.918)	506011	2.16000	2.166

Data File: /var/chem/gcms/me.i/E111812.b/eccvk18.d
Report Date: 19-Nov-2012 08:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
73	1,2-Dibromoethane	107	14.147	14.147	(0.938)	350607	2.16000	2.066
74	Tetrachloroethene	129	14.244	14.244	(0.944)	316760	2.16000	2.034
75	Chlorobenzene	112	15.134	15.134	(1.003)	547335	2.16000	1.870
77	Ethylbenzene	91	15.447	15.447	(1.024)	795103	2.16000	1.704
78	m&p-Xylene	91	15.614	15.614	(1.035)	1253043	4.32000	3.472
M 5	Xylene (total)	100				1891835	6.48000	5.167
80	Nonane	57	16.083	16.083	(1.066)	516430	2.16000	1.874
81	Bromoform	173	16.034	16.034	(1.063)	431474	2.16000	2.072
82	Styrene	104	16.083	16.083	(1.066)	422166	2.16000	1.804
83	o-Xylene	91	16.142	16.142	(1.070)	638792	2.16000	1.695
84	1,1,2,2-Tetrachloroethane	83	16.471	16.471	(1.092)	409510	2.16000	1.704
85	1,2,3-Trichloropropane	110	16.628	16.628	(1.102)	144160	2.16000	1.802
86	Cumene	105	16.746	16.746	(1.110)	957737	2.16000	1.740
87	n-Propylbenzene	120	17.302	17.302	(1.147)	234571	2.16000	1.765
88	2-chlorotoluene	126	17.334	17.334	(1.149)	236592	2.16000	1.798
89	4-Ethyltoluene	105	17.463	17.463	(1.158)	880889	2.16000	1.812
90	1,3,5-Trimethylbenzene	120	17.544	17.544	(1.163)	390339	2.16000	1.801
91	Alpha-Methylstyrene	118	17.787	17.787	(1.179)	328783	2.16000	1.732
92	Decane	57	17.889	17.889	(1.186)	461231	2.16000	1.628
93	tert-butylbenzene	119	17.992	17.992	(1.193)	830642	2.16000	1.803
94	1,2,4-Trimethylbenzene	105	18.008	18.008	(1.194)	744928	2.16000	1.780
95	sec-butylbenzene	105	18.278	18.278	(1.212)	1070001	2.16000	1.849
96	1,3-Dichlorobenzene	146	18.272	18.272	(1.211)	494729	2.16000	1.784
97	Benzyl Chloride	91	18.353	18.353	(1.217)	601201	2.16000	1.896
98	1,4-Dichlorobenzene	146	18.364	18.364	(1.217)	454556	2.16000	1.808
99	p-Cymene	119	18.450	18.450	(1.223)	902639	2.16000	1.842
102	1,2-Dichlorobenzene	146	18.736	18.736	(1.242)	458241	2.16000	1.751
104	n-butylbenzene	91	18.903	18.903	(1.253)	767421	2.16000	1.758
106	Undecane	57	19.264	19.264	(1.277)	399963	2.16000	1.614
111	Dodecane	57	20.343	20.343	(1.349)	372115	2.16000	2.727
112	1,2,4-Trichlorobenzene	180	20.478	20.478	(1.357)	293066	2.16000	3.397
113	Napthalene	128	20.607	20.607	(1.366)	584321	2.16000	3.495
115	Hexachlorobutadiene	225	20.844	20.844	(1.382)	401562	2.16000	1.851
116	1,2,3-trichlorobenzene	180	20.898	20.898	(1.385)	262414	2.16000	4.944
17	~ ethanol	31	4.527	4.527	(0.559)	342622	2.16000	8.914


Data File: /var/chem/gcms/me.i/E111812.b/ecovkd18.d
Date : 18-NOV-2012 14:50
Client ID: CCV/LCS
Sample Info: CCV,2,6,,CCV/LCS
Purge Volume: 200.0
Column phase: Rtx-5
Instrument: me.i
Operator: 403648
Column diameter: 0.32
Y (x10^6)
Min
/var/chem/gcms/me.i/E111812.b/ecovkd18.d
-Bromochloromethane+
-1,4-Difluorobenzene
-Chlorobenzene-d5
4-Bromofluorobenzene+

Raw QC Data

New York State D.E.C

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample #	H2K190000 - 020B	**Work Order #**	MXDMX1AA	**Matrix.....:**	AIR
	11/14/2012	**Date Received..:**	11/15/2012		
Prep Date.....:	11/18/2012	**Analysis Date...**	11/18/2012		
Prep Batch #.....:	2324020				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	ND	0.040	ND	0.25
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
Tetrachloroethene	ND	0.080	ND	0.54
1,1,1-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	103	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Faetor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/me.i/E111812.b/eblkk18.d
Report Date: 19-Nov-2012 09:59

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E111812.b/eblkk18.d
Lab Smp Id: MXDMX1AA Client Smp ID: BLANK
Inj Date : 18-NOV-2012 15:54
Operator : 403648 Inst ID: me.i
Smp Info : MXDMX1AA,,3,,,BLANK
Misc Info : E111812,TO155,blkchklowny.sub,,
Comment :
Method : /var/chem/gcms/me.i/E111812.b/TO155.m
Meth Date : 19-Nov-2012 08:57 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 15:34 Cal File: eick072.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: axi.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.091	8.097	(1.000)	319721	4.00000	4.000
* 2 1,4-Difluorobenzene	114	10.227	10.227	(1.000)	1723052	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.085	15.085	(1.000)	1461619	4.00000	4.000
$ 4 4-Bromofluorobenzene	95	16.762	16.762	(1.111)	1120146	4.12099	4.121

Data File: /var/chem/gcms/me.i/E111812.b/eblkk18.d
Report Date: 19-Nov-2012 09:59

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: me.i
Lab File ID: eblkk18.d
Lab Smp Id: MXDMX1AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 403648
Calibration Date: 18-NOV-2012
Calibration Time: 14:50
Client Smp ID: BLANK
Level: LOW
Sample Type: AIR
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,blkchklowny.sub,,

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	292927	174292	411562	319721	9.15
2 1,4-Difluorobenze	1503226	894419	2112033	1723052	14.62
3 Chlorobenzene-d5	1358775	808471	1909079	1461619	7.57

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.10	7.77	8.43	8.09	-0.07
2 1,4-Difluorobenze	10.23	9.90	10.56	10.23	0.00
3 Chlorobenzene-d5	15.09	14.76	15.42	15.09	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/me.i/E111812.b/eblkk18.d
Report Date: 19-Nov-2012 09:59

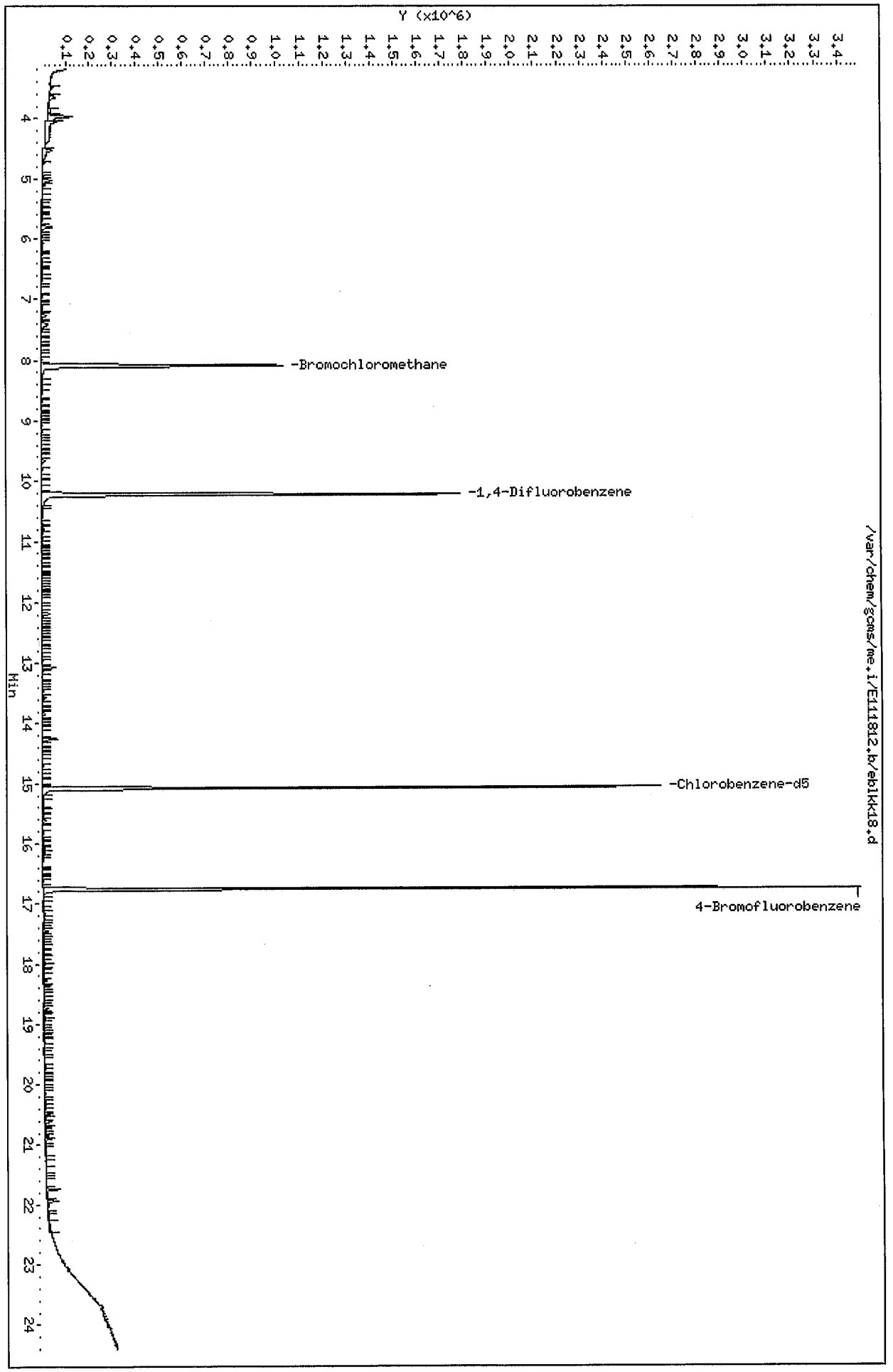
TestAmerica Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: MXDMX1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allplus.spk
Sublist File: axi.sub
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,blkchklowny.sub,,

Client SDG: E111812
Fraction: OTHER
Client Smp ID: BLANK
Operator: 403648
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.121	103.02	70-130


Data File: /var/chem/gcms/me.i/E111812.b/eblkk18.d
Date : 18-NOV-2012 15:54
Client ID: BLANK
Sample Info: MXDMX1AA,3,,BLANK
Purge Volume: 500.0
Column phase: Rtx-5
Instrument: me.i
Operator: 403648
Column diameter: 0.32
Y (x10^6)
-Bromochloromethane
-1,4-Difluorobenzene
-Chlorobenzene-d5
4-Bromofluorobenzene
/var/chem/gcms/me.i/E111812.b/eblkk18.d
Min

New York State D.E.C

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H2K190000 - 020C **Work Order #** MXDMX1AC **Matrix.....:** AIR

	11/14/2012	**Date Received..:**	11/15/2012
Prep Date.....:	11/18/2012	**Analysis Date...**	11/18/2012
Prep Batch #.....:	2324020		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Carbon tetrachloride	5.40	4.90	34	30.9	91	70 - 130
cis-1,2-Dichloroethene	5.40	4.70	21	18.6	87	70 - 130
trans-1,2-Dichloroethene	5.40	4.68	21	18.6	87	70 - 130
1,1-Dichloroethene	5.40	4.84	21	19.2	90	70 - 130
Tetrachloroethene	5.40	5.09	37	34.5	94	70 - 130
1,1,1-Trichloroethane	5.40	5.14	29	28.1	95	70 - 130
Trichloroethene	5.40	5.48	29	29.4	101	70 - 130
Vinyl chloride	5.40	4.84	14	12.4	90	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	108	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/me.i/E111812.b/elcsk18.d
Report Date: 19-Nov-2012 10:00

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E111812.b/elcsk18.d
Lab Smp Id: MXDMX1AC Client Smp ID: CCV/LCS
Inj Date : 18-NOV-2012 14:50
Operator : 403648 Inst ID: me.i
Smp Info : MXDMX1AC,,3,10,,CCV/LCS
Misc Info : E111812,TO155,all.sub,,
Comment :
Method : /var/chem/gcms/me.i/E111812.b/TO155.m
Meth Date : 19-Nov-2012 08:57 tajh Quant Type: ISTD
Cal Date : 07-NOV-2012 15:34 Cal File: eick072.d
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-all.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
*	1 Bromochloromethane	128	8.097	8.097	(1.000)	292927	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.227	10.227	(1.000)	1503226	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.085	15.085	(1.000)	1358775	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.762	16.762	(1.111)	1091897	4.32111	10.80
	6 Chlorodifluoromethane	67	3.637	3.637	(0.449)	111949	2.51901	6.298
	7 Propene	41	3.643	3.643	(0.450)	302048	2.12881	5.322
	10 Dichlorodifluoromethane	85	3.691	3.691	(0.456)	1047497	2.26092	5.652
	9 Chloromethane	52	3.837	3.837	(0.474)	98319	1.86831	4.671
	11 1,2-Dichlorotetrafluoroethane	135	3.853	3.853	(0.476)	723344	2.29976	5.749
	13 Vinyl Chloride	62	3.982	3.982	(0.492)	335661	1.93485	4.837
	14 n-Butane	43	4.058	4.058	(0.501)	480185	1.88175	4.704
	15 1,3-Butadiene	54	4.058	4.058	(0.501)	234305	1.90258	4.756
	16 Bromomethane	94	4.317	4.317	(0.533)	315217	2.19131	5.478
	18 Chloroethane	64	4.430	4.430	(0.547)	142745	1.93078	4.827
	19 Vinyl Bromide	106	4.684	4.684	(0.578)	236646	2.19896	5.497

Data File: /var/chem/gcms/me.i/E111812.b/elcsk18.d
Report Date: 19-Nov-2012 10:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
20 2-methyl butane	43	4.727	4.727	(0.584)	334851	1.71283	4.282
21 Trichlorofluoromethane	101	4.910	4.910	(0.606)	854335	2.11548	5.289
22 Acrolein	56	4.915	4.915	(0.607)	50584	1.32164	3.304
23 Acetonitrile	40	4.969	4.969	(0.614)	61469	1.34218	3.355
24 Acetone	58	5.012	5.012	(0.619)	65015	1.02052	2.551(R)
25 Pentane	72	5.099	5.099	(0.630)	46489	1.84258	4.606
26 Isopropyl Alcohol	45	5.099	5.099	(0.630)	365530	1.97377	4.934
27 Ethyl Ether	31	5.239	5.239	(0.647)	231941	1.58676	3.967
28 1,1-Dichloroethene	96	5.509	5.509	(0.680)	187928	1.93420	4.836
29 Acrylonitrile	53	5.589	5.589	(0.690)	104948	1.43661	3.592
31 tert-butanol	59	5.606	5.606	(0.692)	436229	2.21581	5.540
30 1,1,2-Trichlorotrifluoroethane	101	5.670	5.670	(0.700)	414802	1.90165	4.754
32 Methylene Chloride	84	5.805	5.805	(0.717)	157381	1.74261	4.356
33 3-Chloropropene	39	5.821	5.821	(0.719)	220920	1.98652	4.966
34 Carbon Disulfide	76	5.945	5.945	(0.734)	629850	1.98513	4.963
35 trans-1,2-Dichloroethene	96	6.522	6.522	(0.806)	207284	1.87256	4.681
37 Methyl-t-Butyl Ether	73	6.646	6.646	(0.821)	521022	1.73337	4.333
38 1,1-Dichloroethane	63	6.894	6.894	(0.851)	419349	1.85182	4.630
39 Vinyl Acetate	43	6.997	6.997	(0.864)	410106	1.51698	3.792
40 Hexane	56	7.439	7.439	(0.919)	218936	1.89416	4.735
41 2-Butanone	72	7.401	7.401	(0.914)	70740	1.43201	3.580
42 cis 1,2-Dichloroethene	96	7.795	7.795	(0.963)	196236	1.87837	4.696
43 Ethyl acetate	43	7.978	7.978	(0.985)	396876	1.66455	4.161
44 Chloroform	83	8.118	8.118	(1.003)	522738	1.94414	4.860
45 Tetrahydrofuran	42	8.491	8.491	(1.049)	209546	1.60876	4.022
46 1,1,1-Trichloroethane	97	9.078	9.078	(1.121)	621224	2.05660	5.142
47 1,2-Dichloroethane	62	9.170	9.170	(0.897)	380197	1.98796	4.970
48 Cyclohexane	69	9.666	9.666	(0.945)	112929	1.80133	4.503
49 Benzene	78	9.655	9.655	(0.944)	557792	1.69952	4.249
51 1-Butanol	31	9.644	9.644	(0.943)	80099	2.44888	6.122
50 Carbon Tetrachloride	117	9.688	9.688	(0.947)	528138	1.96156	4.904
54 2,2,4-trimethylpentane	57	10.470	10.470	(1.024)	1208240	1.89087	4.727
55 Heptane	71	10.869	10.869	(1.063)	244815	1.85674	4.642
56 1,2-Dichloropropane	63	10.906	10.906	(1.066)	205181	1.62973	4.074
57 Trichloroethene	130	10.955	10.955	(1.071)	334828	2.19019	5.475
58 Dibromomethane	93	11.020	11.020	(1.077)	268132	2.02066	5.052
59 Bromodichloromethane	83	11.187	11.187	(1.094)	585720	2.11342	5.284
60 1,4-dioxane	88	11.203	11.203	(1.095)	74172	2.02939	5.073
61 methyl methacrylate	41	11.311	11.311	(1.106)	265157	1.79697	4.492
64 4-Methyl-2-pentanone	43	12.179	12.179	(1.191)	403608	1.64779	4.119
63 cis-1,3-Dichloropropene	75	12.227	12.227	(1.196)	331067	1.96467	4.912
65 trans-1,3-Dichloropropene	75	12.950	12.950	(0.858)	334786	2.12980	5.324
66 Toluene	91	13.074	13.074	(0.867)	660906	1.71920	4.298
67 1,1,2-Trichloroethane	83	13.144	13.144	(0.871)	193953	1.80522	4.513
69 2-Hexanone	58	13.559	13.559	(0.899)	172961	1.61406	4.035
71 Octane	85	13.829	13.829	(0.917)	272330	2.00201	5.005
72 Dibromochloromethane	129	13.856	13.856	(0.918)	506011	2.16656	5.416

Data File: /var/chem/gcms/me.i/E111812.b/elcsk18.d
Report Date: 19-Nov-2012 10:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
73	1,2-Dibromoethane	107	14.147	14.147	(0.938)	350607	2.06615	5.165
74	Tetrachloroethene	129	14.244	14.244	(0.944)	316760	2.03444	5.086
75	Chlorobenzene	112	15.134	15.134	(1.003)	547335	1.86999	4.675
77	Ethylbenzene	91	15.447	15.447	(1.024)	795103	1.70372	4.259
78	m&p-Xylene	91	15.614	15.614	(1.035)	1253043	3.47152	8.679
M 5	Xylene (total)	100				1891835	5.16679	12.92
80	Nonane	57	16.083	16.083	(1.066)	516430	1.87371	4.684
81	Bromoform	173	16.034	16.034	(1.063)	431474	2.07217	5.180
82	Styrene	104	16.083	16.083	(1.066)	422166	1.80446	4.511
83	o-Xylene	91	16.142	16.142	(1.070)	638792	1.69527	4.238
84	1,1,2,2-Tetrachloroethane	83	16.471	16.471	(1.092)	409510	1.70360	4.259
85	1,2,3-Trichloropropane	110	16.628	16.628	(1.102)	144160	1.80156	4.504
86	Cumene	105	16.746	16.746	(1.110)	957737	1.74034	4.351
87	n-Propylbenzene	120	17.302	17.302	(1.147)	234571	1.76533	4.413
88	2-chlorotoluene	126	17.334	17.334	(1.149)	236592	1.79846	4.496
89	4-Ethyltoluene	105	17.463	17.463	(1.158)	880889	1.81211	4.530
90	1,3,5-Trimethylbenzene	120	17.544	17.544	(1.163)	390339	1.80115	4.503
91	Alpha-Methylstyrene	118	17.787	17.787	(1.179)	328783	1.73245	4.331
92	Decane	57	17.889	17.889	(1.186)	461231	1.62776	4.069
93	tert-butylbenzene	119	17.992	17.992	(1.193)	830642	1.80299	4.507
94	1,2,4-Trimethylbenzene	105	18.008	18.008	(1.194)	744928	1.78010	4.450
95	sec-butylbenzene	105	18.278	18.278	(1.212)	1070001	1.84908	4.623
96	1,3-Dichlorobenzene	146	18.272	18.272	(1.211)	494729	1.78379	4.459
97	Benzyl Chloride	91	18.353	18.353	(1.217)	601201	1.89608	4.740
98	1,4-Dichlorobenzene	146	18.364	18.364	(1.217)	454556	1.80780	4.519
99	p-Cymene	119	18.450	18.450	(1.223)	902639	1.84236	4.606
102	1,2-Dichlorobenzene	146	18.736	18.736	(1.242)	458241	1.75108	4.378
104	n-butylbenzene	91	18.903	18.903	(1.253)	767421	1.75821	4.396
106	Undecane	57	19.264	19.264	(1.277)	399963	1.61398	4.035
111	Dodecane	57	20.343	20.343	(1.349)	372115	2.72699	6.817
112	1,2,4-Trichlorobenzene	180	20.478	20.478	(1.357)	293066	3.39709	8.493(R)
113	Napthalene	128	20.607	20.607	(1.366)	584321	3.49517	8.738(R)
115	Hexachlorobutadiene	225	20.844	20.844	(1.382)	401562	1.85107	4.628
116	1,2,3-trichlorobenzene	180	20.898	20.898	(1.385)	262414	4.94377	12.36(R)
17	~ ethanol	31	4.527	4.527	(0.559)	342622	8.91419	22.28

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/me.i/E111812.b/elcsk18.d
Report Date: 19-Nov-2012 10:00

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: me.i
Lab File ID: elcsk18.d
Lab Smp Id: MXDMX1AC
Analysis Type: OTHER
Quant Type: ISTD
Operator: 403648
Calibration Date: 18-NOV-2012
Calibration Time: 14:50
Client Smp ID: CCV/LCS
Level: LOW
Sample Type: AIR
Method File: /var/chem/gcms/me.i/E111812.b/TO15S.m
Misc Info: E111812,TO15S,all.sub,,

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	292927	174292	411562	292927	0.00
2 1,4-Difluorobenze	1503226	894419	2112033	1503226	0.00
3 Chlorobenzene-d5	1358775	808471	1909079	1358775	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.10	7.77	8.43	8.10	0.00
2 1,4-Difluorobenze	10.23	9.90	10.56	10.23	0.00
3 Chlorobenzene-d5	15.09	14.76	15.42	15.09	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/me.i/E111812.b/elcsk18.d
Report Date: 19-Nov-2012 10:00

TestAmerica Knoxville

RECOVERY REPORT

Client Name:
Client SDG: E111812
Sample Matrix: GAS
Fraction: OTHER
Lab Smp Id: MXDMX1AC
Client Smp ID: CCV/LCS
Level: LOW
Operator: 403648
Data Type: MS DATA
SampleType: LCS
SpikeList File: allnew.spk
Quant Type: ISTD
Sublist File: 1-all.sub
Method File: /var/chem/gcms/me.i/E111812.b/TO155.m
Misc Info: E111812,TO155,all.sub,,

SPIKE	COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
6	Chlorodifluorometh	5.000	6.298	125.95	60-140
7	Propene	5.000	5.322	106.44	60-140
10	Dichlorodifluorome	5.000	5.652	113.05	60-140
9	Chloromethane	5.000	4.671	93.42	60-140
11	1,2-Dichlorotetraf	5.000	5.749	114.99	60-140
12	Methanol	5.000	0.000	*	60-140
13	Vinyl Chloride	5.000	4.837	96.74	70-130
14	n-Butane	5.000	4.704	94.09	60-140
15	1,3-Butadiene	5.000	4.756	95.13	60-140
16	Bromomethane	5.000	5.478	109.57	70-130
18	Chloroethane	5.000	4.827	96.54	70-130
19	Vinyl Bromide	5.000	5.497	109.95	60-140
20	2-methyl butane	5.000	4.282	85.64	70-130
21	Trichlorofluoromet	5.000	5.289	105.77	60-140
22	Acrolein	5.000	3.304	66.08	60-140
23	Acetonitrile	5.000	3.355	67.11	60-140
24	Acetone	5.000	2.551	51.03*	60-140
25	Pentane	5.000	4.606	92.13	70-130
26	Isopropyl Alcohol	5.000	4.934	98.69	60-140
27	Ethyl Ether	5.000	3.967	79.34	60-140
28	1,1-Dichloroethene	5.000	4.836	96.71	70-130
31	tert-butanol	5.000	5.540	110.79	60-140
29	Acrylonitrile	5.000	3.592	71.83	60-140
30	1,1,2-Trichlorotri	5.000	4.754	95.08	70-130
32	Methylene Chloride	5.000	4.356	87.13	70-130
33	3-Chloropropene	5.000	4.966	99.33	60-140
34	Carbon Disulfide	5.000	4.963	99.26	70-130
35	trans-1,2-Dichloro	5.000	4.681	93.63	70-130
37	Methyl-t-Butyl Eth	5.000	4.333	86.67	60-140
38	1,1-Dichloroethane	5.000	4.630	92.59	70-130
39	Vinyl Acetate	5.000	3.792	75.85	60-140
41	2-Butanone	5.000	3.580	71.60	60-140
40	Hexane	5.000	4.735	94.71	70-130

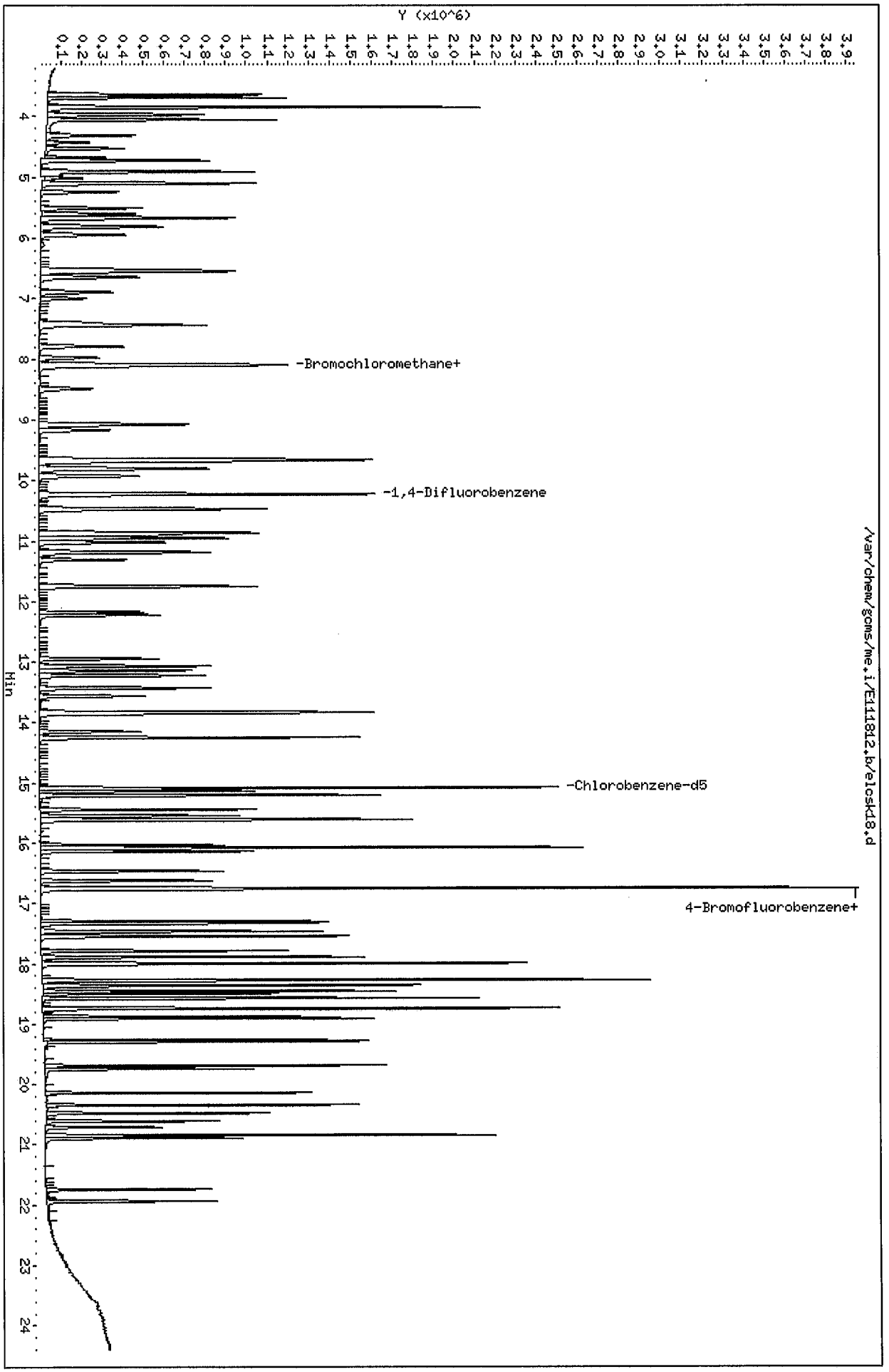
Data File: /var/chem/gcms/me.i/E111812.b/elcsk18.d
Report Date: 19-Nov-2012 10:00

SPIKE	COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
42	cis 1,2-Dichloroet	5.000	4.696	93.92	70-130
43	Ethyl acetate	5.000	4.161	83.23	60-140
44	Chloroform	5.000	4.860	97.21	70-130
45	Tetrahydrofuran	5.000	4.022	80.44	60-140
46	1,1,1-Trichloroeth	5.000	5.142	102.83	70-130
47	1,2-Dichloroethane	5.000	4.970	99.40	70-130
51	1-Butanol	5.000	6.122	122.44	60-140
49	Benzene	5.000	4.249	84.98	70-130
48	Cyclohexane	5.000	4.503	90.07	70-130
50	Carbon Tetrachlori	5.000	4.904	98.08	70-130
54	2,2,4-trimethylpen	5.000	4.727	94.54	70-130
55	Heptane	5.000	4.642	92.84	70-130
56	1,2-Dichloropropan	5.000	4.074	81.49	70-130
57	Trichloroethene	5.000	5.475	109.51	70-130
58	Dibromomethane	5.000	5.052	101.03	70-130
59	Bromodichlorometha	5.000	5.284	105.67	70-130
60	1,4-dioxane	5.000	5.073	101.47	60-140
61	methyl methacrylat	5.000	4.492	89.85	60-140
64	4-Methyl-2-pentano	5.000	4.119	82.39	60-140
63	cis-1,3-Dichloropr	5.000	4.912	98.23	70-130
65	trans-1,3-Dichloro	5.000	5.324	106.49	70-130
66	Toluene	5.000	4.298	85.96	70-130
67	1,1,2-Trichloroeth	5.000	4.513	90.26	70-130
69	2-Hexanone	5.000	4.035	80.70	60-140
71	Octane	5.000	5.005	100.10	70-130
72	Dibromochlorometha	5.000	5.416	108.33	70-130
73	1,2-Dibromoethane	5.000	5.165	103.31	70-130
74	Tetrachloroethene	5.000	5.086	101.72	70-130
75	Chlorobenzene	5.000	4.675	93.50	70-130
77	Ethylbenzene	5.000	4.259	85.19	70-130
78	m&p-Xylene	10.00	8.679	86.79	70-130
M 5	Xylene (total)	15.00	12.92	86.11	70-130
80	Nonane	5.000	4.684	93.69	60-140
81	Bromoform	5.000	5.180	103.61	60-140
82	Styrene	5.000	4.511	90.22	70-130
83	o-Xylene	5.000	4.238	84.76	70-130
84	1,1,2,2-Tetrachlor	5.000	4.259	85.18	70-130
85	1,2,3-Trichloropro	5.000	4.504	90.08	60-140
86	Cumene	5.000	4.351	87.02	70-130
87	n-Propylbenzene	5.000	4.413	88.27	70-130
88	2-chlorotoluene	5.000	4.496	89.92	70-130
89	4-Ethyltoluene	5.000	4.530	90.61	70-130
90	1,3,5-Trimethylben	5.000	4.503	90.06	70-130
91	Alpha-Methylstyren	5.000	4.331	86.62	60-140
92	Decane	5.000	4.069	81.39	60-140
93	tert-butylbenzene	5.000	4.507	90.15	70-130
94	1,2,4-Trimethylben	5.000	4.450	89.01	70-130

Data File: /var/chem/gcms/me.i/E111812.b/elcsk18.d
Report Date: 19-Nov-2012 10:00

SPIKE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
95 sec-butylbenzene	5.000	4.623	92.45	70-130
96 1,3-Dichlorobenzen	5.000	4.459	89.19	70-130
97 Benzyl Chloride	5.000	4.740	94.80	70-130
98 1,4-Dichlorobenzen	5.000	4.519	90.39	70-130
99 p-Cymene	5.000	4.606	92.12	70-130
102 1,2-Dichlorobenzen	5.000	4.378	87.55	70-130
104 n-butylbenzene	5.000	4.396	87.91	60-140
106 Undecane	5.000	4.035	80.70	60-140
111 Dodecane	5.000	6.817	136.35	60-140
112 1,2,4-Trichloroben	5.000	8.493	169.85*	60-140
113 Napthalene	5.000	8.738	174.76*	40-140
115 Hexachlorobutadien	5.000	4.628	92.55	60-140
116 1,2,3-trichloroben	5.000	12.36	247.19*	40-140

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	10.00	10.80	108.03	70-130


Data File: /var/chem/gcms/me.i/E111812.b/elcsk18.d
Date : 18-NOV-2012 14:50
Client ID: CCV/LCS
Sample Info: MXDMX1AC,3,10,CCV/LCS
Purge Volume: 200.0
Column phase: Rtx-5
Instrument: me.i
Operator: 403648
Column diameter: 0.32
Y (x10^6)
-Bromochloromethane+
-1,4-Difluorobenzene
-Chlorobenzene-d5
4-Bromofluorobenzene+
/var/chem/gcms/me.i/E111812.b/elcsk18.d
Min

Miscellaneous Data

TestAmerica Knoxville GC/MS Air Data Review / Narrative Checklist LOT/Project # H2K150429

Method: TO-14 and TO-15 - KNOX-MS-0001, Rev 13 & KNOX-MS-0023, Rev 0

Instrument:	ME			
Scanned File:	E110712I	E111812		

Review Items A. Tune / Continuing Calibration	N/A	Yes	No	Why is data reportable?	2nd
1. Were all samples injected within 24 hr of BFB?		✓			✓
2. Has a Continuing Calibration Checklist & run log been completed for each analytical batch **and scanned properly**?		✓			✓
3. Was the correct ICAL used for quantitation?		✓			✓
B. CLIENT SAMPLE AND QC SAMPLE Results	**N/A**	**Yes**	**No**	**Why is data reportable?**	
1. Were all special project requirements met?		✓			✓
2. Were samples received in cans?		✓		□ [Tedlar1] analyzed w/n 72 hours, □ [Tedlar2] X-fer within 72 hours.	✓
3. Can pressure/vac on receipt acceptable?		✓		□ see narrative	✓
4. Were dilution factors/can prep information verified?		✓			✓
5. Have the can number & lab ID been verified between the analysis log & sample prep log?		✓			✓
6. Sample analyses done within analytical holding time (HT)? *If no, list samples:* _____		✓		□ [ht2] Client requested analysis after HT expired. □ Other: _____	✓
7. Default sample volume verified?		✓			✓
8. Are surrogates and internal standards within QC limits? (60-140% R for surr.; 60-140%R from CCAL for IS) *If no, list samples/reason (e.g.,* sur1*):* Sample / Reason / Sample / Reason		✓		□ [sur7] Obvious matrix effect **□ [sur12] high recovery, no hits.** □ [sur14] entire sample consumed **□ [is1] Per client, reanalysis was not performed *** □ [is2] Reanalysis confirmed a matrix effect.	✓
9. Were all positive results and false negatives on quan report verified to be correct in LIMS?		✓			✓
10. For dilutions, is highest concentration hit ≥ 20% cal range and not above calibration range? *List samples and reason (e.g.,* elev1*):* Sample / Reason / Sample / Reason — elev 7 #12 can Only run 100ML			✓	□ [elev1] Elevated RL for due to sample matrix interferences. □ [elev3] Elevated RLs for all analytes due to difficult sample matrix. □ [elev4] Elevated RLs based on screening □ [elev5] Elevated RLs for all analytes due to presence of non-target compounds. □ [elev7] Elevated RLs due to sample volume	✓
11. If manual integrations were performed, are they clearly identified, initialed, dated and reason given & alternate hits verified.	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NA
C. Preparation QC					
1. System blank run every 24 hours prior to samples?		✓			✓
2. System blank surrogate recoveries within QC limits (60-140% R) ?		✓		**□ [mb1] All sample surrogates OK and there is no analyte >RL in samples associated with blank.***	✓
3. Are all analytes present in the system blank < RL? (1/2 RL for DoD). *If no, list blank ID:* _____		✓		**□ [mb3] No analyte > RL in associated samples.*** **□ [mb4] Sample results > 10x higher than blank.**	✓
4. DUP done per 20 samples and are all RPDs within limits? (for target analytes >5x RL, <25% RPD; no criteria for methanol and n-butanol) *If no, list DUP ID:*		✓			✓
5. Did the LCS meet criteria (70-130% with a limited # allowed 60-140% (see table) provisional analyte limit 60-140% with a limited # allowed 50-150%, and no two consecutive MEs). Note: Ohio does not allow for ME.		✓		□ [lcs6] LCS analyte(s) flagged as being outside control limits but within marginal limits □ [lcs5] LCS outside marginal exceedences high, but analytes were not detected LCS ID: _____	✓
D. Other					
1. Final report acceptable? (Results correct, RLs calculated correctly, units correct, surrogate %R correct, appropriate flags used, dilution factor correct, analysis dates correct.)		✓			✓
2. Are all nonconformances documented appropriately and copy included with deliverable?	✓				NA
4. Was a narrative prepared and all deviations noted?		✓		□ [1pt6]; □ [1pt11]; □ [1ptsur] □ [Extras]	✓
5. TO14A Autotext included in narrative (for TO14A samples only).	✓			□ [TO14]	NA
6. All target analytes on c.cal >30%D but passes LCS criteria noted in the narrative?	✓			□ [ccal] The ccal exhibited a %D ICAL >30% but passes LCS…list analytes on narrative.	NA

Number of target analytes in LCS	# marginal exceedances of LCS control limits allowed
>90	5
71 - 90	4
51 - 70	3
31 - 50	2
11 - 30	1
< 11	0

Analyst:	Date: 11/19/12	2nd Level Reviewer:	Date: 11/19/12

□ see following page for comments.

*Such action must be taken in consultation with client.

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 11/19/12
Time: 6:59:07

LEV 1	LEV 2		LEV 1	LEV 2	
_	_	Blank	_	_	Weights/Volumes
_	_	Check	_	_	Spike & Surrogate Worksheet
_	_	MS/MSD	_	_	Vial contains correct volume
_	_		_	_	Labels, greenbars, worksheets
			_	_	computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
_ Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: _____
_____
Concentrationist: _____
_____

****
* *
* **QC BATCH: 2324020** *
* *
****

PREP DATE: 11/18/12
COMP DATE: 11/19/12

Reviewer/Date: _____ / 0/00/00

Volatile Organics by GC/MS TO-15 low-level
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	11/23/12	H2K150429-001 **MXCPR-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	11/23/12	H2K150429-002 **MXCPT-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	11/23/12	H2K150429-003 **MXCPV-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	11/23/12	H2K150429-004 **MXCPW-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	11/23/12	H2K150429-005 **MXCPX-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	11/23/12	H2K150429-005 **MXCPX-2-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	11/23/12	H2K150429-006 **MXCP0-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 11/19/12
Time: 6:59:07

QC BATCH: 2324020

PREP DATE: 11/18/12
COMP DATE: 11/19/12

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	11/23/12	H2K150429-007 **MXCP1-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	11/23/12	H2K150429-008 **MXCP2-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	11/23/12	H2K150429-009 **MXCP4-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	11/23/12	H2K150429-010 **MXCP5-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	11/23/12	H2K150429-011 **MXCP7-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	11/23/12	H2K150429-012 **MXCP8-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	11/23/12	H2K150429-013 **MXCQA-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	11/23/12	H2K150429-014 **MXCQC-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	11/23/12	H2K150429-015 **MXCQD-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	0/00/00	H2K190000-020 **MXDMX-1-AAB**		88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 11/19/12
Time: 6:59:07

QC BATCH: 2324020

PREP DATE: 11/18/12
COMP DATE: 11/19/12

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	0/00/00	H2K190000-020 **MXDMX-1-ACC**		88	7M	AIR	**27mL** 27.00mL	NA	NA	NA		.0		.0	

COMMENTS:

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 18

TestAmerica Knoxville
Can Dilution Worksheet

Lot: *h2k150429* **Initial**

W/O #	Barometer inches Hg	Knoxville mm Hg	P init inches	P init Abs,mm	P final psig	P final Abs,mm	Dilution Factor	
MXC PR	29.05	737.9						
MXC PT	29.05	737.9						
MXC PV	29.05	737.9						
MXC PW	29.05	737.9						
MXC PX	29.05	737.9						
MXC P0	29.05	737.9						
MXC P1	29.05	737.9						
MXC P2	29.05	737.9						
MXC P4	29.05	737.9						
MXC P5	29.05	737.9						
MXC P7	29.05	737.9						
MXC P8	29.05	737.9	- 13.9	384.8	1.5	815.4	2.12	(P8,DF*200=424)
MXC QA	29.05	737.9						
MXC QC	29.05	737.9						
MXC QD	29.05	737.9						

1 psig = 2.036 inch Hg
Pinit(Abs,mm)=(Pinit(inch)*25.4mm/inch)+Pbar(mm)
Pfinal(Abs,mm)=(Pfinal(psig)*2.036 (inch Hg/psig)*25.4 (mm/inch))+Pbar(mm)
dilution factor = Pfinal(Abs,mm)/Pinit(Abs,mm)
mm-Hg = in-Hg * 25.4

Test America Knoxville GC/MS Volatiles

Lot ID: H2K150429 **Batch #:** 10161
Matrix: Air **Can #:** 03854
MethCod: 7m
Method: EPA-2 TO-15

Parameter	Result	Reporting Limit	Units
Carbon tetrachloride	ND	0.040	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)

Test America Knoxville GC/MS Volatiles

Lot ID: H2K150429 **Batch #:** 10164
Matrix: Air **Can #:** 1491
MethCod: 7m
Method: EPA-2 TO-15

Parameter	Result	Reporting Limit	Units
Carbon tetrachloride	ND	0.040	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)

Test America Knoxville GC/MS Volatiles

Lot ID: H2K150429 **Batch #:** 10164
Matrix: Air **Can #:** 0140
MethCod: 7m
Method: EPA-2 TO-15

Parameter	Result	Reporting Limit	Units
Carbon tetrachloride	ND	0.040	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)

Test America Knoxville GC/MS Volatiles

Lot ID: H2K150429 **Batch #:** 10171
Matrix: Air **Can #:** 12161
MethCod: 7m
Method: EPA-2 TO-15

Parameter	Result	Reporting Limit	Units
Carbon tetrachloride	ND	0.040	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)

Test America Knoxville GC/MS Volatiles

Lot ID: H2K150429 **Batch #:** 10172
Matrix: Air **Can #:** 1130
MethCod: 7m
Method: EPA-2 TO-15

Parameter	Result	Reporting Limit	Units
Carbon tetrachloride	ND	0.040	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)

Test America Knoxville GC/MS Volatiles

Lot ID: H2K150429 **Batch #:** 10173
Matrix: Air **Can #:** 12401
MethCod: 7m
Method: EPA-2 TO-15

Parameter	Result	Reporting Limit	Units
Carbon tetrachloride	ND	0.040	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)

Test America Knoxville GC/MS Volatiles

Lot ID: H2K150429 **Batch #:** 10178
Matrix: Air **Can #:** 9716b
MethCod: 7m
Method: EPA-2 TO-15

Parameter	Result	Reporting Limit	Units
Carbon tetrachloride	ND	0.040	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)

Test America Knoxville GC/MS Volatiles

Lot ID: H2K150429 **Batch #:** 10180
Matrix: Air **Can #:** 1121
MethCod: 7m
Method: EPA-2 TO-15

Parameter	Result	Reporting Limit	Units
Carbon tetrachloride	ND	0.040	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)

Sample Receipt Documentation

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

H2K150429

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	
Company:	NYSDEC
Address:	615 ERIE BLVD WEST
City/State/Zip	SYRACUSE NY
Phone:	
FAX:	315 426 2653
Project Name:	FORMER AXIOHM FAC.
Site/location:	ITHACA NY
PO #	

Project Manager: KAREN CAHILL
Phone: 315 426 7432
Site Contact:
TAL Contact:

Sampled By: CARL ALDRICH

___ of ___ COCs

Analysis Turnaround Time
Standard (Specify) ✓
Rush (Specify)

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, 'Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
56 SS	11/13-14/12	848	755	30	-5	K279B	2954	X	~~X~~	~~X~~	~~X~~				~~X~~	~~X~~			X
56 BA1		849	755	29	-5	K387	7511	X							X	~~X~~			~~X~~
56 AA2		850	758	30	-4	K217	12401	X							X	~~X~~			~~X~~
56 AA		850	754	30	-5	K168	12730	X							~~X~~	X			~~X~~
57 SS		1040	900	30	-4	K440	12622	X											X
57BA	11/13-14/12	1040	900	30	-4	K507	93183	X							X				

Sampled by :
CARL ALDRICH

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

3 Boxes NO CUSTODY SEALS
RECEIVED @ AMBIENT TEMP
R.H 11/15/12
3 BOXES FED EX MSTR # 410858088913
15 CANS, 15 FLOWS, 11 CANDY CANES

Special Instructions/QC Requirements & Comments:
OTHER = SUB SLAB
SEND COPY OF RESULTS TO MRYAN@AZTECHTECH.COM
CAT B DELIVERABLES

Canisters Shipped by:	Date/Time:	Canisters Received by: [signature]	11/15/12 ~~13:48~~ 10:00 R.H 11/15/12
Samples Relinquished by: [signature]	Date/Time: 11/14/12 345	Received by: [signature]	
Relinquished by: [signature] 11/14/	Date/Time: 11/14/12 1700	Received by:	

H2K130429

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: KAREN CAHILL	Sampled By: CARL ALDRICH	___ of ___ COCs
Company: AECOM	Phone: 315 426 7432		
Address: 615 ERIE BLVD WEST	Site Contact:		
City/State/Zip SYRACUSE NY	TAL Contact:		
Phone:			
FAX: 315 426 2653			
Project Name: FORMER AXIOM FAC.	Analysis Turnaround Time		
Site/location: ITHACA NY	Standard (Specify) X		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
57 AA	11/13-14/12	1040	815	-20	-0	K325	0140	X								X			
58 SA		1100	1002	30	-4	K426	7489	X							X	X			
58 AA		1101	1002	30	-4	K380	04337	X								X			
59 SS		1246	1210	29	-3	K478	12161	X											X
59 SA		1245	1200	30	-3	K398	93097	X							X				
59 AA	11/13-14/12	1245	1205	30	-16	K442	C3854	X								X			

Sampled by :
CARL

Temperature (Fahrenheit)			
	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)			
	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:
OTHER IS SUB SLAB
SEND COPY OF RESULTS TO MRYAN@AZTECHTECH.COM
59 AA - FAULTY REGULATOR
CAT B DELIVERABLES

Canisters Shipped by:	Date/Time:	Canisters Received by: Rita Hancock 11/15/12 10:00
Samples Relinquished by:	Date/Time: 11/14/12 345	Received by:
Relinquished by:	Date/Time: 11/14/12 1700	Received by:

R.H. 11/15/12

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

H2K150429

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	**Project Manager:** KAREN CAHILL	**Sampled By:** CARL ALGIERI
Company: NYSDEC	Phone: 315 426 7432	___ of ___ COCs
Address: 615 ERIE BLVD WEST	Site Contact:	
City/State/Zip SYRACUSE NY	TAL Contact:	
Phone:		
FAX: 315 426 2653		
Project Name:	**Analysis Turnaround Time**	
Site/location:	Standard (Specify) ✓	
PO #	Rush (Specify)	

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
DUP 55	11/13 14/12			29	-3	K277	1491	X											X
DUP BA	11/13 14/12			-29	-3	K106	6529	X							X				
DUP AA	11/13 14/12			29	-4	K403	97160	X								X			

Sampled by :

	Temperature (Fahrenheit)		
	Interior	Ambient	
Start			
Stop			

	Pressure (inches of Hg)		
	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:
~~GETINFO SUB~~ OTHER IS SUBSLAB CAT B DELIVERABLES
SEND COPY OF RESULTS TO MARIAN@AZTECHTECH.COM

Canisters Shipped by:	Date/Time:	Canisters Received by: R. Hancock 11/15/12 10:00
Samples Relinquished by:	Date/Time: 11/14/12 345	Received by:
Relinquished by:	Date/Time: 11/14/12 1700	Received by:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: 1-12K1504Z4

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)		X		☒ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☐ **1g** Other:	1A COC ID's DUP SS, DUP BA, DUP AA TAGS READ DUP MATCHED by CAN ID's Log by COC
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C)			X	☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____ ☐ **2c** Cooling initiated for recently collected samples, ice present.	4A
3. Were samples received with correct chemical preservative (excluding Encore)?			X	☐ **3a** Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?		X		☐ **4a** Not present ☐ **4b** Not intact ☐ **4c** Other:	
5. Were all of the samples listed on the COC received?	X			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC	
6. Were all of the sample containers received intact?	X			☐ **6a** Leaking ☐ **6b** Broken	
7. Were VOA samples received without headspace?			X	☐ **7a** Headspace (VOA only)	
8. Were samples received in appropriate containers?	X			☐ **8a** Improper container	
9. Did you check for residual chlorine, if necessary?			X	☐ **9a** Could not be determined due to matrix interference	
10. Were samples received within holding time?	X			☐ **10a** Holding time expired	
11. For rad samples, was sample activity info. provided?			X	☐ Incomplete information	
12. For 1613B water samples is pH<9?			X	If no, was pH adjusted to pH 7 - 9 with sulfuric acid? _____	
13. Are the shipping containers intact?	X			☐ **13a** Leaking ☐ **13b** Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	X			☐ **14a** Not relinquished	
15. Are tests/parameters listed for each sample?	X			☐ **15a** Incomplete information	
16. Is the matrix of the samples noted?	X			☐ **15a** Incomplete information	
17. Is the date/time of sample collection noted?	X			☐ **15a** Incomplete information	
18. Is the client and project name/# identified?	X			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?	X				

Quote #: 91021 PM Instructions: NA

Sample Receiving Associate: Rita Hancock Date: 11/15/12

QA026R22.doc, 012811

Test America - Knoxville ---- Air Canister Dilution Log

Lot Number: *H2K150429*

Initial Can Pressure							Subsequent Dilutions											
Analyst/Date	Tedlar Bag Time	Pbarr (in)	Sample ID	Can #	Pres. upon receipt (-in or + psig)	Adj. Initial Pres. (-in or + psig)	Analyst/Date	I / S	Pbarr (in)	Initial Pres. Pi (in)	Final Pres. Pf (psig)	First InCan Final Pres. Pf (psig)	Second In-can Final Pres. Pf (psig)	Third InCan Final Pres. Pf (psig)	Serial Dilution Can #	Vol (mL)	Final Pres. Pf (psig)	Comments
DDF 11-5-12	NA	29.05	MXCPR	2954	-35													10180
			MXCPT	7511	-4.2													"
			MXCPV	12401	-2.5													10173
			MXCPW	12730	-1.9													10172
			MXCPX	12622	-2.5													"
			MXCP0	93183	-1.7													"
			MXCP1	0140	-1.3													10164
			MXCP2	7489	-3.1													10172
			MXCP4	04337	-1.9													"
			MXCP5	12161	0													10171
			MXCP7	93097	-1.1													10172
			MXCP8	03854	-13.9	+1.5												10161
			MXCQA	1491	-2.7													10164
			MXCQC	6529	-2.8													10180
"	"	"	MXCQD	9716B	-2.4													10178

Appendix B

NYSDEC SVI

Initial Structure Sampling Building Questionnaire and Field Logs

Aztech
Technologies, Inc.

Soil Vapor Intrusion - Initial Structure Sampling Building Questionnaire **Structure ID :** 56

Site No. : 56-C755012A **Site Name :** Former Axiohm Facility Offsite

Structure Address : Ithaca NY

Preparer's Name & Company : CARL ALDRICH AZTECH Technologies Inc.

Residential ? ☒ Yes ☐ No **Owner Occupied ?** ☐ Yes ☐ No **Owner Interviewed ?** ☐ Yes ☐ No

Commercial ? ☐ Yes ☒ No **Industrial ?** ☐ Yes ☒ No **Mixed Uses ?** ☐ Yes ☒ No

Identify all non-residential use(s): None

Owner Name : **Owner Phone :**

Owner Phone (Secondary) :

Owner Address (if different) :

Occupant Name : **Occupant Phone :** ( )

Occupant Phone (Secondary) : ( )

Additional Owner/ Occupant Information (availability, special mailing instructions) :

Describe Building (style, number floors, size) : SINGLE STORY + BASEMENT

Approximate **Year Built :** 1945 **Is the building insulated?** ☒ Yes ☐ No

Lowest level : ☐ Slab-on-grade ☒ Basement ☐ Crawlspace

Describe Lowest Level (floor construction, finishing, use) ½ CONCRETE FLOOR / FINISHED INTO OFFICE + BEDROOM

Floor Type: ☒ Concrete Slab ☐ Dirt ☐ Mixed :

Floor Condition : ☒ Good (few or no cracks) ☐ Average (some cracks) ☐ Poor (broken concrete or dirt)

Sumps / drains? ☒ Yes ☐ No Describe : FLOOR DRAIN

Identify other floor penetrations & details :

Wall Construction : ☒ Concrete Block ☐ Poured Concrete ☐ Laid-Up Stone

Identify any wall penetrations :

Identify water, moisture, or seepage: location & severity (sump, cracks, stains, etc) : NONE

Heating Fuel : ☐ Oil ☒ Gas ☐ Wood ☐ Electric ☐ Other

Heating System : ☒ Forced Air ☐ Hot Water ☒ Other : WOOD STOVE

Hot Water System : ☒ Combustion ☐ Electric

Clothes Dryer : ☐ Electric ☐ Gas Where is dryer **vented** to? O

IF combustion occurs describe where air comes from (cold air return, basement, external air, etc.) :

Soil Vapor Intrusion - Initial Structure Sampling Building Questionnaire **Structure ID :** 56

Air Conditioning: ☐ Central Air ☐ Window Units ☒ Fans

Fans & Vents (identify where fans/vents pull air from and where they vent/exhaust to) : _____

_____

Describe factors that may affect indoor air quality (chemical use/storage, unvented heaters, smoking, workshop):

_____

Attached Garage ? ☐ Yes ☒ No Air fresheners ? ☐ Yes ☒ No

New carpet or furniture ? ☐ Yes ☒ No What / Where ? _____

Recent **painting** or **staining** ? ☐ Yes ☒ No Where ? _____

Any **solvent** or **chemical-like** odors ? ☐ Yes ☒ No Describe : _____

Last time **Dry Cleaned** fabrics brought in ? 1 WK What / Where ? _____

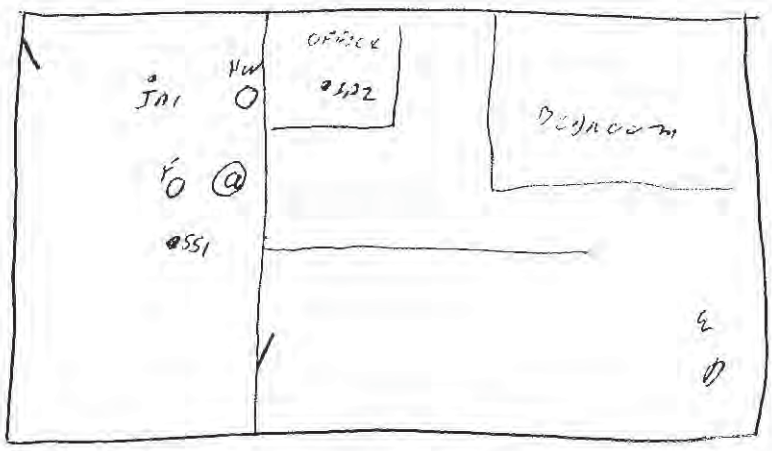
Do any building occupants use solvents at work ? ☐ Yes ☒ No Describe : _____

Any testing for Radon ? ☒ Yes ☐ No Results : NEG

Radon System present ? ☐ Yes ☐ No Describe : _____

9 UA

Lowest Building Level Layout Sketch



- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify the room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or F	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	**xxxxxxx**	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	**######**	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling Field Log

Site Number & Name: C7550121A - Former Axiohm Facility Structure ID: 56

Samplers & Company: CARL ALANECH AZTECH Sample Date: 11/13/12

Structure Address: Phone Number:

Owner Name and Address (if different):

Weather & Outdoor Temperature: 36°F, Rain, Cloudy

Slab Condition: ☐ Dirt Floor ☐ Poor (major cracks) ☐ Average (some cracks) ☒ Good (minor cracks)

Floor Penetrations: (select all present) ☐ Sump Pit ☒ Floor Drain ☐ Perimeter Drain ☐ Other Describe:

Standing Water: (select all present) Basement is Dry ☒ | Floor Penetrations are Damp ☐ | Standing Water in Floor Penetrations ☐ | Standing Water on Basement Floor ☐

Building Questionnaire Completed: ☒ Yes ☐ No Product Inventory Completed: ☒ Yes ☐ No Layout Sketch Completed: ☒ Yes ☐ No

Sample ID:	56-SS	~~146 SA 1~~ 56BA1	~~146 SA 2~~ 56BA2	~~146 SA~~ 56 AA	
Location Description:				OUTSIDE	
Canister ID:	2554	7511	12401	12730	
Regulator ID:	K279B	K387	K217	K164	
Slab Thickness:	6"				
Sub-Slab Material:					
Sub-Slab Moisture: (Dry, Damp, Saturated)					
Seal Type:	TEFLON CLAY				
Pre-Sample Leak Detection					
% Helium in Chamber:	92.5				
Purge Volume:	2L				
% Helium in Tedlar:	0				
Purge Air PID Reading:	425 PPB				
Sample Times and Vacuum Readings					
Canister Vol:	☐ 6L Other:	☐ 6L Other:	☐ 6L Other:	☐ 6L Other:	☐ 6L Other:
Sample Start Time:	848	849	850	850	
Vacuum Gauge Start:	-30	-29	-30	-30 HG	
Sample End Time:	755	755	758	754	
Vacuum Gauge End:	-5	-5	-4	-5	
Post-Sample Leak Detection					
% Helium in Chamber:	90%				
% Helium in Tedlar:	0				
Purge Air PID Reading:	200 PPB				

Drill Holes Sealed: ☒ ☐ ☐ ☐ ☐

Structure Sampling - Product Inventory

Homeowner Name & Address:

Date: 11/13/12

Samplers & Company: Carl Andreck Aztech Technologies, Inc

Structure ID: 156

Site Number & Name: C755012A - Former Axiohm Facility

Phone Number:

Make & Model of PID: PPB RAE 3000

Date of PID Calibration: 11/13/12

Identify any Changes from Original Building Questionnaire : N/A

Product Name/Description	Quantity	Chemical Ingredients	PID Reading	Location
LATEX PAINT	11 GAL			
GOOF OFF	4.5 OZ		2.6 PPM	
QUICKRETE				
BEN MOORE SUPER SPEC	1 GAL		37 PPB	
PRATT & LAMBERT LATEX PAINT	1 QT			
BEN MOORE ACRYLIC	1 QT		36 PPB	
DAP RUBBER CEMENT	2 BTLS		71 PPB	
3M PAINT STRIP	1 QT		—	
WD 40	8 OZ X2		1.1 PPM	
SHER WILLIAMS			16 PPM	
QUICKRETE BONDING ADHESIVE	1 QT		21 PPB	
LAUNDRY PROD			—	
DRANO	32 OZ	X2	—	
RESOLVE CARPET CLEANER			29 —	
RUG DOCTOR	24 OZ	SPRAY	—	
KAR SPOTLIFTER	5 OZ	AEROSOL X2	231 PPB CAN	
SPOTSHOT	14 OZ	"	—	

Soil Vapor Intrusion - Initial Structure Sampling Building Questionnaire Structure ID : 57

Site No. : 57-C755012A Site Name : Former Axiohm Facility offsite

Structure Address : Ithaca NY

Preparer's Name & Company : CARL ALDRICH AZTECH Technologies, Inc.

Residential ? ☒ Yes ☐ No Owner Occupied ? ☒ Yes ☐ No Owner Interviewed ? ☒ Yes ☐ No

Commercial ? ☐ Yes ☒ No Industrial ? ☐ Yes ☒ No Mixed Uses ? ☐ Yes ☒ No

Identify all non-residential use(s): None

Owner Name : Owner Phone :

Owner Phone (Secondary) :

Owner Address (if different) :

Occupant Name : Occupant Phone : ( ) -

Occupant Phone (Secondary) : ( ) -

Additional Owner/ Occupant Information (availability, special mailing instructions) :

Describe Building (style, number floors, size) : Single story

Approximate Year Built : NA Is the building insulated? ☒ Yes ☐ No

Lowest level : ☐ Slab-on-grade ☒ Basement ☐ Crawlspace

Describe Lowest Level (floor construction, finishing, use) :

Floor Type: ☒ Concrete Slab ☐ Dirt ☐ Mixed :

Floor Condition : ☒ Good (few or no cracks) ☐ Average (some cracks) ☐ Poor (broken concrete or dirt)

Sumps / drains? ☒ Yes ☐ No Describe : Sump Pump

Identify other floor penetrations & details :

Wall Construction : ☒ Concrete Block ☐ Poured Concrete ☐ Laid-Up Stone

Identify any wall penetrations : windows

Identify water, moisture, or seepage: location & severity (sump, cracks, stains, etc) :

Heating Fuel : ☐ Oil ☒ Gas ☐ Wood ☐ Electric ☐ Other

Heating System : ☒ Forced Air ☐ Hot Water ☐ Other :

Hot Water System : ☒ Combustion ☐ Electric

Clothes Dryer : ☒ Electric ☐ Gas Where is dryer vented to? Outside

IF combustion occurs describe where air comes from (cold air return, basement, external air, etc.) :

Soil Vapor Intrusion - Initial Structure Sampling Building Questionnaire Structure ID : 57

Air Conditioning : ☐ Central Air ☐ Window Units ☐ Fans

Fans & Vents (identify where fans/vents pull air from and where they vent/exhaust to) : _____

_____

Describe factors that may affect indoor air quality (chemical use/storage, unvented heaters, smoking, workshop):

_____

Attached Garage ? ☒ Yes ☐ No Air fresheners ? ☐ Yes ☐ No

New carpet or furniture ? ☐ Yes ☒ No What / Where ? _____

Recent **painting** or **staining** ? ☒ Yes ☐ No Where ? _____

Any **solvent** or **chemical-like** odors ? ☐ Yes ☒ No Describe : _____

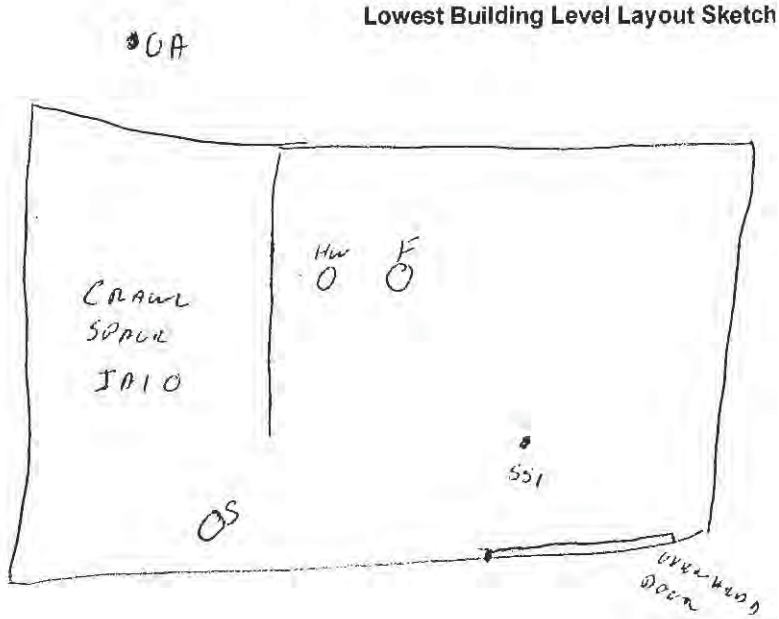
Last time **Dry Cleaned** fabrics brought in ? _____ What / Where ? _____

Do any building occupants use solvents at work ? ☐ Yes ☒ No Describe : _____

Any testing for Radon ? ☐ Yes ☒ No Results : _____

Radon System present ? ☐ Yes ☒ No Describe : _____

Lowest Building Level Layout Sketch



- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify the room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or F	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	xxxxxxx	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	######	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes

Structure Sampling Field Log

Site Number & Name: S7-C755012A - Former Axion Facility Structure ID: 57

Samplers & Company: Carl Aldrich Aztech Technologies Inc Sample Date: 11/13/12

Structure Address: Ithaca NY Phone Number:

Owner Name and Address (if different):

Weather & Outdoor Temperature: 36F, Rain, Cloudy

Slab Condition: ☐ Dirt Floor ☐ Poor (major cracks) ☐ Average (some cracks) ☒ Good (minor cracks)

Floor Penetrations: (select all present) ☒ Sump Pit ☐ Floor Drain ☐ Perimeter Drain ☐ Other Describe:

Standing Water: (select all present) Basement is Dry ☒ | Floor Penetrations are Damp ☐ | Standing Water in Floor Penetrations ☐ | Standing Water on Basement Floor ☐

Building Questionnaire Completed: ☒ Yes ☐ No Product Inventory Completed: ☒ Yes ☐ No Layout Sketch Completed: ☒ Yes ☐ No

Sample ID:	S7 SS	S7 BA	S7 AA		
Location Description:					
Canister ID:	12622	93183	0140		
Regulator ID:	K440	K507	K325		
Slab Thickness:					
Sub-Slab Material:					
Sub-Slab Moisture: (Dry, Damp, Saturated)					
Seal Type:	Teflon/Clay				
Pre-Sample Leak Detection					
% Helium in Chamber:	94%				
Purge Volume:	2L				
% Helium in Tedlar:	0				
Purge Air PID Reading:	25 PPB				
Sample Times and Vacuum Readings					
Canister Vol:	☐ 6L Other:	☐ 6L Other:	☐ 6L Other:	☐ 6L Other:	☐ 6L Other:
Sample Start Time:	1040	1040	1040		
Vacuum Gauge Start:	-30	-30	-20		
Sample End Time:	900	900	815		
Vacuum Gauge End:	-4	-4	0		
Post-Sample Leak Detection					
% Helium in Chamber:	91%				
% Helium in Tedlar:	0				
Purge Air PID Reading:	0				
Drill Holes Sealed:	☒	☐	☐	☐	☐

Structure Sampling - Product Inventory

Homeowner Name & Address: _____ Date: 11/13/12

Samplers & Company: CARL ALBRECH AZTECH Technologies, Inc. Structure ID: 57

Site Number & Name: C755012A - Former Axiom Facility Phone Number: _____

Make & Model of PID: PPB BAE Plus Date of PID Calibration: 11/13/12

Identify any Changes from Original Building Questionnaire : NA

Product Name/Description	Quantity	Chemical Ingredients	PID Reading	Location
[illegible] GLASS SPRAY	2-12 oz		3619 PPB	
WD40	13.5 oz		—	
DAP FOAM SEAL	12 oz		50 PPB	
BLADE + BIT CLEANER	8.45 oz-2		—	
BEHR WOOD GLAZE [illegible]	1QT		8 PPB	
UNKNOWN PAINT [illegible]	1QT		25 PPB	
2-IN SAFE	1QT		—	
MH READY PATCH @ PACKING COMP	1QT		1248	
MINERAL SPIRITS FLOOR FINISH	1QT	PETROLEUM DIST.	1171	
BEHR FINISH	1QT		25	
BEHR PRIMER	1PT		172	
MINWAX WOOD FINISH	1/2 PT		—	
DAP GLAZING	1/2 PT		—	
BENT METAL SPACERS	1/2 PT		—	
LATEX PAINT	4GAL		-	
LATEX PAINT	4QT		-	
JOINT COMPOUND	1GAL		—	
MINWAX	2QT		12	
ZINSER SEALER	1QT		—	
FLOOR STRIP STRIPPER	32 oz	ETHYLENE GLYCOL MONO BUTYL ETHER 3PA METHANOL NITRIMURIATE CHLORIDE	16	

Structure Sampling - Product Inventory

Homeowner Name & Address: ____________________

Date: 11/13/12

Samplers & Company: CARL ALDRICH Aztech Technologies Inc

Structure ID: 57

Site Number & Name: C755012A - Former Axiohm Facility

Phone Number: ( )

Make & Model of PID: PPB RAE PLUS

Date of PID Calibration: 11/13/12

Identify any Changes from Original Building Questionnaire: NA

Product Name/Description	Quantity	Chemical Ingredients	PID Reading	Location
MASTER SOLVENT	1 QT	ETHANOL ISOBUTANOL	856	
WATCO OIL FINISH	1 QT		—	
TITEBOND WOOD GLUE	16 OZ		50	
OLYMPIC STAIN	1 QT		—	
TILE GUARD GROUT SEALER	1 PT		37	
OOPS	1 PT	V M&P NAPTHA XYLENE ETHYL ALC MONOCLOROTOLUENE	1476	
GOOF OFF	32 OZ	PETROLEUM DIST	6767	
SAVOGRAN DEGLOSSER	1 PT	ETHANOL METHYLENE CHLORIDE PETROLEUM DIST	3859	
PARKS STRIPPER	32 OZ	N-METHYL-2-PYRROLIDONE	328	
OATY PVC CLEANER	4 OZ	MEK ACETONE	19 PPM	
OATEY PRIMER	4 OZ	MEK ↑	3560 PPB	
OATEY PRIMER	8 OZ	MEK [illegible] CYCLOHEXANONE TETRAHYDROFURAN ACETONE	1999 PPM OVER	

Soil Vapor Intrusion - Initial Structure Sampling Building Questionnaire Structure ID : 58

Site No. : 58-C755012A Site Name : Former Axicom Facility Offsite

Structure Address : Ithaca No

Preparer's Name & Company : CARL ALDRICH Aztech Technologies Inc.

Residential ? ☒ Yes ☐ No Owner Occupied ? ☐ Yes ☒ No Owner Interviewed ? ☐ Yes ☒ No

Commercial ? ☐ Yes ☒ No Industrial ? ☐ Yes ☒ No Mixed Uses ? ☐ Yes ☒ No

Identify all non-residential use(s): None

Owner Name : _____ Owner Phone : ( ) _____ - _____

Owner Phone (Secondary) : ( ) _____ - _____

Owner Address (if different) : _____

Occupant Name : _____ Occupant Phone : ( ) _____ - _____

Occupant Phone (Secondary) : ( ) _____ - _____

Additional Owner/ Occupant Information (availability, special mailing instructions) : NA, email - _____

Describe Building (style, number floors, size) : APT BUILDING 3 FLOORS & BASEMENT

Approximate Year Built : NA Is the building insulated? ☒ Yes ☐ No

Lowest level : ☐ Slab-on-grade ☒ Basement ☐ Crawlspace

Describe Lowest Level (floor construction, finishing, use) : Basement, minor storage

Floor Type: ☐ Concrete Slab ☒ Dirt ☐ Mixed : _____

Floor Condition : ☐ Good (few or no cracks) ☐ Average (some cracks) ☒ Poor (broken concrete or dirt)

Sumps / drains? ☐ Yes ☒ No Describe : _____

Identify other floor penetrations & details : _____

Wall Construction : ☐ Concrete Block ☒ Poured Concrete ☐ Laid-Up Stone

Identify any wall penetrations : _____

Identify water, moisture, or seepage: location & severity (sump, cracks, stains, etc) : _____

Heating Fuel : ☐ Oil ☐ Gas ☐ Wood ☐ Electric ☐ Other

Heating System : ☐ Forced Air ☐ Hot Water ☐ Other : _____

Hot Water System : ☐ Combustion ☐ Electric

Clothes Dryer : ☐ Electric ☐ Gas Where is dryer vented to? _____

IF combustion occurs describe where air comes from (cold air return, basement, external air, etc.) : _____

Soil Vapor Intrusion - Initial Structure Sampling Building Questionnaire

Structure ID : 58

Air Conditioning: ☐ Central Air ☐ Window Units ☒ Fans

Fans & Vents (identify where fans/vents pull air from and where they vent/exhaust to) : _____

_____

Describe factors that may affect indoor air quality (chemical use/storage, unvented heaters, smoking, workshop):

_____

Attached Garage ? ☐ Yes ☑ No Air fresheners ? ☐ Yes ☐ No

New carpet or furniture ? ☐ Yes ☒ No What / Where ? _____

Recent **painting** or **staining** ? ☐ Yes ☒ No Where ? _____

Any **solvent** or **chemical-like** odors ? ☐ Yes ☒ No Describe : _____

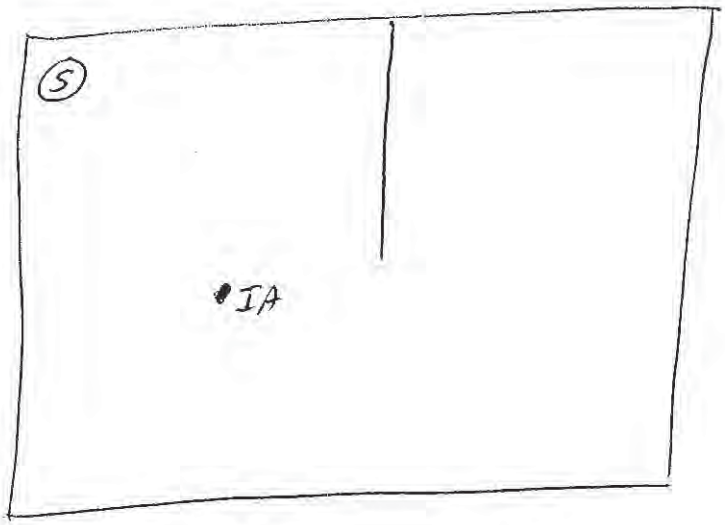
Last time **Dry Cleaned** fabrics brought in ? _____ What / Where ? _____

Do any building occupants use solvents at work ? ☐ Yes ☐ No Describe : _____

Any testing for Radon ? ☐ Yes ☐ No Results : _____

Radon System present ? ☐ Yes ☐ No Describe : _____

Lowest Building Level Layout Sketch



OA1

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify the room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or **F**	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	xxxxxxx	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	######	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling Field Log

Site Number & Name: C75501 2A Former Axiohm Facility Structure ID: 58

Samplers & Company: Carl Aldrich, Aztech Technologies Sample Date: 11/13/14

Structure Address: [redacted] Phone Number: NA

Owner Name and Address (if different):

Weather & Outdoor Temperature: 36°F Rain, Cloudy

Slab Condition: ☒ Dirt Floor ☐ Poor (major cracks) ☐ Average (some cracks) ☐ Good (minor cracks)

Floor Penetrations: (select all present) ☒ Sump Pit ☐ Floor Drain ☐ Perimeter Drain ☐ Other Describe:

Standing Water: (select all present) Basement is Dry ☒ | Floor Penetrations are Damp ☐ | Standing Water in Floor Penetrations ☐ | Standing Water on Basement Floor ☐

Building Questionnaire Completed: ☐ Yes ☐ No Product Inventory Completed: ☒ Yes ☐ No Layout Sketch Completed: ☐ Yes ☐ No

Sample ID:	58BA	58AA			
Location Description:	Basement				
Canister ID:	7459	04337			
Regulator ID:	K426	K350			
Slab Thickness:					
Sub-Slab Material:					
Sub-Slab Moisture: (Dry, Damp, Saturated)					
Seal Type:					
Pre-Sample Leak Detection					
% Helium in Chamber:					
Purge Volume:		5 L			
% Helium in Tedlar:					
Purge Air PID Reading:					
Sample Times and Vacuum Readings					
Canister Vol:	☐ 6L Other:	☐ 6L Other:	☐ 6L Other:	☐ 6L Other:	☐ 6L Other:
Sample Start Time:	1100	1104			
Vacuum Gauge Start:	30	-30			
Sample End Time:	1007	1002			
Vacuum Gauge End:	-4	-4			
Post-Sample Leak Detection					
% Helium in Chamber:					
% Helium in Tedlar:					
Purge Air PID Reading:					
Drill Holes Sealed:	☐	☐	☐	☐	☐

Structure Sampling - Product Inventory

Homeowner Name & Address:

Date: 11/13/12

Samplers & Company: Carl Aldrich - Aztech Technologies

Structure ID: 58

Site Number & Name: C755012A - Former Axiohm Facility

Phone Number: NA

Make & Model of PID: PPB RAE Plus

Date of PID Calibration: 11/13/12

Identify any Changes from Original Building Questionnaire : NA

Product Name/Description	Quantity	Chemical Ingredients	PID Reading	Location
		NONE		

Soil Vapor Intrusion - Initial Structure Sampling Building Questionnaire Structure ID : 59

Site No. : C755012A Site Name : Former Axiohm Facility Offsite

Structure Address :

Preparer's Name & Company : CARL ALDRICH AZTECH Technologies, Inc.

Residential ? ☒ Yes ☐ No Owner Occupied ? ☒ Yes ☐ No Owner Interviewed ? ☒ Yes ☐ No

Commercial ? ☐ Yes ☒ No Industrial ? ☐ Yes ☒ No Mixed Uses ? ☐ Yes ☒ No

Identify all non-residential use(s): None

Owner Name : Owner Phone :

Owner Phone (Secondary) : ( ) -

Owner Address (if different) :

Occupant Name : Occupant Phone : ( ) -

Occupant Phone (Secondary) : ( ) -

Additional Owner/ Occupant Information (availability, special mailing instructions) :

Describe Building (style, number floors, size) : BASEMENT & 2 FLOORS

Approximate Year Built : Is the building insulated? ☒ Yes ☐ No

Lowest level : ☒ Slab-on-grade ☒ Basement ☐ Crawlspace

Describe Lowest Level (floor construction, finishing, use) : BASEMENT LAMINATE

Floor Type: ☒ Concrete Slab ☐ Dirt ☐ Mixed :

Floor Condition : ☒ Good (few or no cracks) ☐ Average (some cracks) ☐ Poor (broken concrete or dirt)

Sumps / drains? ☒ Yes ☐ No Describe : FLOOR SUMP

Identify other floor penetrations & details :

Wall Construction : ☐ Concrete Block ☒ Poured Concrete ☐ Laid-Up Stone

Identify any wall penetrations : WINDOWS

Identify water, moisture, or seepage: location & severity (sump, cracks, stains, etc) : NONE

Heating Fuel : ☐ Oil ☒ Gas ☐ Wood ☐ Electric ☐ Other

Heating System : ☒ Forced Air ☐ Hot Water ☐ Other :

Hot Water System : ☒ Combustion ☐ Electric

Clothes Dryer : ☒ Electric ☐ Gas Where is dryer vented to? OUTSIDE

IF combustion occurs describe where air comes from (cold air return, basement, external air, etc.) :

Soil Vapor Intrusion - Initial Structure Sampling Building Questionnaire Structure ID : 59

Air Conditioning : ☐ Central Air ☐ Window Units ☒ Fans

Fans & Vents (identify where fans/vents pull air from and where they vent/exhaust to) : _____

_____

Describe factors that may affect indoor air quality (chemical use/storage, unvented heaters, smoking, workshop):

_____

Attached Garage ? ☐ Yes ☒ No Air fresheners ? ☐ Yes ☒ No

New carpet or furniture ? ☐ Yes ☒ No What / Where ? _____

Recent **painting** or **staining** ? ☐ Yes ☒ No Where ? _____

Any **solvent** or **chemical-like** odors ? ☐ Yes ☒ No Describe : _____

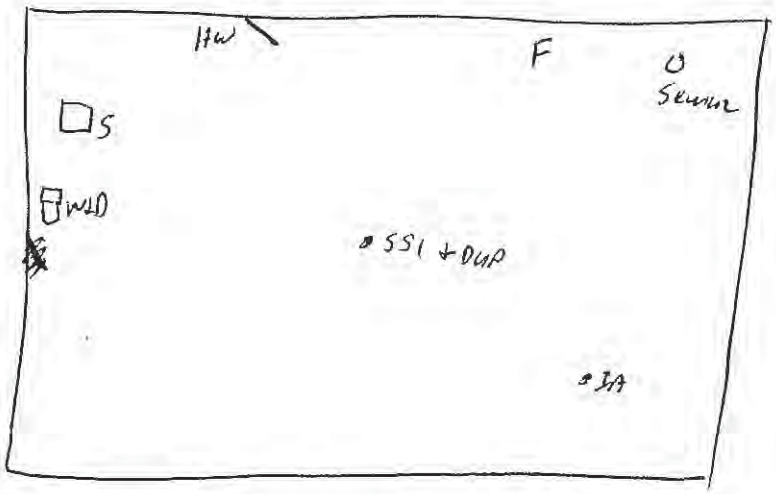
Last time **Dry Cleaned** fabrics brought in ? _____ What / Where ? _____

Do any building occupants use solvents at work ? ☐ Yes ☒ No Describe : _____

Any testing for Radon ? ☒ Yes ☐ No Results : N.D.

Radon System present ? ☐ Yes ☒ No Describe : _____

Lowest Building Level Layout Sketch



- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify the room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or F	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	xxxxxxx	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	######	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes

Structure Sampling Field Log

Site Number & Name: C755012A Former Axiohm Facility Structure ID: 59

Samplers & Company: CARL ALDRICH Sample Date: 11/13/12

Structure Address: Ithaca Ny Phone Number:

Owner Name and Address (if different):

Weather & Outdoor Temperature: Cloudy, Cool, Rain 36°F

Slab Condition: ☐ Dirt Floor ☐ Poor (major cracks) ☐ Average (some cracks) ☒ Good (minor cracks)

Floor Penetrations: (select all present) ☒ Sump Pit ☐ Floor Drain ☐ Perimeter Drain ☐ Other Describe:

Standing Water: (select all present) Basement is Dry ☒ | Floor Penetrations are Damp ☐ | Standing Water in Floor Penetrations ☐ | Standing Water on Basement Floor ☐

Building Questionnaire Completed: ☒ Yes ☐ No Product Inventory Completed: ☒ Yes ☐ No Layout Sketch Completed: ☒ Yes ☐ No

Sample ID:	5955	59BA	59AA		
Location Description:	CENTER OF FLOOR	BSMT			
Canister ID:	12161	93097	03854		
Regulator ID:	K476	K358	K442		
Slab Thickness:					
Sub-Slab Material:					
Sub-Slab Moisture: (Dry, Damp, Saturated)					
Seal Type:	TEFLON + CLAY				
Pre-Sample Leak Detection					
% Helium in Chamber:	90%				
Purge Volume:	2L				
% Helium in Tedlar:	25 PPM				
Purge Air PID Reading:	97 PPB				
Sample Times and Vacuum Readings					
Canister Vol:	☐ 6L Other:	☐ 6L Other:	☐ 6L Other:	☐ 6L Other:	☐ 6L Other:
Sample Start Time:	~~1245~~ 1246	1245	1245		
Vacuum Gauge Start:	-29	-30	-30		
Sample End Time:	1210	1205	1200		
Vacuum Gauge End:	-3	-16	-3	FINAL PRESSURE	
Post-Sample Leak Detection					
% Helium in Chamber:	91%				
% Helium in Tedlar:	20 PPM				
Purge Air PID Reading:	50 PPB				

Drill Holes Sealed: ☒ ☐ ☐ ☐ ☐

Structure Sampling Field Log

SUB SLAB SOIL GAS PARAMETERS

Sample ID:					
CH_4 - ppm					
O_2 %					
CO_2 ppm					
H_2S ppm					

ADDITIONAL SAMPLES

Sample ID:	[redacted] 59SS Dup	[redacted] 59BA Dup	[redacted] 59AA Dup		
Location Description:	Center of Slab	on Bnd			
Canister ID:	1491	6529	9716-B		
Regulator ID:	K277	K106	K403		
Slab Thickness:					
Sub-Slab Material:					
Sub-Slab Moisture: (Dry, Damp, Saturated)					
Seal Type:	Teflon Clay				
Pre-Sample Leak Detection					
% Helium in Chamber:	90%				
Purge Volume:	2L				
% Helium in Tedlar:	25 PPM				
Purge Air PID Reading :	97 QS				
Sample Times and Vacuum Readings					
Caniter Volume:	☐ 6L Other:	☐ 6L Other:	☐ 6L Other:	☐ 6L Other:	☐ 6L Other:
Sample Start Time:	1246	1245	1245		
Vacuum Gauge Start:	-29	-29	-29		
Sample End Time:	1210	1205	1200		
Vacuum Gauge End:	-3	-3	-3		
Post-Sample Leak Detection					
% Helium in Chamber:	" "				
% Helium in Tedlar:	" "				
Purge Air PID Reading :	" "				
Drill Holes Sealed:	☒	☐	☐	☐	☐
General Comments:					

Structure Sampling - Product Inventory

Homeowner Name & Address:

Date: 11/13/12

Samplers & Company: Carl Aldrich Aztech Technologies INC.

Structure ID: 54

Site Number & Name: C255012A Former Axion Facility

Phone Number:

Make & Model of PID: ppb RAE Plus

Date of PID Calibration: 11/13/12

Identify any Changes from Original Building Questionnaire : N/A

Product Name/Description	Quantity	Chemical Ingredients	PID Reading	Location
		None		

Appendix C

Data Usability Summary Report

Aztech
Technologies, Inc.

Data Usability Summary Report

Former Axiohm Facility
Ithaca, New York

Air Monitoring Samples
Lot # H2K150429

December 2012

EnviroAnalytics
Data Management and Validation Service

2638 Sunset Avenue
Utica, New York 13502

Data Usability Summary Report

Air Monitoring Samples
Lot # H2K150429

Former Axiohm Facility
Ithaca, New York

Prepared By:

EnviroAnalytics
Data Management and Validation Service
2638 Sunset Avenue
Utica, New York 13502

EXECUTIVE SUMMARY

This report addresses data quality for air samples collected at the former Axiohm Facility located in Ithaca, New York. The samples were analyzed for volatile organics (VOCs) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies. Sample collection was performed by Aztech Technologies, Inc. located in Ballston Spa, New York. Analytical services were provided by TestAmerica Laboratories, Inc. located in Knoxville, Tennessee.

The TO-15 volatile organic analyses data were determined to be usable for qualitative and quantitative purposes as presented by the laboratory.

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Appendices

SECTION 1 - INTRODUCTION

1.1 Introduction

This report addresses data quality for air samples collected at the former Axiohm Facility located in Ithaca, New York. The samples were analyzed for volatile organics (VOCs) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies. Sample collection was performed by Aztech Technologies, Inc. located in Ballston Spa, New York. Analytical services were provided by TestAmerica Laboratories, Inc. located in Knoxville, Tennessee. The quantity and type of samples submitted for data validation are tabulated below.

Table 1: Introduction - Sample Summary Table

SDG#	Date Collected	Sample Matrix	Sample Identification	
			Client ID	Laboratory ID
H2K150429	11/13/2012 11/14/2012	Air	56-SS	MXCPR
			56-BA1	MXCPT
			56-BA2	MXCPV
			56-AA	MXCPW
			57-SS	MXCPX
			57-BA	MXCP0
			57-AA	MXCP1
			58-BA	MXCP2
			58-AA	MXCP4
			59-SS	MXCP5
			59-BA	MXCP7
			59-AA	MXCP8
			DUP-SS	MXCQA
			DUP-BA	MXCQC
			DUP-AA	MXCQD

1.2 Analytical Methods

The samples were analyzed for volatile organics (VOCs) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies (2005 update). Laboratory analyses were provided by TestAmerica Laboratories, Inc. located in Knoxville, Tennessee.

1.3 Validation Protocols

Data validation is a process that involves the evaluation of analytical data against prescribed quality control criteria to determine the usefulness of the data. The analytical data addressed in this report were evaluated utilizing the quality control criteria presented in the following documents:

- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, EPA-540-R-08-01, June 2008.
- *CLP Organics Data Review and Preliminary Review*, SOP No. HW-6 Revision #14, USEPA Region II, September 2006.

- *Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-846 Method 8260B*, SOP No. HW-24 Revision #2, USEPA Hazardous Waste Support Branch, October 2006.

- *Validating Air Samples Volatile Organic Analysis of Ambient Air in Canister by Method TO-15*, SOP No. HW-31 Revision #4, USEPA Hazardous Waste Support Branch, October 2006.

- *Exhibit E of New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP)*, NYSDEC June 2005.

1.3.1 Organic Parameters

The validation of organic parameters for this project followed the requirements presented in the analytical methodology and the data validation guidelines presented above. The following QA/QC parameters were evaluated:

Volatile Organics Analyses

1. Holding Times
2. GC/MS Instrument Tuning Criteria
3. Calibration
   a. Initial Calibration
   b. Continuing Calibration
4. Blank Analysis
5. Surrogate Recovery
6. Matrix Spike / Matrix Spike Duplicate Analysis
7. Reference Standard Analysis
8. Internal Standards Recovery
9. Compound Identification and Quantification
10. Field Duplicate Analysis
11. System Performance
12. Documentation Completeness
13. Overall Data Assessment

1.4 Data Qualifiers

The following qualifiers as specified in the guidance documents presented in Section 1.3 of this report have been used for this data validation.

U Indicates that the compound was analyzed for, but was not detected. The sample quantification limit is presented and adjusted for dilution. This qualifier is also used to signify that the detection limit of an analyte was raised due to blank contamination.

J Indicates that the result should be considered approximate. This qualifier is used when the data validation procedure identifies a deficiency in the data generation process.

UJ Indicates that the detection limit for the analyte in this sample should be considered approximate. This qualifier is used when the data validation process identifies a deficiency in the data generation process.

R Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data are considered to be unusable for both qualitative and quantitative purposes.

The following sections of this document present a summary of the data validation process. Section 2 discusses data compliance with established QA/QC criteria and qualifications performed on the sample data. A discussion of the Precision, Accuracy, Representativeness, Comparability, and Completeness (PARCC) of the data and data usability are discussed in Section 3. The USEPA Region II Data Validation Checklist is presented in Appendix A.

SECTION 2 - DATA VALIDATION SUMMARY

This section presents a discussion of QA/QC parameter compliance with established criteria and the qualification of data performed when QA/QC parameter deviations were identified. When several deviations from established QA/QC criteria were observed, the final qualifier assigned to the data was based on the cumulative effect of the deviations.

2.1 Volatile Organics Analysis

Data validation was performed for fifteen air samples. The QA/QC parameters presented in Section 1.3.2 of this report were found to be within specified limits with the exception of the following:

Sample Dilution

Compound concentrations for several samples exceeded the linear calibration range of the analytical system when analyzed with an un-diluted sample aliquot. The laboratory re-analyzed these samples with a diluted sample aliquot to properly quantify the compound concentration within the range of the analytical system. The laboratory flagged compound concentrations that exceeded the analytical system's calibration range with an "E" qualifier in the un-diluted sample aliquots. The diluted sample results should be used in place of the "E" qualified sample results as shown in the following table.

Table 2: Volatile Organics Analysis - Sample Dilution Table

Sample ID	Compound	Sample Results (ppbv/µg/m^3)	
		Un-Diluted	Diluted
57-SS	Trichloroethene	25 E/130 E	18/95

Overall Data Assessment

Overall, the laboratory performed volatile organic analyses in accordance with the requirements specified in the methods listed in Section 1.2. These data were determined to be usable for qualitative and quantitative purposes as presented by the laboratory.

SECTION 3 - DATA USABILITY and PARCC EVALUATION

3.1 Data Usability

This section presents a summary of the usability of the analytical data and an evaluation of the PARCC parameters. Data usability was calculated as the percentage of data that was not qualified as rejected based on a significant deviation from established QA/QC criteria. Data usability which was calculated separately for each type of analysis is tabulated below.

Table 3: Data Usability and PARCC Evaluation - Data Usability

Parameter	Usability	Deviations
TO-15 Volatile organics	100 %	None resulting in the rejection of data.

3.2 PARCC Evaluation

The following sections provide an evaluation of the analytical data with respect to the precision, accuracy, representativeness, comparability, and completeness (PARCC) parameters.

3.2.1 Precision

Precision is measured through field duplicate samples, split samples, and laboratory duplicate samples. For this sampling program, none of the data were qualified for field or laboratory duplicate criteria deviations.

3.2.2 Accuracy

Matrix spike sample, surrogate recovery, internal standard recovery, laboratory control samples, and calibration criteria indicate the accuracy of the data. For this sampling program, none of the analytical data were qualified for deviations from matrix spike recovery criteria; none of the data were qualified for surrogate recovery criteria deviations; none of the data were qualified for internal standard recovery criteria deviations; none of the data were qualified for laboratory control sample deviations; and none of the data were qualified for calibration criteria deviations.

3.2.3 Representativeness

Holding times, sample preservation, and blank analysis are indicators of the representativeness of the analytical data. For this investigation, none of the analytical data required qualification for holding time deviations and none of the analytical data required qualification for blank analysis deviations.

3.2.4 Comparability

Comparability is not compromised provided that the analytical methods did not change over time. A major component of comparability is the use of standard reference materials for calibration and QC. These standards are compared to other unknowns to verify their concentrations. Since standard analytical methods and reporting procedures were consistently used by the laboratory, the comparability criteria for the analytical data were met.

3.2.5 Completeness

The percent usability or completeness of the data was determined to be 100 percent.

APPENDIX A

DATA VALIDATION CHECKLISTS

Table of Contents

Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
1.0	**Data Completeness and Deliverables**			
1.1	Have any missing deliverables been received and added to the data package?		X	
2.0	**Cover Letter, Narrative, and Data Reporting Forms**			
2.1	Is the Lab. Narrative and Cover Page Present?	X		
2.2	Is Case Number contained in the Narrative?	X		
2.3	Are the following Data Reporting Forms present?			
	Analysis Data Sheet [Form I/Equivalent]	X		
	Tentatively Identified Compounds [Form I-TIC]	X		
	Blank Summary [Form IV/Equivalent]	X		
	Laboratory Control Sample Data Sheet [Form III/Equivalent]	X		
	GC/MS Instrument Performance Check and Mass Calibration [Form V/Equivalent]	X		
	Initial Calibration [Form VI/Equivalent]	X		
	Continuing Calibration [Form VII/Equivalent]	X		
	Internal Standard Area and RT Summary [Form VIII/Equivalent]	X		
	Canister Certification [Form IX/Equivalent]	X		
3.0	**Canister Receipt/Log-in Sheet**			
3.1	Do all info items agree with each sample?	X		
4.0	**Traffic Reports and Laboratory Narrative**			
4.1	Are the Traffic Report Forms present for all samples?	X		
5.0	**Holding Times**			
5.1	Have any VOA technical holding times of 30 days, determined from the date of sample collection to the date of analysis, been exceeded?		X	
6.0	**Leak Test Evaluation**			
6.1	Did the pressure test not vary by more than ± 13.8 kPa (± 2 psi) over the 24 hours period?	X		
7.0	**Canister Certification Form IX/Equivalent**			
7.1	Blank Analysis			
	Were the target analytes < the required detection limits specified in the task order?		X	
7.2	Is the canister certification form provided, and the associated canister sample identification included? When contamination, included contamination detected (all raw data), analyte and reference mass spectra.		X	

Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
8.0	**Laboratory Control Samples**			
8.1	Is an LCS Data Sheet [Form III/Equivalent] present and complete for each LCS?	X		
8.2	Was an LCS prepared (10 ppbv total scan, 0.1 ppbv SIM) and analyzed at the required frequency (once per 24 hour analytical sequence, and concurrently with the samples in the SDG)?	X		
8.3	Are there any transcription/calculation errors between the raw data and Form III/Equivalent?	X		
8.4	Is the % recovery within 70 – 130 % for each LCS target compound reported on Form III/Equivalent?	X		
8.5	Is the RT of each reported LCS compound within the windows established during the most recent valid calibration?	X		
8.6	Do the Internal Standards meet the requirements specified in Sections 18.1 and 18.2?	X		
9.0	**GC/MS Instrument Performance Check**			
9.1	Are the GC/MS Instrument Performance Check Forms [Form V/Equivalent] present for Bromofluorobenzene (BFB)?	X		
9.2	Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the 50 ng BFB provided for each twenty-four hour shift?	X		
9.3	Has the instrument performance compound been analyzed for every twenty-four hours of sample analysis per instrument?	X		
9.4	Have the ion abundances been normalized to m/z 95?	X		
9.5	Have the ion abundance criteria been met for each instrument used?	X		
9.6	Are there any transcription/calculation errors between mass lists and Form Vs?		X	
9.7	Have the appropriate number of significant figures (two) been reported?	X		
9.8	Are the spectra of the mass calibration compound acceptable?	X		
10.0	**Performance Evaluation Sample (Optional)**			
10.1	Was a PE sample submitted from the Agency with each SDG?			X
10.2	Do the Internal Standards meet the requirements specified in Section 18.1 and 18.2?			X
11.0	**Laboratory Method Blanks**			
11.1	Is an Analysis Data Sheet [Form IV/Equivalent] present and complete for each method blank?	X		
11.2	Frequency of Analysis:			
	Has a method blank analysis been reported per instrument for each 24-hour analytical sequence?	X		
	Has a method blank been analyzed after the initial calibration or a valid calibration check standard, and before the LCS, prior to sample analysis?	X		
11.3	Is the chromatographic performance (baseline stability) for each instrument acceptable?	X		
11.4	Was the area response of each Internal Standard (IS) in the blank within ± 40 % of the mean area response of the IS of the most recent valid calibration?	X		

Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
11.5	Were the RTs of each IS within ± 0.33 min (20 sec.) between blanks and most recent valid calibration?	X		
12.0	**Blank Contamination**			
12.1	Do any method blanks have positive target and non-target VOA results?		X	
13.0	**Target Compound Analytes**			
13.1	Are the Organic Analysis Data Sheets [Form I/Equivalent], VOA chromatograms, and data system printouts present and complete with required header information for each of the following:			
	a. Samples?	X		
	b. Method blanks?	X		
	c. Laboratory Control Sample (LCS)?	X		
	d. Performance Evaluation Sample (PES)?	X		
13.2	Is the chromatographic performance acceptable with respect to:			
	a. Baseline stability?	X		
	b. Resolution?	X		
	c. Peak shape?	X		
	d. Full-scale graph (attenuation)?	X		
	e. Other?			X
13.3	Were any electropositive displacement (negative peaks) or unusual peaks seen?		X	
13.4	Is the sample component relative retention time (RRT) within ± 0.06 RRT units of the RRT of the standard component from the most recent continuing calibration?	X		
13.5	Was Nafion dryer used?		X	
14.0	**Tentatively Identified Compounds (TIC)**			
14.1	Are all Tentatively Identified Compound Forms [Form I-TIC] present and are retention time, estimated concentration and "JN" qualifier listed corresponding to each TIC?		X	
14.2	Are the mass spectra for the tentatively identified compounds and associated "best match" spectra included in the sample package for each of the following?			
	a. Samples			X
	b. Blanks			X
14.3	Are all ions present in the reference mass spectrum with a relative intensity greater than 10 % also present in the sample mass spectrum?			X
14.4	Do TIC and "best match" standard relative ion intensities agree within 20 %?			X
15.0	**Initial Calibration and System Performance [Form VI/Equivalent]**			
15.1	Were each GC/MS system calibrated at 5 concentrations that span the monitoring range of the interest in an initial calibration sequence to determine the sensitivity and the linearity of the GC/MS response for the target compounds?	X		
15.2	Was the same volume introduced into the trap consistently for all field and QC-sample analyses?	X		

No:	Parameter	YES	NO	N/A
15.3	Was the area response (Y) at each calibration level within ± 40 % of the mean area response (mean Y) over the initial calibration range for each Internal Standard?	X		
	Did the laboratory tabulate the area response (Y) of the primary ions and the corresponding concentration for each compound and Internal Standard?	X		
15.4	Are the relative retention times (RRTs) for each of the target compounds at each calibration level within ± 0.06 RRT units of the mean relative retention time for the compound?	X		
15.5	Are all individual RRF and average RRFs ≥ 0.050?	X		
15.6	Are the response factors (RF) stable i.e., % Relative Standard Deviation (%RSD) ≤ 40.0 %?	X		
15.7	Are there any transcription/calculation errors in the reporting of average response factors (RRFs) or %RSDs?		X	
15.8	Are the RT shift for each Internal Standard (IS) at each calibration level within 20 seconds of the mean RT over the initial calibration range of each IS?	X		
16.0	**Daily Calibration (Form VII/Equivalent)**			
16.1	Are the daily Calibration Forms [Form VII/Equivalent] present and complete for the volatile fraction?	X		
16.2	Has the daily calibration standard (20 ppbv total scan, 0.1 ppbv SIM) been analyzed for every twenty-four hours of sample analysis per instrument after the BFB tuning analysis?	X		
16.3	Do any volatile compounds have a % Difference (%D) between the initial and daily RRFs which exceed the ± 30 % criteria?		X	
16.4	Are there any transcription/calculation errors in the reporting of the average response factors (RRF) or % difference (%D) between initial and daily RRFs?		X	
17.0	**Compound Quantitation and Reported Detection Limits**			
17.1	Are there any transcription/calculations errors in Form I results?		X	
17.2	Are the reported detection limits adjusted to reflect sample dilutions?	X		
17.3	Have any target compound concentrations exceeded the calibration range of the GC?		X	
17.4	Was more than one method of quantitation used to calculate sample results within a batch or 24-hour analytical sequence?		X	
17.5	Did the lab report the target compounds below CRQLs with the suffix "J"?		X	
18.0	**Internal Standards (Form VIII/Equivalent)**			
18.1	Are the 3 internal standard areas [Form VIII] of every sample, LCS, PE, and blank within the upper and lower limits (+ 40 % to – 40 %) for each continuing calibration or 10 ppbv level of initial calibration?	X		
18.2	Are the internal standard retention times in each sample, LCS, PE, and blank within 20 seconds of the corresponding retention times in the associated calibration standard?	X		
19.0	**Mass Spectral Interpretation/Identification**			
19.1	Are the Organic Analysis Data Sheets present with required header information on each page, for each of the following:			
	a. Samples and/or fractions as appropriate?	X		

Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
	b. Laboratory Control Samples?	X		
	c. Blanks?	X		
19.2	Are the VOA Reconstructed Ion Chromatograms, the mass spectra for the identified compounds, and the data system printouts (quant reports) included in the sample package for each of the following:			
	a. Samples and/or fractions as appropriate?	X		
	b. Laboratory Control Samples?	X		
	c. Blanks?	X		
19.3	Is chromatographic performance acceptable with respect to:			
	a. Baseline stability?	X		
	b. Resolution?	X		
	c. Peak shape?	X		
	d. Full-scale graph (attenuation)?	X		
	e. Other:			X
19.4	Are the lab-generated standard mass spectra of the identified compounds present for each sample?	X		
19.5	Is the RRT of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	X		
19.6	Are all ions present in the reference standard mass spectrum at a relative intensity greater than 10 % also present in the sample mass spectrum?	X		
19.7	Do sample and reference standard relative ion intensities agree within ± 20 %?	X		
20.0	**Field Duplicates**			
15.1	Were any field duplicates submitted for VOA analysis?	X		

Appendix D

Photographic Documentation

Aztech
Technologies, Inc.

Site: Ithaca South Hill

Location: Structure 56
Ithaca, New York

Direction: n/a

Date: November 13, 2012

Subject: Floor drain next to sample point in the center of basement.

Site: Ithaca South Hill

Location: Structure 56
Ithaca, New York

Direction: Facing South

Date: November 13, 2012

Subject: Gas hot water tank located in the basement.

Site: Ithaca South Hill

Location: Structure 56
Ithaca, New York

Direction: n/a

Date: November 13, 2012

Subject: Gas furnace located in the center of the basement.

Site: Ithaca South Hill

Location: Structure 56
Ithaca, New York

Direction: n/a

Date: November 13, 2012

Subject: Ambient air sampling location, center of basement.

Site: Ithaca South Hill

Location: Structure 57
Ithaca, New York

Direction: Facing West

Date: April 15, 2012

Subject: View of the Basement.

Site: Ithaca South Hill

Location: Structure 57
Ithaca, New York

Direction: Facing South

Date: April 15, 2012

Subject: Sump located in the crawl space of basement.

Site: Ithaca South Hill

Location: Structure 57
Ithaca, New York

Direction: Facing North

Date: April 15, 2012

Subject: View of the basement from crawl space.

Site: Ithaca South Hill

Location: Structure 57
Ithaca, New York

Direction: Facing Southeast

Date: April 15, 2012

Subject: Southeast corner of crawl space

Site: Ithaca South Hill

Location: Structure 57
Ithaca, New York

Direction: Facing Southwest

Date: April 15, 2012

Subject: Southwest corner of crawl space.

Site: Ithaca South Hill

Location: Structure 57
Ithaca, New York

Direction: Facing Southwest

Date: April 15, 2012

Subject: Groundwater seep in southwest corner of crawl space.

Site: Ithaca South Hill

Location: Structure 58
Ithaca, New York

Direction: n/a

Date: November 14 2012

Subject: Sump located in the central portion of the basement.

Site: Ithaca South Hill

Location: Structure 58
Ithaca, New York

Direction: n/a

Date: November 14, 2012

Subject: Main beam in basement.

Site: Ithaca South Hill

Location: Structure 59
Ithaca, New York

Direction: Facing West

Date: November 13, 2012

Subject: Furnace located in the basement.

Site: Ithaca South Hill

Location: Structure 59
Ithaca, New York

Direction: n/a

Date: November 13, 2012

Subject: Hot water tank located in the basement.

Site: Ithaca South Hill

Location: Structure 59
Ithaca, New York

Direction: n/a

Date: November 13, 2012

Subject: Sump located in the basement.

Site: Ithaca South Hill

Location: Structure 59
Ithaca, New York

Direction: Facing West

Date: November 13, 2012

Subject: Duct work located in the basement.

Site: Ithaca South Hill

Location: Structure 59
Ithaca, New York

Direction: Facing West

Date: November 13, 2012

Subject: Outdoor air sample location, west of residence.

Site: Ithaca South Hill

Location: Structure 59
Ithaca, New York

Direction: n/a

Date: November 13, 2012

Subject: Sub-slab sampling location, center of basement.

Site: Ithaca South Hill

Location: Structure 59
Ithaca, New York

Direction: Facing Southeast

Date: November 13, 2012

Subject: Indoor air sampling location in the basement.